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济南大学 ESI 学科 分析报告

2007 年 1 月 1 日-2017 年 6 月 30 日

济南大学发展规划与学科建设处
济南大学图书馆

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前言

为了深入了解济南大学优势学科的发展情况，本报告基于 Web of Science 和 Incites 的客观数据，对济南大学进入全球机构前 1% 的学科及未进入前 1% 学科，但有高被引论文的学科做了分析，并与省内高校做了对比。由于 ESI 将所有科研成果以 22 类学科划分，这与我国《中华人民共和国学科分类与代码国家标准》（标准号“GB/T 13745-92”）以及国务院学位委员会、教育部颁布的《学位授予和人才培养学科目录（2011 年）》等学科分类标准存在较大差异，所以，为了深入了解本机构具体哪些学科、哪些人、哪些期刊及文章对进入全球前 1% 的 ESI 学科做出贡献，报告将对其展开分析工作。（本报告中所有 ESI 数据均来源于 2017 年 9 月更新的内容）

1 基础数据来源和统计方法

1.1 数据来源

报告数据主要来源于 Science Citation Index Expanded（科学引文索引，简称 SCIE）、Essential Science Indicators（基础科学指标，简称 ESI）等数据库，利用 InCites 数据库获取 ESI 数据库 22 个学科分类体系下 19000 多种 web of science 期刊，择取济南大学 2007-2017 年 6 月 30 号的 ESI 学科高被引论文进行统计分析，从而计算归纳出我校各学院及院系师生对相关 ESI 学科贡献度。

1.2 相关介绍

Science Citation Index Expanded (科学引文索引, 简称 SCIE) 是美国科学情报研究所出版的一部国际性的检索性刊物, 它不仅是一部重要的检索工具书, 而且也是科学研究成果评价的一项重要依据。它已成为目前国际上最具权威性的、用于基础研究和应用基础研究成果的重要评价体系。它是评价一个国家、一个科学研究机构、一所高等学校、一本期刊, 乃至一个研究人员学术水平的重要指标之一。

Essential Science Indicators (基础科学指标, 简称 ESI) 是当今普遍用以评价大学和科研机构国际学术水平及影响的重要指标, 也是全球公认的判断学科发展水平的重要参照之一。ESI 对全球所有高校及科研机构的 SCIE、SSCI 库中近 10 年的论文数据进行统计, 按被引频次的高低确定出衡量研究绩效的阈值, 分别排出居世界前 1% 的研究机构、科学家、研究论文, 居世界前 50% 的国家/地区和居前 0.1% 的热点论文。ESI 针对 22 个专业领域, 通过论文数、论文被引频次、论文篇均被引频次、高被引论文、热点论文和前沿论文等 6 大指标, 从各个角度对国家/地区科研水平、机构学术声誉、科学家学术影响力以及期刊学术水平进行全面衡量。

ESI 学科分类是一种较为宽泛的学科分类模式, 基于期刊分类, 由自然科学与社会科学的 22 个学科构成, 艺术与人文期刊没有被包含在内。每一本期刊只被划分至 22 个 ESI 学科中的一个, 没有重叠的学科设置使得分析变得更为简单。ESI 设置的 22 个学科为: 生物与生物化学、化学、计算机科学、经济学与商学、工程学、地球科学、材料科学、数学、综合交叉学科、物理学、社会科学总论、空间科学、农业科学、临床医学、分子生物学与遗传学、神经系统学与行为学、

免疫学、精神病学与心理学、微生物学、环境科学与生态学、植物学与动物学、药理学和毒理学。

济南大学进入 ESI 前 1% 学科的有 4 个, 分别是化学、临床医学、材料科学、工程学; 未进入前 1% 学科但有高被引论文的有 6 个, 分别是物理学、生物与生物化学、数学、经济学与商学、农业科学、环境科学与生态学, 比 7 月份数据增加了农业科学、环境科学与生态学。

2 山东省 ESI 学科情况

2.1 山东省 ESI 学科及高质量论文对比

在 2017 年 9 月 25 日的统计数据中 (2017 年 9 月份更新数据), 山东省共有 12 所高校共计 17 个学科进入了 ESI 全球前 1%, 具体情况如表-1 所示。

表-1 2017 年 9 月山东省 ESI 学科概况

高校名称	ESI 学科数量	高被引论文数量	热点论文数量
山东大学	16	317	10
中国海洋大学	9	85	1
中国石油大学	4	94	5
济南大学	4	59	1
青岛大学	3	76	7
青岛科技大学	3	28	2
曲阜师范大学	2	45	4
山东农业大学	2	17	2
山东师范大学	1	18	0
山东科技大学	1	16	0
聊城大学	1	15	1
滨州医学院	1	1	0

2.2 山东省 ESI 学科全球排名情况

在 2017 年 9 月 25 日的统计数据中 (2017 年 9 月份更新数据) , 山东省共有 12 所高校共计 17 个学科进入了 ESI 全球前 1% , 按照 ESI 总被引频次 , 各高校具体学科全球排名具体情况如表-2 所示。(数据来源于 ESI)

表-2 2017 年 9 月山东省 ESI 学科全球排名

	山东大学	中国海洋大学	中国石油大学	青岛科技大学	青岛大学	济南大学	山东农业大学	山东师范大学	聊城大学	曲阜师范大学	山东科技大学	滨州医学院
农业科学	667	398					295					
生物与生物化学	275	746										
化学	88	756	438	421	910	552		816	865	1140		
临床医学	476				1394	1519						3752
计算机科学	352											
经济学与商学												
工程学	150	783	245	1118	607	1049				769	1181	
环境学及生态学	583	466										
地学		244	395									
免疫学	529											
材料科学	87	565	334	561		560						
数学	84											
微生物学												
分子生物学与遗传学	548											
综合学科												
神经科学与行为科学	593											
药理学与毒理学	153	590										
物理学	234											
植物与动物科学	743	324					334					
心理学与精神病学												
一般社会科学	933											
空间科学												

3 济南大学 ESI 学科现状分析

为了加强整体学科规划与发展,挖掘我校有潜力进入 ESI 的学科也是十分必要的。济南大学从 2007 年 1 月 1 日-2017 年 6 月 30 日,科研高产出的学科分布在化学、临床医学、材料科学、物理学、工程学、生物与生物化学等学科,如图-1 所示。(数据来源于 Incites)

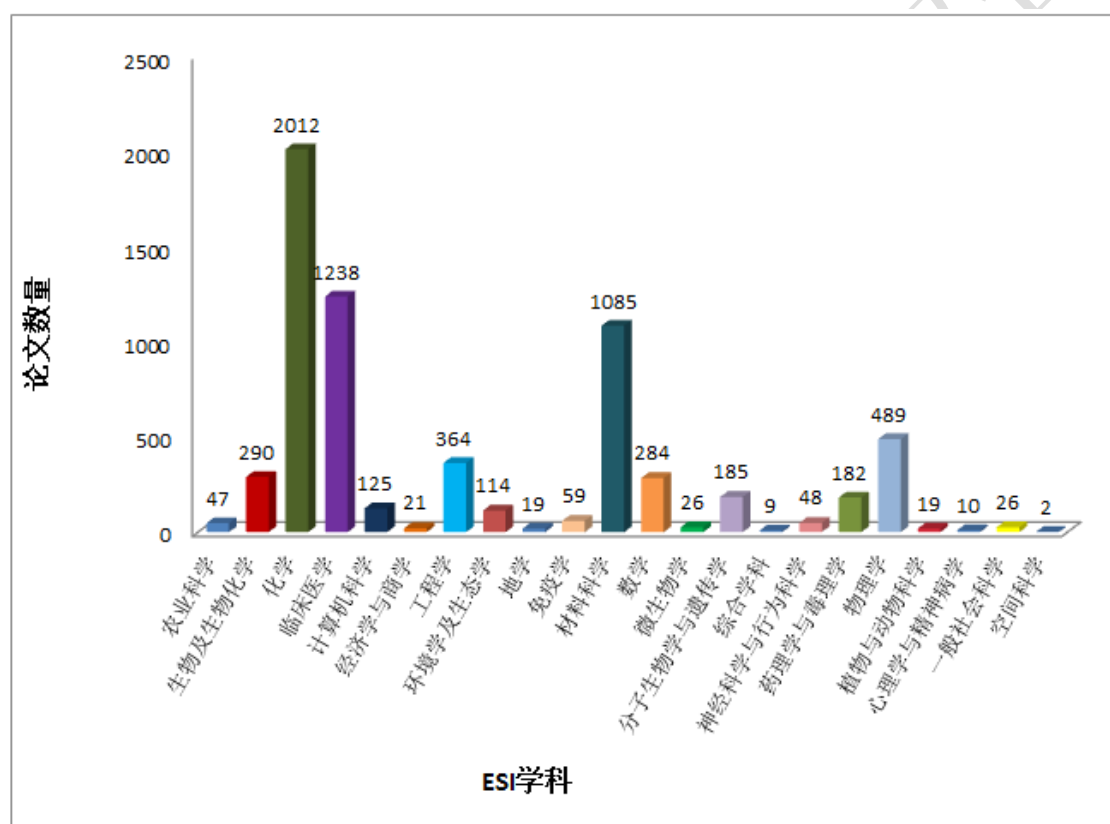


图-1 济南大学各学科的科研产出(2007-2017.06.30)

被引频次直接反应了各个学科在全球范围内的影响力,可以看到济南大学在化学、临床医学、材料科学、物理学、生物与生物化学、工程学等学科有一定的影响力,如图-2 所示。(数据来源于 Incites)

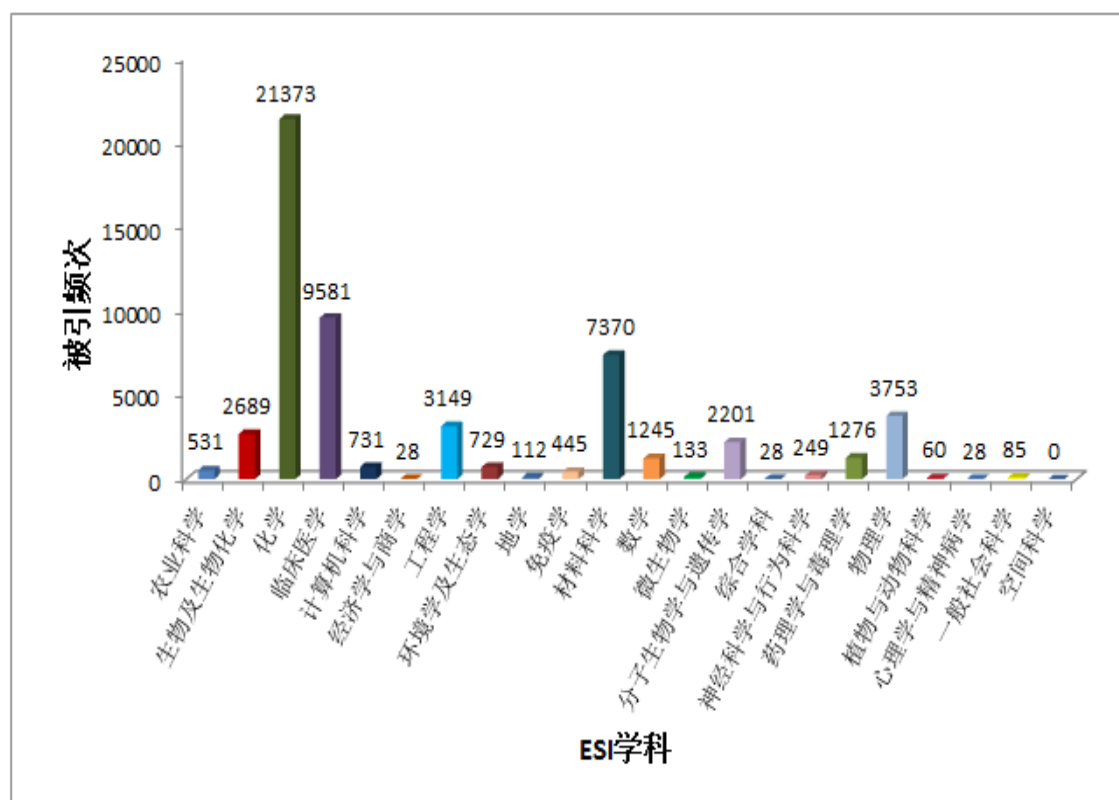


图-2 济南大学各学科论文的总被引频次(2007-2017.06.30)

4 济南大学 ESI 预测趋势

为了挖掘我校有潜力进入 ESI 的学科，报告选取了济南大学各学科的总被引频次和门槛值¹并做了比对分析，如图-3 所示。比值越接近 1 说明越有可能进入全球前 1%。可以看到除已进入前 1%的临床医学、化学、材料科学、工程学外，其他学科离阈值还相差很远。（数据来源于 Incites）

¹门槛值，即在各 ESI 学科中，最后一个进入该学科的机构的总被引频次。

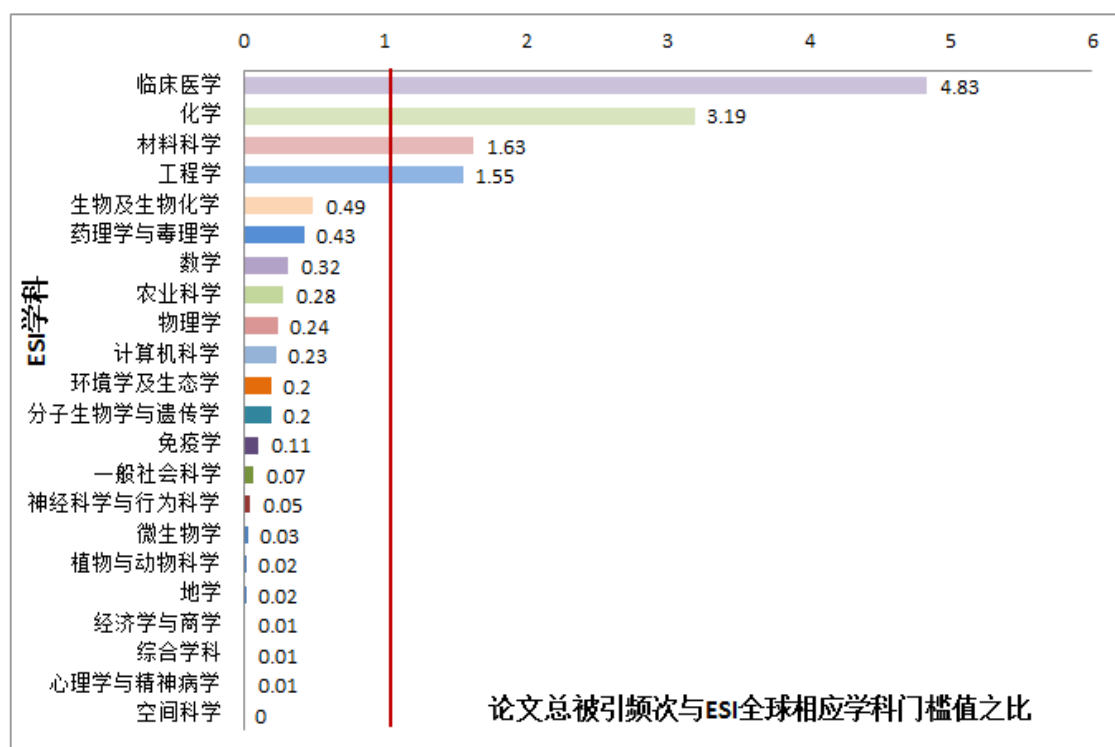


图-3 济南大学 ESI 学科趋势预测

5 济南大学 ESI 高质量论文概况

ESI 高质量论文 (Top Papers) 包括两种，即高频被引论文 (Highly Cited Papers) 和热点论文 (Hot Papers) 。高频被引论文指近十年发表的被 SCI 或 SSCI 收录的 Article , Review , 其总被引频次在相应学科处在全球范围内的前**百分之一**；热点论文指近两年发表的被 SCI 或 SSCI 收录的 Article 和 Review , 其总被引频次在近两个月处在相应学科全球范围内的前**千分之一**。

根据 ESI2017 年 9 月 25 日 (2017 年 9 月份更新数据) 统计结果，我校共有 59 篇论文成为高频被引论文 (包含医学与生命科学学院及附属医院) ，分布在化学、临床医学、材料科学、工程学、物理学、生物与生物化学、数学、农业科学、经济学与商学、环境科学与生态学这 10 个学科中，比 7 月份统计数据增加 2 个学科。其中被引频次最高的是我校医学与生命科学学院张福仁老师于

2009 年发表在 *NEW ENGLAND JOURNAL OF MEDICINE* 上的论文

“Genomewide Association Study of Leprosy” , 截止至今在 Web of Science 中总被引用 321 次。

6 济南大学 ESI 高被引论文总体情况

截至到 2017 年 9 月 25 日 (2017 年 9 月份更新数据) , 我校高被引论文共 59 篇 , 如图-4 所示。

Report View by Selection					Customize
Total: 5	Research Fields	Web of Science Documents	Cites	Cites/Paper	Highly Cited Papers
1	CHEMISTRY	1,977	20,272	10.25	9
2	CLINICAL MEDICINE	1,233	9,335	7.57	6
3	MATERIALS SCIENCE	1,051	6,859	6.53	8
4	ENGINEERING	357	2,748	7.70	18
0	ALL FIELDS	6,547	52,640	8.04	59

图-4 济南大学高被引论文

6.1 高被引论文学科分布

我校 59 篇高被引论文中 , 进入前 1% 学科的共有 41 篇 , 分别是 Chemistry (化学) 9 篇 , Clinical Medicine (临床医学) 6 篇 , Materials Science (材料科学) 8 篇 , Engineering (工程学) 18 篇 (有 1 篇非济南大学文章) ; 其他未进入前 1% 学科的高被引论文共 18 篇 , 分别是 Physics (物理学) 8 篇 , Biology & Biochemistry (生物与生物化学) 4 篇 , Mathematics (数学) 2 篇 , Agriculture Sciences (农业科学) 2 篇 (有 1 篇非济南大学文章) , Economics and Business (经济学与商学) 1 篇 , Environment/Ecology (环境科学与生态学) 1 篇。如图-5 所示。

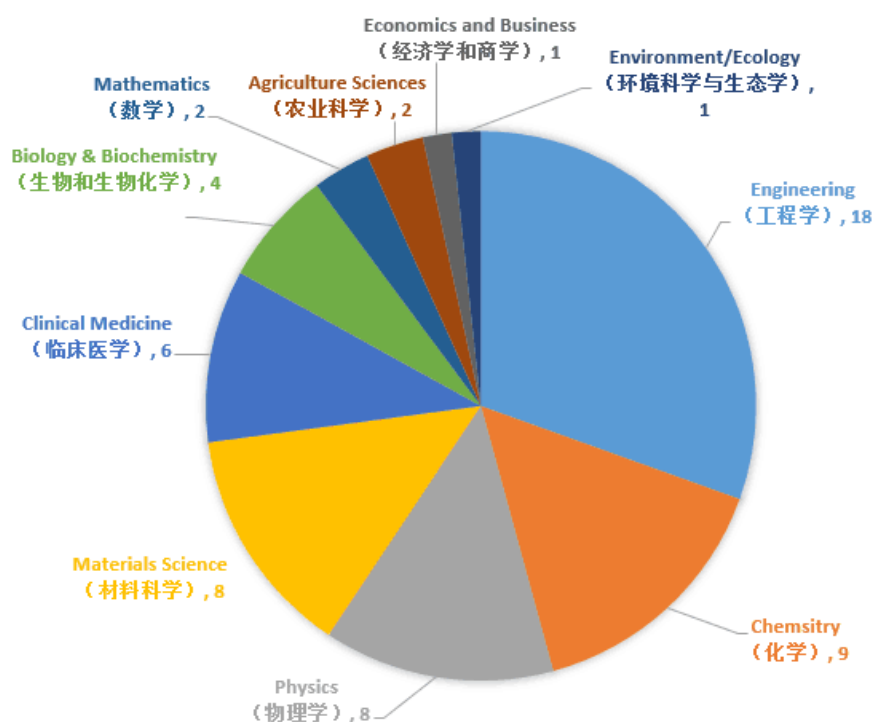


图-5 高被引论文学科分布

6.2 高被引论文学院分布

济南大学 59 篇高被引论文分布在 10 个学院（研究院），其中化学化工学院 13 篇、资源与环境学院 10 篇、物理科学与技术学院 9 篇、山东省医学科学院 8 篇、材料科学与工程学院 6 篇、光功能与成像研究院 4 篇、商学院 3 篇、数学科学学院 2 篇、信息科学与工程学院 1 篇、外国语学院 1 篇、其他 2 篇。如表-3 所示。各学院所占百分比如图-6 所示。

表-3 高被引论文学院分布

学院名称	高被引论文数
化学化工学院	13
资源与环境学院	10
物理科学与技术学院	9
医学与生命科学学院	8
材料科学与工程学院	6
光功能材料与成像研究院	4

商学院	3
数学科学学院	2
信息科学与工程学院	1
外国语学院	1
其他	2

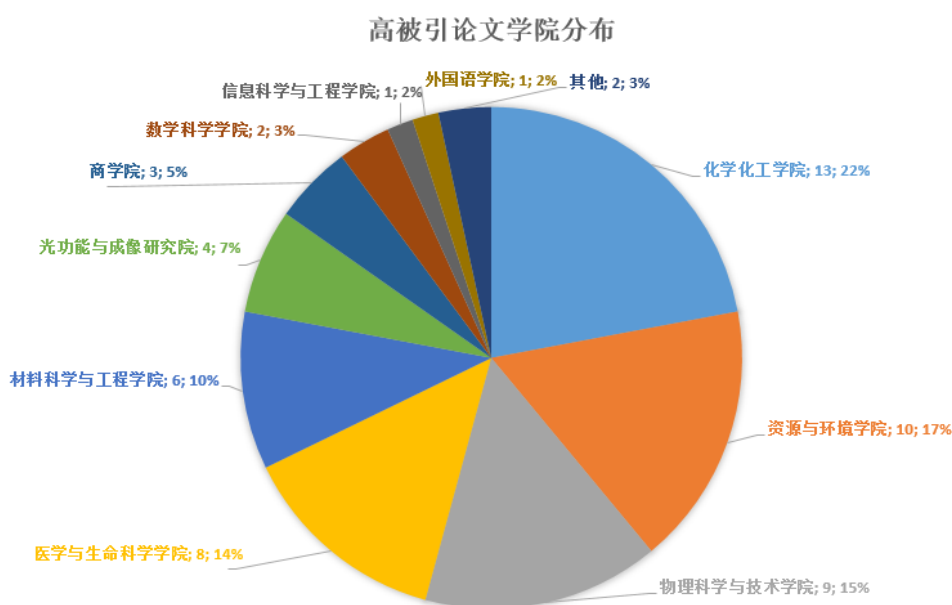


图-6 高被引论文学院分布

6.3 高被引论文学院贡献度

对学科与学院的契合程度分析，临床医学、物理以及数学的高被引论文来源相对比较集中，主要来自于我校对应学院作者。化学 13 篇高被引论文来自 3 个学院(研究院)，材料科学 8 篇高被引论文分布在 3 个学院，工程学高被引论文来自资源与环境学院、化学化工学院和材料科学与工程学院，生物与生物化学 4 篇高被引论文来自化学化工学院和医学与生命科学学院，**新增农业科学 1 篇，来自资源与环境学院，环境与生态学 1 篇，来自化学化工学院。**各学院贡献度如表-4 和图-7 所示。

表-4 高被引论文学院贡献度

	化学	材料科学	工程学	临床医学	生物与生物化学	数学	物理学	经济学与商学	农业科学	环境科学与生态学
化学化工学院	4	3	2		2		1			1
资源与环境学院			9						1	
物理科学与技术学院		2	1				6			
医学与生命科学学院				6	2					
光功能材料与成像研究院	4									
材料科学与工程学院	1	3	1				1			
数学科学学院						2				
商学院			2					1		
信息科学与工程学院			1							
外国语学院			1							
其他			1						1	

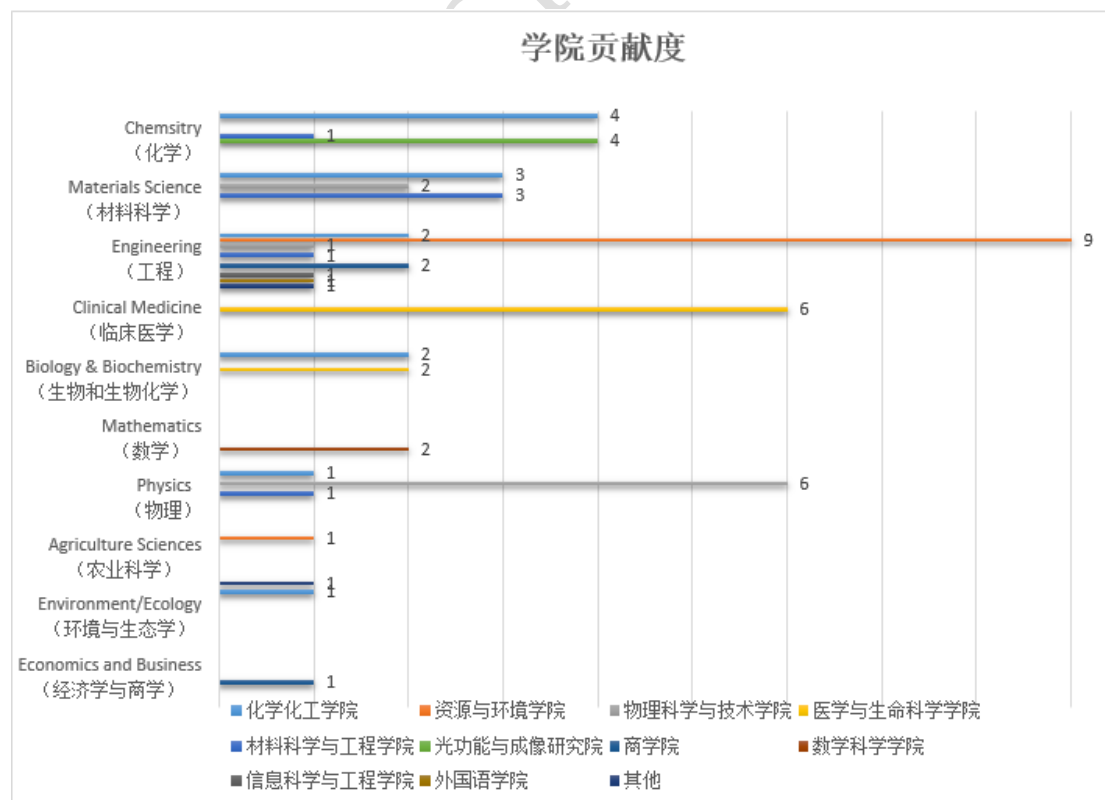


图-7 高被引论文学院贡献度

6.4 高被引论文作者情况统计

从通讯作者单位和第 1 作者单位均为济南大学角度统计(有两篇通讯作者是校外) , 我校共有 38 篇高被引论文 , 比 2017 年 7 月份统计数据增加 5 篇 , 新增通讯作者 5 位 , 挤掉 1 位 ; 另外新增农业科学 1 篇 , 环境科学与生态学 1 篇 , 论文来自 19 位通讯作者 , 数量较多的是张昌文团队、杜斌团队和林伟英团队 , 如表-5 所示。

表-5 高被引论文作者分布情况

学院	论文篇数	通讯作者	论文篇数	第 1 作者	论文篇数
化学化工学院	8	罗川南	3	Fan Lulu	2
				Li Leilei	1
		于京华	3	Wang shoumei	1
				Ge Lei	1
				Zhang Yan	1
		徐彩霞	1	徐彩霞	1
		张昭良	1	李平	1
资源与环境学院	10	杜斌	5	Cui Limei	1
				闫良国	1
				Xin Xiaodong	1
				Guo Xiaoyao	1
				魏东	1
		孙蒙	1	Chen Guodong	1
		国伟林	1	Su Shengnan	1
		闫良国	2	Shan Ranran	2
		杨丽原	1	Wang Yunqian	1

物理科学与技术学院	8	张昌文	6	Zhang Runwu	3
				Zhao Hui	1
				Wang Yaping	2
		徐锡金	1	Zhang Shouwei	1
		Li Jiaying/ 徐锡金	1	Zhang Shouwei	1
光功能材料与成像研究院	4	林伟英	4	Tang Yonghe	2
				Chen Hua	1
				Dong Baoli	1
数学科学学院	1	孙书荣	1	Zhao Yige	1
材料科学与工程学院	1	李嘉	1	Lu Lu	1
	2	曹丙强	1	Qiu Xiaofeng	1
商学院	1	校外	1	Wu Jia	1
信息科学与工程学院	1	校外	1	牛四杰	1
医学与生命科学学院	3	张福仁	1	张福仁	1
		邢立刚	1	Meng XianJiao	1
		盛修贵	1	Zhang Lu	1

6.5 高被引论文对比变化情况

与我校 ESI 高被引论文 2017 年 7 月份更新数据相比较，通讯作者单位和第 1 作者单位均为济南大学的高被引论文中，略有变化，但基本上均保持高被引态势，如表-6 所示。

表-6 高被引论文对比变化情况

学院	学科	题名	来源	出版年	通讯作者	第1作者	1月份数据	3月份数据	5月份数据	7月份数据	9月份数据
							更新被引数据	更新被引数据	更新被引数据	更新被引数据	更新被引数据
化学化工学院	MATERIALS SCIENCE 材料科学	THREE-DIMENSIONAL PAPER-BASED ELECTROCHEMILUMINESCENCE IMMUNODEVICE FOR MULTIPLEXED MEASUREMENT OF BIOMARKERS AND POINT-OF-CARE TESTING	BIOMATERIALS 33 (4): 1024-1031 FEB 2012	2012	于京华	Ge Lei	165	174	177	182	184
		In-situ synthesized polypyrrole-cellulose conductive networks for potential tunable foldable power paper	NANO ENERGY, 2019 : 31 : 174-182	2017		Zhang Yan				3	6
	CHEMISTRY 化学	PAPER-BASED CHEMILUMINESCENCE ELISA: LAB-ON-PAPER BASED ON CHITOSAN MODIFIED PAPER DEVICE AND WAX-SCREEN-PRINTING	BIOSENS BIOELECTRON 31 (1): 212-218 JAN 15 2012	2012		Wang Shoumei	122	127	130	137	140
	ENGINEERING 工程学	FABRICATION OF NOVEL MAGNETIC CHITOSAN GRAFTED WITH GRAPHENE OXIDE TO ENHANCE ADSORPTION PROPERTIES FOR METHYL BLUE	J HAZARD MATER 215: 272-279 MAY 15 2012	2012	罗川南	Fan Lulu	158	165	173	180	187
	BIOLOGY & BIOCHEMISTRY 生物与生物化学	HIGHLY SELECTIVE ADSORPTION OF LEAD IONS BY WATER-DISPERSIBLE MAGNETIC CHITOSAN/GRAPHENE OXIDE COMPOSITES	COLLOID SURFACE B 103: 523-529 MAR 1 2013	2013		Fan Lulu	90	97	108	116	120
		ADSORBENT FOR CHROMIUM REMOVAL BASED ON GRAPHENE OXIDE FUNCTIONALIZED WITH MAGNETIC CYCLODEXTRIN-CHITOSAN	COLLOID SURFACE B 107: 76-83 JUL 1 2013	2013		Li Leilei	75	82	91	94	98
	ENGINEERING 工程学	NANOPOROUS PDCU ALLOY FOR FORMIC ACID ELECTRO-OXIDATION	J POWER SOURCES 199: 124-131 FEB 1 2012	2012	徐彩霞	徐彩霞	78	83	85		
		NANOPOROUS PTCO AND PTNI ALLOY RIBBONS FOR METHANOL ELECTROOXIDATION	INT J HYDROGEN ENERG 37 (14): 10489-10498 JUL 2012	2012			56	56	60	64	67
	CHEMISTRY 化学	ULTRASENSITIVE ELECTROCHEMICAL IMMUNOASSAY FOR CEA THROUGH HOST-GUEST INTERACTION OF BETA-CYCLODEXTRIN FUNCTIONALIZED GRAPHENE AND CU@AG CORE-SHELL NANOPARTICLES WITH ADAMANTINE-MODIFIED ANTIBODY	BIOSENS BIOELECTRON 63: 465-471 JAN 15 2015	2015	魏琴	Gao Jian	31	34	38	43	

资源与 环境学院	Environmen t/Ecology 环 境 与 生 态 学	Ce-Ti Amorphous Oxides for Selective Catalytic Reduction of NO with NH3: Confirmation of Ce-O-Ti Active Sites	NVIRONMENTAL SCIENCE & TECHNOLOGY 卷: 46 期: 17 页: 9600-9605	20 12	张 昭 良	李平					104
	ENGINEERI NG 工程学	ADSORPTION OF PHOSPHATE FROM AQUEOUS SOLUTION BY HYDROXY-ALUMINUM, HYDROXY-IRON AND HYDROXY-IRON-ALUMINUM PILLARED BENTONITES	J HAZARD MATER 179 (1-3): 244-250 JUL 15 2010	20 10	杜 斌	闫良 国	93	100	105	108	113
		HIGHLY EFFICIENT REMOVAL OF HEAVY METAL IONS BY AMINE-FUNCTIONALIZED MESOPOROUS FE3O4 NANOPARTICLES	CHEM ENG J 184: 132-140 MAR 1 2012	20 12		Xin Xiao dong	86	90	95	97	103
		Synthesis of amino functionalized magnetic graphenes composite material and its application to remove Cr(VI), Pb(II), Hg(II), Cd(II) and Ni(II) from contaminated water	JOURNAL OF HAZARDOUS MATERIALS 卷: 278 页: 211-220	20 14		Guo Xiao yao	59	63	74	81	89
		EDTA FUNCTIONALIZED MAGNETIC GRAPHENE OXIDE FOR REMOVAL OF PB(II), HG(II) AND CU(II) IN WATER TREATMENT: ADSORPTION MECHANISM AND SEPARATION PROPERTY	CHEM ENG J 281: 1-10 DEC 1 2015	20 15		Cui Lime i	24	30	41	47	54
		Extracellular polymeric substances for Zn (II) binding during its sorption process onto aerobic granular sludge	JOURNAL OF HAZARDOUS MATERIALS 卷: 301 页: 407-415	20 16	孙 蒙	魏东	6	7	8	11	12
		AG3PO4/GRAPHENE-OXIDE COMPOSITE WITH REMARKABLY ENHANCED VISIBLE-LIGHT-DRIVEN PHOTOCATALYTIC ACTIVITY TOWARD DYES IN WATER	J HAZARD MATER 244: 86-93 JAN 15 2013	20 13		Chen Guo dong	76	80	86	87	91
		HETEROGENEOUS ACTIVATION OF OXONE BY COXFE3-XO4 NANOCATALYSTS FOR DEGRADATION OF RHODAMINE B	J HAZARD MATER 244: 736-742 JAN 15 2013	20 13		Su Shen gnan	46	49	56	59	61
		Magnetic Fe3O4/MgAl-LDH composite for effective removal of three red dyes from aqueous solution	CHEMICAL ENGINEERING JOURNAL 卷: 252 页: 38-46	20 14	闫 良 国	Shan Ranr an		33	37	43	46
		Adsorption of Cd(II) by Mg-Al-CO3- and magnetic Fe3O4/Mg-Al-CO3-layered double hydroxides: Kinetic, isothermal, thermodynamic and mechanistic studies	JOURNAL OF HAZARDOUS MATERIALS 卷: 299 页: 42-49, 2015	20 15		Shan Ranr an				25	27

	Agricultural Sciences 农业科学	Spatial distribution, ecological risk assessment and source identification for heavy metals in surface sediments from Dongping Lake, Shandong, East China	CATENA 卷: 125 页: 200-205	20 15	杨丽原	Wan g Yuan qian					21
物理科学与技术学院	PHYSICS 物理学	Ethynyl-functionalized stanene film: a promising candidate as large-gap quantum spin Hall insulator	NEW JOURNAL OF PHYSICS 卷: 17	20 15	张昌文	Zhang Runwu			30	36	47
		UNEXPECTED GIANT-GAP QUANTUM SPIN HALL INSULATOR IN CHEMICALLY DECORATED PLUMBENE MONOLAYER	SCI REP 6: - FEB 2 2016	20 16		Zhao Hui	18	20	22	32	43
		FUNCTIONALIZED THALLIUM ANTIMONY FILMS AS EXCELLENT CANDIDATES FOR LARGE-GAP QUANTUM SPIN HALL INSULATOR	SCI REP 6: - FEB 17 2016	20 16		Zhang Runwu	9	12	13	16	24
		Large-gap quantum spin Hall state in functionalized dumbbell stanene	APPLIED PHYSICS LETTERS 卷: 108 期: 7 2016	20 16		Wan g Yapi ng				21	29
		Controllable band structure and topological phase transition in two-dimensional hydrogenated arsenene	SCI REP 6: - FEB 3 2016	20 16		Wan g, Yapi ng	9	11	15	19	25
		ROOM TEMPERATURE QUANTUM SPIN HALL INSULATOR IN ETHYNYL-DERIVATIVE FUNCTIONALIZED STANENE FILMS	SCI REP 6: - JAN 5 2016	20 16		Zhan g Runwu	8	10	11		
	MATERIALS SCIENCES 材料科学	Formation of Fe ₃ O ₄ @MnO ₂ ball-in-ball hollow spheres as a high performance catalyst with enhanced catalytic performances	JOURNAL OF MATERIALS CHEMISTRY A 卷: 4 期: 4 页: 1414-1422	20 16	徐锡金	Zhan g Shou Wei		11	22	24	31
		New family of room temperature quantum spin Hall insulators in two-dimensional germanene films	JOURNAL OF MATERIALS CHEMISTRY C 卷: 4 期: 10 页: 2088-2094		张昌文	Zhang Runwu		9	12	18	25
	ENGINEERING 工程学	Rice husks as a sustainable silica source for hierarchical flower-like metal silicate architectures assembled into ultrathin nanosheets for adsorption and catalysis	JOURNAL OF HAZARDOUS MATERIALS 卷: 321 页: 92-102	20 17	Li Jiaxin g/ 徐锡金	Zhan g Shou Wei					4
数学科学学院	MATHEMATICS 数学	POSITIVE SOLUTIONS FOR BOUNDARY VALUE PROBLEMS OF NONLINEAR FRACTIONAL DIFFERENTIAL EQUATIONS	APPL MATH COMPUT (16): 6950-6958 APR 15 2011	20 11	孙书荣	Zhao Yige	47	52	54	54	55

学院		Positive Solutions to Boundary Value Problems of Nonlinear Fractional Differential Equations	ABSTRACT AND APPLIED ANALYSIS 文献号: 390543	2011		Zhao Yige		38	40		
光功能材料与成像研究院	CHEMISTRY 化学	DEVELOPMENT OF FLUORESCENT PROBES BASED ON PROTECTION-DEPROTECTION OF THE KEY FUNCTIONAL GROUPS FOR BIOLOGICAL IMAGING	CHEM SOC REV 44 (15): 5003-5015 2015	2015	林伟英	Tang Yongke	43	49	54	67	74
		Single near-infrared fluorescent probe with high- and low-sensitivity sites for sensing different concentration ranges of biological thiols with distinct modes of fluorescence signals	CHEMICAL SCIENCE, 2016, 7(3): 1896-1903	2016		Chen Hua	10	13	16	19	26
		Development of a Two-Photon Fluorescent Probe for Imaging of Endogenous Formaldehyde in Living Tissues	ANGEWANDTE CHEMIE-INTERNATIONAL EDITION, 2016, 55(10): 3356-3359	2016		Tang Yongke	9	10	13	25	36
		Dual Site-Controlled and Lysosome-Targeted Intramolecular Charge Transfer-Photoinduced Electron Transfer-Fluorescence Resonance Energy Transfer Fluorescent Probe for Monitoring pH Changes in Living Cells	ANALYTICAL CHEMISTRY 卷: 88 期: 7 页: 4085-4091	2016		Don g Baoli			12	18	23
材料科学与工程学院	ENGINEERING 工程学	A hierarchically porous MgFe ₂ O ₄ /gamma-Fe ₂ O ₃ magnetic microspheres for efficient removals of dye and pharmaceutical from water	CHEMICAL ENGINEERING JOURNAL 卷: 283 页: 524-534	2016	李嘉	LU LU			7	9	12
	MATERIALS SCIENCES 材料科学	Near room-temperature triethylamine sensor constructed with CuO/ZnO P-N heterostructural nanorods directly on flat electrode	SENSORS AND ACTUATORS B-CHEMICAL 卷: 225 页: 16-23、	2016	曹丙强	Xu Qii		9			
		From unstable CsSnI ₃ to air-stable Cs ₂ SnI ₆ : A lead-free perovskite solar cell light absorber with bandgap of 1.48 eV and high absorption coefficient	SOLAR ENERGY MATERIALS AND SOLAR CELLS 2017 年, 卷: 159 页: 227-234	2017		Qiu Xiaofeng				3	8
商学院	Economics & Business 经济学与商学	The Effect of Parental Absence on Child Development in Rural China	ASIAN ECONOMIC POLICY REVIEW 2017 年, 卷: 12 期: 1 页: 117-134 2017	2017	校外	Wu Jia				3	3
信息学院	ENGINEERING 工程学	Robust noise region-based active contour model via local similarity factor for image segmentation	PATTERN RECOGNITION 卷: 61 页: 104-119 特刊: SI	2016	校外	牛四杰					3

医学与生命科学学院	Clinical Medicine 临床医学	GENOMEWIDE ASSOCIATION STUDY OF LEPROSY	N ENGL J MED 361 (27): 2609-2618 DEC 31 2009	20 09	张福仁	张福仁	295	303	310	319	321
		The Association of HMGB1 Expression with Clinicopathological Significance and Prognosis in Hepatocellular Carcinoma: A Meta-Analysis and Literature Review	PLOS ONE 卷: 9 期: 10	201 4	盛修贵	Zhang Lu					59
		Predictive biomarkers in PD-1/PD-L1 checkpoint blockade immunotherapy	CANCER TREATMENT REVIEWS 卷: 41 期: 10 页: 868-876	201 5	邢立刚	Meng Xiaojiao			29	38	46

7 济南大学高被引论文详细情况

7.1 详细数据统计表

各学科高被引论文数量及学院分布、作者情况如表-7 所示。

表-7 各学科高被引论文数量及分布学院、作者情况

类别	学科	高被引论文篇数	论文编号	高被引次数	所属学院	通讯作者第1单位	通讯作者第2单位	通讯作者第4单位	第1单位(非通讯单位)	第2单位	第3单位	第4单位	第7单位	第9单位	第13单位
进入前1%学科	CHEMISTRY 化学	9	1	288	化学化工学院					√					
			2	218	化学化工学院					√					
			3	185	材料科学与工程学院					√					
			4	140	化学化工学院	√									
			5	74	光功能材料与成像研究院	√									
			6	36	光功能材料与	√									

					成像研究院																	
			7	26	光功能材料与 成像研究院	√																
			8	23	光功能材料与 成像研究院	√																
			9	21	化学化工学院						√											
	Clinical Medicine 临床医学	6	1	321	医学与生命科 学学院	√																
			2	217	医学与生命科 学学院																√	
			3	114	医学与生命科 学学院														√			
			4	59	医学与生命科 学学院	√																
			5	46	医学与生命科 学学院-肿瘤医 院	√																
			6	29	医学与生命科 学学院		√															
	Material Science 材料科学	8	1	184	化学化工学院	√																
			2	105	化学化工学院						√											
			3	65	材料科学与工 程学院						√											
			4	31	物理科学与技 术学院	√																
			5	25	材料科学与工 程学院							√										
			6	25	物理科学与技 术学院	√																
			7	8	材料科学与工 程学院	√																
			8	6	化学化工学院	√																
	Enginee ring 工程学	18	1	187	化学化工学院	√																
			2	113	资源与环境学 院	√																
			3	103	资源与环境学 院	√																
			4	91	资源与环境学 院	√																
			5	89	资源与环境学 院	√																
			6	69	商学院				√													
			7	67	化学化工学院	√																

			8	65	商学院						√				
			9	61	资源与环境学院	√									
			10	54	资源与环境学院	√									
			11	46	资源与环境学院	√									
			12	27	资源与环境学院	√									
			13	12	材料科学与工程学院	√									
			14	12	资源与环境学院	√									
			15	11	非济南大学文章										
			16	8	外国语学院					√					
			17	4	物理科学与技术学院	√									
			18	3	信息科学与工程学院				√						
未进入前1%学科	Physics 物理学	8	1	65	物理科学与技术学院				√						
			2	52	化学化工学院							√			
			3	47	物理科学与技术学院	√									
			4	43	物理科学与技术学院	√									
			5	29	物理科学与技术学院	√									
			6	25	物理科学与技术学院	√									
			7	24	物理科学与技术学院	√									
			8	4	材料科学与工程学院					√					
	Biology & Biochemistry 生物与生物化学	4	1	155	医学与生命科学学院						√				
			2	120	化学化工学院	√									
			3	98	化学化工学院	√									
			4	70	医学与生命科学学院					√					
	Mathematics	2	1	55	数学科学学院	√									
			2	45	数学科学学院					√					

数学															
Economics & Business (经济与商业)	1	1	3	商学院				√							
Agriculture Sciences (农业科学)	2	1	64	非济南大学文章											
		2	21	资源与环境学院	√										
Environment/Ecology (环境与生态学)	1	1	104	化学化工学院	√										

7.2 济南大学前 1%学科现状分析

7.2.1 化学学科现状分析

化学学科 2017 年 9 月国内高校 ESI 排名如表-8 所示。可以看出排在前 10 位的高校分别是中国科学院大学、浙江大学、清华大学、南京大学、北京大学、中国科学技术大学、复旦大学、吉林大学、南开大学和华东理工大学。在表-8 中，排名第 1 位的中国科学院大学至排名第 120 位的曲阜师范大学，其化学学科都进入了 ESI 的前 1%行列。我校的化学学科按照 ESI 总被引频次在国内高校排名第 56 位，省内高校第 4 位。

表-8 化学学科国内高校排名

排名	机构名称	Web of Science 论文数	学科规范化的引文影响力	被引频次	论文被引百分比	国际合作论文
1	University of Chinese Academy of Sciences	17863	1.34	301050	84.81	2561
2	Zhejiang University	12704	1.18	204831	86.33	2093
3	Tsinghua University	10275	1.46	196334	85.72	1956
4	Nanjing University	9507	1.39	172526	87.83	1645
5	Peking University	8618	1.45	169291	87.4	1986
6	University of Science & Technology of China	8661	1.53	166608	85.49	1728
7	Fudan University	7316	1.43	151430	87.99	1450
8	Jilin University	11587	1.04	149873	82.77	1793
9	Nankai University	7695	1.46	149512	87.51	1109
10	East China University of Science & Technology	8512	1.23	132989	85.36	1655
11	Dalian University of Technology	6132	1.3	106171	84.92	1415
12	Sichuan University	9515	0.93	105910	81.99	1082
13	Xiamen University	5717	1.42	103395	86.08	1304
14	Wuhan University	5127	1.45	96155	86.99	773
15	Sun Yat Sen University	5126	1.44	94191	86.99	846
16	South China University of Technology	6524	1.3	93454	83.66	1165
17	Shandong University	7481	1.01	93078	83.42	1218
18	Lanzhou University	5217	1.36	87043	88.02	556
19	Shanghai Jiao Tong University	5972	1.13	85914	85.01	1256
20	Tianjin University	7171	1.05	82746	80.46	1283
21	Suzhou University	5553	1.35	82675	85.76	1101
22	Beijing University of Chemical Technology	6346	1	77088	84.04	1084
23	Hunan University	4187	1.53	71765	86.51	610
24	Fuzhou University	3344	1.59	62629	84.39	402
25	Northeast Normal University - China	3709	1.16	61779	86.03	370
26	East China Normal University	3425	1.38	56916	87.18	659
27	Harbin Institute of Technology	4684	1.07	54212	79.93	1046
28	Huazhong University of Science & Technology	3822	1.29	51705	82.78	867
29	Wuhan University of Technology	1860	2.06	45255	81.51	600
30	Beijing Institute of Technology	4052	0.95	45221	79.71	825

31	Southeast University - China	4053	0.99	44454	77.5	579
32	Central China Normal University	2189	1.42	42499	84.7	308
33	Nanjing University of Technology	4055	0.96	40533	77.76	652
34	Xi'an Jiaotong University	3504	1.06	40139	79	802
35	Tongji University	2943	1.15	38237	83.59	534
36	Shanghai University	2875	1.18	37372	80.38	503
37	Central South University	3814	0.99	36126	82.09	604
38	Zhengzhou University	3635	0.89	35890	80.66	394
39	Southwest University - China	2771	1.11	33676	83.58	268
40	Donghua University	2509	1.07	33430	82.62	545
41	Beijing Normal University	2625	0.99	31049	83.81	625
42	Northwest University Xi'an	2898	0.94	30997	83.16	379
43	University of Science & Technology Beijing	2598	1.1	30047	80.56	577
44	Nanjing University of Science & Technology	2845	0.96	29757	79.79	340
45	Qingdao University of Science & Technology	2616	0.89	29083	79.89	190
46	Zhejiang University of Technology	3202	0.78	27751	77.64	371
47	China University of Petroleum	3129	0.87	27699	75.52	618
48	Jiangsu University	2589	1.21	26061	79.26	352
49	Beihang University	1974	1.21	24809	78.72	368
50	Jiangnan University	2811	0.87	24458	78.73	509
51	China Pharmaceutical University	2665	0.78	22984	82.03	327
52	Anhui Normal University	1316	1.29	22581	87.61	91
53	University Town of Shenzhen	1668	1.42	22136	81.71	316
54	South China Normal University	2091	0.88	22123	83.64	454
55	Chongqing University	2450	1.06	21410	74.78	454
56	University of Jinan	2012	1.15	21373	80.22	188
57	Xiangtan University	1813	1.01	20282	81.85	220
58	Shaanxi Normal University	2185	0.89	20104	80.41	310
59	Harbin Engineering University	1038	1.43	19653	83.62	170
60	Yangzhou University	1664	1.1	19116	81.37	239
61	China Agricultural University	2189	0.68	19042	76.06	399
62	Henan Normal University	1739	0.89	18787	81.94	198
63	Zhejiang Normal University	1480	1.11	18189	81.62	202
64	Nanjing Normal University	1190	1.24	17724	83.19	149
65	Henan University	1861	0.81	17602	82	179
66	Nanjing University of Posts & Telecommunications	905	1.53	17446	80.33	155
67	Nanchang University	1758	0.94	17033	80.77	287
68	Shanghai Normal University	887	1.37	16427	85.46	123
69	Wenzhou University	1153	1.09	16309	83.26	147

70	Northeastern University – China	1581	0.81	15800	76.41	335
71	Hunan Normal University	1078	1.12	15505	85.71	112
72	Hefei University of Technology	1490	0.98	15274	77.65	228
73	Heilongjiang University	1355	1.07	15012	78.23	182
74	Jinan University	1652	0.86	14976	79.78	207
75	Jiangxi Normal University	1232	1.17	14912	81.49	112
76	Shanxi University	1518	1	14885	78	661
77	Zhejiang Sci-Tech University	1201	1.2	14874	82.93	262
78	Beijing University of Technology	1290	1.06	14770	78.76	231
79	China University of Geosciences	1505	1.09	14725	77.28	372
80	Northwestern Polytechnical University	1673	0.96	14701	79.38	307
81	Ocean University of China	1652	0.82	14597	80.81	218
82	Nanjing University of Aeronautics & Astronautics	1019	1.23	14481	80.96	204
83	Northwest Normal University – China	1565	0.83	13299	81.02	93
84	Hangzhou Normal University	1094	1.02	12989	83.82	167
85	Hubei University	1056	1.04	12460	83.62	218
86	Changzhou University	1468	1.02	12391	76.09	175
87	Anhui University	1265	0.95	12369	76.52	133
88	Guangxi Normal University	1173	0.85	12331	80.31	109
89	Shandong Normal University	1153	0.98	12326	79.62	120
90	Jiangsu Normal University	1197	0.93	11758	76.44	128
91	Hebei University	1563	0.6	11580	75.56	460
92	Liaocheng University	1564	0.59	11517	78.32	101
93	Tianjin Normal University	915	0.95	11449	79.13	59
94	Shenyang Pharmaceutical University	1605	0.6	11429	81.31	248
95	Huaqiao University	773	1.18	10880	82.92	73
96	Qingdao University	981	1.1	10601	77.98	264
97	Huazhong Agricultural University	901	0.98	10437	81.24	129
98	South Central University for Nationalities	796	1.17	10289	81.16	103
99	Renmin University of China	682	1.32	10171	86.07	133
100	Yunnan University	1006	0.79	9721	78.93	100
101	Tianjin Polytechnic University	1264	0.76	9342	76.34	159
102	Taiyuan University of Technology	1518	0.73	9315	73.85	611
103	Capital Normal University	1083	0.92	9255	76.55	94
104	Liaoning Normal University	1104	0.58	8973	80.43	72
105	Northwest A&F University – China	1108	0.77	8658	77.8	245
106	Second Military Medical University	951	0.67	8391	84.12	108

107	Hebei Normal University	810	0.77	8213	81.48	274
108	University of Electronic Science & Technology of China	1119	0.82	8200	74.44	275
109	Luoyang Normal University	1115	0.57	8179	63.86	61
110	China University of Mining & Technology	1322	0.7	8115	72.47	296
111	Northeast Forestry University - China	843	0.86	8073	81.02	145
112	Fujian Normal University	971	0.84	7996	76	99
113	Ningbo University	1189	0.77	7989	75.95	131
114	Guizhou University	1048	0.77	7898	73.85	222
115	Liaoning University	905	0.72	7754	80.55	100
116	Wenzhou Medical University	535	1.15	7676	78.69	91
117	Xinjiang University	968	0.67	7482	75.52	96
118	Huaibei Normal University	485	1.42	7423	81.03	26
119	Hebei University of Technology	1025	0.68	7388	75.02	209
120	Qufu Normal University	884	1.28	7250	76.13	87

我校化学学科共有 9 篇高被引论文，如图-8 所示：

1	SYNTHESIS OF FUNCTIONALIZED 3D HIERARCHICAL POROUS CARBON FOR HIGH-PERFORMANCE SUPERCAPACITORS	Times Cited: 288
	By: QIE, L; CHEN, WM; XU, HH; et.al Source: ENERGY ENVIRON SCI 6 (8): 2497-2504 AUG 2013 Research Fields: CHEMISTRY	
2	HIGH-PERFORMANCE BI-FUNCTIONAL ELECTROCATALYSTS OF 3D CRUMPLED GRAPHENE-COBALT OXIDE NANOHYBRIDS FOR OXYGEN REDUCTION AND EVOLUTION REACTIONS	Times Cited: 218
	By: MAO, S; WEN, ZH; HUANG, TZ; et.al Source: ENERGY ENVIRON SCI 7 (2): 609-616 FEB 2014 Research Fields: CHEMISTRY	
3	GENERALIZED FABRICATION OF NANOPOROUS METALS (AU, PD, PT, AG, AND CU) THROUGH CHEMICAL DEALLOYING	Times Cited: 185
	By: ZHANG, ZH; WANG, Y; QI, Z; et.al Source: J PHYS CHEM C 113 (29): 12629-12636 JUL 23 2009 Research Fields: CHEMISTRY	
4	PAPER-BASED CHEMILUMINESCENCE ELISA: LAB-ON-PAPER BASED ON CHITOSAN MODIFIED PAPER DEVICE AND WAX-SCREEN-PRINTING	Times Cited: 140 Research Front
	By: WANG, SM; GE, L; SONG, XR; et.al Source: BIOSENS BIOELECTRON 31 (1): 212-218 JAN 15 2012 Research Fields: CHEMISTRY	

5	DEVELOPMENT OF FLUORESCENT PROBES BASED ON PROTECTION-DEPROTECTION OF THE KEY FUNCTIONAL GROUPS FOR BIOLOGICAL IMAGING	Times Cited: 74
By: TANG, YH; LEE, DY; WANG, JL; et.al Source: CHEM SOC REV 44 (15): 5003-5015 2015 Research Fields: CHEMISTRY		
6	DEVELOPMENT OF A TWO-PHOTON FLUORESCENT PROBE FOR IMAGING OF ENDOGENOUS FORMALDEHYDE IN LIVING TISSUES	Times Cited: 36
By: TANG, YH; KONG, XQ; XU, A; et.al Source: ANGEW CHEM INT ED 55 (10): 3356-3359 MAR 1 2016 Research Fields: CHEMISTRY		
7	SINGLE NEAR-INFRARED FLUORESCENT PROBE WITH HIGH- AND LOW-SENSITIVITY SITES FOR SENSING DIFFERENT CONCENTRATION RANGES OF BIOLOGICAL THIOLS WITH DISTINCT MODES OF FLUORESCENCE SIGNALS	Times Cited: 26  Research Front
By: CHEN, H; TANG, YH; REN, MG; et.al Source: CHEM SCI 7 (3): 1896-1903 2016 Research Fields: CHEMISTRY		
8	DUAL SITE-CONTROLLED AND LYSOSOME-TARGETED INTRAMOLECULAR CHARGE TRANSFER-PHOTOINDUCED ELECTRON TRANSFER-FLUORESCENCE RESONANCE ENERGY TRANSFER FLUORESCENT PROBE FOR MONITORING PH CHANGES IN LIVING CELLS	Times Cited: 23
By: DONG, BL; SONG, XZ; WANG, C; et.al Source: ANAL CHEM 88 (7): 4085-4091 APR 5 2016 Research Fields: CHEMISTRY		
9	AN EFFICIENT METAL- AND SOLVENT-FREE ORGANOCATALYTIC SYSTEM FOR CHEMICAL FIXATION OF CO₂ INTO CYCLIC CARBONATES UNDER MILD CONDITIONS	Times Cited: 21
By: WANG, L; ZHANG, GY; KODAMAA, K; et.al Source: GREEN CHEM 18 (5): 1229-1233 2016 Research Fields: CHEMISTRY		

图-8 济南大学化学学科高被引论文

详细记录：

1.被引频次 288 次（济南大学是第 2 作者单位，化学化工学院）

Synthesis of functionalized 3D hierarchical porous carbon for high-performance supercapacitors

作者: Qie, L (Qie, Long)[1]; Chen, WM (Chen, Weimin)[1]; Xu, HH (Xu, Henghui)[1]; Xiong, XQ (Xiong, Xiaoqin)[1]; Jiang, Y (Jiang, Yan)[1]; Zou, F (Zou, Feng)[1]; Hu, XL (Hu, Xianluo)[1]; Xin, Y (Xin, Ying)[2]; Zhang, ZL (Zhang, Zhaoliang)[2]; Huang, YH (Huang, Yunhui)[1]

ENERGY & ENVIRONMENTAL SCIENCE

卷: 6 期: 8 页: 2497-2504

DOI: 10.1039/c3ee41638k

出版年: AUG 2013

作者信息

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Huazhong Univ Sci & Technol, Sch Mat Sci & Engr, Minist Educ, Key Lab Adv Battery Mat & Syst, Wuhan 430074, Hubei, Peoples R China.

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Mat & Syst, Wuhan 430074, Hubei, Peoples R China

[2] Univ Jinan, Sch Chem & Chem Engr, Shandong Prov Key Lab Fluorine Chem & Chem Mat, Jinan 250022, Shandong, Peoples R China

电子邮件地址:huxl@mail.hust.edu.cn; huangyh@mail.hust.edu.cn

研究方向:Chemistry; Energy & Fuels; Engineering; Environmental Sciences & Ecology

Web of Science 类别:Chemistry, Multidisciplinary; Energy & Fuels; Engineering, Chemical; Environmental Sciences

文献信息

文献类型:Article

语种:English

入藏号: WOS:000321983800023

ISSN: 1754-5692

eISSN: 1754-5706

2.被引频次 218 (济南大学是第 2 作者单位, 化学化工学院)

High-performance bi-functional electrocatalysts of 3D crumpled graphene-cobalt oxide nanohybrids for oxygen reduction and evolution reactions

作者:Mao, S (Mao, Shun)[1] ; Wen, ZH (Wen, Zhenhai)[1] ; Huang, TZ (Huang, Taizhong)[1,2] ; Hou, Y (Hou, Yang)[1] ; Chen, JH (Chen, Junhong)[1]

查看 ResearcherID 和 ORCID

ENERGY & ENVIRONMENTAL SCIENCE

卷: 7 期: 2 页: 609-616

DOI: 10.1039/c3ee42696c

出版年: FEB 2014

作者信息

通讯作者地址: Mao, S (通讯作者)

Univ Wisconsin, Dept Mech Engr, 3200 N Cramer St, Milwaukee, WI 53211 USA.

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[1] Univ Wisconsin, Dept Mech Engr, Milwaukee, WI 53211 USA

[2] Univ Jinan, Key Lab Chem Sensing & Anal Univ Shandong, Sch Chem & Chem Engr, Jinan 250022, Peoples R China

电子邮件地址:jhchen@uwm.edu

类别 / 分类

研究方向:Chemistry; Energy & Fuels; Engineering; Environmental Sciences & Ecology

Web of Science 类别:Chemistry, Multidisciplinary; Energy & Fuels; Engineering, Chemical; Environmental Sciences

文献信息

文献类型:Article

语种:English

入藏号: WOS:000331413700008

ISSN: 1754-5692

eISSN: 1754-5706

3.被引频次 185 次（济南大学是第 2 作者单位，材料科学与工程学院）

Generalized Fabrication of Nanoporous Metals (Au, Pd, Pt, Ag, and Cu) through Chemical Dealloying

作者:Zhang, ZH (Zhang, Zhonghua)[1] ; Wang, Y (Wang, Yan)[2] ; Qi, Z (Qi, Zhen)[1] ; Zhang, WH (Zhang, Wenhua)[3] ; Qin, JY (Qin, Jingyu)[1] ; Frenzel, J (Frenzel, Jan)[4]

JOURNAL OF PHYSICAL CHEMISTRY C

卷: 113

期: 29

页: 12629-12636

DOI: 10.1021/jp811445a

出版年: JUL 23 2009

作者信息

通讯作者地址: Zhang, ZH (通讯作者)

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[1] Shandong Univ, Key Lab Liquid Solid Struct Evolut & Proc Mat, Sch Mat Sci & Engr, Minist Educ, Jinan 250061, Peoples R China

[2] Univ Jinan, Sch Mat Sci & Engr, Jinan 250022, Peoples R China

[3] Chinese Acad Sci, Dalian Inst Chem Phys, Dalian Natl Lab Clean Energy, Dalian 116023, Peoples R China

[4] Ruhr Univ Bochum, Inst Werkstoffe, D-44780 Bochum, Germany

电子邮件地址:zh_zhang@sdu.edu.cn

文献类型:Article

语种:English

入藏号: WOS:000268139800004

ISSN: 1932-7447

4.被引频次 140 次（济南大学是第 1 作者和通讯作者单位，化学化工学院）

Paper-based chemiluminescence ELISA: Lab-on-paper based on chitosan modified paper device and wax-screen-printing

作者:Wang, SM (Wang, Shoumei)[1,3] ; Ge, L (Ge, Lei)[1,3] ; Song, XR (Song, Xianrang)[2,3] ; Yu, JH (Yu, Jinghua)[1,3] ; Ge, SG (Ge, Shengguang)[1,3] ; Huang, JD (Huang, Jiadong)[1,3] ; Zeng, F (Zeng, Fang)[1,3]

查看 ResearcherID 和 ORCID

BIOSENSORS & BIOELECTRONICS

卷: 31 期: 1 页: 212-218

DOI: 10.1016/j.bios.2011.10.019

出版年: JAN 15 2012

作者信息

通讯作者地址: Yu, JH (通讯作者)

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[2] Shandong Tumor Hosp, Canc Res Ctr, Jinan 250117, Peoples R China

[3] Univ Jinan, Shandong Prov Key Lab Fluorine Chem & Chem Mat, Jinan 250022, Peoples R China

电子邮件地址:ujn.yujh@gmail.com

研究方向:Biophysics; Biotechnology & Applied Microbiology; Chemistry; Electrochemistry; Science & Technology - Other Topics

Web of Science 类别:Biophysics; Biotechnology & Applied Microbiology; Chemistry, Analytical; Electrochemistry; Nanoscience & Nanotechnology

文献信息

文献类型:Article

语种:English

入藏号: WOS:000300468400033

PubMed ID: 22051546

ISSN: 0956-5663

5.被引频次 74 (济南大学是第 1 作者和通讯作者单位, 光功能材料与成像研究院)

Development of fluorescent probes based on protection-deprotection of the key functional groups for biological imaging

作者:Tang, YH (Tang, Yonghe)[1] ; Lee, DY (Lee, Dayoung)[2] ; Wang, JL (Wang, Jiaoliang)[3] ; Li, GH (Li, Guanhan)[1] ; Yu, JH (Yu, Jinghua)[1] ; Lin, WY (Lin, Weiying)[1,3] ; Yoon, JY (Yoon, Juyoung)[2]

CHEMICAL SOCIETY REVIEWS

卷: 44 期: 15 页: 5003-5015

DOI: 10.1039/c5cs00103j

出版年: 2015

作者信息

通讯作者地址: Lin, WY (通讯作者)

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[2] Ewha Womans Univ, Dept Chem & Nano Sci, Seoul 120750, South Korea

[3] Hunan Univ, Coll Chem & Chem Engrn, State Key Lab Chemobiosensing & Chemometr, Changsha 410082, Hunan, Peoples R China

研究方向:Chemistry

Web of Science 类别:Chemistry, Multidisciplinary

文献信息

文献类型:Review

语种:English

入藏号: WOS:000358219300002

PubMed ID: 25971860

ISSN: 0306-0012

eISSN: 1460-4744

6.被引频次 36 (济南大学是第 1 作者和通讯作者单位, 光功能材料与成像研究院)

Development of a Two-Photon Fluorescent Probe for Imaging of Endogenous Formaldehyde in Living Tissues

作者:Tang, YH (Tang, Yonghe)[1] ; Kong, XQ (Kong, Xiuqi)[1] ; Xu, A (Xu, An)[1] ; Dong, BL (Dong, Baoli)[1] ; Lin, WY (Lin, Weiying)[1]

ANGEWANDTE CHEMIE-INTERNATIONAL EDITION

卷: 55 期: 10 页: 3356-3359

DOI: 10.1002/anie.201510373

出版年: MAR 1 2016

作者信息

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[1] Univ Jinan, Sch Biol Sci, Sch Chem & Chem Engr, Inst Fluorescent Probes Biol Imaging, Jinan 250022, Shandong, Peoples R China

电子邮件地址:weiyinglin2013@163.com

文献信息

文献类型:Article

语种:English

入藏号: WOS:000371418200022

ISSN: 1433-7851

eISSN: 1521-3773

7.被引频次 26 (济南大学是第 1 作者和通讯作者单位, 光功能材料与成像研究院)

Single near-infrared fluorescent probe with high- and low-sensitivity sites for sensing different concentration ranges of biological thiols with distinct modes of fluorescence signals

作者:Chen, H (Chen, Hua)[2] ; Tang, YH (Tang, Yonghe)[1] ; Ren, MG (Ren, Mingguang)[1] ; Lin, WY (Lin, Weiying)[1,2]

CHEMICAL SCIENCE

卷: 7 期: 3 页: 1896-1903

DOI: 10.1039/c5sc03591k

出版年: 2016

作者信息

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通讯作者地址: Lin, WY (通讯作者)

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地址:

[1] Univ Jinan, Sch Biol Sci & Technol, Sch Chem & Chem Engr, Inst Fluorescent Probes Biol Imaging, Jinan 250022, Shandong, Peoples R China

[2] Hunan Univ, Coll Chem & Chem Engr, State Key Lab Chemo Biosensing &

Chemometr, Changsha 410082, Hunan, Peoples R China

电子邮件地址:Weiyinglin2013@163.com

文献信息

文献类型:Article

语种:English

入藏号: WOS:000371021900031

ISSN: 2041-6520

eISSN: 2041-6539

8.被引频次 23 (济南大学是第 1 作者和通讯作者单位, 光功能材料与成像研究院)

Dual Site-Controlled and Lysosome-Targeted Intramolecular Charge Transfer-Photoinduced Electron Transfer-Fluorescence Resonance Energy Transfer Fluorescent Probe for Monitoring pH Changes in Living Cells

作者:Dong, BL (Dong, Baoli)[1] ; Song, XZ (Song, Xuezhen)[1] ; Wang, C (Wang, Chao)[1] ; Kong, XQ (Kong, Xiuqi)[1] ; Tang, YH (Tang, Yonghe)[1] ; Lin, WY (Lin, Weiying)[1]

ANALYTICAL CHEMISTRY

卷: 88 期: 7 页: 4085-4091

DOI: 10.1021/acs.analchem.6b00422

出版年: APR 5 2016

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[1] **Univ Jinan**, Sch Biol Sci, Sch Chem & Chem Engn, Inst Fluorescent Probes Biol Imaging, Jinan 250022, Shandong, Peoples R China

电子邮件地址:weiyinglin2013@163.com

研究方向:Chemistry

Web of Science 类别:Chemistry, Analytical

文献信息

文献类型:Article

语种:English

9.被引频次 21 (济南大学是第 2 作者单位, 化学化工学院)

An efficient metal- and solvent-free organocatalytic system for chemical fixation of CO₂ into cyclic carbonates under mild conditions

作者:Wang, L (Wang, Lin)[1] ; Zhang, GY (Zhang, Guangyou)[2] ; Kodamaa, K (Kodamaa, Koichi)[1] ; Hirose, T (Hirose, Takuji)[1]

GREEN CHEMISTRY

卷: 18 期: 5 页: 1229-1233

DOI: 10.1039/c5gc02697k

出版年: 2016

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通讯作者地址: Hirose, T (通讯作者)
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电子邮件地址:hirose@apc.saitama-u.ac.jp

文献信息

文献类型:Article

语种:English

入藏号:WOS:000371608100008

ISSN: 1463-9262

eISSN: 1463-9270

入藏号: WOS:000373656300088

PubMed ID: 26987045

ISSN: 0003-2700

eISSN: 1520-6882

7.2.2 临床医学学科现状分析

临床医学 2017 年 9 月国内高校 ESI 排名如表-9 所示。可以看出排在前 10 位的高校分别是上海交通大学、中山大学、复旦大学、北京大学、浙江大学、首都医科大学、四川大学、南京医科大学、华中科技大学和第二军医大学。在表-9 中,排名第 1 位的上海交通大学至排名第 80 位的锦州医科大学,其临床医学学科都进入了 ESI 的前 1%行列。我校的临床医学学科按照 ESI 总被引频次在国内高校排名第 40 位,省内高校第 3 位。

表-9 ESI 临床医学国内高校排名

排名	名称	Web of Science 论文数	学科规范化的引文影响力	被引频次	论文被引百分比	国际合作论文
1	Shanghai Jiao Tong University	15060	1.15	165521	78.05	3466
2	Sun Yat Sen University	11361	1.13	121405	79.71	2504
3	Fudan University	11154	1.17	117818	78.28	2666

4	Peking University	9765	1.13	109286	78.77	2921
5	Zhejiang University	8546	0.92	73304	75.51	1562
6	Capital Medical University	9119	0.88	71599	72.6	2257
7	Sichuan University	8228	0.84	63372	76.02	1503
8	Nanjing Medical University	6729	1.07	60537	77.16	1210
9	Huazhong University of Science & Technology	7089	0.85	57376	77.51	1653
10	Second Military Medical University	5108	1.1	57302	81.01	886
11	Shandong University	6868	0.86	52471	74.83	1309
12	Fourth Military Medical University	4497	1.05	49079	82.88	966
13	Central South University	5631	1.07	48648	74.21	1190
14	China Medical University	5009	0.84	38508	77.52	932
15	Nanjing University	3641	1.19	37539	77.95	706
16	Southern Medical University - China	4276	1.04	35161	74.11	772
17	Harbin Medical University	3765	1.03	34810	78.38	850
18	Third Military Medical University	3708	0.97	34196	78.83	687
19	Wuhan University	4053	0.99	31992	76.46	796
20	Tongji University	3775	1.07	31495	75.63	845
21	Tianjin Medical University	3609	1.02	31458	74.84	874
22	Suzhou University	3566	0.96	28397	74.31	690
23	Chongqing Medical University	3278	1.09	27516	74.77	649
24	Xi'an Jiaotong University	3633	0.88	26938	72.58	773
25	Zhengzhou University	3519	0.85	21299	68.4	694
26	Wenzhou Medical University	3213	0.8	20837	69.31	820
27	Jilin University	3327	0.81	20373	68.17	824
28	Anhui Medical University	2478	0.96	18701	74.33	480
29	Guangzhou Medical University	2418	1	17657	73.24	432
30	Southeast University - China	1664	1.11	14933	76.5	377
31	Guangxi Medical University	1930	0.91	14477	73.99	283
32	Fujian Medical University	2061	0.75	12442	70.5	315
33	Tsinghua University	1226	0.97	11576	74.55	371
34	Hebei Medical University	1834	0.76	11391	69.19	262
35	Xiamen University	1443	0.97	11382	74.01	380
36	Dalian Medical University	1495	0.86	11251	71.1	317
37	Jinan University	1444	0.85	10739	74.17	266
38	Qingdao University	1863	0.71	10350	67.47	235
39	Shantou University	956	1.11	10112	77.93	206
40	University of Jinan	1215	0.83	9119	74.65	137
41	Nantong University	1458	0.83	9051	72.84	166

42	Nanjing University of Chinese Medicine	952	1.24	9013	68.38	201
43	Jiangsu University	974	0.91	7081	74.85	98
44	Lanzhou University	918	0.81	7034	72	203
45	Nanchang University	1212	0.85	6960	66.17	189
46	Nankai University	642	1.1	6688	82.09	189
47	Shanghai University of Traditional Chinese Medicine	1063	0.8	6419	70.93	269
48	Guangdong Medical University	813	0.94	5872	75.4	145
49	University of Chinese Academy of Sciences	516	1.44	5670	81.59	148
50	Kunming Medical University	943	0.82	5417	66.81	227
51	University of Science & Technology of China	379	1.38	5375	80.74	155
52	Shanxi Medical University	703	0.86	5043	72.26	188
53	Xinjiang Medical University	960	0.77	4938	63.75	155
54	Xuzhou Medical College	893	0.8	4711	69.54	107
55	China Pharmaceutical University	474	1.07	4603	76.16	127
56	University Town of Shenzhen	500	1.09	4308	76	195
57	University of South China	498	1.06	4252	75.9	101
58	Ningbo University	441	1.22	4128	73.7	88
59	Beijing University of Chinese Medicine	894	0.53	3989	66.44	247
60	East China Normal University	328	1.15	3981	80.49	155
61	Guangzhou University of Chinese Medicine	858	0.61	3854	67.02	189
62	Ningxia Medical University	481	0.91	3398	72.97	89
63	Yangzhou University	495	0.94	3120	72.32	88
64	Southwest Medical University	458	0.89	3111	65.94	91
65	Yanbian University	350	0.87	2992	78	233
66	Shenzhen University	459	1.07	2960	67.32	124
67	Beijing Normal University	261	0.77	2414	74.33	104
68	Hunan Normal University	303	0.78	2388	76.9	120
69	Zhejiang Chinese Medical University	530	0.71	2382	62.64	91
70	Shanghai University	216	1.08	2362	81.02	63
71	Xinxiang Medical University	484	0.85	2317	70.04	59
72	Shenyang Pharmaceutical University	185	1.28	2288	78.38	48
73	Harbin Institute of Technology	261	1.05	2241	78.93	107
74	Inner Mongolia Medical University	412	0.85	2228	64.08	74

75	North China University of Science & Technology	338	0.71	2123	69.53	63
76	Binzhou Medical University	524	0.67	2121	61.64	67
77	Bengbu Medical College	359	0.88	2106	66.3	44
78	Hangzhou Normal University	286	0.82	2073	72.03	99
79	Guangdong Pharmaceutical University	259	1.03	2029	77.61	43
80	Jinzhou Medical University	412	0.68	1988	68.45	33

我校临床医学共有 6 篇高被引论文，如图-9 所示：

1	GENOMEWIDE ASSOCIATION STUDY OF LEPROSY	Times Cited: 321
	By: ZHANG, FR; HUANG, W; CHEN, SM; et.al Source: N ENGL J MED 361 (27): 2609-2618 DEC 31 2009 Research Fields: CLINICAL MEDICINE	
2	PREVALENCE, AWARENESS, TREATMENT, AND CONTROL OF HYPERTENSION IN RURAL AND URBAN COMMUNITIES IN HIGH-, MIDDLE-, AND LOW-INCOME COUNTRIES	Times Cited: 217 Research Front
	By: CHOW, CK; TEO, KK; RANGARAJAN, S; et.al Source: JAMA-J AM MED ASSN 310 (9): 959-968 SEP 4 2013 Research Fields: CLINICAL MEDICINE	
3	CARDIOVASCULAR RISK AND EVENTS IN 17 LOW-, MIDDLE-, AND HIGH-INCOME COUNTRIES	Times Cited: 114
	By: YUSUF, S; RANGARAJAN, S; TEO, K; et.al Source: N ENGL J MED 371 (9): 818-827 AUG 28 2014 Research Fields: CLINICAL MEDICINE	
4	THE ASSOCIATION OF HMGB1 EXPRESSION WITH CLINICOPATHOLOGICAL SIGNIFICANCE AND PROGNOSIS IN HEPATOCELLULAR CARCINOMA: A META-ANALYSIS AND LITERATURE REVIEW	Times Cited: 59 Research Front
	By: ZHANG, L; HAN, JJ; WU, HY; et.al Source: PLOS ONE 9 (10): - OCT 30 2014 Research Fields: CLINICAL MEDICINE	
5	PREDICTIVE BIOMARKERS IN PD-1/PD-L1 CHECKPOINT BLOCKADE IMMUNOTHERAPY	Times Cited: 46
	By: MENG, XJ; HUANG, ZQ; TENG, FF; et.al Source: CANCER TREATMENT REV 41 (10): 868-876 DEC 2015 Research Fields: CLINICAL MEDICINE	
6	A FUNCTIONAL LNCRNA HOTAIR GENETIC VARIANT CONTRIBUTES TO GASTRIC CANCER SUSCEPTIBILITY	Times Cited: 29
	By: PAN, WT; LIU, LS; WEI, JY; et.al Source: MOL CARCINOGEN 55 (1): 90-96 JAN 2016 Research Fields: CLINICAL MEDICINE	

图-9 济南大学临床医学学科高被引论文

详细记录：

- 1.被引频次 321(济南大学-医学与生命科学学院是第 1 单位和通讯作者单位)Genomewide Association Study of Leprosy
作者:Zhang, FR (Zhang, Fu-Ren)[1] ; Huang, W (Huang, Wei); Chen, SM (Chen, Shu-Min); Sun,

LD (Sun, Liang-Dan); Liu, H (Liu, Hong); Li, Y (Li, Yi); Cui, Y (Cui, Yong); Yan, XX (Yan, Xiao-Xiao); Yang, HT (Yang, Hai-Tao); Yang, RD (Yang, Rong-De)

NEW ENGLAND JOURNAL OF MEDICINE

卷: 361

期: 27

页: 2609-2618

DOI: 10.1056/NEJMoa0903753

出版年: DEC 31 2009

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学科类别: General & Internal Medicine

Web of Science 类别: Medicine, General & Internal

文献信息

文献类型: Article

语种: English

入藏号: WOS:000273181300008

PubMed ID: 20018961

ISSN: 0028-4793

2. 被引频次 217 (济南大学-医学与生命科学学院是第 13 单位)

Prevalence, Awareness, Treatment, and Control of Hypertension in Rural and Urban Communities in High-, Middle-, and Low-Income Countries

作者: Chow, CK (Chow, Clara K.) [1,24,25] ; Teo, KK (Teo, Koon K.) [1] ; Rangarajan, S (Rangarajan, Sumathy) [1] ; Islam, S (Islam, Shofiquil) [1] ; Gupta, R (Gupta, Rajeev) [2] ; Avezum, A (Avezum, Alvaro) [3] ; Bahonar, A (Bahonar, Ahmad) [4] ; Chifamba, J (Chifamba, Jephata) [5] ; Dagenais, G (Dagenais, Gilles) [6] ; Diaz, R (Diaz, Rafael) [7]

JAMA-JOURNAL OF THE AMERICAN MEDICAL ASSOCIATION

卷: 310 期: 9 页: 959-968

DOI: 10.1001/jama.2013.184182

出版年: SEP 4 2013

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-
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研究方向: General & Internal Medicine

Web of Science 类别: Medicine, General & Internal

文献信息

文献类型: Article

语种: English

入藏号: WOS:000323885700026

PubMed ID: 24002282

ISSN: 0098-7484

3. 被引频次 114 (济南大学-医学与生命科学学院是第 9 单位)

Cardiovascular Risk and Events in 17 Low-, Middle-, and High-Income Countries

作者: Yusuf, S (Yusuf, S.)[1,2] ; Rangarajan, S (Rangarajan, S.)[1,2] ; Teo, K (Teo, K.)[1,2] ; Islam, S (Islam, S.)[1,2] ; Li, W (Li, W.)[6,7] ; Liu, L (Liu, L.)[6,7] ; Bo, J (Bo, J.)[6,7] ; Lou, Q (Lou, Q.)[8] ; Lu, F (Lu, F.)[9] ; Liu, T (Liu, T.)[10]

团体作者: PURE Investigators

NEW ENGLAND JOURNAL OF MEDICINE

卷: 371 期: 9 页: 818-827

DOI: 10.1056/NEJMoA1311890

出版年: AUG 28 2014

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Web of Science 类别:Medicine, General & Internal

文献信息

文献类型:Article

语种:English

入藏号: WOS:000340819800008

PubMed ID: 25162888

ISSN: 0028-4793

eISSN: 1533-4406

4.被引频次 59 (济南大学-医学与生命科学学院是第 1 单位和通讯作者单位)

The Association of HMGB1 Expression with Clinicopathological Significance and Prognosis in Hepatocellular Carcinoma: A Meta-Analysis and Literature Review

作者:Zhang, L (Zhang, Lu)[1] ; Han, JJ (Han, Jianjun)[2] ; Wu, HY (Wu, Huiyong)[2] ; Liang, XH (Liang, Xiaohong)[3] ; Zhang, JX (Zhang, Jianxin)[2] ; Li, J (Li, Jian)[2] ; Xie, L (Xie, Li)[4] ; Xie, YF (Xie, Yinfa)[2] ; Sheng, XG (Sheng, Xiugui)[5] ; Yu, JM (Yu, Jinming)[6]

PLOS ONE 卷:9 期:10

文献号: e110626

DOI: 10.1371/journal.pone.0110626

出版年: OCT 30 2014

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文献信息

文献类型:Review

语种:English

入藏号: WOS:000346765000018

ISSN: 1932-6203

5.被引频次 46 (济南大学-医学与生命科学学院是第 1 单位和通讯作者单位)

Predictive biomarkers in PD-1/PD-L1 checkpoint blockade immunotherapy

作者:Meng, XJ (Meng, Xiangjiao)[1,2] ; Huang, ZQ (Huang, Zhaoqin)[3] ; Teng, FF (Teng, Feifei)[1,2] ; Xing, LG (Xing, Ligang)[1,2] ; Yu, JM (Yu, Jinming)[1,2]

CANCER TREATMENT REVIEWS

卷: 41 期: 10 页: 868-876

DOI: 10.1016/j.ctrv.2015.11.001

出版年: DEC 2015

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文献信息

文献类型: Review

语种: English

入藏号: WOS:000366443100009

PubMed ID: 26589760

ISSN: 0305-7372

eISSN: 1532-1967

6. 被引频次 26 (济南大学-医学与生命科学学院是通讯作者单位和第 2 作者单位)

A Functional LncRNA HOTAIR Genetic Variant Contributes to Gastric Cancer Susceptibility

作者: Pan, WT (Pan, Wenting)[1]; Liu, LS (Liu, Lisheng)[2]; Wei, JY (Wei, Jinyu)[1]; Ge, YX (Ge, Yunxia)[1]; Zhang, JF (Zhang, Jingfeng)[1]; Chen, HW (Chen, Hongwei)[1]; Zhou, LQ (Zhou, Liqing)[3]; Yuan, QP (Yuan, Qipeng)[1]; Zhou, CC (Zhou, Changchun)[2]; Yang, M (Yang, Ming)[1]

MOLECULAR CARCINOGENESIS

卷: 55 期: 1 页: 90-96

DOI: 10.1002/mc.22261

出版年: JAN 2016

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研究方向: Biochemistry & Molecular Biology; Oncology
 Web of Science 类别: Biochemistry & Molecular Biology; Oncology
 文献信息
 文献类型: Article
 语种: English
 入藏号: WOS:000368810100008
 PubMed ID: 25640751
 ISSN: 0899-1987
 eISSN: 1098-2744

7.2.3 材料科学学科现状分析

材料科学 2017 年 09 月国内高校 ESI 排名如表-10 所示。可以看出排在前 10 位的高校分别是中国科学院大学、清华大学、上海交通大学、浙江大学、哈尔滨工业大学、复旦大学、中国科学技术大学、北京大学、吉林大学和中南大学。在表-10 中，排名第 1 位的中国科学院大学至排名第 97 位的扬州大学，其材料科学学科进入了 ESI 的前 1% 行列。我校的材料科学学科按照 ESI 总被引频次在国内高校排名第 69 位，省内高校第 3 位。

表-10 ESI 材料科学国内高校排名

排名	机构名称	Web of Science 论文数	学科规范化的引文影响力	被引频次	论文被引百分比	国际合作论文
1	University of Chinese Academy of Sciences	7485	1.65	134642	83.57	1137
2	Tsinghua University	8179	1.44	129377	80.22	1905
3	Shanghai Jiao Tong University	6443	1.28	89721	83.27	1604
4	Zhejiang University	5548	1.37	84334	82.98	1295
5	Harbin Institute of Technology	8531	0.89	81762	79.24	1726
6	Fudan University	3151	2.34	81412	87.34	813
7	University of Science & Technology of China	3997	1.71	67345	83.71	830
8	Peking University	3430	1.84	65314	84.17	910
9	Jilin University	4680	1.3	63362	83.97	853
10	Central South University	7422	0.79	57963	78.27	1162

11	South China University of Technology	4851	1.32	57187	79.12	976
12	University of Science & Technology Beijing	7425	0.72	53958	73.82	1644
13	Tianjin University	4417	1.19	49604	79.53	944
14	Huazhong University of Science & Technology	4031	1.33	48794	79.96	803
15	Suzhou University	2810	2.03	47949	82.53	793
16	Xi'an Jiaotong University	4784	1.08	46831	78.41	1215
17	Sichuan University	4273	1.1	46479	79.31	655
18	Dalian University of Technology	4312	1	45290	80.45	987
19	Nanjing University	2911	1.56	44556	84.16	581
20	Shandong University	3643	1.14	42170	81.33	697
21	Northwestern Polytechnical University	5933	0.81	42134	76.62	858
22	Wuhan University	2443	1.58	38553	81.83	504
23	Beihang University	3815	1.06	36369	77.35	757
24	Nankai University	1546	2.16	35301	84.8	318
25	Wuhan University of Technology	3415	1.17	34950	73.85	963
26	Sun Yat Sen University	1880	1.78	33606	85.21	398
27	Beijing University of Chemical Technology	2174	1.53	33502	84.45	435
28	East China University of Science & Technology	2034	1.39	30556	84.91	463
29	Southeast University - China	2825	1.12	30248	78.09	640
30	Tongji University	2795	1.13	29562	79.32	741
31	Xiamen University	1842	1.58	28855	81.81	556
32	Chongqing University	3651	0.93	28371	73.21	723
33	Shanghai University	2944	0.96	27656	76.29	713
34	Lanzhou University	1762	1.33	26697	85.64	258
35	Beijing Institute of Technology	2220	1.38	26562	77.57	541
36	Donghua University	2537	1.11	26365	77.41	650
37	Northeastern University - China	4368	0.61	25789	72.18	1191
38	Nanjing University of Aeronautics & Astronautics	2252	1.14	24861	78.2	380
39	Hunan University	2202	1.12	23090	77.25	402
40	Nanjing University of Technology	2242	1.2	22979	77.61	542
41	Harbin Engineering University	1269	1.53	21952	80.38	147
42	Fuzhou University	978	1.76	17967	80.57	163
43	Nanjing University of Science & Technology	1674	1.5	17848	78.49	406
44	Jiangsu University	1805	0.98	15741	74.29	235
45	University Town of Shenzhen	1313	1.53	14523	76.77	351

46	East China Normal University	908	1.47	13683	83.48	183
47	University of Electronic Science & Technology of China	1923	0.99	13328	75.35	522
48	Beijing University of Technology	1724	0.75	13296	72.85	338
49	China University of Petroleum	1302	1.11	13160	74.96	303
50	Hefei University of Technology	1230	1.13	12943	78.37	222
51	Central China Normal University	366	2.19	11603	86.89	61
52	Xiangtan University	1171	1.06	11603	80.96	214
53	Southwest Jiaotong University	1322	0.93	11476	75.95	353
54	Northeast Normal University - China	636	1.68	11457	87.42	64
55	Zhengzhou University	1219	1.16	10911	76.87	240
56	Yanshan University	1730	0.75	10738	74.57	828
57	China University of Geosciences	1332	0.98	10202	74.25	257
58	Taiyuan University of Technology	1775	0.79	9762	69.07	815
59	Nanjing University of Posts & Telecommunications	481	2.35	9741	79.21	120
60	Shaanxi Normal University	895	1.16	9157	80.78	134
61	Zhejiang Sci-Tech University	852	1.04	8446	76.76	178
62	Anhui University of Technology	758	1.11	8209	77.44	104
63	Beijing Jiaotong University	831	1	8144	77.38	194
64	Anhui University	781	1.18	7939	78.23	85
65	Zhejiang Normal University	524	1.57	7820	88.55	90
66	Beijing Normal University	540	1.53	7661	85.19	88
67	Fourth Military Medical University	420	1.45	7579	85.95	94
68	Hubei University	731	1.13	7440	77.15	213
69	University of Jinan	1080	0.96	7368	72.41	152
70	Southwest University - China	719	1.24	7353	79.28	120
71	Zhejiang University of Technology	884	0.92	7349	70.81	173
72	Qingdao University of Science & Technology	696	0.99	7264	78.88	118
73	South China Normal University	589	1.23	7222	82	99
74	Ocean University of China	585	1.19	7189	83.59	70
75	National University of Defence Technology - China	1009	0.73	7172	72.84	109
76	Jinan University	700	1.44	7148	80.14	117
77	Kunming University of Science & Technology	1422	0.58	7025	67.51	193
78	Changzhou University	825	0.97	6704	72	157
79	Henan University	732	0.99	6699	83.61	93
80	Heilongjiang University	458	1.52	6599	82.31	46
81	China University of Mining & Technology	1101	0.72	6539	71.3	221
82	Shanghai Normal University	424	1.48	6535	85.85	61

83	Shenzhen University	1054	0.95	6154	69.35	245
84	Guangxi University	961	0.78	6085	77.84	139
85	Wuhan University of Science & Technology	1079	0.68	6054	66.36	166
86	Hebei University of Technology	820	0.87	5992	73.05	172
87	Shaanxi University of Science & Technology	1068	0.68	5758	71.35	65
88	Jiangnan University	1009	0.71	5734	66.9	162
89	Nanchang University	759	0.9	5658	75.76	92
90	Ningbo University	711	0.9	5557	77.5	122
91	Huaqiao University	432	1.16	5534	75.46	78
92	Lanzhou University of Technology	793	0.73	5405	67.84	77
93	Guangdong University of Technology	954	0.76	5329	68.24	158
94	Northwest University Xi'an	497	1.33	5257	80.08	95
95	Tianjin Polytechnic University	897	0.74	5222	72.02	168
96	Nanjing Normal University	406	1.48	5207	81.28	45
97	Yangzhou University	537	1.18	5182	77.28	90

我校材料科学共有 8 篇高被引论文，如图-10 所示：

1	THREE-DIMENSIONAL PAPER-BASED ELECTROCHEMILUMINESCENCE IMMUNODEVICE FOR MULTIPLEXED MEASUREMENT OF BIOMARKERS AND POINT-OF-CARE TESTING By: GE, L; YAN, JX; SONG, XR; et.al Source: BIOMATERIALS 33 (4): 1024-1031 FEB 2012 Research Fields: MATERIALS SCIENCE	Times Cited: 184  Research Front
2	INSIGHT INTO THE ELECTRODE MECHANISM IN LITHIUM-SULFUR BATTERIES WITH ORDERED MICROPOROUS CARBON CONFINED SULFUR AS THE CATHODE By: LI, Z; YUAN, LX; YI, ZQ; et.al Source: ADV ENERGY MATER 4 (7): - MAY 2014 Research Fields: MATERIALS SCIENCE	Times Cited: 105
3	NANOSTRUCTURED MATERIALS FOR ROOM-TEMPERATURE GAS SENSORS By: ZHANG, J; LIU, XH; NERI, G; et.al Source: ADVAN MATER 28 (5): 795-831 FEB 3 2016 Research Fields: MATERIALS SCIENCE	Times Cited: 65  ESI Hot
4	FORMATION OF Fe₃O₄@MnO₂ BALL-IN-BALL HOLLOW SPHERES AS A HIGH PERFORMANCE CATALYST WITH ENHANCED CATALYTIC PERFORMANCES By: ZHANG, SW; FAN, QH; GAO, HH; et.al Source: J MATER CHEM A 4 (4): 1414-1422 2016 Research Fields: MATERIALS SCIENCE	Times Cited: 31

5	HYDROTHERMAL SYNTHESIS OF N-DOPED TiO₂ NANOWIRES AND N-DOPED GRAPHENE HETEROSTRUCTURES WITH ENHANCED PHOTOCATALYTIC PROPERTIES	Times Cited: 25
	By: LIU, C; ZHANG, LQ; LIU, R; et.al Source: J ALLOYS COMPOUNDS 656: 24-32 JAN 25 2016 Research Fields: MATERIALS SCIENCE	
6	NEW FAMILY OF ROOM TEMPERATURE QUANTUM SPIN HALL INSULATORS IN TWO-DIMENSIONAL GERMANENE FILMS	Times Cited: 25 Research Front
	By: ZHANG, RW; JI, WX; ZHANG, CW; et.al Source: J MATER CHEM C 4 (10): 2088-2094 2016 Research Fields: MATERIALS SCIENCE	
7	FROM UNSTABLE CS₂SnI₃ TO AIR-STABLE CS₂SnI₆: A LEAD-FREE PEROVSKITE SOLAR CELL LIGHT ABSORBER WITH BANDGAP OF 1.48 EV AND HIGH ABSORPTION COEFFICIENT	Times Cited: 8
	By: QIU, XF; CAO, BQ; YUAN, S; et.al Source: SOLAR ENERG MATER SOLAR CELLS 159: 227-234 JAN 2017 Research Fields: MATERIALS SCIENCE	
8	IN-SITU SYNTHESIZED POLYPYRROLE-CELLULOSE CONDUCTIVE NETWORKS FOR POTENTIAL TUNABLE FOLDABLE POWER PAPER	Times Cited: 6
	By: ZHANG, Y; LI, L; ZHANG, LN; et.al Source: NANO ENERGY 31: 174-182 JAN 2017 Research Fields: MATERIALS SCIENCE	

图-10 济南大学材料科学高被引论文

详细记录：

1.被引频次 184（济南大学是第 1 作者和通讯作者单位，化学化工学院）

Three-dimensional paper-based electrochemiluminescence immunodevice for multiplexed measurement of biomarkers and point-of-care testing

作者:Ge, L (Ge, Lei)[1]; Yan, JX (Yan, Jixian)[1]; Song, XR (Song, Xianrang)[2]; Yan, M (Yan, Mei)[1]; Ge, SG (Ge, Shengguang)[3]; Yu, JH (Yu, Jinghua)[1]

BIOMATERIALS

卷: 33 期: 4 页: 1024-1031

DOI: 10.1016/j.biomaterials.2011.10.065

出版年: FEB 2012

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研究方向:Engineering; Materials Science

Web of Science 类别:Engineering, Biomedical; Materials Science, Biomaterials

文献信息

文献类型:Article

语种:English
入藏号: WOS:000298273400004
PubMed ID: 22074665
ISSN: 0142-9612

2.被引频次 105（济南大学是第 2 作者单位，化学化工学院）

Insight into the Electrode Mechanism in Lithium-Sulfur Batteries with Ordered Microporous Carbon Confined Sulfur as the Cathode

作者:Li, Z (Li, Zhen)[1] ; Yuan, LX (Yuan, Lixia)[1] ; Yi, ZQ (Yi, Ziqi)[1] ; Sun, YM (Sun, Yongming)[1] ; Liu, Y (Liu, Yang)[1] ; Jiang, Y (Jiang, Yan)[1] ; Shen, Y (Shen, Yue)[1] ; Xin, Y (Xin, Ying)[2] ; Zhang, ZL (Zhang, Zhaoliang)[2] ; Huang, YH (Huang, Yunhui)[1]

ADVANCED ENERGY MATERIALS

卷: 4 期: 7

文献号: 1301473

DOI: 10.1002/aenm.201301473

出版年: MAY 2014

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研究方向:Chemistry; Energy & Fuels; Materials Science; Physics

Web of Science 类别:Chemistry, Physical; Energy & Fuels; Materials Science, Multidisciplinary; Physics, Applied; Physics, Condensed Matter

文献信息

文献类型:Article

语种:English

入藏号: WOS:000336503800014

ISSN: 1614-6832

eISSN: 1614-6840

3.被引频次 65（济南大学是第 2 作者单位，材料科学与工程学院）

Nanostructured Materials for Room-Temperature Gas Sensors

作者:Zhang, J (Zhang, Jun)[1,2] ; Liu, XH (Liu, Xianghong)[1,3] ; Neri, G (Neri, Giovanni)[4] ; Pinna, N (Pinna, Nicola)[5]

ADVANCED MATERIALS

卷: 28

期: 5

页: 795-831

DOI: 10.1002/adma.201503825

出版年: FEB 3 2016

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文献信息

文献类型: Review

语种: English

入藏号: WOS:000369978800001

PubMed ID: 26662346

ISSN: 0935-9648

eISSN: 1521-4095

4.被引频次 31 (济南大学是第 1 作者和通讯作者单位, 物理科学与技术学院)

Formation of Fe₃O₄@MnO₂ ball-in-ball hollow spheres as a high performance catalyst with enhanced catalytic performances

作者: Zhang, SW (Zhang, Shouwei)[1] ; Fan, QH (Fan, Qiaohui)[2] ; Gao, HH (Gao, Huihui)[1] ; Huang, YS (Huang, Yongshun)[3] ; Liu, X (Liu, Xia)[3] ; Li, JX (Li, Jiaying)[3,4] ; Xu, XJ (Xu, Xijin)[1] ; Wang, XK (Wang, Xiangke)[4]

JOURNAL OF MATERIALS CHEMISTRY A

卷: 4 期: 4 页: 1414-1422

DOI: 10.1039/c5ta08400h

出版年: 2016

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文献信息

文献类型:Article

语种:English

入藏号: WOS:000368837800032

ISSN: 2050-7488

eISSN: 2050-7496

5.被引频次 25 (济南大学是第 3 作者单位, 材料科学与工程学院)

Hydrothermal synthesis of N-doped TiO₂ nanowires and N-doped graphene heterostructures with enhanced photocatalytic properties

作者:Liu, C (Liu, Chao)[1]; Zhang, LQ (Zhang, Liqiang)[1]; Liu, R (Liu, Rui)[2]; Gao, ZF (Gao, Zhenfei)[1]; Yang, XP (Yang, Xiaopeng)[3]; Tu, ZQ (Tu, Zhiqiang)[1]; Yang, F (Yang, Fan)[1]; Ye, ZZ (Ye, Zhizhen)[4]; Cui, LS (Cui, Lishan)[1]; Xu, CM (Xu, Chunming)[1]

JOURNAL OF ALLOYS AND COMPOUNDS

卷: 656 页: 24-32

DOI: 10.1016/j.jallcom.2015.09.211

出版年: JAN 25 2016

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文献信息

文献类型:Article

语种:English

入藏号: WOS:000365051000004

ISSN: 0925-8388

eISSN: 1873-4669

6.被引频次 25 (济南大学是第 1 作者和通讯作者单位, 物理科学与技术学院)

New family of room temperature quantum spin Hall insulators in two-dimensional germanene films

作者:Zhang, RW (Zhang, Run-wu)[1]; Ji, WX (Ji, Wei-xiao)[1]; Zhang, CW (Zhang, Chang-wen)[1]; Li, SS (Li, Sheng-shi)[1,2]; Li, P (Li, Ping)[1]; Wang, PJ (Wang, Pei-ji)[1]

JOURNAL OF MATERIALS CHEMISTRY C

卷: 4 期: 10 页: 2088-2094

DOI: 10.1039/c6tc00160b

出版年: 2016

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文献信息

文献类型:Article

语种:English

入藏号: WOS:000371671400020

ISSN: 2050-7526

eISSN: 2050-7534

7.被引频次 8 (济南大学是第 1 作者和通讯作者单位, 材料科学与工程学院)

From unstable CsSnI₃ to air-stable Cs₂SnI₆: A lead-free perovskite solar cell light absorber with bandgap of 1.48 eV and high absorption coefficient

作者:Qiu, XF (Qiu, Xiaofeng)[1] ; Cao, BQ (Cao, Bingqiang)[1] ; Yuan, S (Yuan, Shuai)[1] ; Chen, XF (Chen, Xiangfeng)[1] ; Qiu, ZW (Qiu, Zhiwen)[1] ; Jiang, YA (Jiang, Yanan)[1] ; Ye, Q (Ye, Qian)[2] ; Wang, HQ (Wang, Hongqiang)[2] ; Zeng, HB (Zeng, Haibo)[3] ; Liu, J (Liu, Jian)[4]

SOLAR ENERGY MATERIALS AND SOLAR CELLS

卷: 159 页: 227-234

DOI: 10.1016/j.solmat.2016.09.022

出版年: JAN 2017

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文献类型:Article
语种:English
入藏号: WOS:000388053600027
ISSN: 0927-0248
eISSN: 1879-3398

8.被引频次 6（济南大学是第 1 作者和通讯作者单位，化学化工学院）

In-situ synthesized polypyrrole-cellulose conductive networks for potential tunable foldable power paper

作者:Zhang, Y (Zhang, Yan)[1] ; Li, L (Li, Li)[1] ; Zhang, LN (Zhang, Lina)[2] ; Ge, SG (Ge, Shenguang)[1,2] ; Yan, M (Yan, Mei)[1] ; Yu, JH (Yu, Jinghua)[1]

NANO ENERGY

卷: 31 页: 174-182 DOI: 10.1016/j.nanoen.2016.11.029

出版年: JAN 2017

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文献类型:Article

语种:English

入藏号: WOS:000393446500019

ISSN: 2211-2855

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7.2.4 工程学学科现状分析

工程学 2017 年 9 月国内高校 ESI 排名如表-11 所示。可以看出排在前 10 位的高校分别是清华大学、哈尔滨工业大学、上海交通大学、浙江大学、西安交通大学、华中科技大学、东南大学、大连理工大学、天津大学和北京航空航天大学。在表-11 中，排名第 1 位的清华大学至排名第 118 位的河北科技大学，其

工程学学科进入了 ESI 的前 1% 行列。我校的工程学学科按照 ESI 总被引频次在国内高校排名第 101 位，省内高校第 6 位。

表-11 ESI 工程学国内高校排名

排名	机构名称	Web of Science 论文数	学科规范化的引文影响力	被引频次	论文被引百分比	国际合作论文
1	Tsinghua University	13782	1.28	129928	77.17	4102
2	Harbin Institute of Technology	9216	1.43	93036	73.4	2463
3	Shanghai Jiao Tong University	10907	1.05	92522	75.62	2722
4	Zhejiang University	9277	1.15	82661	76.21	2685
5	Xi'an Jiaotong University	8413	1.21	67833	73.05	1721
6	Huazhong University of Science & Technology	6888	1.44	64873	75.86	1596
7	Southeast University - China	6761	1.29	61077	71.42	1942
8	Dalian University of Technology	6099	1.07	46453	74.72	1541
9	Tianjin University	5601	1.18	42783	72.25	1584
10	Beihang University	7069	1.01	41994	69.02	1556
11	University of Science & Technology of China	4046	1.42	40619	74.64	1102
12	Peking University	3402	1.43	38471	78.22	1092
13	South China University of Technology	3877	1.43	38275	75.19	916
14	Tongji University	5387	1.12	38070	71.56	1842
15	University of Electronic Science & Technology of China	5566	0.99	36429	68.86	1538
16	University of Chinese Academy of Sciences	3766	1.27	34211	72.7	691
17	Xidian University	4591	0.92	33383	69.98	795
18	Nanjing University of Aeronautics & Astronautics	4285	1.03	31581	68.26	909
19	Beijing Institute of Technology	4159	1.17	30004	68.09	1121
20	Chongqing University	4283	1.1	28254	68.76	1309
21	Northeastern University - China	3014	1.26	26611	71	781
22	Hunan University	3084	1.22	25742	72.6	958
23	Shandong University	3088	1.23	25591	72.83	716
24	Nanjing University of Science & Technology	3187	1.12	24753	69.81	685
25	North China Electric Power University	2923	1.26	22790	71.57	972

26	Central South University	2444	1.42	22159	70.87	709
27	Beijing Jiaotong University	3290	1	20636	68.66	1170
28	Wuhan University	2644	1.26	20423	69.78	781
29	Nanjing University	1803	1.4	20334	77.65	521
30	Northwestern Polytechnical University	3693	1.07	19415	65.58	1045
31	Shanghai University	2345	1.02	18057	71.98	607
32	Sun Yat Sen University	1992	1.3	17952	75.8	490
33	National University of Defence Technology - China	3306	0.75	16744	65.73	619
34	China University of Petroleum	3116	1.05	16609	67.36	757
35	East China University of Science & Technology	1829	1.3	15827	73.26	376
36	Fudan University	1721	1.08	15806	76.47	642
37	Sichuan University	2237	0.94	14908	69.69	491
38	Jiangnan University	1126	1.88	14082	75.13	327
39	University Town of Shenzhen	1864	1.14	13548	73.34	572
40	University of Science & Technology Beijing	1868	1.44	13461	70.99	585
41	China University of Mining & Technology	2444	1.13	12861	64.48	624
42	Jilin University	2229	0.77	12601	63.66	408
43	Xiamen University	1541	1.33	12502	72.62	554
44	Hohai University	2324	0.81	12195	65.02	750
45	Southwest Jiaotong University	2144	1.11	12166	66.46	653
46	Donghua University	908	1.53	11990	76.54	300
47	Beijing University of Technology	1911	0.93	11542	67.29	469
48	Hefei University of Technology	1517	1.32	10798	68.89	575
49	Jiangsu University	1597	1.25	10768	68.07	275
50	Wuhan University of Technology	1588	1.05	10633	63.73	531
51	Beijing University of Posts & Telecommunications	1889	0.79	10024	63.74	533
52	Nankai University	994	1.44	9715	76.76	246
53	China University of Geosciences	1387	1.31	9538	68.57	511
54	Beijing University of Chemical Technology	892	1.59	9133	75.45	190
55	Beijing Normal University	916	1.55	9117	79.91	354
56	Harbin Engineering University	2040	1.03	9108	60.93	559
57	Lanzhou University	904	1.26	9077	76.55	163
58	Guangdong University of Technology	1162	1.59	8742	66.87	340
59	Zhejiang University of	1121	1.13	8529	69.85	309

	Technology					
60	Nanjing University of Technology	908	1.22	7585	74.23	236
61	Qingdao University	398	1.98	7410	71.86	111
62	Fuzhou University	704	1.41	7135	69.74	246
63	Hangzhou Dianzi University	917	1.03	7093	62.92	249
64	Yanshan University	1315	0.84	6981	67.53	594
65	Liaoning University of Technology	253	5.61	6816	77.47	20
66	Dalian Maritime University	735	1.52	6756	67.76	157
67	Suzhou University	979	1.23	6302	68.23	270
68	Zhengzhou University	748	1.03	6009	69.12	205
69	China Agricultural University	740	0.98	5939	77.84	238
70	Nanjing Normal University	605	1.5	5913	73.39	151
71	East China Normal University	697	1.03	5684	73.03	194
72	Qufu Normal University	394	1.75	5567	74.11	71
73	Yangzhou University	416	1.69	5324	70.19	147
74	Shenzhen University	953	1.28	5300	67.79	270
75	PLA University of Science & Technology	1075	0.73	5096	57.86	107
76	Bohai University	346	4.48	5015	69.94	111
77	Taiyuan University of Technology	874	0.97	5005	65.45	443
78	Wuhan Naval University of Engineering	570	1.01	4802	77.19	18
79	Ocean University of China	680	0.91	4769	67.79	174
80	University of Shanghai for Science & Technology	914	1	4598	64.99	271
81	Kunming University of Science & Technology	561	1.35	4386	69.52	150
82	Nanjing University of Posts & Telecommunications	896	0.93	4270	58.26	205
83	Ningbo University	624	0.96	4061	68.75	141
84	Jinan University	509	1.32	3938	69.74	139
85	Guangxi University	555	1.08	3806	69.19	146
86	Zhejiang Normal University	450	1.15	3793	79.11	87
87	South China Normal University	425	1.29	3730	75.53	80
88	Northwest A&F University - China	351	1.51	3714	77.21	122
89	Nanjing University of Information Science & Technology	615	1.35	3696	66.5	218
90	Shenyang Aerospace University	392	1.07	3533	71.94	50
91	Southwest University - China	466	1.82	3486	70.82	187

92	China Jiliang University	576	0.85	3389	72.92	126
93	Tianjin Polytechnic University	500	1.1	3386	69.2	88
94	Nanchang University	479	1.16	3383	72.44	114
95	Chang'an University	712	0.77	3251	59.41	225
96	Changsha University of Science & Technology	630	0.79	3241	69.52	222
97	Anhui University	435	1.19	3240	65.98	87
98	Xiangtan University	403	1.28	3193	70.47	89
99	Northwest University Xi'an	302	1.64	3189	72.52	66
100	Northeast Normal University - China	266	1.42	3179	69.17	32
101	University of Jinan	364	1.59	3149	69.23	61
102	Huaqiao University	465	1.14	3131	64.73	100
103	China National Petroleum Corporation	790	0.71	3096	64.81	191
104	Shanghai Maritime University	486	1.25	3076	62.35	211
105	Nanjing Agricultural University	278	1.56	3057	75.18	67
106	Shandong University of Science & Technology	626	0.83	2957	60.54	142
107	Henan Polytech University	491	1.01	2926	64.77	116
108	Qingdao University of Science & Technology	311	1.65	2868	74.6	71
109	Northeast Petroleum University	222	1.86	2860	66.67	67
110	Shanxi University	307	1.38	2798	71.01	188
111	Shaanxi Normal University	334	1.14	2793	71.56	61
112	Xi'an University of Technology	638	0.68	2781	61.44	117
113	Zhejiang Sci-Tech University	438	1.05	2689	66.89	98
114	Xi'an University of Architecture & Technology	501	0.83	2645	62.28	72
115	Anhui University of Technology	308	1.43	2537	74.35	79
116	Lanzhou University of Technology	381	1.06	2432	66.93	68
117	Henan Normal University	247	1.28	2395	67.61	49
118	Hebei University of Science & Technology	187	1.36	2301	82.35	95

我校工程学共有 18 篇高被引论文，如图-11 所示：

1	FABRICATION OF NOVEL MAGNETIC CHITOSAN GRAFTED WITH GRAPHENE OXIDE TO ENHANCE ADSORPTION PROPERTIES FOR METHYL BLUE	Times Cited: 187
	By: FAN, LL; LUO, CN; LI, XJ; et.al Source: J HAZARD MATER 215: 272-279 MAY 15 2012 Research Fields: ENGINEERING	
2	ADSORPTION OF PHOSPHATE FROM AQUEOUS SOLUTION BY HYDROXY-ALUMINUM, HYDROXY-IRON AND HYDROXY-IRON-ALUMINUM PILLARED BENTONITES	Times Cited: 113
	By: YAN, LG; XU, YY; YU, HQ; et.al Source: J HAZARD MATER 179 (1-3): 244-250 JUL 15 2010 Research Fields: ENGINEERING	
3	HIGHLY EFFICIENT REMOVAL OF HEAVY METAL IONS BY AMINE-FUNCTIONALIZED MESOPOROUS FE₃O₄ NANOPARTICLES	Times Cited: 103  Research Front
	By: XIN, X; WEI, Q; YANG, J; et.al Source: CHEM ENG J 184: 132-140 MAR 1 2012 Research Fields: ENGINEERING	
4	Ag₃PO₄/GRAPHENE-OXIDE COMPOSITE WITH REMARKABLY ENHANCED VISIBLE-LIGHT-DRIVEN PHOTOCATALYTIC ACTIVITY TOWARD DYES IN WATER	Times Cited: 91
	By: CHEN, GD; SUN, M; WEI, Q; et.al Source: J HAZARD MATER 244: 86-93 JAN 15 2013 Research Fields: ENGINEERING	
5	SYNTHESIS OF AMINO FUNCTIONALIZED MAGNETIC GRAPHENES COMPOSITE MATERIAL AND ITS APPLICATION TO REMOVE CR(VI), PB(II), HG(II), CD(II) AND NI(II) FROM CONTAMINATED WATER	Times Cited: 89
	By: GUO, XY; DU, B; WEI, Q; et.al Source: J HAZARD MATER 278: 211-220 AUG 15 2014 Research Fields: ENGINEERING	
6	CHINA'S REGIONAL ENERGY AND ENVIRONMENTAL EFFICIENCY: A DEA WINDOW ANALYSIS BASED DYNAMIC EVALUATION	Times Cited: 69
	By: WANG, K; YU, SW; ZHANG, W; Source: MATH COMPUT MODELLING 58 (5-6): 1117-1127 SEP 2013 Research Fields: ENGINEERING	
7	NANOPOROUS PTCO AND PTNI ALLOY RIBBONS FOR METHANOL ELECTROOXIDATION	Times Cited: 67
	By: XU, CX; HOU, JG; PANG, XH; et.al Source: INT J HYDROGEN ENERG 37 (14): 10489-10498 JUL 2012 Research Fields: ENGINEERING	
8	ENVIRONMENTAL EFFICIENCY EVALUATION BASED ON DATA ENVELOPMENT ANALYSIS: A REVIEW	Times Cited: 65
	By: SONG, ML; AN, QX; ZHANG, W; et.al Source: RENEW SUSTAIN ENERGY REV 16 (7): 4465-4469 SEP 2012 Research Fields: ENGINEERING	
9	HETEROGENEOUS ACTIVATION OF OXONE BY COXFE₃-XO₄ NANOCATALYSTS FOR DEGRADATION OF RHODAMINE B	Times Cited: 61
	By: SU, SN; GUO, WL; LENG, YQ; et.al Source: J HAZARD MATER 244: 736-742 JAN 15 2013 Research Fields: ENGINEERING	
10	EDTA FUNCTIONALIZED MAGNETIC GRAPHENE OXIDE FOR REMOVAL OF PB(II), HG(II) AND CU(II) IN WATER TREATMENT: ADSORPTION MECHANISM AND SEPARATION PROPERTY	Times Cited: 54  Research Front
	By: CUI, LM; WANG, YG; GAO, L; et.al Source: CHEM ENG J 281: 1-10 DEC 1 2015 Research Fields: ENGINEERING	

11	MAGNETIC FE₃O₄/MGAL-LDH COMPOSITE FOR EFFECTIVE REMOVAL OF THREE RED DYES FROM AQUEOUS SOLUTION	Times Cited: 46
	By: SHAN, RR; YAN, LG; YANG, K; et.al Source: CHEM ENG J 252: 38-46 SEP 15 2014 Research Fields: ENGINEERING	
12	ADSORPTION OF CD(II) BY MG-AL-CO₃- AND MAGNETIC FE₃O₄/MG-AL-CO₃-LAYERED DOUBLE HYDROXIDES: KINETIC, ISOTHERMAL, THERMODYNAMIC AND MECHANISTIC STUDIES	Times Cited: 27 Research Front
	By: SHAN, RR; YAN, LG; YANG, K; et.al Source: J HAZARD MATER 299: 42-49 DEC 15 2015 Research Fields: ENGINEERING	
13	A HIERARCHICALLY POROUS MGFE₂O₄/GAMMA-FE₂O₃ MAGNETIC MICROSPHERES FOR EFFICIENT REMOVALS OF DYE AND PHARMACEUTICAL FROM WATER	Times Cited: 12 Research Front
	By: LU, L; LI, J; YU, J; et.al Source: CHEM ENG J 283: 524-534 JAN 1 2016 Research Fields: ENGINEERING	
14	EXTRACELLULAR POLYMERIC SUBSTANCES FOR ZN (II) BINDING DURING ITS SORPTION PROCESS ONTO AEROBIC GRANULAR SLUDGE	Times Cited: 12
	By: WEI, D; LI, MT; WANG, XD; et.al Source: J HAZARD MATER 301: 407-415 JAN 15 2016 Research Fields: ENGINEERING	
15	AIR POLLUTION AND CONTROL ACTION IN BEIJING	Times Cited: 11
	By: ZHANG, HF; WANG, SX; HAO, JM; et.al Source: J CLEAN PROD 112: 1519-1527 PART 2 JAN 20 2016 Research Fields: ENGINEERING	
16	DECOMPOSITION ANALYSIS OF FACTORS AFFECTING CARBON DIOXIDE EMISSIONS ACROSS PROVINCES IN CHINA	Times Cited: 8
	By: LI, AJ; ZHANG, AZ; ZHOU, YX; et.al Source: J CLEAN PROD 141: 1428-1444 JAN 10 2017 Research Fields: ENGINEERING	
17	RICE HUSKS AS A SUSTAINABLE SILICA SOURCE FOR HIERARCHICAL FLOWER-LIKE METAL SILICATE ARCHITECTURES ASSEMBLED INTO ULTRATHIN NANOSHEETS FOR ADSORPTION AND CATALYSIS	Times Cited: 4
	By: ZHANG, SW; GAO, HH; LI, JX; et.al Source: J HAZARD MATER 321: 92-102 JAN 5 2017 Research Fields: ENGINEERING	
18	ROBUST NOISE REGION-BASED ACTIVE CONTOUR MODEL VIA LOCAL SIMILARITY FACTOR FOR IMAGE SEGMENTATION	Times Cited: 3
	By: NIU, SJ; CHEN, Q; DE SISTERNES, L; et.al Source: PATT RECOG 61: 104-119 SP. ISS. SI JAN 2017 Research Fields: ENGINEERING	

图-11 济南大学工程学高被引论文

详细记录：

1.被引频次 187（济南大学是第 1 作者和通讯作者单位，化学化工学院）

Fabrication of novel magnetic chitosan grafted with graphene oxide to enhance adsorption properties for methyl blue

作者: Fan, LL (Fan, Lulu)[1] ; Luo, CN (Luo, Chuannan)[1] ; Li, XJ (Li, Xiangjun)[1] ; Lu, FG (Lu, Fuguang)[1] ; Qiu, HM (Qiu, Huamin)[1] ; Sun, M (Sun, Min)[1]

JOURNAL OF HAZARDOUS MATERIALS

卷: 215 页: 272-279

DOI: 10.1016/j.jhazmat.2012.02.068

出版年: MAY 15 2012

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研究方向: Engineering; Environmental Sciences & Ecology

Web of Science 类别: Engineering, Environmental; Engineering, Civil; Environmental Sciences

文献信息

文献类型: Article

语种: English

入藏号: WOS:000303306400034

PubMed ID: 22429622

ISSN: 0304-3894

2. 被引频次 113 (济南大学是第 1 作者和通讯作者单位, 资源与环境学院)

Adsorption of phosphate from aqueous solution by hydroxy-aluminum, hydroxy-iron and hydroxy-iron-aluminum pillared bentonites

作者: Yan, LG (Yan, Liang-guo)[1] ; Xu, YY (Xu, Yuan-yuan)[2] ; Yu, HQ (Yu, Hai-qin)[2,3] ; Xin, XD (Xin, Xiao-dong)[1] ; Wei, Q (Wei, Qin)[2] ; Du, B (Du, Bin)[1]

JOURNAL OF HAZARDOUS MATERIALS

卷: 179 期: 1-3 页: 244-250

DOI: 10.1016/j.jhazmat.2010.02.086

出版年: JUL 15 2010

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[2] **Univ Jinan**, Coll Chem & Chem Engrn, Jinan 250022, Peoples R China

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电子邮件地址: yanyu-33@163.com; sdjndb@263.com

学科类别: Engineering; Environmental Sciences & Ecology

Web of Science 类别: Engineering, Environmental; Engineering, Civil; Environmental Sciences

文献类型: Article

语种: English 入藏号: WOS:000278626700035

PubMed ID: 20334967

ISSN: 0304-3894

eISSN: 1873-3336

3.被引频次 103（济南大学是第 1 作者和通讯作者单位，资源与环境学院）

Highly efficient removal of heavy metal ions by amine-functionalized mesoporous Fe₃O₄ nanoparticles

作者:Xin, X (Xin, Xiaodong)[1] ; Wei, Q (Wei, Qin)[2] ; Yang, J (Yang, Jian)[1] ; Yan, L (Yan, Liangguo)[1] ; Feng, R (Feng, Rui)[1] ; Chen, G (Chen, Guodong)[2] ; Du, B (Du, Bin)[1] ; Li, H (Li, He)[2,3]

CHEMICAL ENGINEERING JOURNAL

卷: 184 页: 132-140

DOI: 10.1016/j.cej.2012.01.016

出版年: MAR 1 2012

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研究方向:Engineering

Web of Science 类别:Engineering, Environmental; Engineering, Chemical

文献信息

文献类型:Article

语种:English

入藏号: WOS:000301908100016

ISSN: 1385-8947

4.被引频次 91（济南大学是第 1 作者和通讯作者单位，资源与环境学院）

Ag₃PO₄/graphene-oxide composite with remarkably enhanced visible-light-driven photocatalytic activity toward dyes in water

作者:Chen, GD (Chen, Guodong)[2] ; Sun, M (Sun, Meng)[1] ; Wei, Q (Wei, Qin)[2] ; Zhang, YF (Zhang, Yongfang)[1] ; Zhu, BC (Zhu, Baocun)[1] ; Du, B (Du, Bin)[1,2]

JOURNAL OF HAZARDOUS MATERIALS

卷: 244 页: 86-93

DOI: 10.1016/j.jhazmat.2012.11.032

出版年: JAN 15 2013

作者信息

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电子邮件地址:smlcu@163.com; binduujn@163.com

研究方向:Engineering; Environmental Sciences & Ecology

Web of Science 类别:Engineering, Environmental; Engineering, Civil; Environmental Sciences

文献信息

文献类型:Article

语种:English

入藏号: WOS:000315001000011

PubMed ID: 23246944

ISSN: 0304-3894

5.被引频次 89 (济南大学是第 1 作者和通讯作者单位, 资源与环境学院)

Synthesis of amino functionalized magnetic graphenes composite material and its application to remove Cr(VI), Pb(II), Hg(II), Cd(II) and Ni(II) from contaminated water

作者:Guo, XY (Guo, Xiaoyao)[1]; Du, B (Du, Bin)[1]; Wei, Q (Wei, Qin)[2]; Yang, J (Yang, Jian)[1]; Hu, LH (Hu, Lihua)[2]; Yan, LG (Yan, Liangguo)[1]; Xu, WY (Xu, Weiyong)[1]

JOURNAL OF HAZARDOUS MATERIALS

卷: 278 页: 211-220

DOI: 10.1016/j.jhazmat.2014.05.075

出版年: AUG 15 2014

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文献信息

文献类型:Article

语种:English

入藏号: WOS:000340689100026

PubMed ID: 25016452

ISSN: 0304-3894

eISSN: 1873-3336

6.被引频次 69 (济南大学是通讯作者单位, 但是非第 1 作者单位, 商学院)

China's regional energy and environmental efficiency: A DEA window analysis based dynamic evaluation

作者:Wang, K (Wang, Ke)[1,2]; Yu, SW (Yu, Shiwei)[2,3]; Zhang, W (Zhang, Wei)[4]

MATHEMATICAL AND COMPUTER MODELLING

卷: 58 期: 5-6 页: 1117-1127

DOI: 10.1016/j.mcm.2011.11.067

出版年: SEP 2013

作者信息

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文献信息

文献类型:Article

语种:English

入藏号: WOS:000321700400024

ISSN: 0895-7177

eISSN: 1872-9479

7.被引频次 67 (济南大学是第 1 作者和通讯作者单位, 化学化工学院)

Nanoporous PtCo and PtNi alloy ribbons for methanol electrooxidation

作者:Xu, CX (Xu, Caixia)[1] ; Hou, JG (Hou, Jiagang)[1] ; Pang, XH (Pang, Xuehui)[1] ; Li, XJ (Li, Xiaojing)[1] ; Zhu, ML (Zhu, Minglin)[1] ; Tang, BY (Tang, Bangying)[1]

INTERNATIONAL JOURNAL OF HYDROGEN ENERGY

卷: 37 期: 14 页: 10489-10498

DOI: 10.1016/j.ijhydene.2012.04.041

出版年: JUL 2012

作者信息

通讯作者地址: Xu, CX (通讯作者)

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文献信息

文献类型:Article

语种:English

入藏号: WOS:000306391100002

ISSN: 0360-3199

8.被引频次 65 (济南大学是第 3 作者单位, 商学院)

Environmental efficiency evaluation based on data envelopment analysis: A review

作者:Song, ML (Song, Malin)[1] ; An, QX (An, Qingxian)[2] ; Zhang, W (Zhang, Wei)[3] ; Wang, ZY (Wang, Zeya)[1] ; Wu, J (Wu, Jie)[2]

RENEWABLE & SUSTAINABLE ENERGY REVIEWS

卷: 16 期: 7 页: 4465-4469

DOI: 10.1016/j.rser.2012.04.052

出版年: SEP 2012

作者信息

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文献类型:Review

语种:English

入藏号: WOS:000307909800012

ISSN: 1364-0321

9.被引频次 61 (济南大学是第 1 作者和通讯作者单位, 资源与环境学院)

Heterogeneous activation of Oxone by CoxFe3-xO4 nanocatalysts for degradation of rhodamine B

作者:Su, SN (Su, Shengnan)[1] ; Guo, WL (Guo, Weilin)[1] ; Leng, YQ (Leng, Yanqiu)[1] ; Yi, CL (Yi, Chunliang)[1] ; Ma, ZM (Ma, Zhenmin)[1]

JOURNAL OF HAZARDOUS MATERIALS

卷: 244 页: 736-742

DOI: 10.1016/j.jhazmat.2012.11.005

出版年: JAN 15 2013

作者信息

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文献信息

文献类型:Article

语种:English

入藏号: WOS:000315001000086

PubMed ID: 23195597

ISSN: 0304-3894

10.被引频次 54 (济南大学是第 1 作者和通讯作者单位, 资源与环境学院)

EDTA functionalized magnetic graphene oxide for removal of Pb(II), Hg(II) and Cu(II) in water treatment: Adsorption mechanism and separation property

作者:Cui, LM (Cui, Limei)[1] ; Wang, YG (Wang, Yaoguang)[2] ; Gao, L (Gao, Liang)[2] ; Hu, LH (Hu, Lihua)[2] ; Yan, LG (Yan, Liangguo)[1] ; Wei, Q (Wei, Qin)[2] ; Du, B (Du, Bin)[1]

CHEMICAL ENGINEERING JOURNAL

卷: 281 页: 1-10

DOI: 10.1016/j.cej.2015.06.043

出版年: DEC 1 2015

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文献信息

文献类型:Article

语种:English

入藏号: WOS:000362308200001

ISSN: 1385-8947

eISSN: 1873-3212

11.被引频次 46 (济南大学是第 1 作者和通讯作者单位, 资源与环境学院)

Magnetic Fe₃O₄/MgAl-LDH composite for effective removal of three red dyes from aqueous solution

作者:Shan, RR (Shan, Ran-ran)[1] ; Yan, LG (Yan, Liang-guo)[1] ; Yang, K (Yang, Kun)[1] ; Yu, SJ (Yu, Shu-jun)[1] ; Hao, YF (Hao, Yuan-feng)[1] ; Yu, HQ (Yu, Hai-qin)[1] ; Du, B (Du, Bin)[1]

CHEMICAL ENGINEERING JOURNAL

卷: 252 页: 38-46

DOI: 10.1016/j.cej.2014.04.105

出版年: SEP 15 2014

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文献信息

文献类型:Article

语种:English

入藏号: WOS:000339601000006

ISSN: 1385-8947

eISSN: 1873-3212

12.被引频次 27 (济南大学是第 1 作者和通讯作者单位, 资源与环境学院)

Adsorption of Cd(II) by Mg-Al-CO₃- and magnetic Fe₃O₄/Mg-Al-CO₃-layered double hydroxides: Kinetic, isothermal, thermodynamic and mechanistic studies

作者:Shan, RR (Shan, Ran-ran)[1] ; Yan, LG (Yan, Liang-guo)[1] ; Yang, K (Yang,

Kun)[1] ; Hao, YF (Hao, Yuan-feng)[1] ; Du, B (Du, Bin)[1]

JOURNAL OF HAZARDOUS MATERIALS

卷: 299 页: 42-49

DOI: 10.1016/j.jhazmat.2015.06.003

出版年: DEC 15 2015

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文献类型:Article

语种:English

入藏号: WOS:000367411000006

PubMed ID: 26073520

ISSN: 0304-3894

eISSN: 1873-3336

13.被引频次 12 (济南大学是第 1 作者和通讯作者单位, 材料科学与工程学院)

A hierarchically porous MgFe₂O₄/gamma-Fe₂O₃ magnetic microspheres for efficient removals of dye and pharmaceutical from water

作者:Lu, L (Lu, Lu)[1] ; Li, J (Li, Jia)[1] ; Yu, J (Yu, Jing)[1] ; Song, P (Song, Peng)[1] ; Ng, DHL (Ng, Dickon H. L.)(2]

CHEMICAL ENGINEERING JOURNAL

卷: 283 页: 524-534

DOI: 10.1016/j.cej.2015.07.081

出版年: JAN 1 2016

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文献信息

文献类型:Article

语种:English

入藏号: WOS:000364247100053

ISSN: 1385-8947

eISSN: 1873-3212

14.被引频次 12 (济南大学是第 1 作者和通讯作者单位, 资源与环境学院)

Extracellular polymeric substances for Zn (II) binding during its sorption process onto aerobic granular sludge

作者:Wei, D (Wei, Dong)[1,3] ; Li, MT (Li, Mengting)[1] ; Wang, XD (Wang,

Xiaodong)[1,3] ; Han, F (Han, Fei)[1] ; Li, LS (Li, Lusheng)[1] ; Guo, J (Guo, Jie)[1] ; Ai, LJ (Ai, Lijie)[1] ; Fang, LL (Fang, Lulu)[1] ; Liu, L (Liu, Ling)[1] ; Du, B (Du, Bin)[1] 更多内容

JOURNAL OF HAZARDOUS MATERIALS

卷: 301 页: 407-415

DOI: 10.1016/j.jhazmat.2015.09.018

出版年: JAN 15 2016

作者信息

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文献信息

文献类型:Article

语种:English

入藏号:WOS:000367407200044

PubMed ID: 26410269

ISSN: 0304-3894

eISSN: 1873-3336

15 被引频次 11 (非济南大学的文章)

Air pollution and control action in Beijing

作者:Zhang, HF (Zhang, Hefeng)[1] ; Wang, SX (Wang, Shuxiao)[2] ; Hao, JM (Hao, Jiming)[2] ; Wang, XM (Wang, Xinming)[3] ; Wang, SL (Wang, Shulan)[1] ; Chai, FH (Chai, Fahe)[1] ; Li, M (Li, Mei)[4]

JOURNAL OF CLEANER PRODUCTION

卷: 112

页: 1519-1527

子辑: 2

DOI: 10.1016/j.jclepro.2015.04.092

出版年: JAN 20 2016

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[3] Chinese Acad Sci, Guangzhou Inst Geochem, State Key Lab Organ Geochem,

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文献信息

文献类型:Review

语种:English

入藏号: WOS:000368206800026

ISSN: 0959-6526

eISSN: 1879-1786

16.被引频次 8 (济南大学是第 2 作者单位, 外国语学院)

Decomposition analysis of factors affecting carbon dioxide emissions across provinces in China

作者:Li, AJ (Li, Aijun)[1] ; Zhang, AZ (Zhang, Aizhen)[2] ; Zhou, YX (Zhou, Yuxia)[3,4] ; Yao, X (Yao, Xin)[3,4]

JOURNAL OF CLEANER PRODUCTION

卷: 141 页: 1428-1444

DOI: 10.1016/j.jclepro.2016.09.206

出版年: JAN 10 2017

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China

[4] Xiamen Univ, Collaborat Innovat Ctr Energy Econ & Energy Polic, Xiamen 361005, Peoples R China

文献信息

文献类型:Article

语种:English

入藏号: WOS:000389090300131

ISSN: 0959-6526

eISSN: 1879-1786

17.被引频次 4 (济南大学是第 1 作者和通讯作者单位, 物理科学与技术学院)

Rice husks as a sustainable silica source for hierarchical flower-like metal silicate architectures assembled into ultrathin nanosheets for adsorption and catalysis

作者:Zhang, SW (Zhang, Shouwei)[1,2] ; Gao, HH (Gao, Huihui)[1] ; Li, JX (Li, Jiaying)[2,3] ; Huang, YS (Huang, Yongshun)[2] ; Alsaedi, A (Alsaedi, Ahmed)[3] ; Hayat, T (Hayat, Tasawar)[3,4] ; Xu, XJ (Xu, Xijin)[1] ; Wang, XK (Wang, Xiangke)[3]

JOURNAL OF HAZARDOUS MATERIALS

卷: 321 页: 92-102

DOI: 10.1016/j.jhazmat.2016.09.004

出版年: JAN 5 2017

作者信息

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[2] Chinese Acad Sci, Key Lab Novel Thin Film Solar Cells, Inst Plasma Phys, POB 1126, Hefei 230031, Peoples R China

[3] King Abdulaziz Univ, Fac Sci, NAAM Res Grp, Jeddah 21589, Saudi Arabia

[4] Quaid I Azam Univ, Dept Math, Islamabad 44000, Pakistan

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文献类型: Article

语种: English

入藏号: WOS:000388777300011

PubMed ID: 27614322

ISSN: 0304-3894

eISSN: 1873-3336

18.被引频次 3 (济南大学是第 1 作者单位, 信息科学与工程学院)

Robust noise region-based active contour model via local similarity factor for image segmentation

作者: Niu, SJ (Niu, Sijie)[1,2,3] ; Chen, Q (Chen, Qiang)[2] ; de Sisternes, L (de Sisternes, Luis)[3] ; Ji, ZX (Ji, Zexuan)[2] ; Zhou, ZM (Zhou, Zeming)[4] ; Rubin, DL (Rubin, Daniel L.)([3,5]

PATTERN RECOGNITION 卷: 61 页: 104-119

特刊: SI

DOI: 10.1016/j.patcog.2016.07.022

出版年: JAN 2017

作者信息

通讯作者地址: Chen, Q (通讯作者)

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[4] PLA Univ Sci & Technol, Inst Meteorol & Oceanog, Beijing, Peoples R China

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文献类型: Article

语种: English

入藏号: WOS:000385899400008

ISSN: 0031-3203

eISSN: 1873-5142

7.3 济南大学未进入前 1%学科学科分析

7.3.1 物理学学科现状分析

物理学 2017 年 9 月国内高校 ESI 排名如表-12 所示。可以看出排在前 10 位的高校分别是清华大学、中国科学技术大学、北京大学、南京大学、浙江大学、中国科学院大学、上海交通大学、山东大学、复旦大学和华中科技大学。排名第 1 位的清华大学至排名第 34 位的厦门大学，其物理学学科进入了 ESI 的前 1% 行列。我校的物理学学科按照 ESI 总被引频次在国内高校排名第 105 位，省内高校第 5 位。

表-12 ESI 物理学国内高校排名

排名	机构名称	Web of Science 论文数	学科规范化的引文影响力	被引频次	论文被引百分比	国际合作论文
1	Tsinghua University	10726	1.49	148545	82.72	3821
2	University of Science & Technology of China	10725	1.33	145449	80.1	4058
3	Peking University	9787	1.47	144300	83.22	4026
4	Nanjing University	7326	1.28	88900	81.6	2418
5	Zhejiang University	7208	1.11	88367	83.59	2601
6	University of Chinese Academy of Sciences	8819	0.81	68670	73.58	1534
7	Shanghai Jiao Tong University	6183	1.23	68318	80.41	2339
8	Shandong University	4531	1.48	62581	83.6	1793
9	Fudan University	4522	1.27	57722	82.68	1648
10	Huazhong University of Science & Technology	5938	0.94	50907	77.5	1147
11	Sun Yat Sen University	3061	1.7	45510	84.25	1231
12	Harbin Institute of Technology	5470	0.73	40734	78.43	1154
13	Jilin University	3899	0.96	39367	79.53	944
14	Xi'an Jiaotong University	4675	0.83	38479	76.39	1395
15	Nankai University	3170	1.17	37015	81.26	1020
16	Southeast University - China	3207	1.1	35186	78.77	792

17	Beihang University	3735	1.12	32137	76.84	1241
18	Central China Normal University	2040	1.75	31880	82.06	1152
19	Lanzhou University	3348	0.93	31714	80.14	867
20	University of Electronic Science & Technology of China	4218	0.73	30255	77.48	1116
21	Dalian University of Technology	3367	0.76	29912	80.43	758
22	Beijing Normal University	2677	0.98	27294	79.72	696
23	Shanghai University	2967	0.82	25482	79.37	743
24	Suzhou University	2314	1.31	25107	81.33	742
25	Wuhan University	2194	1.08	23536	77.76	603
26	Tianjin University	3056	0.78	21969	76.41	705
27	Sichuan University	3617	0.59	21818	75.5	635
28	Beijing Institute of Technology	2588	0.86	21421	76.62	660
29	East China Normal University	2251	0.82	20951	80.01	605
30	South China University of Technology	1820	1.19	20347	79.95	344
31	Hunan University	1750	1.16	19412	82.57	430
32	National University of Defence Technology - China	2834	0.71	18803	77.24	386
33	Beijing University of Posts & Telecommunications	2502	0.74	17837	76.06	426
34	Xiamen University	1756	1.09	16852	78.42	596
35	Tongji University	1984	0.85	15707	77.12	527
36	South China Normal University	1949	0.71	15193	77.37	310
37	Chongqing University	1877	0.9	15078	76.72	382
38	University of Science & Technology Beijing	1839	0.84	14918	77.65	526
39	Northwestern Polytechnical University	2341	0.66	13707	76.16	443
40	Nanjing University of Aeronautics & Astronautics	1543	0.86	13289	77.64	262
41	Renmin University of China	625	2.03	12907	81.28	263
42	Beijing Jiaotong University	1890	0.67	12518	75.45	400
43	Wuhan University of Technology	957	1.31	12226	76.59	278
44	Xidian University	2205	0.54	11671	73.74	183
45	Shanxi University	1577	0.87	10992	71.59	775
46	Nanjing University of Science & Technology	1647	0.75	10983	75.53	332
47	Shenzhen University	1328	1.2	10698	74.1	293
48	East China University of Science & Technology	847	1.16	10369	81.94	206
49	Central South University	1473	0.93	10131	75.76	331
50	Beijing University of	1501	0.66	9887	73.35	322

	Technology					
51	Xiangtan University	1079	0.85	9669	83.32	242
52	Ningbo University	1342	0.71	9655	77.2	222
53	Henan Normal University	1207	0.92	9489	79.04	299
54	Zhejiang Normal University	909	0.88	9468	84.27	192
55	Anhui University	1234	0.72	8966	75.77	147
56	Donghua University	604	1.16	8766	82.95	146
57	Hangzhou Normal University	689	1.37	8169	82.58	305
58	Northeastern University - China	1124	0.72	8033	74.91	275
59	Northeast Normal University - China	643	0.83	7772	73.41	95
60	Southwest Jiaotong University	1331	0.58	7668	73.85	340
61	Hunan Normal University	1057	0.72	7645	77.29	104
62	Nanjing Normal University	1064	0.98	7610	76.41	314
63	Fuzhou University	811	0.99	7537	76.7	115
64	Zhengzhou University	1043	1.01	7357	77.47	295
65	University of Shanghai for Science & Technology	1178	0.66	7296	73.09	275
66	Beijing University of Chemical Technology	581	1.11	6691	81.41	116
67	Yanshan University	963	0.64	6617	78.61	489
68	Nanjing University of Posts & Telecommunications	1011	0.91	6532	72.8	172
69	Southwest University - China	733	1.01	6361	72.99	208
70	Nanchang University	881	0.68	6292	78.21	88
71	Jiangsu University	1034	0.62	6256	75.24	95
72	North China Electric Power University	820	1.03	6233	72.44	202
73	Capital Normal University	838	0.67	6217	77.45	262
74	University Town of Shenzhen	812	0.93	5746	75.25	202
75	Guangxi University	685	1	5710	77.23	256
76	Guangxi Normal University	615	1.11	5681	81.63	253
77	China Jiliang University	785	0.75	5551	78.47	153
78	China University of Mining & Technology	931	0.75	5460	75.83	153
79	Shaanxi Normal University	964	0.64	5406	71.99	155
80	Harbin Engineering University	843	0.69	5345	69.51	143
81	Changchun University of Science & Technology	954	0.49	5042	69.71	79
82	Taiyuan University of Technology	718	0.77	4835	68.52	340
83	Hebei Normal University	662	0.66	4778	78.85	339
84	Northwest University Xi'an	746	0.75	4778	79.09	140

85	Henan University	655	0.74	4702	76.79	78
86	Nanjing University of Technology	428	1.53	4682	78.04	114
87	Hebei University of Technology	739	0.58	4598	75.24	205
88	Yunnan University	597	0.7	4596	76.38	122
89	Shandong Normal University	704	0.56	4501	76.7	77
90	Jiangxi Normal University	683	0.58	4445	74.08	52
91	Guangdong University of Technology	732	0.81	4258	73.09	125
92	China University of Petroleum	841	0.56	4207	70.27	188
93	Sichuan Normal University	534	0.73	4102	76.59	79
94	Jinan University	587	0.86	4095	72.74	137
95	Northwest Normal University - China	739	0.55	4068	74.56	117
96	Jiangnan University	608	0.73	4024	73.03	71
97	Hefei University of Technology	648	0.74	3969	76.54	117
98	Fujian Normal University	522	0.62	3913	78.54	102
99	Liaoning University	428	1.09	3889	81.31	200
100	China University of Geosciences	614	0.76	3870	72.96	125
101	Guangzhou University	394	0.71	3841	83.5	39
102	Zhejiang A&F University	315	0.98	3820	90.79	39
103	Qingdao University	467	0.89	3786	79.66	177
104	Yangzhou University	447	0.75	3760	77.63	64
105	University of Jinan	489	0.95	3753	75.26	52

我校物理学共有 8 篇高被引论文，如图-12 所示：

- EPITAXIAL GROWTH OF LARGE-GAP QUANTUM SPIN HALL INSULATOR ON SEMICONDUCTOR SURFACE**
 By: ZHOU, M; MING, WM; LIU, Z; et.al
 Source: PROC NAT ACAD SCI USA 111 (40): 14378-14381 OCT 7 2014
 Research Fields: PHYSICS
 Times Cited: 65

- A BAMBOO-INSPIRED NANOSTRUCTURE DESIGN FOR FLEXIBLE, FOLDABLE, AND TWISTABLE ENERGY STORAGE DEVICES**
 By: SUN, YM; SILLS, RB; HU, XL; et.al
 Source: NANO LETT 15 (6): 3899-3906 JUN 2015
 Research Fields: PHYSICS
 Times Cited: 52

- ETHYNYL-FUNCTIONALIZED STANENE FILM: A PROMISING CANDIDATE AS LARGE-GAP QUANTUM SPIN HALL INSULATOR**
 By: ZHANG, RW; ZHANG, CW; JI, WX; et.al
 Source: NEW J PHYS 17: - AUG 10 2015
 Research Fields: PHYSICS
 Times Cited: 47


4	UNEXPECTED GIANT-GAP QUANTUM SPIN HALL INSULATOR IN CHEMICALLY DECORATED PLUMBENE MONOLAYER By: ZHAO, H; ZHANG, CW; JI, WX; et.al Source: SCI REP 6: - FEB 2 2016 Research Fields: PHYSICS	Times Cited: 43  Research Front
5	LARGE-GAP QUANTUM SPIN HALL STATE IN FUNCTIONALIZED DUMBBELL STANENE By: WANG, YP; JI, WX; ZHANG, CW; et.al Source: APPL PHYS LETT 108 (7): - FEB 15 2016 Research Fields: PHYSICS	Times Cited: 29  Research Front
6	CONTROLLABLE BAND STRUCTURE AND TOPOLOGICAL PHASE TRANSITION IN TWO-DIMENSIONAL HYDROGENATED ARSENENE By: WANG, YP; JI, WX; ZHANG, CW; et.al Source: SCI REP 6: - FEB 3 2016 Research Fields: PHYSICS	Times Cited: 25  Research Front
7	ROOM TEMPERATURE QUANTUM SPIN HALL INSULATOR IN ETHYNYL-DERIVATIVE FUNCTIONALIZED STANENE FILMS By: ZHANG, RW; ZHANG, CW; JI, WX; et.al Source: SCI REP 6: - JAN 5 2016 Research Fields: PHYSICS	Times Cited: 24  Research Front
8	ULTRAFAST AMMONIA-DRIVEN, MICROWAVE-ASSISTED SYNTHESIS OF NITROGEN-DOPED GRAPHENE QUANTUM DOTS AND THEIR OPTICAL PROPERTIES By: ZHENG, BJ; CHEN, YF; LI, PJ; et.al Source: NANOPHOTONICS 6 (1): 259-267 JAN 2017 Research Fields: PHYSICS	Times Cited: 4  Research Front

图-12 济南大学物理学高被引论文

详细记录：

1.被引频次 65（济南大学是第 2 作者单位，物理科学与技术学院）

Epitaxial growth of large-gap quantum spin Hall insulator on semiconductor surface

作者: Zhou, M (Zhou, Miao)[1] ; Ming, WM (Ming, Wenmei)[1] ; Liu, Z (Liu, Zheng)[1] ;

Wang, ZF (Wang, Zhengfei)[1] ; Li, P (Li, Ping)[1,2] ; Liu, F (Liu, Feng)[1,3]

PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA

卷: 111 期: 40 页: 14378-14381

DOI: 10.1073/pnas.1409701111

出版年: OCT 7 2014

查看期刊信息

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电子邮件地址: fliu@eng.utah.edu

研究方向: Science & Technology - Other Topics

Web of Science 类别:Multidisciplinary Sciences

文献信息

文献类型:Article

语种:English

入藏号: WOS:000342633900032

PubMed ID: 25246584

ISSN: 0027-8424

2.被引频次 52 (济南大学是第 7 作者单位, 化学化工学院)

A Bamboo-Inspired Nanostructure Design for Flexible, Foldable, and Twistable Energy Storage Devices

作者:Sun, YM (Sun, Yongming)[1,4] ; Sills, RB (Sills, Ryan B.)[5,6] ; Hu, XL (Hu, Xianluo)[1] ; Seh, ZW (Seh, Zhi Wei)[4] ; Xiao, X (Xiao, Xu)[2,3] ; Xui, HH (Xui, Henghui)[1] ; Luo, W (Luo, Wei)[1] ; Jin, HY (Jin, Huanyu)[2,3] ; Xin, Y (Xin, Ying)[7] ; Li, TQ (Li, Tianqi)[2,3]

NANO LETTERS

卷: 15 期: 6 页: 3899-3906

DOI: 10.1021/acs.nanolett.5b00738

出版年: JUN 2015

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研究方向:Chemistry; Science & Technology - Other Topics; Materials Science; Physics

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文献类型:Article

语种:English

入藏号: WOS:000356316900037

PubMed ID: 26011653

ISSN: 1530-6984

eISSN: 1530-6992

3.被引频次 47 (济南大学是第 1 作者和通讯作者单位, 物理科学与技术学院)

Ethynyl-functionalized stanene film: a promising candidate as large-gap quantum spin Hall insulator

作者:Zhang, RW (Zhang, Run-Wu)[1] ; Zhang, CW (Zhang, Chang-Wen)[1] ; Ji, WX (Ji, Wei-Xiao)[1] ; Li, SS (Li, Sheng-Shi)[1,2] ; Hu, SJ (Hu, Shu-Jun)[2] ; Yan, SS (Yan, Shi-Shen)[2] ; Li, P (Li, Ping)[1] ; Wang, PJ (Wang, Pei-Ji)[1] ; Li, F (Li, Feng)[1]

NEW JOURNAL OF PHYSICS

卷: 17 文献号: 083036

DOI: 10.1088/1367-2630/17/8/083036

出版年: AUG 10 2015

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文献信息

文献类型:Article

语种:English

入藏号: WOS:000360956600004

ISSN: 1367-2630

4.被引频次 43 (济南大学是第 1 作者和通讯作者单位, 物理科学与技术学院)

Unexpected Giant-Gap Quantum Spin Hall Insulator in Chemically Decorated Plumbene Monolayer

作者:Zhao, H (Zhao, Hui)[1] ; Zhang, CW (Zhang, Chang-wen)[1] ; Ji, WX (Ji, Wei-xiao)[1] ; Zhang, RW (Zhang, Run-wu)[1] ; Li, SS (Li, Sheng-shi)[2] ; Yan, SS (Yan, Shi-shen)[2] ; Zhang, BM (Zhang, Bao-min)[1] ; Li, P (Li, Ping)[1] ; Wang, PJ (Wang, Pei-ji)[1]

SCIENTIFIC REPORTS

卷: 6 文献号: 20152

DOI: 10.1038/srep20152

出版年: FEB 2 2016

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出版商

NATURE PUBLISHING GROUP, MACMILLAN BUILDING, 4 CRINAN ST, LONDON N1 9XW, ENGLAND

研究方向: Science & Technology - Other Topics

Web of Science 类别: Multidisciplinary Sciences

文献信息

文献类型: Article

语种: English

入藏号: WOS:000369139700001

PubMed ID: 26833133

ISSN: 2045-2322

5. 被引频次 29 (济南大学是第 1 作者和通讯作者单位, 物理科学与技术学院)

Large-gap quantum spin Hall state in functionalized dumbbell stanene

作者: Wang, YP (Wang, Ya-ping)[1] ; Ji, WX (Ji, Wei-xiao)[1] ; Zhang, CW (Zhang, Chang-wen)[1] ; Li, P (Li, Ping)[1] ; Li, F (Li, Feng)[1] ; Wang, PJ (Wang, Pei-ji)[1] ; Li, SS (Li, Sheng-shi)[2] ; Yan, SS (Yan, Shi-shen)[2]

APPLIED PHYSICS LETTERS

卷: 108 期: 7

文献号: 073104

DOI: 10.1063/1.4942380

出版年: FEB 15 2016

作者信息

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电子邮件地址: zhchwsd@163.com

文献类型: Article

语种: English

入藏号: WOS:000373056400037

ISSN: 0003-6951

eISSN: 1077-3118

6. 被引频次 25 (济南大学是第 1 作者和通讯作者单位, 物理科学与技术学院)

Controllable band structure and topological phase transition in two-dimensional hydrogenated arsenene

作者: Wang, YP (Wang, Ya-ping)[1] ; Ji, WX (Ji, Wei-xiao)[1] ; Zhang, CW (Zhang, Chang-wen)[1] ; Li, P (Li, Ping)[1] ; Li, F (Li, Feng)[1] ; Ren, MJ (Ren, Miao-juan)[1] ; Chen, XL (Chen, Xin-Lian)[1] ; Yuan, M (Yuan, Min)[1] ; Wang, PJ (Wang, Pei-ji)[1]

SCIENTIFIC REPORTS

卷: 6

文献号: 20342

DOI: 10.1038/srep20342

出版年: FEB 3 2016

作者信息

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文献信息

文献类型:Article

语种:English

入藏号: WOS:000369787900001

PubMed ID: 26839209

ISSN: 2045-2322

7.被引频次 24 (济南大学是第 1 作者和通讯作者单位, 物理科学与技术学院)

Room Temperature Quantum Spin Hall Insulator in Ethynyl-Derivative Functionalized Stanene Films

作者:Zhang, RW (Zhang, Run-wu)[1] ; Zhang, CW (Zhang, Chang-wen)[1] ; Ji, WX (Ji, Wei-xiao)[1] ; Li, SS (Li, Sheng-shi)[1,2] ; Yan, SS (Yan, Shi-shen)[2] ; Hu, SJ (Hu, Shu-jun)[2] ; Li, P (Li, Ping)[1] ; Wang, PJ (Wang, Pei-ji)[1] ; Li, F (Li, Feng)[1]

SCIENTIFIC REPORTS

卷: 6

文献号: 18879

DOI: 10.1038/srep18879

出版年: JAN 5 2016

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文献信息

文献类型:Article

语种:English

入藏号: WOS:000368378600001

PubMed ID: 26728874

ISSN: 2045-2322

8.被引频次 4 (济南大学是第 3 作者单位, 材料科学与工程学院)

Ultrafast ammonia-driven, microwave-assisted synthesis of nitrogen-doped graphene quantum dots and their optical properties

作者:Zheng, BJ (Zheng, Binjie)[1] ; Chen, YF (Chen, Yuanfu)[1] ; Li, PJ (Li, Pingjian)[1] ; Wang, ZG (Wang, Zegao)[2] ; Cao, BQ (Cao, Bingqiang)[3] ; Qi, F (Qi, Fei)[1] ; Liu, JB (Liu, Jinbo)[1] ; Qiu, ZW (Qiu, Zhiwen)[3] ; Zhang, WL (Zhang, Wanli)[1]

NANOPHOTONICS 卷: 6 期: 1 页: 259-267

DOI: 10.1515/nanoph-2016-0102

出版年: JAN 2017

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文献类型:Article

语种:English

入藏号: WOS:000390606900014

ISSN: 2192-8606

eISSN: 2192-8614

7.3.2 生物和生物化学学科现状分析

生物和生物化学 2017 年 9 月国内高校 ESI 排名如表-13 所示。可以看出排在前 10 位的高校分别是上海交通大学、中科院大学、浙江大学、北京大学、清华大学、复旦大学、中山大学、山东大学、中国农业大学和武汉大学。在表-13 中,排名第 1 位的上海交通大学至排名第 50 位的北京师范大学,其生物和生物化学学科进入了 ESI 的前 1%行列。我校的生物和生物化学按照 ESI 总被引频次在国内高校排名第 84 位,省内高校第 4 位。

表-13 ESI 生物与生物化学国内高校排名

排名	机构名称	Web of Science 论文数	学科规范化的引文影响力	被引频次	论文被引百分比	国际合作论文
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1	Shanghai Jiao Tong University	4215	0.9	51619	78.98	1051
2	University of Chinese Academy of Sciences	3290	1.05	43893	83.8	688
3	Zhejiang University	3656	0.88	41934	81.1	907
4	Peking University	3049	0.99	39906	81.11	943
5	Tsinghua University	2320	1.19	38185	86.9	736
6	Fudan University	3110	0.85	37352	77.97	866
7	Sun Yat Sen University	2384	0.94	29841	78.23	564
8	Shandong University	2751	0.79	27393	76.55	624
9	China Agricultural University	1541	1	21349	84.49	514
10	Wuhan University	1693	0.92	21127	79.56	371
11	Sichuan University	2074	0.82	20551	77	431
12	Huazhong University of Science & Technology	1846	0.83	18178	77.46	488
13	University of Science & Technology of China	1135	1.08	17547	85.81	314
14	South China University of Technology	877	1.42	16755	85.97	195
15	Nankai University	1193	0.98	15736	86.25	363
16	Jiangnan University	1616	0.77	15316	81.44	357
17	Nanjing University	1273	0.94	15163	79.89	295
18	East China University of Science & Technology	1323	0.89	14945	85.94	225
19	Tongji University	1571	0.85	14117	74.67	376
20	Jilin University	1775	0.71	13928	73.69	500
21	Central South University	1537	0.74	13446	75.02	416
22	Nanjing Agricultural University	1101	0.92	12954	84.2	229
23	Harbin Institute of Technology	965	1.25	12893	85.18	315
24	Suzhou University	1292	0.83	12741	74.3	331
25	Xiamen University	1026	0.87	12019	81.97	350
26	Dalian University of Technology	838	0.99	11790	86.99	215
27	Fourth Military Medical University	1022	0.91	11581	81.21	233
28	Nanjing Medical University	1353	0.78	11455	72.8	241
29	Tianjin University	894	1.04	10657	83.22	211
30	Huazhong Agricultural University	1092	0.88	10305	80.49	269
31	Second Military Medical University	1126	0.72	10172	77.98	215
32	Southeast University - China	703	1.2	9904	79.8	155
33	Harbin Medical University	1069	0.76	9536	79.33	263
34	Xi'an Jiaotong University	1121	0.69	8833	74.49	377
35	Third Military Medical	1009	0.65	8344	77.01	193

	University					
36	Ocean University of China	738	0.8	8127	84.28	166
37	Capital Medical University	1227	0.61	8064	66.34	308
38	Hunan University	384	1.49	7656	89.06	60
39	Jinan University	767	0.83	7631	79.66	167
40	Tianjin Medical University	758	0.81	7563	75.07	208
41	Northwest A&F University – China	874	0.87	7523	78.72	253
42	Lanzhou University	708	0.77	7451	81.36	95
43	China Medical University	951	0.62	7278	75.92	246
44	Southern Medical University – China	939	0.65	7182	68.05	231
45	Beijing University of Chemical Technology	529	1.15	7118	83.18	134
46	Shanghai University	449	1.03	6471	81.29	146
47	Southwest University – China	552	0.91	6166	78.8	126
48	Shenzhen University	345	1.21	6140	68.41	108
49	East China Normal University	508	0.94	5866	83.07	216
50	Beijing Normal University	488	0.85	5737	85.45	131
51	China Pharmaceutical University	657	0.74	5601	81.13	124
52	Nanjing University of Technology	469	0.95	5538	84.22	64
53	Zhengzhou University	1060	0.52	5418	55.66	150
54	Chongqing Medical University	699	0.69	5383	69.81	162
55	Wenzhou Medical University	817	0.62	4975	65.97	246
56	University Town of Shenzhen	441	1.2	4551	81.41	138
57	Chongqing University	454	0.94	4535	84.8	118
58	University of Electronic Science & Technology of China	228	1.68	4525	72.37	92
59	Tianjin University Science & Technology	469	0.89	4520	78.04	106
60	Nanchang University	536	0.86	4464	71.83	135
61	Donghua University	248	1.36	4281	87.5	130
62	Zhejiang University of Technology	450	0.8	4276	82.22	83
63	Anhui Medical University	526	0.75	4073	69.77	103
64	South China Normal University	261	1.03	4056	81.61	47
65	Sichuan Agricultural University	497	0.71	3927	73.24	105
66	South China Agricultural University	459	0.72	3812	76.03	107
67	Shantou University	352	0.67	3765	80.68	68
68	Jiangsu University	493	0.8	3744	72.41	105
69	Hunan Normal University	288	0.8	3735	87.85	82
70	Northeast Agricultural	472	0.8	3610	78.6	61

	University - China					
71	Nanjing Normal University	350	0.7	3542	83.43	53
72	Beijing Forestry University	315	1.13	3524	79.37	78
73	Shanghai University of Traditional Chinese Medicine	339	0.84	3420	75.81	103
74	Dalian Medical University	430	0.71	3378	71.63	103
75	Yangzhou University	363	0.78	3339	80.44	72
76	Northeast Forestry University - China	297	0.83	3301	77.78	83
77	Shenyang Pharmaceutical University	300	0.78	3198	87.67	86
78	Guangxi University	274	0.84	3143	82.12	55
79	Guangzhou Medical University	481	0.67	3101	67.15	96
80	Qingdao University of Science & Technology	155	0.9	2887	87.1	29
81	Beijing University of Technology	278	1.05	2773	80.22	64
82	Yunnan University	219	0.71	2769	84.47	55
83	Shanxi University	276	0.7	2699	79.71	130
84	University of Jinan	290	0.96	2689	78.28	45
85	Beijing Institute of Technology	201	0.91	2678	83.58	52
86	Nantong University	381	0.69	2667	76.38	53
87	Northeast Normal University - China	263	0.79	2652	78.71	52
88	Qingdao University	500	0.59	2647	65.2	63
89	North China University of Science & Technology	129	2.08	2620	75.19	101
90	Hebei Medical University	460	0.53	2607	63.7	195
91	Shandong Agricultural University	280	0.64	2602	82.14	43
92	Northwest University Xi'an	298	0.77	2586	77.85	70
93	University of South China	310	0.57	2537	74.84	72
94	Hunan University of Technology	39	4.84	2469	94.87	1
95	Central China Normal University	231	0.88	2412	82.25	80
96	Hefei University of Technology	186	0.96	2254	77.96	46
97	Guangxi Medical University	369	0.58	2101	60.43	77
98	Shanghai Normal University	156	0.89	2032	85.26	46
99	Inner Mongolia University	135	0.85	1988	77.78	58
100	Fuzhou University	193	0.89	1975	87.05	54

我校生物和生物化学共有 4 篇高被引论文，如图-13 所示：

- 1 **SIGNIFICANCE OF SERUM MICRORNAS IN PRE-DIABETES AND NEWLY DIAGNOSED TYPE 2 DIABETES: A CLINICAL STUDY** Times Cited: 155
By: KONG, L; ZHU, JJ; HAN, WX; et.al
Source: ACTA DIABETOL 48 (1): 61-69 MAR 2011
Research Fields: BIOLOGY & BIOCHEMISTRY
- 2 **HIGHLY SELECTIVE ADSORPTION OF LEAD IONS BY WATER-DISPERSIBLE MAGNETIC CHITOSAN/GRAPHENE OXIDE COMPOSITES** Times Cited: 120
By: FAN, LL; LUO, CN; SUN, M; et.al
Source: COLLOID SURFACE B 103: 523-529 MAR 1 2013
Research Fields: BIOLOGY & BIOCHEMISTRY
- 3 **ADSORBENT FOR CHROMIUM REMOVAL BASED ON GRAPHENE OXIDE FUNCTIONALIZED WITH MAGNETIC CYCLODEXTRIN-CHITOSAN** Times Cited: 98
By: LI, LL; FAN, LL; SUN, M; et.al
Source: COLLOID SURFACE B 107: 76-83 JUL 1 2013
Research Fields: BIOLOGY & BIOCHEMISTRY
- 4 **SILENCING OF LONG NONCODING RNA MALAT1 BY MIR-101 AND MIR-217 INHIBITS PROLIFERATION, MIGRATION, AND INVASION OF ESOPHAGEAL SQUAMOUS CELL CARCINOMA CELLS** Times Cited: 70
By: WANG, XY; LI, M; WANG, ZQ; et.al
Source: J BIOL CHEM 290 (7): 3925-3935 FEB 13 2015
Research Fields: BIOLOGY & BIOCHEMISTRY

图-13 济南大学生物与生物化学高被引论文

详细记录：

1.被引频次 155（第 4 作者单位山东省肿瘤医院，生命医学院附属医院）

Significance of serum microRNAs in pre-diabetes and newly diagnosed type 2 diabetes: a clinical study

作者:Kong, L (Kong, Lei)[1] ; Zhu, JJ (Zhu, Junjie)[2,3] ; Han, WX (Han, Wenxia)[1] ; Jiang, XY (Jiang, Xiuyun)[1] ; Xu, M (Xu, Min)[4,5] ; Zhao, Y (Zhao, Yue)[2,3] ; Dong, QZ (Dong, Qiongzhu)[2,3] ; Pang, ZF (Pang, Zengfen)[4,5] ; Guan, QB (Guan, Qingbo)[1] ; Gao, L (Gao, Ling)[1] 更多内容

ACTA DIABETOLOGICA

卷: 48 期: 1 页: 61-69

DOI: 10.1007/s00592-010-0226-0

出版年: MAR 2011

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[3] Fudan Univ, Zhongshan Hosp, Shanghai 200433, Peoples R China

[4] Shandong Prov Tumour Hosp, Jinan 250117, Peoples R China

[5] Inst Oncol, Jinan 250117, Peoples R China

电 子 邮 件 地 址 : prof.gao161@163.com; jjzhao@medmail.com.cn; drzhaolei@hotmail.com

研究方向:Endocrinology & Metabolism

Web of Science 类别:Endocrinology & Metabolism

文献信息

文献类型:Article

语种:English

入藏号: WOS:000288016800009

PubMed ID: 20857148

ISSN: 0940-5429

2.被引频次 120 (济南大学是第 1 作者和通讯作者单位, 化学化工学院)

Highly selective adsorption of lead ions by water-dispersible magnetic chitosan/graphene oxide composites

作者:Fan, LL (Fan, Lulu)[1] ; Luo, CN (Luo, Chuannan)[1] ; Sun, M (Sun, Min)[1] ; Li, XJ (Li, Xiangjun)[1] ; Qiu, HM (Qiu, Huamin)[1]

COLLOIDS AND SURFACES B-BIOINTERFACES

卷: 103 页: 523-529

DOI: 10.1016/j.colsurfb.2012.11.006

出版年: MAR 1 2013

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通讯作者地址: Luo, CN (通讯作者)

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电子邮件地址:chm_luocn@ujn.edu.cn

研究方向:Biophysics; Chemistry; Materials Science

Web of Science 类别:Biophysics; Chemistry, Physical; Materials Science, Biomaterials

文献信息

文献类型:Article

语种:English

入藏号: WOS:000315127000069

PubMed ID: 23261576 ISSN: 0927-7765

eISSN: 1873-4367 Biology & Biochemistry

3.引用频次 98 (济南大学是第 1 作者和通讯作者单位, 化学化工学院)

Adsorbent for chromium removal based on graphene oxide functionalized with magnetic cyclodextrin-chitosan

作者:Li, LL (Li, Leilei)[1] ; Fan, LL (Fan, Lulu)[1] ; Sun, M (Sun, Min)[1] ; Qiu, HM (Qiu, Huamin)[1] ; Li, XJ (Li, Xiangjun)[1] ; Duan, HM (Duan, Huimin)[1] ; Luo, CN (Luo, Chuannan)[1]

COLLOIDS AND SURFACES B-BIOINTERFACES

卷: 107 页: 76-83

DOI: 10.1016/j.colsurfb.2013.01.074

出版年: JUL 1 2013

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研究方向:Biophysics; Chemistry; Materials Science

Web of Science 类别:Biophysics; Chemistry, Physical; Materials Science, Biomaterials

文献信息

文献类型:Article

语种:English

入藏号: WOS:000318141900010

PubMed ID: 23466545

ISSN: 0927-7765

4.被引频次 70 (第 3 作者单位生命医学院附属医院山东省肿瘤医院)

Silencing of Long Noncoding RNA MALAT1 by miR-101 and miR-217 Inhibits Proliferation, Migration, and Invasion of Esophageal Squamous Cell Carcinoma Cells

作者:Wang, XY (Wang, Xinyu)[1]; Li, M (Li, Meng)[1]; Wang, ZQ (Wang, Zhiqiong)[1]; Han, SC (Han, Sichong)[1]; Tang, XH (Tang, Xiaohu)[1]; Ge, YX (Ge, Yunxia)[1]; Zhou, LQ (Zhou, Liqing)[2]; Zhou, CC (Zhou, Changchun)[3]; Yuan, QP (Yuan, Qipeng)[1]; Yang, M (Yang, Ming)[1]

JOURNAL OF BIOLOGICAL CHEMISTRY

卷: 290 期: 7 页: 3925-3935

DOI: 10.1074/jbc.M114.596866

出版年: FEB 13 2015

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研究方向:Biochemistry & Molecular Biology

Web of Science 类别:Biochemistry & Molecular Biology

文献信息

文献类型:Article 语种:English

入藏号: WOS:000349458400004 PubMed ID: 25538231

ISSN: 0021-9258

eISSN: 1083-351X

7.3.3 数学学科现状分析

数学 2017 年 9 月国内高校 ESI 排名如表-14 所示。可以看出排在前 10 位的高校分别是北京大学、复旦大学、兰州大学、哈尔滨工业大学、北京师范大学、山东大学、清华大学、上海交通大学、南开大学、浙江大学。在表-14 中，排名第 1 位的北京大学至排名第 30 位的天津工业大学，其数学进入了 ESI 的前 1% 行列。我校的数学按照 ESI 总被引频次在国内高校排名第 96 位，省内高校第 6 位。

表-14 ESI 数学国内高校排名

排名	机构名称	Web of Science 论文数	学科规范化的引文影响力	被引频次	论文被引百分比	国际合作论文
1	Peking University	1872	1.13	10176	66.77	642
2	Fudan University	1735	1.12	8883	70.03	565
3	Lanzhou University	1089	1.63	8246	74.75	204
4	Harbin Institute of Technology	1403	1.4	7833	64.93	338
5	Beijing Normal University	1614	1.18	7731	68.09	520
6	Shandong University	1705	0.99	7704	65.04	412
7	Tsinghua University	1511	1.04	7584	68.5	490
8	Shanghai Jiao Tong University	1403	1.17	7505	67.28	479
9	Nankai University	1603	1.14	7459	67.81	449
10	Zhejiang University	1749	0.9	7292	64.55	477
11	Southeast University - China	1155	1.54	7161	67.1	272
12	Shanghai University	1260	1.11	6621	67.62	298
13	University of Science & Technology of China	1368	1.07	6608	67.03	475
14	Xiamen University	1242	1.24	6386	62.64	335
15	Sun Yat Sen University	1304	1.06	6223	69.25	367
16	East China Normal University	1539	0.94	6125	66.99	460
17	Central South University	1141	1.67	5877	68.8	176
18	Nanjing University	1252	1.05	5848	66.05	288
19	Xi'an Jiaotong University	1072	1.15	5773	68.19	262
20	Shanghai Normal University	978	1.12	5590	67.28	348
21	South China Normal University	1239	0.91	5512	66.91	177

22	Dalian University of Technology	1323	0.85	5298	63.79	245
23	Wuhan University	1155	1.02	4778	67.1	286
24	Huazhong University of Science & Technology	918	1.21	4727	69.39	200
25	Sichuan University	1146	0.85	4606	64.05	257
26	Zhejiang Normal University	938	1.08	4343	65.14	226
27	Donghua University	437	1.96	4286	71.62	91
28	Xiangtan University	475	2.4	4192	71.58	111
29	Chongqing University	922	1.14	4125	65.62	115
30	Tianjin Polytechnic University	634	1.46	4025	63.72	294
31	Beijing Institute of Technology	870	1.05	3871	65.75	245
32	Qufu Normal University	725	1.15	3858	65.66	171
33	Hunan University	809	1.05	3806	64.03	137
34	Suzhou University	925	0.95	3745	65.3	203
35	Northeast Normal University - China	715	1.47	3676	64.2	196
36	Nanjing Normal University	1033	0.76	3667	57.41	155
37	South China University of Technology	644	1.23	3529	63.82	153
38	Jilin University	1007	0.88	3521	59.78	165
39	Tongji University	929	1.02	3453	63.4	175
40	Jiangnan University	249	2.51	3387	63.86	44
41	University of Electronic Science & Technology of China	695	1.31	3124	64.89	136
42	Central China Normal University	793	1.08	3051	65.32	235
43	Southwest University - China	703	1.2	3048	58.32	156
44	Capital Normal University	642	0.96	2893	62.15	199
45	Beihang University	726	1.08	2817	61.98	167
46	China University of Mining & Technology	721	1.67	2660	57.42	100
47	Fuzhou University	441	1.25	2638	68.25	73
48	Henan Polytech University	530	1.35	2463	70.19	125
49	Anhui University	480	1.44	2462	70.21	66
50	Beijing University of Technology	562	0.87	2390	58.72	111
51	Yunnan University	543	1.19	2284	66.11	84
52	Beijing Jiaotong University	604	1.12	2275	59.44	166
53	Jiangsu Normal University	592	0.88	2273	62.67	135
54	Xinjiang University	560	0.85	2236	60.54	95
55	Henan Normal University	643	0.86	2213	56.77	80
56	Nanjing University of Aeronautics & Astronautics	662	0.91	2209	58.91	125
57	Hunan Normal University	610	0.76	2144	62.79	140

58	Nanjing University of Science & Technology	421	1.33	2072	63.18	99
59	Northwest Normal University – China	577	0.79	2031	58.23	35
60	Jiangsu University	367	1.31	1988	64.31	51
61	North China Electric Power University	364	1.04	1974	64.01	104
62	Shanxi University	486	1.03	1938	58.44	162
63	Shantou University	287	1.18	1922	65.85	65
64	Tianjin University	649	0.92	1881	58.24	122
65	Zhengzhou University	473	0.92	1863	65.33	57
66	Shaanxi Normal University	439	0.9	1856	60.14	75
67	University of Chinese Academy of Sciences	468	0.88	1766	60.47	83
68	Changsha University of Science & Technology	344	1.13	1730	65.7	66
69	Huzhou University	291	1.38	1700	74.91	34
70	Nanjing University of Information Science & Technology	392	1.2	1685	66.84	83
71	Shanghai University of Finance & Economics	440	1.05	1666	56.59	200
72	Northeastern University – China	368	1.26	1628	59.51	115
73	Shandong University of Science & Technology	267	1.87	1612	73.78	29
74	Xidian University	462	0.91	1607	58.44	68
75	Yunnan Normal University	236	1.69	1592	65.68	37
76	Renmin University of China	463	0.97	1555	57.88	160
77	Guangzhou University	369	0.82	1552	55.56	63
78	Hangzhou Normal University	424	0.88	1542	62.26	118
79	Hohai University	436	1.06	1518	55.05	83
80	University of Science & Technology Beijing	248	1.36	1514	70.16	61
81	Chongqing Normal University	377	0.96	1502	56.5	86
82	China University of Petroleum	415	0.9	1454	58.55	64
83	Fujian Normal University	485	0.79	1424	60.82	71
84	East China University of Science & Technology	350	0.99	1405	60.57	76
85	Guizhou University	200	2.86	1402	66.5	47
86	Harbin Normal University	219	1.11	1394	69.41	63
87	Beijing University of Posts & Telecommunications	293	1.56	1392	63.14	52
88	Yangzhou University	408	0.91	1374	57.35	79

89	Anhui Normal University	308	1.01	1347	66.23	42
90	Henan University	378	0.78	1295	58.47	63
91	Changshu Institute of Technology	203	1.42	1289	71.43	25
92	Yantai University	260	1.38	1277	67.69	72
93	Jiaxing University	303	1.18	1267	63.37	32
94	Lanzhou Jiaotong University	227	1.07	1255	69.16	47
95	Northwest University Xi'an	354	0.76	1247	52.54	29
96	University of Jinan	284	1.18	1245	58.8	64
97	Northwestern Polytechnical University	489	1	1222	55.21	127
98	Nanchang University	360	0.82	1219	56.67	22
99	Hangzhou Dianzi University	404	0.82	1207	58.17	77
100	Guangxi University	272	0.75	1192	68.38	15

我校数学共有 2 篇高被引论文，如图-14 所示：

- POSITIVE SOLUTIONS FOR BOUNDARY VALUE PROBLEMS OF NONLINEAR FRACTIONAL DIFFERENTIAL EQUATIONS** Times Cited: 55

By: ZHAO, YG; SUN, SR; HAN, ZL; et.al
Source: APPL MATH COMPUT 217 (16): 6950-6958 APR 15 2011
Research Fields: MATHEMATICS
- LEAST SQUARE REGRESSION WITH INDEFINITE KERNELS AND COEFFICIENT REGULARIZATION** Times Cited: 45

By: SUN, HW; WU, QA;
Source: APPL COMPUT HARMONIC ANAL 30 (1): 96-109 JAN 2011
Research Fields: MATHEMATICS

图-14 济南大学数学高被引论文

详细记录：

1.被引频次 55（济南大学是第 1 作者和通讯作者单位，数学科学学院）

Positive solutions for boundary value problems of nonlinear fractional differential equations

作者:Zhao, YG (Zhao, Yige)[1] ; Sun, SR (Sun, Shurong)[1] ; Han, ZL (Han, Zhenlai)[1,2] ; Zhang, M (Zhang, Meng)[1]

APPLIED MATHEMATICS AND COMPUTATION

卷: 217 期: 16 页: 6950-6958

DOI: 10.1016/j.amc.2011.01.103

出版年: APR 15 2011

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电 子 邮 件 地 址 :zhaoeager@126.com; sshrong@163.com; hanzhenlai@163.com;
zhang123meng@163.com
研究方向:Mathematics
Web of Science 类别:Mathematics, Applied
文献信息
文献类型:Article
语种:English
入藏号: WOS:000288064600017
ISSN: 0096-3003

2.被引频次 45（济南大学是第 2 作者单位，数学科学学院）

Least square regression with indefinite kernels and coefficient regularization

作者:Sun, HW (Sun, Hongwei)[2] ; Wu, QA (Wu, Qiang)[1]

APPLIED AND COMPUTATIONAL HARMONIC ANALYSIS

卷: 30 期: 1 页: 96-109

DOI: 10.1016/j.acha.2010.04.001

出版年: JAN 2011

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文献类型:Article

语种:English

入藏号: WOS:000285223600006 ISSN: 1063-5203 eISSN: 1096-603X

7.3.4 经济学与商学学科现状分析

经济学与商学 2017 年 9 月国内高校 ESI 排名如表-15 所示。可以看出排在前 10 位的高校分别是北京大学、清华大学、西安交通大学、上海交通大学、中国人民大学、复旦大学、浙江大学、厦门大学、上海财经大学、中央财经大学。在表-15 中，排名第 1 位的北京大学、清华大学和排名第三的西安交通大学，其经济学与商学进入了 ESI 的前 1%行列。我校的经济学与商学按照 ESI 总被引频次在国内高校排名第 149 位，省内高校第 7 位。

表-15 ESI 经济学与商学国内高校排名

排名	机构名称	Web of Science 论文数	学科规范化的引文影响力	被引频次	论文被引百分比	国际合作论文
1	Peking University	944	1.29	9438	71.93	578
2	Tsinghua University	712	1.15	6188	71.91	409
3	Xi'an Jiaotong University	359	1.41	4409	72.98	155
4	Shanghai Jiao Tong University	520	1.24	3886	72.12	281
5	Renmin University of China	795	0.8	3612	64.28	446
6	Fudan University	477	0.99	2949	72.75	278
7	Zhejiang University	518	1	2790	66.41	289
8	Xiamen University	458	1.05	2723	64.63	291
9	Shanghai University of Finance & Economics	536	0.84	2697	66.23	326
10	Central University of Finance & Economics	523	0.75	2300	67.11	268
11	Sun Yat Sen University	346	1.25	2263	69.36	191
12	China Europe International Business School	201	1.57	2084	74.63	133
13	University of International Business & Economics	375	0.88	1885	64.27	211
14	University of Science & Technology of China	124	1.92	1442	75	42
15	Nankai University	223	1.12	1399	68.61	131
16	Nanjing University	271	0.88	1343	65.31	116
17	South Western University of Finance & Economics - China	400	0.81	1279	56.75	245
18	Huazhong University of Science & Technology	236	1.3	1270	64.41	85
19	Wuhan University	292	0.81	1171	62.33	133
20	University of Chinese Academy of Sciences	105	1.25	1098	71.43	52
21	Beijing Normal University	211	0.83	1026	63.03	99
22	Shandong University	132	0.87	877	60.61	65
23	Nanjing University of Aeronautics & Astronautics	53	2.65	815	77.36	24
24	University of Nottingham Ningbo China	140	1.28	792	72.14	103
25	Tongji University	141	1.31	769	70.21	90

26	North China Electric Power University	31	2.39	749	74.19	9
27	Dalian University of Technology	57	1.86	691	73.68	36
28	South China University of Technology	125	1.18	644	69.6	34
29	Southeast University – China	93	1.2	625	59.14	35
30	China Agricultural University	125	0.73	599	72	68
31	Beijing Institute of Technology	103	2	583	76.7	52
32	Beihang University	131	0.72	554	63.36	51
33	Harbin Institute of Technology	136	0.9	512	63.24	60
34	Beijing Jiaotong University	83	1.36	504	71.08	50
35	Jinan University	148	0.81	483	54.73	63
36	University of Electronic Science & Technology of China	80	0.99	480	58.75	52
37	Jiangxi University of Finance & Economics	120	1.21	479	56.67	91
38	Sichuan University	99	1.33	472	66.67	55
39	Hunan University	191	1	451	58.12	84
40	Central South University	69	2.54	440	62.32	22
41	East China University of Science & Technology	97	1.21	414	65.98	54
42	Jilin University	72	0.93	413	69.44	45
43	Northeastern University – China	49	1.22	399	85.71	27
44	Nanjing Agricultural University	66	0.99	385	71.21	50
45	Suzhou University	72	1.34	372	72.22	37
46	Tianjin University	112	0.93	335	53.57	37
47	East China Normal University	72	1.03	331	63.89	43
48	Lanzhou University	23	2.03	321	82.61	10
49	Shandong University of Finance & Economics	29	1.73	308	79.31	10
50	Zhejiang Gongshang University	54	1.22	307	66.67	20
51	Zhejiang Sci-Tech University	19	2.28	300	84.21	7
52	Shanghai University	93	0.89	297	59.14	42
53	Zhongnan University of Economics & Law	109	0.49	288	42.2	63
54	Shenzhen University	67	1	287	71.64	31

55	Chongqing University	102	0.65	284	55.88	52
56	Capital University of Economics & Business	98	0.79	280	47.96	68
57	Southwest Jiaotong University	54	1.01	269	57.41	22
58	University of Science & Technology Beijing	40	1.25	261	70	21
59	Beijing Forestry University	25	0.88	218	80	11
60	Northwestern Polytechnical University	48	1.98	200	72.92	19
61	Beijing University of Posts & Telecommunications	26	1.17	184	65.38	17
62	Suzhou University of Science & Technology	11	1.84	179	90.91	1
63	Nanjing University of Finance & Economics	34	0.89	179	52.94	18
64	Yunnan University of Finance & Economics	29	0.72	171	68.97	22
65	China University of Mining & Technology	35	1.04	169	60	17
66	North China University of Science & Technology	1	8.44	169	100	1
67	Ningbo University	11	1.94	168	63.64	5
68	Henan Agricultural University	15	1.07	163	86.67	12
69	Zhejiang University of Technology	25	1.23	158	68	15
70	Dongbei University of Finance & Economics	57	0.94	153	50.88	34
71	Zhejiang University of Finance & Economics	55	0.94	149	50.91	13
72	Fuzhou University	22	1.9	148	63.64	8
73	Northwest A&F University - China	32	0.87	141	75	25
74	Liaocheng University	6	3.8	139	83.33	2
75	Beijing University of Chemical Technology	18	1.85	136	55.56	1
76	Anhui University	11	2.65	130	90.91	7
77	Ocean University of China	54	0.87	125	57.41	41
78	Nanjing Normal University	14	2.02	121	78.57	4
79	South China Agricultural University	28	1.23	121	75	9
80	Shenyang Aerospace	2	2.9	116	50	1

	University					
81	Beijing Technology & Business University	24	0.74	111	58.33	12
82	Wuhan University of Technology	27	0.76	108	62.96	13
83	Southwest University – China	22	1.03	104	63.64	9
84	Xidian University	23	1.09	104	60.87	11
85	Hangzhou Dianzi University	27	0.73	99	40.74	9
86	Hohai University	30	0.91	93	73.33	14
87	Guangdong University of Technology	25	1.86	92	60	12
88	Anhui University of Finance & Economics	26	0.79	89	76.92	10
89	Shanxi University	18	1.06	84	66.67	9
90	Northwest University Xi'an	25	0.6	82	64	17
91	Dalian Maritime University	21	0.54	80	71.43	14
92	University Town of Shenzhen	17	0.88	80	82.35	10
93	East China University of Technology	4	4.26	78	100	3
94	Inner Mongolia Agricultural University	5	1.14	76	80	5
95	Hefei University of Technology	23	1.28	74	60.87	14
96	China University of Geosciences	26	0.54	73	42.31	12
97	Xi'an University of Technology	9	0.94	70	55.56	6
98	South China Normal University	37	0.54	69	59.46	18
99	University of Shanghai for Science & Technology	13	1.11	69	61.54	5
100	Shanghai Lixin University of Commerce	27	1.04	69	62.96	20
101	Jiangnan University	20	1.43	66	70	8
102	Shanghai Maritime University	16	1.14	63	75	11
103	Huazhong Agricultural University	33	0.56	62	51.52	21
104	Qufu Normal University	11	1.19	62	81.82	1
105	Shanghai Finance University	16	0.94	60	87.5	9
106	Shanghai Second Polytech University	7	1.85	60	100	6
107	Northeast Normal University – China	24	0.41	59	45.83	5
108	Gansu Agricultural	1	5.31	58	100	1

	University					
109	Anhui Jianzhu University	3	2.48	57	100	1
110	Hebei University of Science & Technology	5	1.49	56	100	4
111	Zhejiang Normal University	13	1.12	53	69.23	2
112	Shanghai University of International Business & Economics	28	0.39	53	50	17
113	Lanzhou University of Finance & Economics	3	1.56	52	100	0
114	Henan University	50	0.49	49	32	34
115	Hainan University	11	0.64	48	72.73	7
116	Shaoxing University	10	0.67	48	50	0
117	Huaqiao University	26	0.5	46	38.46	13
118	Donghua University	19	0.79	45	57.89	5
119	Southwest University for Nationalities - China	7	1.75	43	71.43	2
120	China University of Petroleum	22	1.27	42	36.36	12
121	Central South University of Forestry & Technology	2	1.25	42	100	0
122	Central China Normal University	15	0.91	41	66.67	3
123	Chang'an University	3	1.27	40	66.67	2
124	Kunming University of Science & Technology	9	1.48	39	66.67	5
125	Xiangtan University	7	0.69	39	57.14	5
126	Jiangsu University of Science & Technology	8	1.36	37	75	4
127	Lanzhou Jiaotong University	4	2.94	37	75	0
128	Nanjing University of Technology	9	0.66	37	33.33	3
129	Xinjiang University	6	0.97	37	100	4
130	Beijing International Studies University	8	0.45	36	37.5	7
131	Guangzhou University	10	1.07	36	80	6
132	Inner Mongolia University	7	0.54	36	71.43	6
133	Shantou University	20	0.44	36	50	9
134	Zhejiang University City College	6	0.9	36	83.33	3
135	Beijing Institute of Petrochemical Technology	6	0.65	35	83.33	1
136	Fujian Normal University	12	0.44	35	58.33	8
137	Xi'an University of Finance &	17	1.81	35	47.06	7

	Economics					
138	Beijing Normal University Zhuhai	16	0.82	34	56.25	12
139	Nanjing University of Science & Technology	21	1.5	34	61.9	6
140	Guangdong University of Finance & Economics	14	0.59	34	64.29	4
141	Changsha University of Science & Technology	9	1.14	33	55.56	1
142	Hunan Normal University	15	0.83	33	60	4
143	Nanjing University of Information Science & Technology	17	1.14	33	52.94	11
144	Chongqing Technology & Business University	11	0.84	32	45.45	4
145	Shanxi University Finance & Economics	15	0.54	32	60	13
146	PLA University of Science & Technology	6	1.04	30	66.67	0
147	Hebei University of Technology	8	0.66	29	50	5
148	Henan University of Technology	2	0.72	29	50	2
149	University of Jinan	21	1.09	28	71.43	16
150	Nanchang University	12	0.84	27	50	4

我校经济学与商学有 1 篇高被引论文，如图-15 所示：

1	THE EFFECT OF PARENTAL ABSENCE ON CHILD DEVELOPMENT IN RURAL CHINA	Times Cited: 3
	By: WU, J; ZHANG, JS;	
	Source: ASIAN ECON POLICY REV 12 (1): 117-134 JAN 2017	
	Research Fields: ECONOMICS & BUSINESS	

图-15 济南大学经济学与商学高被引论文

详细记录：

1.被引频次 3（济南大学是第一作者单位，归于商学院）

The Effect of Parental Absence on Child Development in Rural China

作者:Wu, J (Wu, Jia)[1] ; Zhang, JS (Zhang, Junsen)[2]

ASIAN ECONOMIC POLICY REVIEW

卷: 12 期: 1 页: 117-134

DOI: 10.1111/aepr.12166

出版年: JAN 2017

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文献类型:Article

语种:English

入藏号: WOS:000396711800014

ISSN: 1832-8105

eISSN: 1748-3131

7.3.5 农业科学学科现状分析

农业科学 2017 年 9 月国内高校 ESI 排名如表-16 所示。可以看出排在前 10 位的高校分别是中国农业大学、浙江大学、南京农业大学、江南大学、中国科学院大学、西北农林科技大学、华南理工大学、华中农业大学、南昌大学和上海交通大学。在表-16 中,排名第 1 位的中国农业大学至排名第 46 的哈尔滨工业大学,其农业科学进入了 ESI 的前 1%行列。我校的农业科学按照 ESI 总被引频次在国内高校排名第 129 位,省内高校第 8 位。

表-16 ESI 农业科学国内高校排名

排名	机构名称	Web of Science 论文数	学科规范化的引文影响力	被引频次	论文被引百分比	国际合作论文
1	China Agricultural University	4189	1.33	43289	80.21	1618
2	Zhejiang University	2377	1.36	26447	82.92	682
3	Nanjing Agricultural University	2407	1.35	23337	80.31	615
4	Jiangnan University	2132	1.49	21832	81	717
5	University of Chinese Academy of Sciences	1956	1.48	21167	82	647

6	Northwest A&F University – China	2309	1.27	18716	76.74	827
7	South China University of Technology	1284	1.95	15450	84.11	342
8	Huazhong Agricultural University	1550	1.27	13353	82.06	372
9	Nanchang University	631	1.97	7006	80.82	228
10	Shanghai Jiao Tong University	703	1.28	6018	79.66	277
11	Shandong Agricultural University	712	1	5312	79.07	112
12	South China Agricultural University	844	0.9	5260	71.56	255
13	Beijing Normal University	449	1.58	5104	83.3	167
14	Lanzhou University	464	1.4	5087	84.91	194
15	Peking University	370	1.55	4618	85.41	143
16	Sun Yat Sen University	402	1.51	4599	83.83	70
17	Northeast Agricultural University – China	709	0.95	4487	71.65	147
18	Beijing Forestry University	494	1.35	4370	77.94	165
19	Jilin University	437	1.39	4368	74.6	111
20	Ocean University of China	410	1.4	4145	78.05	109
21	Yangzhou University	503	1.25	4000	74.95	116
22	Sichuan University	368	1.25	3877	80.16	73
23	Tianjin University Science & Technology	472	1.38	3716	76.27	153
24	Sichuan Agricultural University	635	0.91	3509	69.45	142
25	Jiangsu University	471	1.34	3471	73.25	126
26	Southwest University – China	538	1.09	3312	73.42	130
27	Nankai University	237	1.58	3223	90.3	54
28	Hunan Agricultural University	346	1.15	3063	71.97	113
29	Shaanxi Normal University	246	1.74	2983	76.83	61
30	Tianjin University	255	1.49	2949	81.96	33
31	Wuhan University	248	1.56	2943	83.06	58
32	Nanjing University	265	1.37	2663	84.53	64
33	Zhejiang Gongshang University	271	1.62	2597	82.29	63
34	Nanjing Normal University	260	1.4	2563	80.77	76
35	Zhejiang Academy of Agricultural Sciences	348	0.97	2490	79.89	107
36	Hebei Agricultural University	279	0.96	2457	69.89	141
37	Huazhong University of Science & Technology	233	1.42	2333	83.69	58
38	Shandong University	189	1.43	2301	85.19	30

39	Northeast Forestry University - China	236	1.51	2283	82.2	67
40	Jinan University	322	1.49	2279	72.05	80
41	Guangxi University	279	1.14	2259	74.19	50
42	Fudan University	208	1.58	2257	87.98	94
43	Henan Agricultural University	340	1.01	2224	73.24	89
44	Xiamen University	178	1.63	2157	83.15	53
45	Inner Mongolia Agricultural University	268	0.99	2135	73.88	179
46	Harbin Institute of Technology	216	1.25	2127	82.87	85
47	Fujian Agriculture & Forestry University	380	1.18	1968	72.63	128
48	Shenyang Agricultural University	444	0.84	1945	66.44	113
49	Jiangsu Academy of Agricultural Sciences	325	0.95	1931	70.46	79
50	Qingdao Agricultural University	298	1.09	1921	70.47	79
51	Henan University of Technology	255	1.45	1899	80.78	40
52	Zhejiang University of Technology	194	1.42	1877	81.44	33
53	East China University of Science & Technology	181	1.35	1828	82.87	29
54	Shanghai Ocean University	197	1.5	1769	74.62	74
55	Gansu Agricultural University	245	0.95	1708	71.84	92
56	Anhui Agricultural University	283	1	1656	67.49	74
57	Zhejiang A&F University	261	1.08	1617	76.25	99
58	Henan Institute of Science & Technology	189	0.89	1598	69.84	34
59	Central South University	128	2.49	1555	82.03	32
60	China Pharmaceutical University	125	1.51	1441	87.2	20
61	Tsinghua University	154	1.73	1400	84.42	58
62	Hefei University of Technology	194	1.73	1328	73.2	24
63	Beijing Technology & Business University	215	1.07	1318	60	61
64	Shihezi University	192	1.02	1316	66.67	33
65	Henan University of Science & Technology	170	0.97	1307	70.59	27
66	Shanghai Normal University	72	2.08	1235	86.11	20
67	Shanxi University	117	1.3	1214	82.05	70
68	Kunming University of Science & Technology	124	1.31	1176	75.81	24

69	Suzhou University	172	1.26	1148	72.67	52
70	Nanjing Forestry University	186	0.96	1130	70.43	70
71	Jiangsu Normal University	63	1.7	1107	80.95	10
72	Northeast Normal University - China	111	1.06	1092	80.18	26
73	Nanjing University of Finance & Economics	122	1.84	1084	75.41	51
74	Shenyang Pharmaceutical University	106	1.41	1060	82.08	18
75	Guizhou University	107	1.09	1035	62.62	18
76	Jiangxi Agricultural University	178	1.15	1016	73.03	45
77	Yangtze University	152	1.31	1008	72.37	59
78	Dalian University of Technology	70	1.22	998	74.29	27
79	Yunnan Agricultural University	163	0.91	994	75.46	53
80	Wuhan Polytechnic University	138	1.69	961	77.54	53
81	Fuzhou University	117	1.22	960	79.49	19
82	East China Normal University	87	1.45	951	86.21	28
83	Central China Normal University	79	1.75	942	83.54	4
84	Tongji University	79	1.41	930	84.81	18
85	Ningbo University	145	1.18	920	70.34	18
86	Harbin Medical University	90	1.26	908	83.33	26
87	China University of Geosciences	95	1.23	908	67.37	30
88	Nanjing University of Information Science & Technology	127	1.47	905	78.74	57
89	Beijing University of Chemical Technology	104	1.4	895	87.5	36
90	Hohai University	208	0.87	870	66.83	63
91	Fourth Military Medical University	53	2.03	861	92.45	7
92	Jimei University	119	1.15	857	84.87	47
93	Jilin Agricultural University	167	0.88	813	68.26	36
94	Yunnan University	89	1.16	796	83.15	24
95	Hebei University	77	1.66	773	83.12	30
96	Northwest University Xi'an	110	1.18	770	78.18	21
97	Dalian Polytechnic University	121	1.04	756	61.98	64
98	Hubei University of Technology	135	1.37	755	68.15	64
99	Capital Normal University	80	1.02	740	81.25	36
100	Hangzhou Normal University	98	1.62	735	79.59	27

101	Xi'an Jiaotong University	108	1.59	720	67.59	27
102	Bohai University	100	1.55	704	76	19
103	Fujian Normal University	66	1.58	704	83.33	30
104	Xinjiang Agricultural University	93	1.22	698	75.27	33
105	South China Normal University	68	1.35	686	85.29	11
106	Huaihai Institute of Technology	59	1.51	683	69.49	10
107	Central South University of Forestry & Technology	113	1.01	683	78.76	46
108	Guangdong Ocean University	95	0.85	661	69.47	17
109	Hainan University	144	1.12	661	63.19	29
110	Shanxi Agricultural University	148	0.72	656	55.41	114
111	Capital Medical University	72	1.24	654	81.94	18
112	Yantai University	69	1.37	641	79.71	6
113	Shanghai University	71	1.03	639	78.87	8
114	Zhejiang Normal University	69	1.19	638	85.51	9
115	Shanghai University of Traditional Chinese Medicine	45	1.72	633	86.67	12
116	Zhengzhou University	90	1.14	624	70	14
117	Southeast University - China	64	1.3	615	76.56	21
118	Shandong University of Technology	71	1.26	612	78.87	13
119	Shanghai Institute of Technology	100	1.25	609	69	38
120	Shanxi Normal University	59	1.77	599	74.58	26
121	Southern Medical University - China	74	1.77	595	74.32	14
122	Dalian Ocean University	28	2	591	67.86	13
123	Hunan Normal University	42	1.26	578	76.19	9
124	Hebei University of Science & Technology	70	1.38	577	80	55
125	Renmin University of China	71	0.99	570	71.83	42
126	Dalian Medical University	52	1.89	557	80.77	10
127	Wenzhou Medical University	39	1.71	552	76.92	14
128	Ludong University	62	1.11	551	77.42	12
129	University of Jinan	47	1.73	531	72.34	9
130	Nanjing University of Chinese Medicine	61	1.36	519	81.97	5

我校农业科学有 2 篇高被引论文，如图-16 所示：

1	BAICALEIN PROTECTS AGAINST 6-OHDA-INDUCED NEUROTOXICITY THROUGH ACTIVATION OF KEAP1/NRF2/HO-1 AND INVOLVING PKC ALPHA AND PI3K/AKT SIGNALING PATHWAYS By: ZHANG, ZJ; CUI, W; LI, GH; et.al Source: J AGR FOOD CHEM 60 (33): 8171-8182 AUG 22 2012 Research Fields: AGRICULTURAL SCIENCES	Times Cited: 64
2	SPATIAL DISTRIBUTION, ECOLOGICAL RISK ASSESSMENT AND SOURCE IDENTIFICATION FOR HEAVY METALS IN SURFACE SEDIMENTS FROM DONGPING LAKE, SHANDONG, EAST CHINA By: WANG, YQ; YANG, LY; KONG, LH; et.al Source: CATENA 125: 200-205 FEB 2015 Research Fields: AGRICULTURAL SCIENCES	Times Cited: 21 Research Front

图-16 济南大学农业科学高被引论文

详细记录：

1.被引频次 64（非济南大学文章）

Baicalein Protects against 6-OHDA-Induced Neurotoxicity through Activation of Keap1/Nrf2/HO-1 and Involving PKC alpha and PI3K/AKT Signaling Pathways

作者:Zhang, ZJ (Zhang, Zaijun)[2,3,4] ; Cui, W (Cui, Wei)[1] ; Li, GH (Li, Guohui)[5] ; Yuan, S (Yuan, Shuai)[2,3] ; Xu, DP (Xu, Daping)[2,3] ; Hoi, MPM (Hoi, Maggie P. M.)[2,3] ; Lin, ZX (Lin, Zhixiu)[6] ; Dou, J (Dou, Juan)[7,8,9] ; Han, YF (Han, Yifan)[1] ; Lee, SMY (Lee, Simon M. Y.)[2,3]

JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY

卷: 60 期: 33 页: 8171-8182

DOI: 10.1021/jf301511m

出版年: AUG 22 2012

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文献类型:Article
语种:English
入藏号: WOS:000307698900014
PubMed ID: 22838648
ISSN: 0021-8561

2.被引频次 21（济南大学是第 1 作者和通讯作者单位，资源与环境学院）

Spatial distribution, ecological risk assessment and source identification for heavy metals in surface sediments from Dongping Lake, Shandong, East China

作者:Wang, YQ (Wang, Yunqian)[1] ; Yang, LY (Yang, Liyuan)[1] ; Kong, LH (Kong, Linghao)[2] ; Liu, EF (Liu, Enfeng)[3] ; Wang, LF (Wang, Longfeng)[1] ; Zhu, JR (Zhu, Jingru)[1]

CATENA 卷: 125 页: 200-205
DOI: 10.1016/j.catena.2014.10.023

出版年: FEB 2015

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文献类型:Article

语种:English

入藏号: WOS:000346398600020

ISSN: 0341-8162 eISSN: 1872-6887

7.3.6 环境科学与生态学学科现状分析

环境科学与生态学 2017 年 9 月国内高校 ESI 排名如表-17 所示。可以看出排在前 10 位的高校分别是中国科学院大学、北京大学、清华大学、浙江大学、北京师范大学、南京大学、同济大学、哈尔滨工业大学、南开大学和中山大学。在表-17 中，排名第 1 位的中国科学院大学至排名第 33 的华南理工大学，其环境科学与生态学进入了 ESI 的前 1%行列。我校的环境科学与生态学按照 ESI 总被引频次在国内高校排名第 116 位，省内高校第 7 位。

表-17 ESI 环境科学与生态学国内高校排名

排名	机构名称	Web of Science 论文数	学科规范化的引文影响力	被引频次	论文被引百分比	国际合作论文
1	University of Chinese Academy of Sciences	5569	0.94	53651	78.08	1563
2	Peking University	2181	1.37	32883	84.55	1026
3	Tsinghua University	2278	1.35	28895	81.78	847
4	Zhejiang University	2097	1.22	27638	81.83	765
5	Beijing Normal University	2384	1.12	24429	81.08	853
6	Nanjing University	2100	1.15	22708	82.71	819
7	Tongji University	1627	1.11	17538	78.8	492
8	Harbin Institute of Technology	1087	1.27	14158	79.02	331
9	Nankai University	812	1.42	13390	82.88	245
10	Sun Yat Sen University	1142	1.2	13325	81.26	385
11	China Agricultural University	1089	1.08	11800	78.97	517
12	Fudan University	840	1.35	11120	80.6	364
13	Shanghai Jiao Tong University	875	0.98	10182	80.46	286
14	Nanjing Agricultural University	790	1.23	9673	78.61	255
15	Ocean University of China	1119	0.89	9375	76.59	265
16	Dalian University of Technology	626	1.17	9174	79.39	164
17	East China Normal University	711	1.11	8598	78.34	305
18	Lanzhou University	875	0.94	8166	80.57	337
19	China University of Geosciences	1165	0.8	7856	73.39	487
20	Xiamen University	789	0.91	7665	78.96	269
21	University of Science & Technology of China	501	1.38	7180	83.63	152
22	Shandong University	662	1.14	6704	78.1	168
23	Hohai University	1124	0.72	6700	67.79	392
24	Northwest A&F University - China	946	1.12	6631	73.04	368
25	Wuhan University	819	0.84	6184	73.99	259
26	Hunan University	403	1.54	5245	78.41	93
27	Zhejiang University of Technology	393	1.08	4983	77.86	93
28	Beijing Forestry University	728	0.81	4835	73.35	257
29	Huazhong University of Science & Technology	495	1.04	4798	75.56	116
30	University Town of Shenzhen	470	1.09	4778	80.43	134
31	Huazhong Agricultural	559	0.94	4279	73.52	225

	University					
32	North China Electric Power University	437	1.36	3939	73	198
33	South China University of Technology	494	0.89	3906	75.1	137
34	Jinan University	463	1.08	3713	71.06	142
35	Shanghai University	298	1.13	3624	76.51	58
36	Beijing University of Technology	326	0.98	3239	74.23	97
37	South China Agricultural University	343	0.85	2929	75.51	148
38	Nanjing Normal University	423	0.82	2855	77.3	97
39	Nanjing University of Information Science & Technology	480	1.18	2747	68.75	210
40	Southeast University - China	356	0.77	2747	65.73	73
41	Sichuan University	547	0.63	2577	68.56	154
42	Central South University	327	1.51	2493	72.48	118
43	Northeast Normal University - China	353	0.78	2479	75.64	118
44	Chongqing University	423	0.88	2456	66.67	144
45	Tianjin University	438	0.85	2358	69.86	112
46	University of Science & Technology Beijing	314	0.75	2352	73.89	89
47	East China University of Science & Technology	296	0.93	2259	79.05	57
48	China University of Mining & Technology	519	0.63	2186	67.24	138
49	Xi'an Jiaotong University	305	0.89	2158	67.21	126
50	Guangdong University of Technology	148	1.3	2132	62.84	34
51	Dalian Maritime University	131	1.3	2114	84.73	49
52	Southwest University - China	332	0.71	2060	67.77	116
53	Jilin University	447	0.56	1988	64.21	109
54	Zhejiang A&F University	186	1.57	1963	78.49	101
55	Yunnan University	232	0.64	1812	80.6	83
56	Shanxi University	237	0.88	1790	76.79	125
57	Central China Normal University	124	1.23	1775	80.65	19
58	Kunming University of Science & Technology	195	1.02	1740	69.74	56
59	Shandong Agricultural University	156	1.17	1717	78.21	36
60	Henan Normal University	174	0.95	1673	72.99	19

61	Donghua University	177	1.16	1643	79.1	51
62	Wuhan University of Technology	134	1.22	1641	66.42	36
63	Shantou University	107	1.57	1607	85.05	33
64	Zhengzhou University	185	0.7	1604	67.57	45
65	Inner Mongolia University	153	0.89	1581	77.12	117
66	Xi'an University of Architecture & Technology	266	0.73	1536	68.42	65
67	South China Normal University	213	0.84	1533	79.34	71
68	Beijing University of Chemical Technology	166	1.01	1438	71.08	39
69	Hunan Agricultural University	171	1.2	1438	69.01	34
70	Sichuan Agricultural University	245	0.86	1438	69.8	56
71	Yangzhou University	123	1	1417	69.92	37
72	Northeast Forestry University - China	184	0.86	1407	70.65	63
73	Shanghai Ocean University	250	0.59	1366	75.6	94
74	Northeast Agricultural University - China	187	1.14	1329	67.91	39
75	Fujian Normal University	131	1.07	1290	64.89	72
76	Hefei University of Technology	199	0.78	1280	68.34	77
77	Nanjing Forestry University	210	0.72	1262	63.81	83
78	China University of Petroleum	230	0.69	1245	64.78	71
79	Renmin University of China	191	0.98	1232	75.92	65
80	Shanghai Normal University	82	1.31	1219	73.17	35
81	China Medical University	120	0.87	1192	76.67	42
82	Jiangnan University	178	0.77	1157	71.91	29
83	Shaanxi Normal University	193	0.8	1153	64.77	43
84	Fuzhou University	84	1.19	1152	67.86	38
85	Suzhou University	179	1.56	1118	73.18	48
86	Anhui Normal University	160	0.5	1088	76.25	30
87	Hangzhou Normal University	134	0.81	1062	70.9	40
88	Qingdao University of Science & Technology	113	0.69	1045	77.88	22
89	Beijing Institute of Technology	131	1.27	1043	80.15	38
90	Nanjing Medical University	114	0.73	1040	73.68	32
91	Guilin University of Technology	125	0.7	1009	65.6	26
92	Wenzhou Medical University	109	0.88	989	80.73	48
93	Hebei Agricultural University	89	0.93	959	74.16	56
94	Shenzhen University	115	1.33	956	73.91	50
95	Guangxi University	190	0.61	937	65.79	60
96	Capital Normal University	155	0.68	931	73.55	51
97	Xinjiang University	137	0.89	931	73.72	39
98	Beihang University	147	0.92	909	74.83	27

99	Zhejiang Gongshang University	156	0.93	909	76.92	29
100	Chang'an University	205	1.13	890	66.34	71
101	Nanjing University of Technology	114	1.1	874	77.19	30
102	Henan University	133	0.81	873	69.92	52
103	Zhejiang Normal University	91	1.08	867	74.73	26
104	Chengdu University of Technology	174	0.43	862	55.75	41
105	Inner Mongolia Agricultural University	133	0.58	849	68.42	112
106	Northwest Normal University - China	90	0.72	822	73.33	19
107	Hebei University	79	0.67	820	79.75	48
108	Nanchang University	136	0.58	817	72.79	50
109	Central South University of Forestry & Technology	86	0.99	772	72.09	47
110	Qingdao Agricultural University	119	0.83	769	71.43	32
111	Capital Medical University	119	0.8	760	70.59	35
112	Tianjin University Science & Technology	82	1	757	76.83	22
113	Southern Medical University - China	77	1.03	755	77.92	22
114	Jiangsu University	196	0.74	738	61.22	32
115	Anhui Agricultural University	111	1	736	71.17	40
116	University of Jinan	114	0.82	729	76.32	27
117	Second Military Medical University	69	0.51	675	81.16	11
118	Tianjin Normal University	125	0.78	674	70.4	47
119	Ningbo University	98	0.86	659	64.29	15
120	Northwest University Xi'an	140	0.62	652	70	52

我校环境科学与生态学有 1 篇高被引论文，如图-17 所示：

1

CE-TI AMORPHOUS OXIDES FOR SELECTIVE CATALYTIC REDUCTION OF NO WITH NH₃: CONFIRMATION OF CE-O-TI ACTIVE SITES
By: LI, P; XIN, Y; LI, Q; et al
Source: ENVIRON SCI TECHNOL 46 (17): 9600-9605 SEP 4 2012
Research Fields: ENVIRONMENT/ECOLOG

Times Cited: 104
 Research Front

图-17 济南大学环境科学与生态学高被引论文

详细记录：

1.被引频次 104（济南大学是第 1 作者和通讯作者单位，化学化工学院）

Ce-Ti Amorphous Oxides for Selective Catalytic Reduction of NO with NH₃: Confirmation of Ce-O-Ti Active Sites

作者:Li, P (Li, Ping)[1] ; Xin, Y (Xin, Ying)[1] ; Li, Q (Li, Qian)[1] ; Wang, ZP (Wang, Zhongpeng)[1] ; Zhang, ZL (Zhang, Zhaoliang)[1] ; Zheng, LR (Zheng, Lirong)[2]

ENVIRONMENTAL SCIENCE & TECHNOLOGY 卷: 46 期: 17 页: 9600-9605

DOI: 10.1021/es301661r

出版年: SEP 4 2012

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文献类型:Article

语种:English

入藏号: WOS:000308260700048

PubMed ID: 22888951

ISSN: 0013-936X