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济南大学 ESI 学科 分析报告

2006-2016

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。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 2016 年 09 月 23 日更新的内容。）

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 2006-2016 年的 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 学科的贡献度。

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：生物学与生物化学、化学、计算机科学、经济与商业、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 个学科，包括化学、临床医学、材料科学、工程学。未进入前 1% 学科的有 3 个学科，包括物理、生物和生物化学、数学。

2 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 2006-今,科研高产出的学科分布在化学、临床医学、材料科学、物理学、工程学和生物学与生物化学等学科,如图-1 所示。

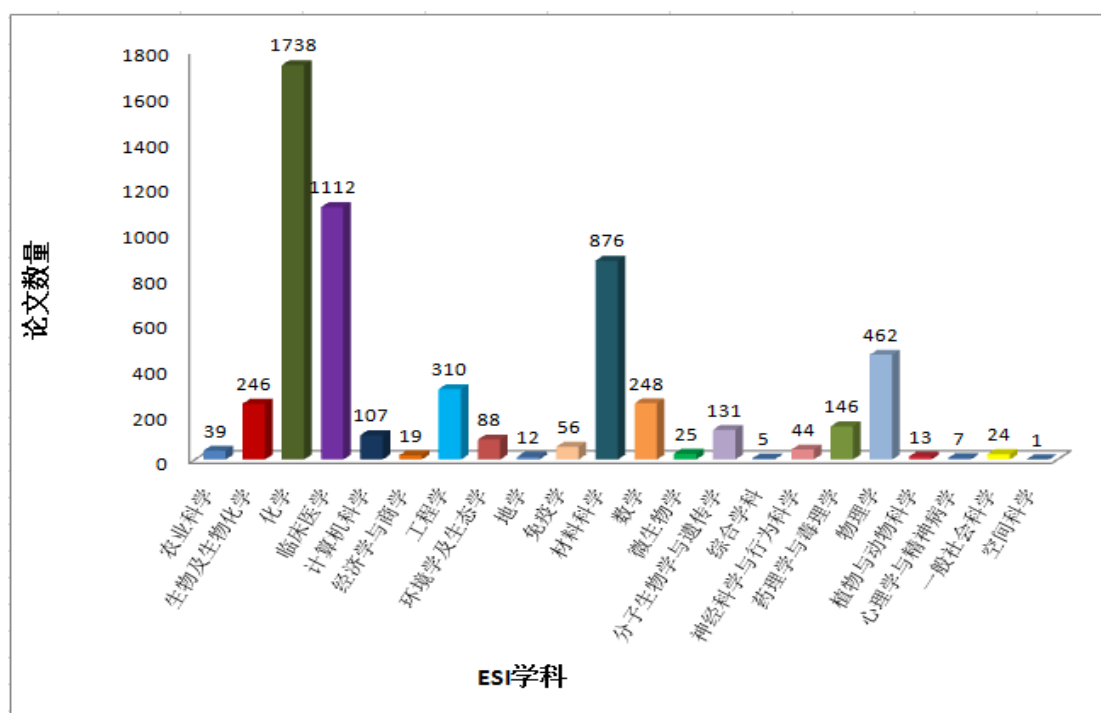


图-1 济南大学各学科的科研产出(2006-今)

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、生物与生物化学及工程学等学科有一定的影响力,如图-2 所示。

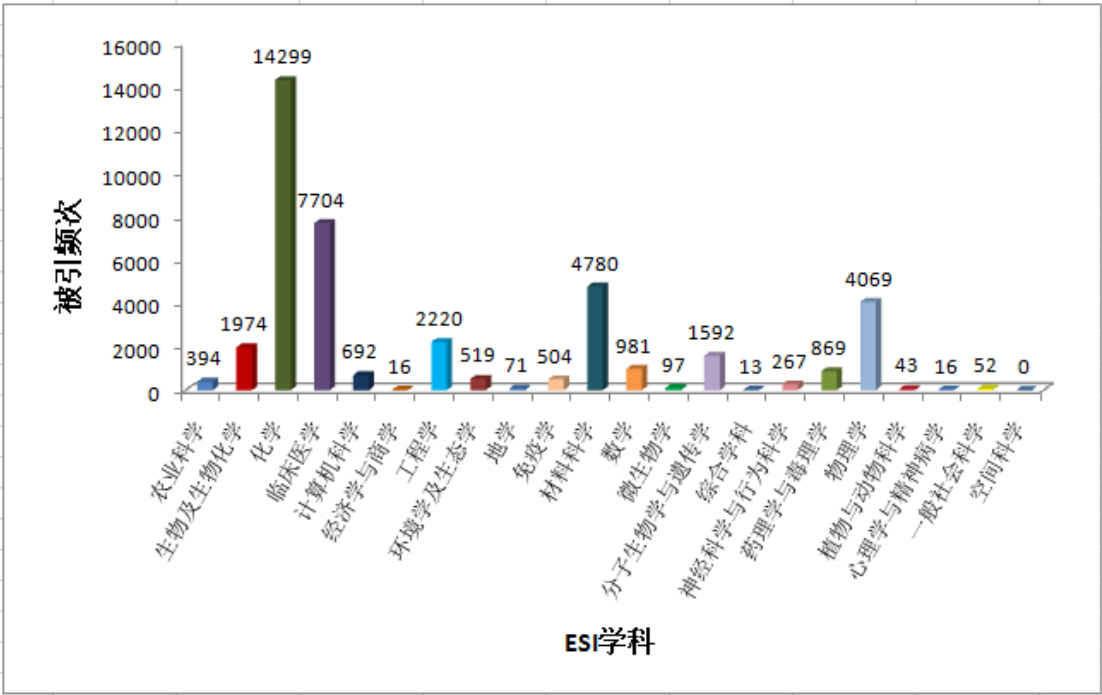


图-2 济南大学各学科的论文的总被引频次(2006-今)

3 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%。可以看到除了已经进入前 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。

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。

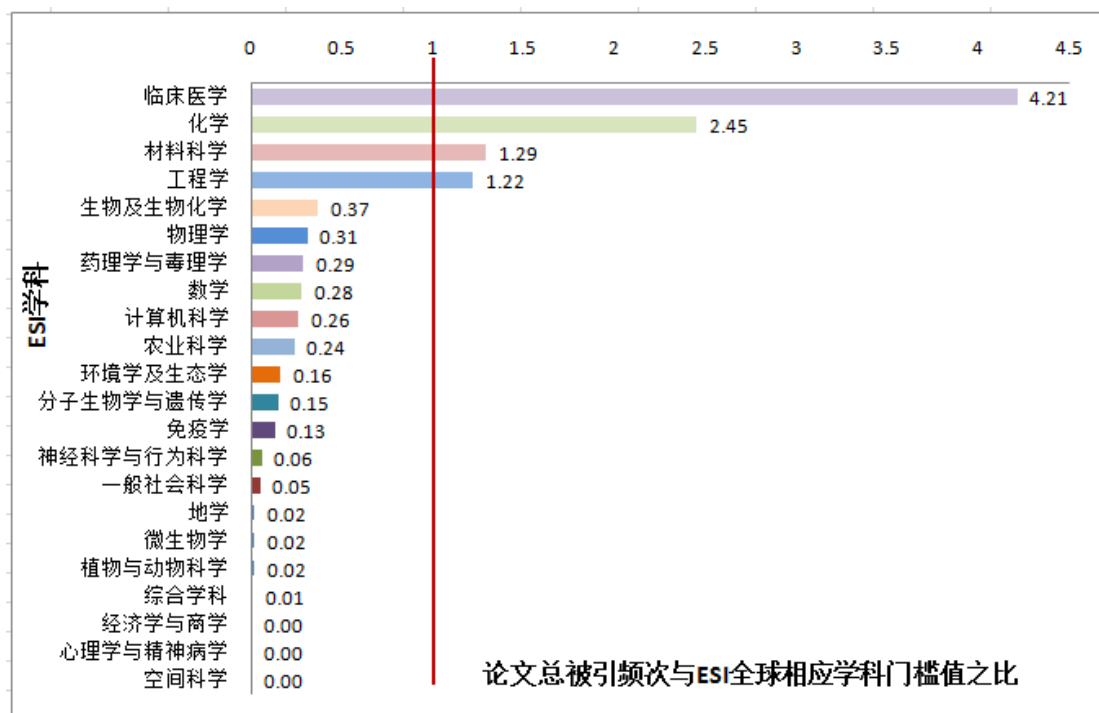


图-3 济南大学 ESI 学科趋势预测

4 济南大学高质量论文概况

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 和 letter。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 , Review 和 letter , 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 ESI2016 年 10 月 09 日 (2016 年 9 月份更新数据) 统计结果，我校共有 36 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) 。他们分布在化学、临床医学、材料科学、工程学、物理学、生物学与生物化学、数学、农学这 8 个学科中。其中被引频次最高的是我校医学与生命科学学

院 ZHANG Furen 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 286 次。

5 山东省 ESI 学科及高质量论文对比

在 2016 年 10 月 10 日的统计数据中，山东省共有 10 所高校共计 16 个学科进入了 ESI 全球前 1%，具体情况如表-1 所示。

表-1 2016 年 10 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	15	274	10
中国海洋大学	9	80	2
中国石油大学	4	66	0
济南大学	4	36	1
青岛科技大学	3	24	0
青岛大学	3	55	0
山东农业大学	2	19	2
山东师范大学	1	19	1
聊城大学	1	14	0
曲阜师范大学	1	32	1

6 济南大学 ESI 高被引论文总体情况

截至到 2016 年 10 月 10 号 (2016 年 9 月份更新数据) , 我校高被引论文共 36 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	1,713	13,669	7.98	6
2	CLINICAL MEDICINE	1,052	7,449	7.08	4
3	MATERIALS SCIENCE	855	4,394	5.14	3
4	ENGINEERING	308	1,990	6.46	11
0	ALL FIELDS	5,574	38,874	6.97	36

图-4 济南大学高被引论文

6.1 高被引论文学科分布

我校 36 篇高被引论文中 , 进入前 1% 学科的共有 25 篇 , 分别是 Chemistry (化学) 6 篇 , Clinical Medicine (临床医学) 4 篇 , Materials Science (材料科学) 3 篇 , Engineering (工程) 11 篇 ; 其他未进入前 1% 学科的高被引论文共 12 篇 , 分别是 Physics (物理) 5 篇 , Biology & Biochemistry (生物和生物化学) 4 篇 , Mathematics (数学) 2 篇 , Agriculture Sciences (农业科学) 1 篇 , 如图-5 所示。

高被引论文学科分布

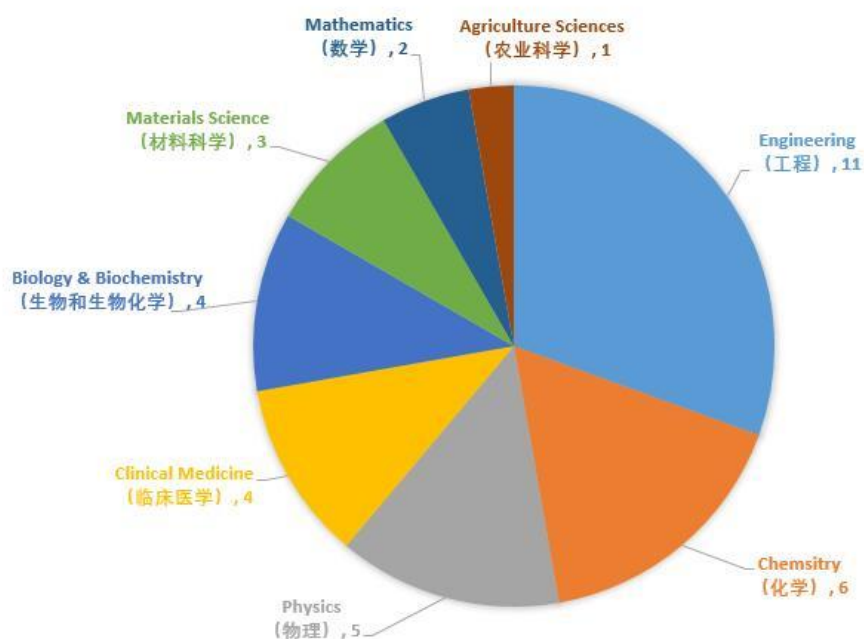


图-5 高被引论文学科分布

6.2 高被引论文学院分布

总起来说，36 篇高被引论分布在 8 个学院，其中化学化工学院 12 篇、资源与环境学院 7 篇、山东省医学科学院 6 篇、物理科学与技术学院 3 篇、材料科学与工程学院 3 篇、数学科学学院 2 篇、生物科学与技术学院 1 篇、商学院 1 篇、其他 1 篇，如表-2 所示。各学院所占百分比如图-6 所示。

表-2 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	12
资源与环境学院	7
医学与生命科学学院	6

物理科学与技术学院	3
材料科学与工程学院	3
数学科学学院	2
生物科学与技术学院	1
商学院	1
其他	1

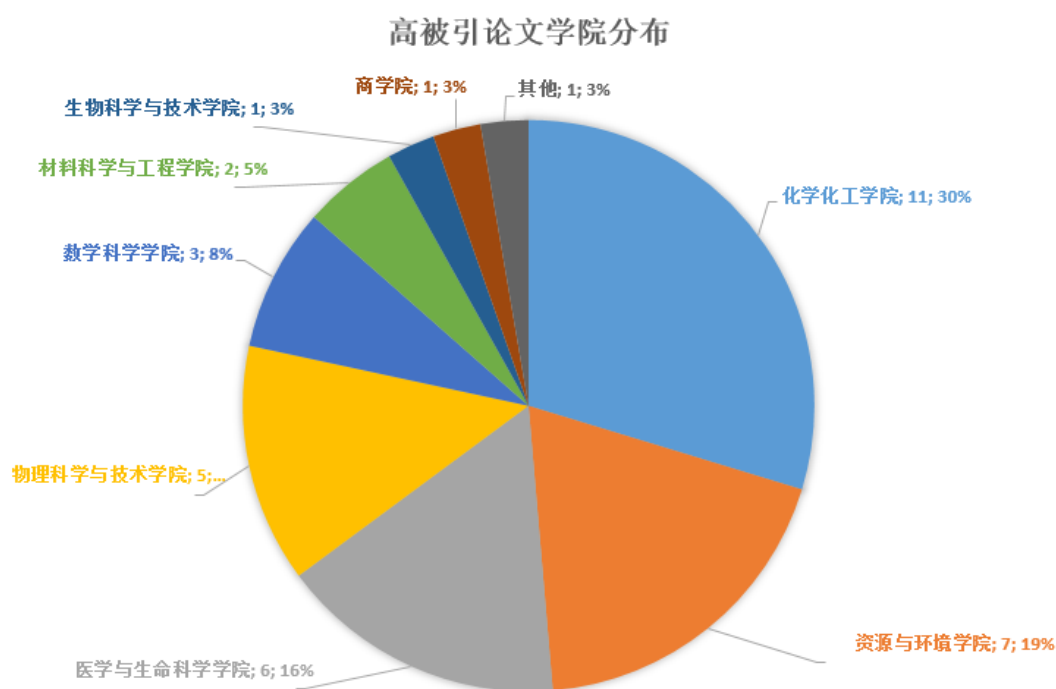


图-6 高被引论文学院分布

6.3 高被引论文学院贡献度

根据学科与学院的契合程度分析，化学、临床医学、物理以及工程、数学几个学科的高被引论文来源比较集中，主要来自于我校对应学院作者。材料学科的高被引论文都来自于化学化工学院。各学院贡献度如表-3 和图-7 所示。

表-3 高被引论文学院贡献度

	化学	材料科学	工程	临床医学	生物和生物化学	数学	物理	农业科学
化学化工学院	4	2	3		2		1	
资源与环境学院	1		6					
医学与生命科学学院				4	2			
物理科学与技术学院							3	
材料科学与工程学院		1	1				1	
数学科学学院						2		
生物科学与技术学院	1							
商学院			1					
其他								1

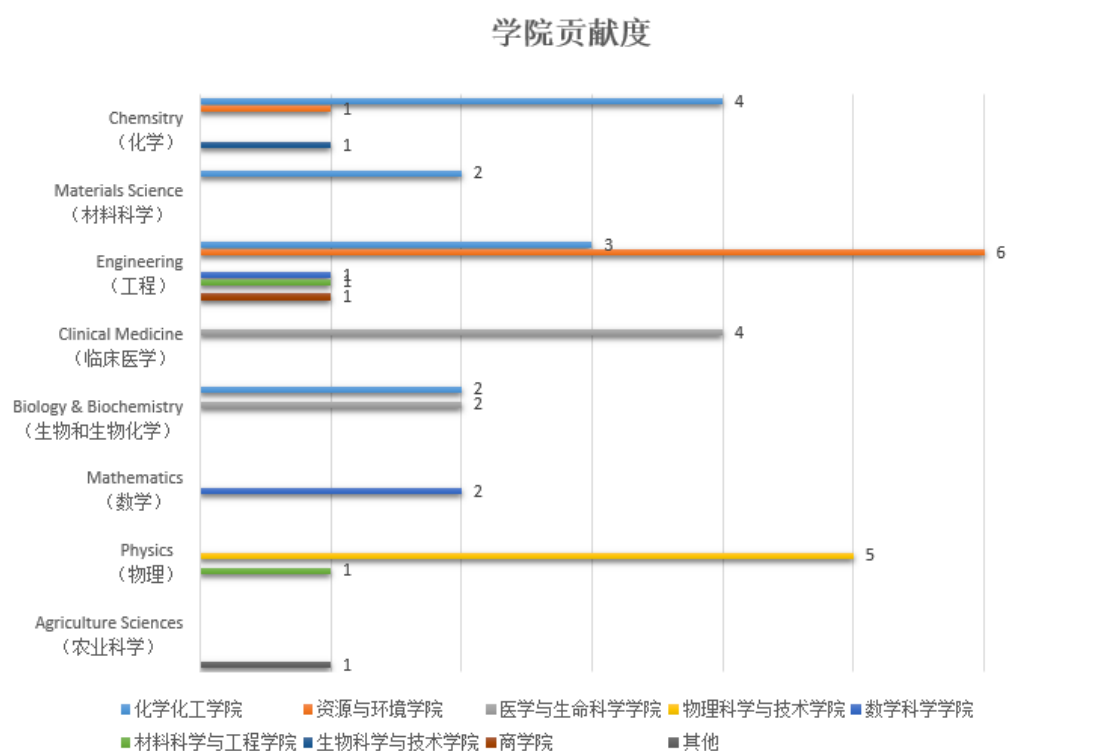


图-7 高被引论文学院贡献度

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，我校共有20篇高被引论文，来自11位作者，数量较多的是杜斌团队和罗川南团队，如表-4所示。

表-4 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
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化学化工学院	8	罗川南	3	Fan Lulu	2
				Li Leilei	1
		于京华	2	Wang Shoumei	1
				Ge Lei	1
		徐彩霞	2	徐彩霞	1
				徐彩霞	1
资源与环境学院	7	魏琴	1	Gao Jian	1
		杜斌	5	Cui Limei	2
				Yan Liangguo	1
				Xin Xiaodong	1
				Guo Xiaoyao	1
		孙蒙	1	Chen Guodong	1
物理科学与技术学院	2	张昌文	2	Su Shengnan	1
				张昌文	1
数学科学学院	1	孙书荣	1	Zhao Yige	1
生物科学与技术学院	1	林文英	1	Tang Yonghe	1
医学与生命科学学院	1	张福仁	1	张福仁	1

6.5 高被引论文对比变化情况

对比我校 ESI 高被引论文 2016 年 5、7、9 月份更新数据，通讯作者单位和第 1 作者单位均为济南大学高被引论文中，多数论文保持高被引态势，只有少数几篇发生变化，如表-5 所示。

表-5 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	5 月份数据更新被引数据	7 月份数据更新被引数据	9 月份数据更新被引数据
	MATERIALS SCIENCE (材料学)	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	142	142	154
	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	98	104	108
		FABRICATION OF NOVEL MAGNETIC	J HAZARD MATER 215: 272-279 MAY 15	2012			126	135	

化学 化 工 学 院	ENGINEERING （工程）	CHITOSAN GRAFTED WITH GRAPHENE OXIDE TO ENHANCE ADSORPTION PROPERTIES FOR METHYL BLUE	2012		罗 川 南	Fan Lulu			147	
	BIOLOGY & BIOCHEMISTRY （生物和生物 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	73	75	84	
		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		57	66	
	ENGINEERING （工程）	NANOPOROUS PDCU ALLOY FOR FORMIC ACID ELECTRO-OXIDATION	J POWER SOURCES 199: 124-131 FEB 1 2012	2012	徐 彩 霞	徐彩霞	67	68	74	
		NANOPOROUS PTCO AND PTNI ALLOY RIBBONS FOR METHANOL ELECTROOXIDATION	INT J HYDROGEN ENERG 37 (14): 10489- 10498 JUL 2012	2012			47	48	52	
	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	20	22	26	
		ULTRASENSITIVE ELECTROCHEMICAL IMMUNOSENSOR FOR CARBOHYDRATE ANTIGEN 72-4 BASED ON DUAL SIGNAL AMPLIFICATION STRATEGY OF NANOPOROUS GOLD AND POLYANILINE- AU ASYMMETRIC MULTICOMPONENT NANOPARTICLES	BIOSENS BIOELECTRON 64: 51-56 FEB 15 2015	2015		Gao Jian	13			
		AN ELECTROCHEMICAL IMMUNOSENSOR FOR ULTRASENSITIVE DETECTION OF CARBOHYDRATE ANTIGEN 199 BASED ON AU@CUXOS YOLK-SHELL NANOSTRUCTURES WITH POROUS SHELLS AS LABELS	BIOSENS BIOELECTRON 63: 39-46 JAN 15 2015	2015		Guo Aiping	13			
	资源与	ENGINEERING （工程）	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	2010	杜 斌	Yan Liangguo	74	80	86
		ENGINEERING （工程）	HIGHLY EFFICIENT REMOVAL OF HEAVY METAL IONS BY AMINE-FUNCTIONALIZED MESOPOROUS FE3O4 NANOPARTICLES	CHEM ENG J 184: 132-140 MAR 1 2012	2012		Xin Xiaodong	63	69	77

环境学院	ENGINEERING (工程)	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	2014		Guo Xiaoyao	36	45	52
	CHEMISTRY (化学)	REMOVAL OF MERCURY AND METHYLENE BLUE FROM AQUEOUS SOLUTION BY XANTHATE FUNCTIONALIZED MAGNETIC GRAPHENE OXIDE: SORPTION KINETIC AND UPTAKE MECHANISM	J COLLOID INTERFACE SCI 439: 112-120 FEB 1 2015	2015		Cui Limei	13	16	20
	ENGINEERING (工程)	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	2015		Cui Limei		8	15
	ENGINEERING (工程)	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	2013	孙蒙	Chen Guodong	61	65	68
	ENGINEERING (工程)	HETEROGENEOUS ACTIVATION OF OXONE BY COXFE3-XO4 NANOCATALYSTS FOR DEGRADATION OF RHODAMINE B	J HAZARD MATER 244: 736-742 JAN 15 2013	2013	国伟林	Su Shengnan	31	33	37
物理科学与技术学院	PHYSICS (物理)	FIRST-PRINCIPLES STUDY OF FERROMAGNETISM IN TWO-DIMENSIONAL SILICENE WITH HYDROGENATION	J PHYS CHEM C 116 (6): 4163-4166 FEB 16 2012	2012	张昌文	张昌文	75	80	86
		UNEXPECTED GIANT-GAP QUANTUM SPIN HALL INSULATOR IN CHEMICALLY DECORATED PLUMBENE MONOLAYER	SCI REP 6: - FEB 2 2016	2016		Zhao Hui		8	10
		FUNCTIONALIZED THALLIUM ANTIMONY FILMS AS EXCELLENT CANDIDATES FOR LARGE-GAP QUANTUM SPIN HALL INSULATOR	SCI REP 6: - FEB 17 2016	2016		Zhang Run-wu		3	
	PHYSICS (物理)	ROOM TEMPERATURE QUANTUM SPIN HALL INSULATOR IN ETHYNYL-DERIVATIVE FUNCTIONALIZED STANENE FILMS	SCI REP 6: - JAN 5 2016	2016		Zhang Run-wu		3	
数学科学学院	MATHEMATICS (数学)	POSITIVE SOLUTIONS FOR BOUNDARY VALUE PROBLEMS OF NONLINEAR FRACTIONAL DIFFERENTIAL EQUATIONS	APPL MATH COMPUT 217 (16): 6950-6958 APR 15 2011	2011	孙书容	Zhao Yige	45	46	46
		POSITIVE SOLUTIONS TO BOUNDARY VALUE PROBLEMS OF NONLINEAR FRACTIONAL DIFFERENTIAL EQUATIONS	ABSTR APPL ANAL : - 2011	2011		Zhao Yige	32		
生物	CHEMISTRY (化学)	DEVELOPMENT OF FLUORESCENT PROBES BASED ON PROTECTION-DEPROTECTION	CHEM SOC REV 44 (15): 5003-5015 2015	2015			19	23	

科学与技术学院		OF THE KEY FUNCTIONAL GROUPS FOR BIOLOGICAL IMAGING			林文英	Tang Yongke			26
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	2009	张福仁	张福仁		279	286

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分布学院、作者情况如表-6 所示。

表-6 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2单位	第3单位	第4单位	第7单位	第9单位	第13单位
	Chemistry (化学)	6	1	183	化学化工学院				√					
			2	111	化学化工学院				√					
			3	108	化学化工学院	√								
			4	26	生物科学与技术学院	√								
			5	26	化学化工学院	√								
			6	20	资源与环境学院	√								
	Clinical	4	1	286	医学与生命科学学院	√								
			2	130	医学与生命科学									√

前 1 % 学 科	Medicine (临床医学)				学院									
			3	66	医学与生命科学 学院								√	
			4	14	医学与生命科学 学院		√							
	(Materials Science) 材料科学	3	1	174	化学化工学院	√								
			2	64	化学化工学院				√					
			3	4	材料科学与工程 学院					√				
	Engineering (工程)	11 篇	1	147	化学化工学院	√								
			2	86	资源与环境学院	√								
			3	77	资源与环境学院	√								
			4	74	材料科学与工程 学院				√					
			5	74	化学化工学院	√								
			6	68	资源与环境学院	√								
			7	52	化学化工学院	√								
			8	52	资源与环境学院	√								
			9	37	商学院 (经济 学院)			√						
			10	37	资源与环境学院	√								
			11	15	资源与环境学院	√								
未 进 入 前 1 % 学 科	Physics (物理)	5	1	158	材料科学与工程 学院				√					
			2	86	物理科学与技术 学院	√								
			3	41	物理科学与技术 学院				√					
			4	17	化学化工学院							√		
			5	10	物理科学与技术 学院	√								
	Biology & Biochemistry (生物和生 物化学)	4	1	128	山东省肿瘤医院 (医学与生命科 学学院附属医 院)						√			
			2	84	化学化工学院	√								
			3	66	化学化工学院	√								
			4	34	医学与生命科学 学院					√				
	Mathematics (数学)	2	1	46	数学科学学院	√								
			2	42	数学科学学院				√					
	Agriculture	1	1	47	非济南大学文章									

	Sciences (农业科学)				(单位中没有济南 大学及和山东省 医学科学院)									
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7.2 济南大学前 1%学科学科现状分析

7.2.1 化学学科现状分析

化学学科 2016 年 10 月国内高校 ESI 排名如表-7 所示。可以看出排在前 10 位的高校分别是浙江大学、清华大学、南京大学、北京大学、复旦大学、中国科学技术大学、南开大学、吉林大学、华东理工大学和中国科学院大学。在表-7 中，排名第 1 位的浙江大学至排名第 112 位的福建师范大学，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 60 位，省内高校第 4 位。

表-7 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	总被引频次	论文被引百分比	国际合作论文
1	Zhejiang University	12070	1.12	168332	84.9	1824
2	Tsinghua University	9378	1.42	158776	84.2	1527
3	Nanjing University	8941	1.37	145951	85.3	1437
4	Peking University	7901	1.42	135973	85.8	1528
5	Fudan University	6873	1.44	131023	87	1256
6	University of Science & Technology of China	7518	1.5	130065	85.7	1322
7	Nankai University	7341	1.41	124838	86	792
8	Jilin University	10531	0.99	118636	80.9	1377
9	East China University of Science & Technology	7669	1.21	104945	83.4	1407
10	University of Chinese Academy of Sciences	9301	1.25	96832	78.5	849
11	Sichuan University	8689	0.89	87280	80	872

12	Dalian University of Technology	5489	1.28	84667	83.8	1130
13	Xiamen University	5125	1.38	81277	84.4	1035
14	Wuhan University	4758	1.4	81096	86.1	653
15	Sun Yat Sen University	4635	1.39	78866	85.2	704
16	Shandong University	6773	0.94	71654	80.6	973
17	Shanghai Jiao Tong University	5482	1.09	70765	84	1072
18	Lanzhou University	4914	1.31	70752	86.1	425
19	South China University of Technology	5637	1.24	70464	82.3	941
20	Tianjin University	6575	0.93	64339	77.7	862
21	Suzhou University	4848	1.29	62711	83.6	839
22	Beijing University of Chemical Technology	5636	0.97	61589	82.2	767
23	Hunan University	3720	1.46	55953	84	484
24	Northeast Normal University - China	3575	1.16	54077	84.6	256
25	East China Normal University	3038	1.39	45013	86.2	524
26	Fuzhou University	2986	1.5	44971	83.6	310
27	Harbin Institute of Technology	3872	1.03	40107	78.2	771
28	Huazhong University of Science & Technology	3230	1.23	37031	80	661
29	Beijing Institute of Technology	3599	0.92	34701	77.7	583
30	Southeast University - China	3500	0.87	33045	74.9	440
31	Central China Normal University	2163	1.29	32765	81.1	247
32	Wuhan University of Technology	1483	1.97	30527	81.4	436
33	Tongji University	2575	1.08	28960	81.2	408
34	Zhengzhou University	3348	0.86	28867	78.3	330
35	Nanjing University of Technology	3538	0.86	28732	74.5	442
36	Xi'an Jiaotong University	2870	0.99	28137	76	584
37	Shanghai University	2409	1.13	27800	77.5	363
38	Donghua University	2294	1.05	27355	80.5	459
39	Southwest University - China	2433	1.1	26301	80.1	216
40	Central South University	3284	0.93	26233	80.3	475
41	Beijing Normal University	2437	0.96	25598	82.7	510
42	Northwest University Xi'an	2703	0.87	24998	78.6	324
43	Qingdao University of Science & Technology	2508	0.85	24058	78.5	153
44	Zhejiang University of Technology	2941	0.71	22871	74.8	281
45	Nanjing University of Science & Technology	2485	0.9	21780	77.9	232
46	China University of Petroleum	2522	0.85	20494	74.7	422
47	University of Science & Technology Beijing	2148	1.01	20203	77.7	393
48	China Pharmaceutical University	2392	0.74	18667	80.1	269
49	Anhui Normal University	1198	1.29	18295	86.3	69
50	South China Normal University	1941	0.84	17824	80.2	409
51	Jiangsu University	2079	1.22	17381	76.6	258
52	Jiangnan University	2368	0.81	17230	74.9	406
53	Shaanxi Normal University	1919	0.77	15654	79.4	205

54	University Town of Shenzhen	1313	1.38	15648	80.7	216
55	Henan Normal University	1589	0.83	15636	79.9	156
56	Beihang University	1574	1.13	15594	75.7	222
57	Xiangtan University	1573	1	15365	79.3	161
58	China Agricultural University	2007	0.62	15155	73.5	280
59	Yangzhou University	1434	0.94	14707	80.8	193
60	University of Jinan	1738	1.06	14299	74.8	153
61	Harbin Engineering University	883	1.59	14240	79.1	124
62	Henan University	1752	0.77	14236	80.5	144
63	Chongqing University	2007	0.95	14003	70.3	318
64	Hunan Normal University	995	1.14	13956	85.8	85
65	Nanjing Normal University	1082	1.2	13649	83.6	120
66	Shanghai Normal University	824	1.38	13471	85.1	95
67	Wenzhou University	1116	1	13207	81.5	124
68	Zhejiang Normal University	1345	1.03	12652	79.2	152
69	Nanchang University	1568	0.9	12634	77.9	236
70	Ocean University of China	1526	0.79	12090	78.6	170
71	Nanjing University of Posts & Telecommunications	700	1.56	11915	77.9	101
72	Shanxi University	1317	0.95	11826	76.5	162
73	Jinan University	1475	0.76	11769	76.9	148
74	Northeastern University - China	1328	0.79	11639	74	232
75	Hefei University of Technology	1269	0.94	11610	73.4	183
76	Heilongjiang University	1226	1.05	11219	76.6	179
77	Guangxi Normal University	1142	0.8	10794	77.9	116
78	Tianjin Normal University	871	1	10615	76.5	36
79	Jiangxi Normal University	1045	1.23	10552	79.4	84
80	Hubei University	967	1	10519	82.1	187
81	Zhejiang Sci-Tech University	1021	1.09	10508	78.8	202
82	Hebei University	1504	0.58	10461	74.5	63
83	Northwestern Polytechnical University	1405	0.86	10454	78.7	214
84	Liaocheng University	1644	0.5	10426	74.4	62
85	Shenyang Pharmaceutical University	1464	0.6	10377	79.9	207
86	Beijing University of Technology	1113	0.9	10326	79.1	154
87	Northwest Normal University - China	1448	0.78	10150	78.6	72
88	Shandong Normal University	1037	0.87	10066	78.1	87
89	Hangzhou Normal University	985	1.02	9971	79.7	133
90	Nanjing University of Aeronautics & Astronautics	858	1.19	9828	78	159
91	China University of Geosciences	1210	0.98	9529	73.7	278
92	Jiangsu Normal University	1137	0.84	9439	73.8	91
93	Anhui University	1102	0.9	9047	72.1	101
94	Huazhong Agricultural University	773	0.97	8601	78.1	96

95	Huaqiao University	728	1.13	8496	81	55
96	Changzhou University	1226	0.98	8462	73.4	141
97	Liaoning Normal University	1102	0.6	8347	78.6	56
98	South Central University for Nationalities	698	1.15	7678	81	79
99	Qingdao University	769	0.96	7447	77.5	196
100	Yunnan University	937	0.73	7411	78.6	91
101	Renmin University of China	553	1.19	7403	81.74	102
102	Shantou University	408	1.12	7368	87.99	64
103	Capital Normal University	1011	0.78	7304	76.06	76
104	Second Military Medical University	883	0.65	7172	83.24	92
105	Tianjin Polytechnic University	1090	0.73	6823	72.94	107
106	Liaoning University	842	0.69	6749	80.76	79
107	Hebei Normal University	764	0.72	6711	78.53	68
108	Northwest A&F University - China	933	0.76	6404	75.56	197
109	Taiyuan University of Technology	1243	0.64	6255	68.54	152
110	Wenzhou Medical University	465	1.22	6255	71.4	71
111	Guizhou University	860	0.73	6243	74.42	162
112	Fujian Normal University	886	0.77	6221	74.83	89

我校化学学科共有 6 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: 183
	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: 111
	By: MAO, S; WEN, ZH; HUANG, TZ; et.al Source: ENERGY ENVIRON SCI 7 (2): 609-616 FEB 2014 Research Fields: CHEMISTRY	
3	PAPER-BASED CHEMILUMINESCENCE ELISA: LAB-ON-PAPER BASED ON CHITOSAN MODIFIED PAPER DEVICE AND WAX-SCREEN-PRINTING	Times Cited: 108
	By: WANG, SM; GE, L; SONG, XR; et.al Source: BIOSENS BIOELECTRON 31 (1): 212-218 JAN 15 2012 Research Fields: CHEMISTRY	 Research Front
4	DEVELOPMENT OF FLUORESCENT PROBES BASED ON PROTECTION-DEPROTECTION OF THE KEY FUNCTIONAL GROUPS FOR BIOLOGICAL IMAGING	Times Cited: 26
	By: TANG, YH; LEE, DY; WANG, JL; et.al Source: CHEM SOC REV 44 (15): 5003-5015 2015 Research Fields: CHEMISTRY	 Research Front

5	ULTRASENSITIVE ELECTROCHEMICAL IMMUNOASSAY FOR CEA THROUGH HOST-GUEST INTERACTION OF BETA-CYCLODEXTRIN FUNCTIONALIZED GRAPHENE AND CU@AG CORE-SHELL NANOPARTICLES WITH ADAMANTINE-MODIFIED ANTIBODY	Times Cited: 26
	By: GAO, J; GUO, ZK; SU, FJ; et al Source: BIOSENS BIOELECTRON 63: 465-471 JAN 15 2015 Research Fields: CHEMISTRY	
6	REMOVAL OF MERCURY AND METHYLENE BLUE FROM AQUEOUS SOLUTION BY XANTHATE FUNCTIONALIZED MAGNETIC GRAPHENE OXIDE: SORPTION KINETIC AND UPTAKE MECHANISM	Times Cited: 20
	By: CUI, LM; GUO, XY; WEI, Q; et al Source: J COLLOID INTERFACE SCI 439: 112-120 FEB 1 2015 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 183 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]

查看 ResearcherID 和 ORCID

ENERGY & ENVIRONMENTAL SCIENCE

卷: 6 期: 8 页: 2497-2504

DOI: 10.1039/c3ee41638k

出版年: AUG 2013

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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 111（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

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[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 108 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

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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

4、被引频次 26 (济南大学是第 1 作者和通讯作者单位, 生物科学与技术学院)

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

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

[3] Hunan Univ, Coll Chem & Chem Engr, 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

5、被引频次 26（济南大学是第 1 作者和通讯作者单位，化学化工学院）

Ultrasensitive electrochemical immunoassay for CEA through host-guest interaction of beta-cyclodextrin functionalized graphene and Cu@Ag core-shell nanoparticles with adamantane-modified antibody

作者:Gao, J (Gao, Jian)[1] ; Guo, ZK (Guo, Zhankui)[1] ; Su, FJ (Su, Fengjie)[1] ; Gao, L (Gao, Liang)[1] ; Pang, XH (Pang, Xuehui)[1] ; Cao, W (Cao, Wei)[1] ; Du, B (Du, Bin)[1] ; Wei, Q (Wei, Qin)[1]

BIOSENSORS & BIOELECTRONICS

卷: 63 页: 465-471

DOI: 10.1016/j.bios.2014.07.081

出版年: JAN 15 2015

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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

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PubMed ID: 25129508

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6、被引频次 20（济南大学是第 1 作者和通讯作者单位，资源与环境学院）

Removal of mercury and methylene blue from aqueous solution by xanthate functionalized magnetic graphene oxide: Sorption kinetic and uptake mechanism

作者:Cui, LM (Cui, Limei)[1] ; Guo, XY (Guo, Xiaoyao)[1] ; Wei, Q (Wei, Qin)[2] ; Wang, YG (Wang, Yaoguang)[2] ; Gao, L (Gao, Liang)[2] ; Yan, LG (Yan, Liangguo)[1] ; Yan, T (Yan, Tao)[1] ; Du, B (Du, Bin)[1]

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JOURNAL OF COLLOID AND INTERFACE SCIENCE

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DOI: 10.1016/j.jcis.2014.10.019

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类别 / 分类

研究方向:Chemistry

Web of Science 类别:Chemistry, Physical

文献信息

文献类型:Article

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PubMed ID: 25463182

ISSN: 0021-9797

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7.2.2 临床医学学科现状分析

临床医学 2016 年 10 月国内高校 ESI 排名如表-8 所示。可以看出排在前 10 位的高校分别是上海交通大学、清华大学、北京大学、浙江大学、复旦大学、中国科学技术大学、中山大学、华中科技大学、哈尔滨工业大学、南京大学。在表-8 中,排名第 1 位的上海交通大学至排名第 100 位的汕头大学,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 87 位,省内高校第 5 位。

表-8 ESI 临床医学国内高校排名

排名	机构名称	Web of Science 论文数	学科规范化的引文影响力	总被引频次	论文被引百分比	国际合作论文数
1	Shanghai Jiao Tong University	40948	1.12	396269	76.56	10306
2	Tsinghua University	34692	1.29	387115	77.66	9572

3	Peking University	29312	1.32	352610	78.6	9452
4	Zhejiang University	35541	1.08	340508	76.81	9134
5	Fudan University	23652	1.29	270123	78.01	6692
6	University of Science & Technology of China	19639	1.4	245779	79.01	6105
7	Sun Yat Sen University	20163	1.24	215446	77.59	4958
8	Huazhong University of Science & Technology	23978	1.03	190070	74.95	5068
9	Harbin Institute of Technology	23398	1.05	188564	73.48	5056
10	Nanjing University	17266	1.25	182227	78.15	4243
11	Shandong University	20541	1.1	182134	74.86	4865
12	Xi'an Jiaotong University	20621	0.94	148701	72.71	4695
13	Sichuan University	20043	0.84	141415	72.37	3496
14	Jilin University	15686	1.01	136839	74.33	3282
15	University of Chinese Academy of Sciences	14830	1.25	125867	73.49	2425
16	Central South University	17429	0.98	124263	72.58	3363
17	Southeast University - China	14544	1.11	121452	71.34	3565
18	Wuhan University	12866	1.14	119250	74.34	2891
19	Dalian University of Technology	14874	0.94	119201	75.12	3136
20	South China University of Technology	11551	1.37	115366	75.85	2423
21	Tianjin University	13022	1.09	103098	73.21	2713
22	Nankai University	8856	1.32	102293	79.01	2341
23	Tongji University	14249	1.03	100896	71.09	3673
24	Suzhou University	10350	1.25	91619	73.32	2529
25	Beihang University	13326	0.91	83921	69.19	2818
26	Lanzhou University	8509	1.14	80916	78.18	1716
27	Shanghai University	9462	0.96	75131	74.85	2153
28	Xiamen University	7861	1.22	70139	73.77	2371
29	Capital Medical University	9190	0.88	67521	69.96	2321
30	Hunan University	7385	1.15	67169	74.16	1668
31	University of Electronic Science & Technology of China	11281	0.82	66691	69.36	2813
32	University of Science & Technology Beijing	10211	0.81	66537	70.8	2055
33	East China University of Science & Technology	6142	1.24	64692	78.2	1237
34	Beijing Institute of Technology	8696	1.1	63150	69.17	1932
35	China Agricultural University	6316	1.13	60380	78.44	2065
36	Chongqing University	9699	0.96	59868	68.76	2244
37	Nanjing Medical University	7390	1.02	58550	74.78	1398
38	Fourth Military Medical	5822	1.04	58333	80.64	1237

	University					
39	Northwestern Polytechnical University	10879	0.74	57737	69.79	1883
40	Second Military Medical University	6117	1.03	57480	77.13	1078
41	Beijing Normal University	6421	1.13	55294	76.36	1663
42	Nanjing University of Aeronautics & Astronautics	7590	0.96	54400	69.06	1384
43	Jiangnan University	6031	1.19	52132	73.16	1427
44	Wuhan University of Technology	5381	1.11	50267	70.17	1379
45	Northeastern University - China	7882	0.81	49294	68.19	1808
46	Donghua University	4288	1.32	48379	76.1	1139
47	East China Normal University	5761	1	48224	75.53	1546
48	Beijing University of Chemical Technology	3946	1.48	47407	80.61	749
49	Central China Normal University	3523	1.5	46575	76.5	1395
50	Nanjing University of Science & Technology	5980	1.05	42214	69.9	1242
51	Zhengzhou University	6838	0.92	41153	67.21	1370
52	China Medical University	5606	0.82	39375	73.42	1161
53	Xidian University	6759	0.74	37518	67.57	898
54	Harbin Medical University	4557	0.98	37233	75.88	1103
55	Third Military Medical University	4556	0.9	37192	75.4	826
56	Jiangsu University	5682	0.99	35609	69.38	767
57	Fuzhou University	2996	1.38	34141	75	598
58	Tianjin Medical University	4038	1.02	33685	72.11	1000
59	Southern Medical University - China	4735	0.94	33594	71.21	968
60	Nanjing Agricultural University	3646	1.19	33066	77.1	802
61	Beijing University of Technology	5453	0.76	32933	68.16	995
62	National University of Defence Technology - China	6679	0.69	32812	66.25	988
63	Beijing Jiaotong University	5870	0.86	32735	68.11	1517
64	Nanjing University of Technology	3500	1.22	31649	76.54	709
65	South China Normal University	4304	0.95	31519	73.77	632
66	University Town of Shenzhen	4147	1.16	29796	71.18	1154
67	Northeast Normal University - China	2518	1.26	29017	75.81	392
68	Harbin Engineering University	3754	1.09	28838	65.08	684
69	Jinan University	3829	0.97	27950	72.73	734
70	China University of Petroleum	4844	0.95	27168	65.38	989
71	Nanchang University	4059	1.02	26601	70.46	702

72	Chongqing Medical University	3525	1.03	25702	71.57	737
73	Southwest Jiaotong University	4280	0.85	25631	68.74	1084
74	Nanjing Normal University	3525	1.09	25072	70.78	700
75	Xiangtan University	3018	1.12	25030	77.87	623
76	Ocean University of China	2910	0.98	24614	74.3	603
77	North China Electric Power University	3778	1.12	24032	66.6	876
78	Northwest A&F University - China	3383	1.12	23911	72.39	1085
79	Southwest University - China	3189	1.17	23845	71.24	776
80	Beijing University of Posts & Telecommunications	4209	0.75	23757	67.66	773
81	Zhejiang Normal University	2905	1.13	23476	75.49	550
82	Hefei University of Technology	3260	1.09	23220	70.4	805
83	Huazhong Agricultural University	2753	1.05	23006	76.57	623
84	Qingdao University	3283	0.95	22822	67.41	685
85	Shenzhen University	3402	1	22729	67.55	723
86	Wenzhou Medical University	3542	0.82	22632	67.53	1004
87	University of Jinan	3293	0.99	22122	70.18	481
88	Yangzhou University	2744	1.08	21923	70.99	568
89	Zhejiang University of Technology	3136	0.94	21190	70.22	709
90	Ningbo University	3191	0.91	20763	72.58	559
91	Shaanxi Normal University	2848	0.93	20317	73.7	466
92	Anhui University	2825	1.02	20311	71.93	352
93	Yanshan University	3705	0.72	20146	70.2	630
94	China University of Geosciences	3109	1.07	19619	68	781
95	China University of Mining & Technology	4219	0.89	19352	63.19	742
96	Anhui Medical University	2949	0.89	19307	69.92	573
97	Shanghai Normal University	2160	1.22	19295	75.14	582
98	Guangxi University	2739	0.87	18727	74.04	557
99	Hunan Normal University	2500	0.8	17846	74.52	468
100	Shantou University	1875	1.05	17845	75.25	386

我校临床医学共有 4 篇高被引论文，如图-9 所示：

1	GENOMEWIDE ASSOCIATION STUDY OF LEPROSY	Times Cited: 286
	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: 130 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: 66
	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	A FUNCTIONAL LNCRNA HOTAIR GENETIC VARIANT CONTRIBUTES TO GASTRIC CANCER SUSCEPTIBILITY	Times Cited: 14 Research Front
	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 286（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 130（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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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 66（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] 更多内容

团体作者: PURE Investigators

查看 ResearcherID 和 ORCID

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DOI: 10.1056/NEJMoa1311890

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 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 14（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

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7.2.3 材料科学学科现状分析

材料科学 2016 年 10 月国内高校 ESI 排名如表-9 所示。可以看出排在前 10 位的高校分别是清华大学、上海交通大学、浙江大学、复旦大学、哈尔滨工业大学、吉林大学、北京大学、中国科学技术大学、中国科学院大学和中南大学。在表-9 中, 排名第 1 位的清华大学至排名第 87 位的陕西科技大学, 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 76 位, 省内高校第 5 位。

表-9 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	总被引频次	论文被引百分比	国际合作论文
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			影 响 力			
1	Tsinghua University	7245	1.36	98818	77.23	1435
2	Shanghai Jiao Tong University	5854	1.24	70114	80.83	1283
3	Zhejiang University	4922	1.3	64904	82.3	1021
4	Fudan University	2679	2.42	62581	87.27	639
5	Harbin Institute of Technology	7671	0.84	60731	76.01	1280
6	Jilin University	4077	1.28	50197	82.81	619
7	Peking University	2851	1.89	48590	83.55	650
8	University of Science & Technology of China	3072	1.74	46406	83.89	526
9	University of Chinese Academy of Sciences	3487	1.82	45127	79.38	375
10	Central South University	6544	0.69	41239	74.69	931
11	University of Science & Technology Beijing	6487	0.68	39419	70.09	1092
12	South China University of Technology	3912	1.23	38781	76.76	735
13	Tianjin University	3749	1.11	35475	75.67	623
14	Sichuan University	3751	1.05	34875	76.78	519
15	Nanjing University	2523	1.49	34809	82.76	438
16	Dalian University of Technology	3856	0.94	34465	77.67	794
17	Huazhong University of Science & Technology	3387	1.23	33361	77.86	572
18	Xi'an Jiaotong University	4081	0.89	32925	74.74	882
19	Shandong University	3279	1.08	31656	78.29	545
20	Northwestern Polytechnical University	5289	0.71	31522	73.34	618
21	Suzhou University	2170	1.98	30535	79.03	575
22	Wuhan University	2016	1.51	27826	79.81	389
23	Beihang University	3269	0.93	25213	73.08	553
24	Nankai University	1197	2.14	24634	86.47	214
25	Wuhan University of Technology	2888	0.97	24255	70.78	668
26	Beijing University of Chemical Technology	1810	1.54	24215	84.36	314
27	Sun Yat Sen University	1558	1.73	24137	83.12	312
28	East China University of Science & Technology	1769	1.42	22904	82.25	384
29	Southeast University - China	2359	1.02	22196	76.22	509
30	Tongji University	2380	1.04	21482	76.6	546
31	Shanghai University	2533	0.9	20425	74.54	528
32	Lanzhou University	1576	1.35	20195	85.15	203
33	Northeastern University - China	3826	0.57	19231	68.48	868
34	Donghua University	2086	1.03	18720	75.46	482
35	Xiamen University	1444	1.53	18504	80.19	414
36	Chongqing University	3037	0.84	18191	67.37	565
37	Nanjing University of Aeronautics & Astronautics	1972	1.01	17750	74.44	298
38	Hunan University	1908	1.07	17593	75.16	300
39	Beijing Institute of Technology	1780	1.29	16551	73.48	356

40	Harbin Engineering University	1105	1.43	14300	75.84	111
41	Nanjing University of Technology	1711	1.13	14282	76.56	322
42	Fuzhou University	800	1.79	12263	77	119
43	Nanjing University of Science & Technology	1340	1.28	11330	74.7	295
44	Jiangsu University	1502	0.91	10771	72.17	157
45	Beijing University of Technology	1510	0.71	10745	70.6	244
46	East China Normal University	764	1.53	10619	82.59	153
47	Northeast Normal University – China	556	1.68	9836	89.03	36
48	University of Electronic Science & Technology of China	1571	0.83	9439	71.36	359
49	Central China Normal University	331	2.24	9265	87.01	46
50	China University of Petroleum	1053	1.11	9026	68.76	217
51	Hefei University of Technology	1009	1.06	8760	74.03	166
52	Southwest Jiaotong University	1077	0.94	8695	75.77	273
53	University Town of Shenzhen	953	1.35	7950	75.34	224
54	Xiangtan University	985	0.86	7655	79.9	173
55	Zhengzhou University	1006	1.08	7509	75.25	178
56	Yanshan University	1491	0.66	7496	70.89	231
57	Nanjing University of Posts & Telecommunications	336	2.54	6537	80.06	77
58	China University of Geosciences	1086	0.95	6500	69.06	188
59	Shaanxi Normal University	740	1.01	6480	80.14	96
60	Zhejiang Sci-Tech University	682	1.04	6283	76.25	130
61	Beijing Jiaotong University	726	0.97	6232	74.1	142
62	Taiyuan University of Technology	1420	0.7	6045	65.56	208
63	Fourth Military Medical University	379	1.4	5854	83.11	71
64	Shanghai Normal University	356	1.56	5678	86.24	47
65	Beijing Normal University	473	1.38	5665	79.49	69
66	Qingdao University of Science & Technology	617	0.97	5596	78.12	95
67	Hubei University	576	1.13	5308	78.13	143
68	Ocean University of China	496	1.1	5247	80.85	56
69	Zhejiang Normal University	473	1.46	5238	79.7	72
70	Anhui University	623	1.26	5236	78.33	67
71	Zhejiang University of Technology	727	0.83	5189	70.15	127
72	Anhui University of Technology	636	1.04	5060	72.33	88
73	Southwest University – China	557	1.33	4889	74.33	91
74	National University of Defence Technology – China	895	0.71	4878	68.83	87
75	Kunming University of Science & Technology	1152	0.57	4790	64.15	145
76	University of Jinan	876	0.87	4780	71	121
77	Henan University	619	0.94	4730	81.1	72
78	Heilongjiang University	377	1.37	4713	77.98	28
79	Changzhou University	641	0.97	4613	68.17	117

80	Guangxi University	854	0.64	4590	74.59	107
81	Jinan University	548	1.15	4425	75.73	73
82	Wuhan University of Science & Technology	880	0.6	4328	62.16	115
83	Hebei University of Technology	703	0.73	4000	70.84	91
84	Shenzhen University	769	0.76	3907	67.62	122
85	China University of Mining & Technology	848	0.69	3905	64.74	139
86	Jiangnan University	791	0.66	3852	63.84	127
87	Shaanxi University of Science & Technology	916	0.64	3820	65.83	47
88	Lanzhou University of Technology	664	0.66	3805	66.11	55
89	Nanchang University	631	0.81	3768	71.16	65
90	South China Normal University	416	1.19	3721	78.37	60
91	Yangzhou University	403	0.99	3685	78.16	58
92	Huaqiao University	362	1.07	3596	72.65	43
93	Ningbo University	564	0.91	3590	74.82	96
94	Guangdong University of Technology	714	0.72	3442	66.81	93
95	Northwest University Xi'an	393	1.29	3397	74.3	68
96	Nanjing Normal University	324	1.5	3335	78.7	28
97	Northeast Forestry University - China	573	0.69	3332	68.41	106
98	Tianjin Polytechnic University	706	0.72	3260	66.71	109
99	Changchun University of Science & Technology	419	0.9	3207	73.27	33
100	Yunnan University	264	1.21	3200	75.76	44

我校材料科学共有 3 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: 154  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: 67
3 HYDROTHERMAL SYNTHESIS OF N-DOPED TiO2 NANOWIRES AND N-DOPED GRAPHENE HETEROSTRUCTURES WITH ENHANCED PHOTOCATALYTIC PROPERTIES By: LIU, C; ZHANG, LQ; LIU, R; et al Source: J ALLOYS COMPOUNDS 656: 24-32 JAN 25 2016 Research Fields: MATERIALS SCIENCE	Times Cited: 4

图-10 济南大学材料科学高被引论文

详细记录：

1、被引频次 154（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

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出版年: FEB 2012

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研究方向:Engineering; Materials Science

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文献类型:Article

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PubMed ID: 22074665

ISSN: 0142-9612

2、被引频次 67（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]

查看 ResearcherID 和 ORCID

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

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ISSN: 1614-6832

eISSN: 1614-6840

3、引频次 4 (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

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DOI: 10.1016/j.jallcom.2015.09.211

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7.2.4 工程学学科现状分析

工程学 2016 年 10 月国内高校 ESI 排名如表-10 所示。可以看出排在前 10 位的高校分别是清华大学、上海交通大学、哈尔滨工业大学、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、中国科学技术大学、天津大学。在表-10 中，排名第 1 位的清华大学至排名第 106 位的长安大学，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 104 位，省内高校第 7 位。

表-10 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	总被引频次	论文被引百分比	国际合作论文
1	Tsinghua University	12213	1.25	101851	74.74	3370
2	Shanghai Jiao Tong University	10006	1.03	75760	74.12	2277
3	Harbin Institute of Technology	8030	1.39	72308	70.36	2051
4	Zhejiang University	8249	1.17	64332	73.22	2288
5	Xi'an Jiaotong University	7137	1.1	50016	70.84	1392
6	Huazhong University of Science & Technology	5950	1.3	46984	72.18	1352
7	Southeast University - China	5643	1.18	42236	67.82	1561
8	Dalian University of Technology	5288	1.05	36013	71.82	1242
9	University of Science & Technology of China	3507	1.48	33505	73.74	927
10	Tianjin University	4673	1.29	32690	70.19	1200
11	South China University of Technology	3270	1.47	29634	72.91	758
12	Peking University	3127	1.39	29151	75.02	926

13	Beihang University	5730	0.84	27823	64.54	1141
14	Tongji University	4436	1.14	27343	68.08	1467
15	University of Electronic Science & Technology of China	4784	0.82	25671	64.61	1244
16	Xidian University	3977	0.82	24360	66.08	630
17	Nanjing University of Aeronautics & Astronautics	3471	1	22667	66.03	710
18	Beijing Institute of Technology	3390	1.21	21352	64.34	796
19	Chongqing University	3458	1.09	20376	65.93	1024
20	Northeastern University – China	2467	1.22	19960	68.26	574
21	Central South University	2065	1.7	19327	72.4	600
22	Hunan University	2551	1.21	18860	69.38	762
23	Shandong University	2599	1.24	18750	70.18	558
24	Nanjing University of Science & Technology	2617	1.1	18027	67.67	532
25	University of Chinese Academy of Sciences	2335	1.43	16847	70.06	327
26	Nanjing University	1664	1.44	16813	74.64	445
27	Wuhan University	2214	1.28	16483	66.8	618
28	Sun Yat Sen University	1766	1.23	15074	72.48	427
29	Fudan University	1685	1.29	15021	74.24	608
30	Shanghai University	2103	1.07	15016	71.75	496
31	North China Electric Power University	2294	1.21	14875	67.22	661
32	Beijing Jiaotong University	2699	0.95	13188	64.32	868
33	East China University of Science & Technology	1642	1.34	12764	71.07	307
34	Northwestern Polytechnical University	2888	0.85	12201	61.46	761
35	Jilin University	1960	0.93	11883	66.33	333
36	National University of Defence Technology – China	2810	0.7	11369	59.07	513
37	Sichuan University	1914	1.04	11325	67.19	402
38	Jiangnan University	959	1.83	11256	70.7	279
39	China University of Petroleum	2451	0.99	10799	62.67	521
40	Xiamen University	1316	1.44	10337	72.72	457
41	University of Science & Technology Beijing	1555	1.24	10283	67.72	417
42	University Town of Shenzhen	1552	1.13	10191	68.69	443
43	Donghua University	841	1.84	10026	75.03	270
44	Nankai University	998	1.54	9948	76.35	206
45	Wuhan University of Technology	1278	1.18	9780	64.32	403
46	Hohai University	1934	0.84	8592	61.27	630

47	Beijing University of Technology	1578	0.92	8491	63.5	340
48	Lanzhou University	843	1.43	8126	73.78	143
49	China University of Mining & Technology	1760	1.06	7988	61.25	381
50	Southwest Jiaotong University	1621	0.96	7973	62.62	457
51	Hefei University of Technology	1174	1.33	7795	67.29	456
52	Nanjing University of Technology	844	1.43	7660	75.71	219
53	Harbin Engineering University	1640	1	7533	57.01	402
54	Beijing University of Chemical Technology	764	1.75	7259	73.95	149
55	Jiangsu University	1253	1.2	7100	64.88	206
56	Fuzhou University	611	1.4	7062	71.36	215
57	Zhejiang University of Technology	952	1.09	6712	68.49	244
58	Beijing University of Posts & Telecommunications	1495	0.74	6656	60.6	382
59	Beijing Normal University	761	1.35	6637	75.56	252
60	China University of Geosciences	1044	1.23	6456	66.48	353
61	Guangdong University of Technology	864	1.46	5871	64.7	259
62	Qingdao University	347	2.23	5870	70.61	103
63	Suzhou University	842	1.29	5171	63.06	213
64	Zhengzhou University	643	1.37	5109	69.67	151
65	Nanjing Normal University	540	1.58	5000	71.3	126
66	Yanshan University	1076	0.84	4973	64.13	211
67	Hangzhou Dianzi University	720	1.14	4828	60.42	202
68	Dalian Maritime University	632	1.26	4720	66.46	136
69	Liaoning University of Technology	203	4.66	4533	71.43	19
70	China Agricultural University	665	0.94	4328	73.38	187
71	East China Normal University	621	0.92	4306	68.92	164
72	Qufu Normal University	327	1.69	4213	73.39	52
73	South China Normal University	446	1.7	4182	75.56	67
74	Yangzhou University	356	2.23	4178	64.89	128
75	Ocean University of China	618	1.05	4137	67.8	148
76	Wuhan Naval University of Engineering	534	1.05	3992	73.41	31
77	Xiangtan University	410	1.74	3895	71.22	88
78	PLA University of Science & Technology	863	0.69	3533	53.3	68
79	Taiyuan University of Technology	708	1.13	3450	60.73	176
80	Jinan University	395	1.35	3399	68.61	88
81	Ningbo University	539	1.13	3369	66.79	120
82	Zhejiang Normal University	439	1.34	3244	73.8	79
83	Shenzhen University	693	1.02	3170	64.94	171
84	Chinese Research Academy of	234	1.86	3111	81.2	92

	Environmental Sciences					
85	University of Shanghai for Science & Technology	691	1.02	2992	61.36	204
86	Shenyang Aerospace University	337	1.35	2983	69.44	43
87	Guangxi University	442	1.23	2938	69.91	102
88	Huaqiao University	360	1.64	2886	62.5	62
89	Kunming University of Science & Technology	442	1.19	2854	65.38	126
90	Nanjing University of Posts & Telecommunications	683	0.79	2717	52.71	140
91	Bohai University	270	3.95	2670	56.3	84
92	Northeast Normal University - China	247	1.63	2648	69.23	23
93	Shaanxi Normal University	311	1.27	2608	71.06	46
94	Northwest A&F University - China	282	1.47	2590	70.57	90
95	China Jiliang University	522	0.83	2512	69.35	108
96	Anhui University of Technology	277	1.7	2483	71.84	68
97	Nanchang University	411	1.07	2458	68.37	89
98	Changsha University of Science & Technology	521	0.81	2402	69.1	169
99	Anhui University	365	1.18	2395	62.74	72
100	Tianjin Polytechnic University	421	1.19	2303	65.56	63
101	Qingdao University of Science & Technology	271	1.72	2284	71.59	49
102	Southwest University - China	353	1.45	2271	68.27	132
103	Heilongjiang University	233	1.64	2224	74.25	42
104	University of Jinan	310	1.51	2220	62.26	50
105	Nanjing University of Information Science & Technology	461	1.1	2198	60.3	151
106	Chang'an University	525	0.72	2190	56.76	157

我校工程学共有 11 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 By: FAN, LL; LUO, CN; LI, XJ; et.al Source: J HAZARD MATER 215: 272-279 MAY 15 2012 Research Fields: ENGINEERING	Times Cited: 147  Research Front
2	ADSORPTION OF PHOSPHATE FROM AQUEOUS SOLUTION BY HYDROXY-ALUMINUM, HYDROXY-IRON AND HYDROXY-IRON-ALUMINUM PILLARED BENTONITES By: YAN, LG; XU, YY; YU, HQ; et.al Source: J HAZARD MATER 179 (1-3): 244-250 JUL 15 2010 Research Fields: ENGINEERING	Times Cited: 86
3	HIGHLY EFFICIENT REMOVAL OF HEAVY METAL IONS BY AMINE-FUNCTIONALIZED MESOPOROUS FE₃O₄ NANOPARTICLES By: XIN, X; WEI, Q; YANG, J; et.al Source: CHEM ENG J 184: 132-140 MAR 1 2012 Research Fields: ENGINEERING	Times Cited: 77
4	NOVEL NANOCRYSTALLINE PDNI ALLOY CATALYST FOR METHANOL AND ETHANOL ELECTRO-OXIDATION IN ALKALINE MEDIA By: QI, Z; GENG, HR; WANG, XG; et.al Source: J POWER SOURCES 196 (14): 5823-5828 SP. ISS. SI JUL 15 2011 Research Fields: ENGINEERING	Times Cited: 74
5	NANOPOROUS PDCU ALLOY FOR FORMIC ACID ELECTRO-OXIDATION By: XU, CX; LIU, YQ; WANG, JP; et.al Source: J POWER SOURCES 199: 124-131 FEB 1 2012 Research Fields: ENGINEERING	Times Cited: 74  Research Front
6	Ag₃PO₄/GRAPHENE-OXIDE COMPOSITE WITH REMARKABLY ENHANCED VISIBLE-LIGHT-DRIVEN PHOTOCATALYTIC ACTIVITY TOWARD DYES IN WATER By: CHEN, GD; SUN, M; WEI, Q; et.al Source: J HAZARD MATER 244: 86-93 JAN 15 2013 Research Fields: ENGINEERING	Times Cited: 68
7	NANOPOROUS PTCO AND PTNI ALLOY RIBBONS FOR METHANOL ELECTROOXIDATION By: XU, CX; HOU, JG; PANG, XH; et.al Source: INT J HYDROGEN ENERG 37 (14): 10489-10498 JUL 2012 Research Fields: ENGINEERING	Times Cited: 52
8	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 By: GUO, XY; DU, B; WEI, Q; et.al Source: J HAZARD MATER 278: 211-220 AUG 15 2014 Research Fields: ENGINEERING	Times Cited: 52
9	CHINA'S REGIONAL ENERGY AND ENVIRONMENTAL EFFICIENCY: A DEA WINDOW ANALYSIS BASED DYNAMIC EVALUATION By: WANG, K; YU, SW; ZHANG, W; Source: MATH COMPUT MODELLING 58 (5-6): 1117-1127 SEP 2013 Research Fields: ENGINEERING	Times Cited: 37
10	HETEROGENEOUS ACTIVATION OF OXONE BY COXFE₃-XO₄ NANOCATALYSTS FOR DEGRADATION OF RHODAMINE B By: SU, SN; GUO, WL; LENG, YQ; et.al Source: J HAZARD MATER 244: 736-742 JAN 15 2013 Research Fields: ENGINEERING	Times Cited: 37  Research Front
11	EDTA FUNCTIONALIZED MAGNETIC GRAPHENE OXIDE FOR REMOVAL OF PB(II), HG(II) AND CU(II) IN WATER TREATMENT: ADSORPTION MECHANISM AND SEPARATION PROPERTY By: CUI, LM; WANG, YG; GAO, L; et.al Source: CHEM ENG J 281: 1-10 DEC 1 2015 Research Fields: ENGINEERING	Times Cited: 15

图-11 济南大学工程学高被引论文

详细记录：

1、被引频次 147（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

作者信息

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电子邮件地址:fanlu1949@126.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:000303306400034

PubMed ID: 22429622

ISSN: 0304-3894

2、被引频次 86（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

作者信息

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[3] Ocean Univ China, Coll Chem & Chem Engr, Qingdao 266100, Peoples R China

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 77 (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 74（济南大学是第 2 作者单位，材料科学与工程学院）

Novel nanocrystalline PdNi alloy catalyst for methanol and ethanol electro-oxidation in alkaline media

作者: Qi, Z (Qi, Zhen)[1] ; Geng, HR (Geng, Haoran)[2] ; Wang, XG (Wang, Xiaoguang)[1] ; Zhao, CC (Zhao, Changchun)[1] ; Ji, H (Ji, Hong)[1] ; Zhang, C (Zhang, Chi)[1] ; Xu, JL (Xu, Junling)[1] ; Zhang, ZH (Zhang, Zhonghua)[1]

JOURNAL OF POWER SOURCES

卷: 196 期: 14 页: 5823-5828 特刊: SI

DOI: 10.1016/j.jpowsour.2011.02.083

出版年: JUL 15 2011

作者信息

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研究方向: Electrochemistry; Energy & Fuels

Web of Science 类别: Electrochemistry; Energy & Fuels

文献信息

文献类型: Article

语种: English

入藏号: WOS:000290837000005

ISSN: 0378-7753

5、被引频次 74（济南大学是第 1 作者和通讯作者单位，化学化工学院）

Nanoporous PdCu alloy for formic acid electro-oxidation

作者: Xu, CX (Xu, Caixia)[1] ; Liu, YQ (Liu, Yunqing)[1] ; Wang, JP (Wang, Jinping)[1] ; Geng, HR (Geng, Haoran)[1] ; Qiu, HJ (Qiu, Huajun)[2,3]

JOURNAL OF POWER SOURCES

卷: 199 页: 124-131

DOI: 10.1016/j.jpowsour.2011.10.075

出版年: FEB 1 2012

作者信息

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研究方向:Electrochemistry; Energy & Fuels
Web of Science 类别:Electrochemistry; Energy & Fuels
文献信息
文献类型:Article
语种:English
入藏号: WOS:000298269700016
ISSN: 0378-7753

6、被引频次 68（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]

查看 ResearcherID 和 ORCID

JOURNAL OF HAZARDOUS MATERIALS

卷: 244 页: 86-93

DOI: 10.1016/j.jhazmat.2012.11.032

出版年: JAN 15 2013

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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:000315001000011

PubMed ID: 23246944

ISSN: 0304-3894

7、被引频次 52（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

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研究方向:Chemistry; Electrochemistry; Energy & Fuels

Web of Science 类别:Chemistry, Physical; Electrochemistry; Energy & Fuels

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 52 (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, Weiying)[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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Web of Science 类别:Engineering, Environmental; Engineering, Civil; Environmental
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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

9、被引频次 37（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

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研究方向:Computer Science; Mathematics

Web of Science 类别:Computer Science, Interdisciplinary Applications; Computer Science, Software Engineering; Mathematics, Applied

文献信息

文献类型:Article

语种:English

入藏号: WOS:000321700400024

ISSN: 0895-7177

eISSN: 1872-9479

10、被引频次 37（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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基金资助致谢

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:000315001000086

PubMed ID: 23195597

ISSN: 0304-3894

11、被引频次 15（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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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:000362308200001

ISSN: 1385-8947

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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 2016 年 10 月国内高校 ESI 排名如表-11 所示。可以看出排在前 10 位的高校分别是中国科学技术大学、清华大学、北京大学、浙江大学、南京大学、

上海交通大学、山东大学、复旦大学、吉林大学、华中科技大学。在表-11 中，排名第 1 位的中国科学技术大学至排名第 34 位的同济大学，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 90 位，省内高校第 4 位。

表-11 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	总被引频次	论文被引百分比	国际合作论文
1	University of Science & Technology of China	10374	1.34	138565	80.3	3788
2	Tsinghua University	10385	1.38	134249	81.27	3326
3	Peking University	9508	1.45	131794	82.21	3633
4	Zhejiang University	7073	1.11	83927	83.06	2444
5	Nanjing University	7144	1.25	81041	80.15	2136
6	Shanghai Jiao Tong University	5857	1.2	61325	80.23	2005
7	Shandong University	4479	1.49	59310	81.89	1550
8	Fudan University	4536	1.22	54964	81.37	1572
9	Jilin University	4060	1.01	42465	80.34	905
10	Huazhong University of Science & Technology	5514	0.84	41824	74.54	988
11	Sun Yat Sen University	2917	1.74	40080	83.51	1046
12	Nankai University	3240	1.18	39805	80.83	944
13	Harbin Institute of Technology	5105	0.71	36237	76.34	1015
14	University of Chinese Academy of Sciences	5097	0.82	32085	69.41	798
15	Dalian University of Technology	3403	0.8	31779	79.72	682
16	Xi'an Jiaotong University	4223	0.78	31745	75.73	1153
17	Central China Normal University	1947	1.68	29945	80.69	1012
18	Southeast University - China	2930	1.05	29528	76.76	701
19	Lanzhou University	3203	0.91	28533	77.93	762
20	Beihang University	3276	0.97	26305	75.34	915
21	Beijing Normal University	2626	0.96	25384	78.87	585
22	Shanghai University	2903	0.82	24779	78.82	648
23	University of Electronic Science & Technology of China	3933	0.72	24308	75.11	988

24	Wuhan University	2151	1.03	23708	78.75	514
25	Tianjin University	2835	0.76	20799	74.46	560
26	Suzhou University	2122	1.19	20063	79.74	632
27	Sichuan University	3477	0.55	19721	73.77	542
28	Hunan University	1710	1.16	19473	82.11	405
29	East China Normal University	2154	0.83	18797	79.85	523
30	South China University of Technology	1747	1.17	17981	77.85	298
31	Xiamen University	1700	1.08	16318	76.65	543
32	Beijing University of Posts & Telecommunications	2224	0.72	15093	73.83	305
33	National University of Defence Technology - China	2549	0.66	15074	74.26	303
34	Tongji University	1856	0.81	14088	76.02	430
35	Wuhan University of Technology	903	1.46	14048	76.52	244
36	University of Science & Technology Beijing	1751	0.84	13684	76.98	456
37	South China Normal University	1807	0.7	13251	75.59	246
38	Chongqing University	1697	0.86	12412	75.43	327
39	East China University of Science & Technology	903	1.3	12393	82.95	239
40	Donghua University	597	1.34	11621	81.91	136
41	Nanjing University of Aeronautics & Astronautics	1432	0.86	11564	75.49	234
42	Northwestern Polytechnical University	2082	0.63	11407	75.22	345
43	Renmin University of China	556	2.11	10850	80.4	232
44	Beijing Jiaotong University	1750	0.66	10351	74.11	315
45	Nanjing University of Science & Technology	1465	0.71	9794	72.7	283
46	Xidian University	1964	0.53	9773	73.63	146
47	Zhejiang Normal University	948	0.9	9721	83.86	175
48	Fuzhou University	821	1.16	9473	76.49	117
49	Northeast Normal University - China	648	1.06	9425	75.46	87
50	Shanxi University	1318	0.78	9175	73.37	280
51	Xiangtan University	1079	0.82	9092	81.09	254
52	Anhui University	1206	0.73	8898	73.13	113
53	Henan Normal University	1145	0.86	8864	78.17	279
54	Beijing University of Chemical Technology	671	1.28	8734	82.12	127
55	Beijing University of Technology	1411	0.63	8619	73.64	254
56	Central South University	1298	0.76	8414	76.66	280
57	Ningbo University	1248	0.68	8412	76.76	185
58	Shenzhen University	1089	1.1	8083	72.45	204
59	Northeastern University - China	1029	0.73	7515	74.05	216

60	Nanjing Normal University	1018	1.08	7414	74.56	291
61	Hunan Normal University	1048	0.65	7375	78.91	91
62	Yanshan University	943	0.65	6670	76.56	150
63	Southwest Jiaotong University	1225	0.55	6623	71.67	289
64	Nanchang University	811	0.76	6117	78.91	64
65	Zhengzhou University	980	0.99	6057	74.18	244
66	Hangzhou Normal University	641	1.31	5961	79.56	265
67	University of Shanghai for Science & Technology	1036	0.58	5770	69.21	224
68	Capital Normal University	800	0.61	5670	75.75	223
69	Southwest University – China	660	1.03	5576	74.24	168
70	Harbin Engineering University	715	0.81	5565	68.95	107
71	Jiangsu University	947	0.64	5527	72.86	75
72	Nanjing University of Posts & Telecommunications	858	0.95	5482	67.72	142
73	Guangxi University	656	0.9	5295	78.51	229
74	Guangxi Normal University	603	1	5135	79.1	218
75	Anhui Normal University	475	0.93	5115	84.21	42
76	Yangzhou University	472	0.76	4921	78.39	67
77	North China Electric Power University	730	0.94	4814	68.77	82
78	Shaanxi Normal University	873	0.61	4805	71.25	148
79	Nanjing University of Technology	407	1.48	4755	78.87	90
80	Henan University	626	0.75	4612	76.36	65
81	Shandong Normal University	686	0.58	4572	76.24	83
82	Changchun University of Science & Technology	846	0.5	4534	69.27	63
83	China University of Petroleum	818	0.62	4431	69.68	157
84	China Jiliang University	734	0.72	4388	72.07	140
85	Hebei Normal University	637	0.69	4315	77.39	70
86	China University of Mining & Technology	844	0.64	4247	72.99	111
87	University Town of Shenzhen	700	0.84	4162	70.57	162
88	Yunnan University	548	0.7	4109	77.19	98
89	Northwest Normal University – China	703	0.55	4090	77.24	99
90	University of Jinan	462	1.02	4069	77.27	67
91	Jiangxi Normal University	668	0.6	4062	70.21	53
92	Jiangnan University	549	0.71	3982	70.49	65
93	Hebei University of Technology	685	0.55	3970	71.24	105
94	Taiyuan University of Technology	629	0.75	3938	66.93	63
95	Northwest University Xi'an	724	0.73	3930	76.93	138
96	China University of Geosciences	579	0.93	3906	72.02	119
97	Fujian Normal University	514	0.62	3833	75.49	83
98	Guangzhou University	392	0.75	3785	82.65	34

99	Shanghai Normal University	417	0.85	3715	77.22	71
100	Hefei University of Technology	584	0.69	3650	71.75	98

我校物理学共有 5 篇高被引论文，如图-12 所示：

1	GENERALIZED FABRICATION OF NANOPOROUS METALS (AU, PD, PT, AG, AND CU) THROUGH CHEMICAL DEALLOYING By: ZHANG, ZH; WANG, Y; QI, Z; et.al Source: J PHYS CHEM C 113 (29): 12629-12636 JUL 23 2009 Research Fields: PHYSICS Times Cited: 158
2	FIRST-PRINCIPLES STUDY OF FERROMAGNETISM IN TWO-DIMENSIONAL SILICENE WITH HYDROGENATION By: ZHANG, CW; YAN, SS; Source: J PHYS CHEM C 116 (6): 4163-4166 FEB 16 2012 Research Fields: PHYSICS Times Cited: 86
3	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: 41  Research Front
4	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: 17
5	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: 10

图-12 济南大学物理学高被引论文

详细记录：

1、被引频次 158（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

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学科类别:Chemistry; Science & Technology - Other Topics; Materials Science

Web of Science 类别:Chemistry, Physical; Nanoscience & Nanotechnology; Materials Science, Multidisciplinary

文献类型:Article

语种:English

入藏号: WOS:000268139800004

ISSN: 1932-7447

2、被引频次 86（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）

First-Principles Study of Ferromagnetism in Two-Dimensional Silicene with Hydrogenation

作者:Zhang, CW (Zhang, Chang-wen)[1] ; Yan, SS (Yan, Shi-shen)[2]

查看 ResearcherID 和 ORCID

JOURNAL OF PHYSICAL CHEMISTRY C

卷: 116 期: 6 页: 4163-4166

DOI: 10.1021/jp2104177

出版年: FEB 16 2012

查看期刊信息

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

Web of Science 类别:Chemistry, Physical; Nanoscience & Nanotechnology; Materials Science, Multidisciplinary

文献信息

文献类型:Article

语种:English

入藏号: WOS:000300277800037

ISSN: 1932-7447

3、被引频次 41（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]

查看 ResearcherID 和 ORCID

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

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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

4、被引频次 17（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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[6] Sandia Natl Labs, Livermore, CA 94551 USA

[7] Univ Jinan, Sch Chem & Chem Engrn, Jinan 250022, Peoples R China

[8] SLAC Natl Accelerator Lab, Stanford Inst Mat & Energy Sci, Menlo Pk, CA 94025 USA

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AMER CHEMICAL SOC, 1155 16TH ST, NW, WASHINGTON, DC 20036 USA

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

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语种:English

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PubMed ID: 26011653

ISSN: 1530-6984

eISSN: 1530-6992

5、被引频次 10（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, Weixiao)[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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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

7.3.2 生物和生物化学学科现状分析

生物和生物化学 2016 年 10 月国内高校 ESI 排名如表-12 所示。可以看出排在前 10 位的高校分别是上海交通大学、浙江大学、北京大学、清华大学、复旦大学、中山大学、山东大学、中科院大学、武汉大学、四川大学。在表-12 中，排名第 1 位的上海交通大学至排名第 44 位的南方医科大学，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 90 位，省内高校第 5 位。

表-12 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	总 被 引 频 次	论文被引百分比	国 际 合 作 论 文
1	Shanghai Jiao Tong University	3640	0.91	43508	78.05	924
2	Zhejiang University	3244	0.88	36186	80.52	803
3	Peking University	2753	1	36047	80.46	849
4	Tsinghua University	2148	1.17	33628	86.45	610
5	Fudan University	2740	0.87	32627	79.82	777
6	Sun Yat Sen University	2040	0.99	25125	78.48	494
7	Shandong University	2323	0.78	21724	75.76	555
8	University of Chinese Academy of Sciences	2028	1.07	19024	77.91	381
9	Wuhan University	1473	0.97	18982	80.72	349
10	Sichuan University	1760	0.83	16445	76.93	354
11	University of Science & Technology of China	1052	1.06	16240	84.89	279

12	China Agricultural University	1310	0.94	15827	82.44	396
13	Huazhong University of Science & Technology	1584	0.83	14501	78.72	413
14	Nanjing University	1141	0.95	12946	80.37	245
15	East China University of Science & Technology	1219	0.84	12757	83.68	189
16	South China University of Technology	748	1.41	12739	85.03	168
17	Nankai University	1093	0.95	12713	83.26	321
18	Jiangnan University	1376	0.78	12060	80.74	296
19	Central South University	1277	0.76	11569	75.72	335
20	Jilin University	1492	0.68	10945	72.45	435
21	Nanjing Agricultural University	959	0.92	10775	81.33	182
22	Tongji University	1281	0.85	10368	73.85	315
23	Dalian University of Technology	778	0.95	10067	87.02	178
24	Suzhou University	1050	0.87	9898	75.05	274
25	Fourth Military Medical University	936	0.88	9728	81.2	221
26	Xiamen University	892	0.93	9585	80.04	296
27	Harbin Institute of Technology	823	1.29	9518	81.41	252
28	Nanjing Medical University	1104	0.78	9187	73.46	231
29	Tianjin University	777	0.98	8609	82.88	158
30	Second Military Medical University	999	0.72	8429	78.08	188
31	Huazhong Agricultural University	930	0.84	8197	78.92	219
32	Southeast University - China	701	1.01	7488	74.32	151
33	Harbin Medical University	910	0.77	7400	76.04	221
34	Ocean University of China	671	0.79	7026	82.56	139
35	Xi'an Jiaotong University	907	0.69	6917	74.31	313
36	Lanzhou University	634	0.78	6585	81.39	79
37	Third Military Medical University	866	0.66	6479	75.06	163
38	Hunan University	342	1.33	6322	87.43	52
39	Capital Medical University	927	0.63	6199	66.99	215
40	Shanghai University	412	1.06	5981	84.95	146
41	China Medical University	835	0.64	5890	73.53	241
42	Jinan University	656	0.8	5870	80.49	140
43	Beijing University of Chemical Technology	439	1.13	5805	83.83	101

44	Southern Medical University - China	698	0.73	5668	72.49	181
45	Northwest A&F University - China	727	0.82	5319	77.58	193
46	Southwest University - China	476	0.88	5280	80.67	110
47	Tianjin Medical University	568	0.89	5253	75.18	151
48	Beijing Normal University	438	0.78	4975	85.16	100
49	East China Normal University	425	1.03	4922	82.12	181
50	Shenzhen University	231	1.4	4719	73.59	74
51	China Pharmaceutical University	588	0.68	4546	79.25	99
52	Nanjing University of Technology	399	0.9	4255	81.45	45
53	Zhengzhou University	813	0.52	4252	51.29	125
54	Chongqing Medical University	546	0.71	4198	71.43	132
55	Wenzhou Medical University	621	0.61	3766	64.9	207
56	Hunan Normal University	285	0.77	3738	85.26	80
57	University of Electronic Science & Technology of China	169	2.08	3625	80.47	46
58	Donghua University	216	1.31	3598	89.35	116
59	University Town of Shenzhen	370	1.47	3497	76.22	104
60	Chongqing University	396	0.8	3457	81.57	106
61	Zhejiang University of Technology	380	0.81	3420	83.16	71
62	Nanchang University	391	0.9	3366	71.87	114
63	Tianjin University Science & Technology	382	0.78	3361	76.44	73
64	South China Normal University	236	0.87	3347	79.24	41
65	Shantou University	313	0.68	3324	83.39	54
66	Anhui Medical University	422	0.78	3117	67.3	87
67	Nanjing Normal University	332	0.65	3087	82.83	44
68	Dalian Medical University	366	0.75	2991	73.77	100
69	South China Agricultural University	373	0.71	2978	77.75	79
70	Shenyang Pharmaceutical University	285	0.77	2938	86.32	82
71	Sichuan Agricultural University	385	0.75	2799	71.69	82
72	Shanghai University of Traditional Chinese Medicine	273	0.9	2649	73.99	81
73	Northeast Agricultural University - China	404	0.74	2638	75.74	46
74	Guangxi University	240	0.81	2637	80.83	46

75	Jiangsu University	398	0.81	2608	66.83	85
76	Yangzhou University	306	0.82	2570	78.76	60
77	Qingdao University of Science & Technology	146	0.91	2562	90.41	17
78	Northeast Forestry University – China	260	0.81	2511	73.85	75
79	Yunnan University	207	0.64	2403	83.57	51
80	Beijing Forestry University	254	1.17	2344	79.53	55
81	Beijing Institute of Technology	184	0.99	2271	79.35	46
82	Shanxi University	245	0.66	2210	80.82	40
83	Guangzhou Medical University	383	0.69	2193	66.32	83
84	Shandong Agricultural University	245	0.66	2154	82.04	38
85	Northeast Normal University – China	236	0.77	2150	79.24	34
86	Beijing University of Technology	241	0.86	2084	university of jinan	41
87	University of South China	273	0.64	2076		64
88	Northwest University Xi'an	260	0.67	2074	75	50
89	Hebei Medical University	347	0.55	2021	64.27	85
90	University of Jinan	246	0.97	1974	72.36	43
91	Nantong University	305	0.69	1966	74.1	49
92	Central China Normal University	210	0.86	1941	77.62	65
93	North China University of Science & Technology	104	2.43	1849	76.92	38
94	Qingdao University	375	0.59	1838	61.87	59
95	Inner Mongolia University	117	0.95	1751	73.5	17
96	Hefei University of Technology	141	1.15	1669	82.27	33
97	Guangxi Medical University	257	0.81	1625	64.59	69
98	Zhejiang Sci-Tech University	188	0.8	1620	82.98	30
99	Shanghai Normal University	139	0.92	1584	82.01	39
100	University of Science & Technology Beijing	140	1.19	1581	78.57	36

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 By: KONG, L; ZHU, JJ; HAN, WX; et.al Source: ACTA DIABETOL 48 (1): 61-69 MAR 2011 Research Fields: BIOLOGY & BIOCHEMISTRY Times Cited: 128
2	HIGHLY SELECTIVE ADSORPTION OF LEAD IONS BY WATER-DISPERSIBLE MAGNETIC CHITOSAN/GRAPHENE OXIDE COMPOSITES By: FAN, LL; LUO, CN; SUN, M; et.al Source: COLLOID SURFACE B 103: 523-529 MAR 1 2013 Research Fields: BIOLOGY & BIOCHEMISTRY Times Cited: 84  Research Front
3	ADSORBENT FOR CHROMIUM REMOVAL BASED ON GRAPHENE OXIDE FUNCTIONALIZED WITH MAGNETIC CYCLODEXTRIN-CHITOSAN By: LI, LL; FAN, LL; SUN, M; et.al Source: COLLOID SURFACE B 107: 76-83 JUL 1 2013 Research Fields: BIOLOGY & BIOCHEMISTRY Times Cited: 66  Research Front
4	SILENCING OF LONG NONCODING RNA MALAT1 BY MIR-101 AND MIR-217 INHIBITS PROLIFERATION, MIGRATION, AND INVASION OF ESOPHAGEAL SQUAMOUS CELL CARCINOMA CELLS By: WANG, XY; LI, M; WANG, ZQ; et.al Source: J BIOL CHEM 290 (7): 3925-3935 FEB 13 2015 Research Fields: BIOLOGY & BIOCHEMISTRY Times Cited: 34  Research Front

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 128（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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摘要

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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 84（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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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 66（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]

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4、被引频次 34 (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]

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研究方向:Biochemistry & Molecular Biology

Web of Science 类别:Biochemistry & Molecular Biology

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7.3.3 数学学科现状分析

数学 2016 年 10 月国内高校 ESI 排名如表-13 所示。可以看出排在前 10 位的高校分别是北京大学、复旦大学、清华大学、兰州大学、浙江大学、上海交通大学、北京师范大学、山东大学、东南大学、南开大学。在表-13 中,排名第 1 位的北京大学至排名第 27 位的南方医科大学 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 97 位,省内高校第 6 位。

表-13 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	总被引频次	论文被引百分比	国际合作论文
1	Peking University	1813	1.1	9272	66.35	598
2	Fudan University	1686	1.1	8003	68.68	519
3	Tsinghua University	1515	1.05	7495	67.59	470
4	Lanzhou University	1007	1.65	7454	72.79	173
5	Zhejiang University	1768	0.87	6902	61.99	460
6	Shanghai Jiao Tong University	1372	1.16	6881	65.52	430
7	Beijing Normal University	1512	1.29	6813	67.99	433
8	Shandong University	1597	1.06	6734	63.31	368

9	Southeast University – China	1087	1.36	6618	63.29	235
10	Nankai University	1525	1.16	6482	66.43	422
11	Harbin Institute of Technology	1336	1.35	6374	61.23	292
12	University of Science & Technology of China	1263	1.15	6134	65.4	430
13	Shanghai University	1238	1.2	6122	67.61	269
14	Sun Yat Sen University	1234	1.03	5722	67.34	323
15	East China Normal University	1432	0.93	5468	64.87	375
16	Shanghai Normal University	926	1.3	5440	69.44	332
17	Xiamen University	1126	1.27	5103	60.39	279
18	Xi'an Jiaotong University	1039	1.11	5085	66.31	224
19	Nanjing University	1228	0.99	4849	63.6	269
20	Dalian University of Technology	1318	0.84	4830	61.91	178
21	Central South University	1049	1.45	4825	64.35	157
22	South China Normal University	1178	0.95	4728	65.79	167
23	Sichuan University	1090	0.93	4461	62.29	250
24	Wuhan University	1121	1	4367	63.78	269
25	Huazhong University of Science & Technology	901	1.08	4138	65.82	187
26	Hunan University	769	1.05	3872	63.85	117
27	Zhejiang Normal University	866	1.12	3703	64.2	195
28	Qufu Normal University	697	1.12	3646	64.13	158
29	Donghua University	433	1.83	3630	66.51	89
30	Beijing Institute of Technology	821	1.05	3589	66.14	169
31	Xiangtan University	442	1.83	3513	70.36	94
32	Chongqing University	842	1.14	3508	63.18	104
33	Tianjin Polytechnic University	561	1.47	3428	62.92	197
34	Suzhou University	881	1	3223	63	163
35	Northeast Normal University – China	633	1.18	3177	64.45	163
36	Nanjing Normal University	967	0.75	3163	57.08	131
37	Tongji University	880	1.01	3014	58.75	159
38	South China University of Technology	618	1.3	3000	59.39	136
39	Jiangnan University	331	1.79	2904	46.53	39
40	Jilin University	898	0.9	2827	58.13	136
41	Fuzhou University	443	1.2	2779	70.2	70
42	University of Electronic Science & Technology of China	652	1.15	2561	62.58	118
43	Central China Normal University	749	0.98	2497	62.08	209

44	Capital Normal University	596	0.96	2491	60.07	160
45	Southwest University – China	608	1.21	2459	58.88	131
46	Beihang University	652	1.23	2159	58.13	134
47	Henan Polytech University	464	1.69	2071	66.59	77
48	Beijing University of Technology	517	0.87	2054	56.29	84
49	Jiangsu Normal University	540	0.89	1985	60.74	108
50	China University of Mining & Technology	639	1.03	1955	52.11	75
51	Yunnan University	495	1.15	1945	64.24	76
52	Hunan Normal University	571	0.75	1932	63.22	125
53	Henan Normal University	567	0.94	1926	55.2	66
54	Beijing Jiaotong University	558	0.94	1907	59.32	140
55	Anhui University	413	1.45	1902	68.28	46
56	Nanjing University of Aeronautics & Astronautics	591	0.86	1862	54.99	106
57	Xinjiang University	500	0.8	1841	58	76
58	Northwest Normal University – China	534	0.76	1824	56.93	33
59	Shanxi University	433	1	1814	58.66	53
60	Shantou University	273	1.46	1789	66.3	55
61	Zhengzhou University	440	0.98	1675	61.82	53
62	Huzhou University	275	1.38	1667	73.09	27
63	Shaanxi Normal University	399	0.97	1667	61.9	57
64	Nanjing University of Science & Technology	380	1.18	1662	56.58	84
65	Changsha University of Science & Technology	333	1.09	1649	65.17	54
66	Jiangsu University	334	1.18	1607	60.78	45
67	Guangzhou University	358	0.84	1583	51.12	54
68	North China Electric Power University	349	0.98	1571	57.59	60
69	Tianjin University	550	0.98	1506	56.91	74
70	Xidian University	403	0.92	1352	54.84	48
71	China University of Petroleum	376	0.96	1317	59.31	37
72	Shandong University of Science & Technology	254	1.09	1317	62.2	18
73	Harbin Normal University	212	1.11	1315	69.34	59
74	Renmin University of China	388	0.92	1312	56.96	115
75	Shanghai University of Finance & Economics	381	1.01	1276	54.86	173
76	Hangzhou Normal University	389	0.93	1269	61.7	97
77	Northeastern University –	353	0.99	1265	51.27	79

	China					
78	Nanjing University of Information Science & Technology	345	1.07	1262	57.97	69
79	Fujian Normal University	446	0.81	1241	58.74	63
80	Lanzhou Jiaotong University	228	1.16	1234	69.3	42
81	Yunnan Normal University	203	1.68	1224	66.5	32
82	University of Science & Technology Beijing	227	1.23	1219	61.23	43
83	East China University of Science & Technology	319	1.05	1216	56.74	66
84	Beijing University of Posts & Telecommunications	276	1.1	1189	58.7	42
85	Guangxi University	276	0.76	1181	65.58	13
86	Hohai University	381	0.99	1132	54.07	67
87	Yangzhou University	368	0.77	1094	57.34	71
88	Northwest University Xi'an	334	0.74	1087	52.99	26
89	Guizhou University	175	1.78	1078	64	34
90	Anhui Normal University	276	0.99	1072	61.96	34
91	Yantai University	246	1.1	1056	63.01	62
92	Henan University	344	0.85	1037	54.94	47
93	Wenzhou University	262	1.11	1023	65.27	46
94	Jiaxing University	276	1.15	1009	62.68	29
95	Sichuan Normal University	315	0.72	1001	62.86	41
96	Kunming University of Science & Technology	253	1.17	993	64.43	21
97	University of Jinan	248	1.09	981	57.26	61
98	Nanchang University	320	0.82	976	54.38	18
99	Hangzhou Dianzi University	373	0.78	965	53.08	60
100	Jiangxi Normal University	414	0.76	952	53.38	93

我校数学共有 2 篇高被引论文，如图-14 所示：

1	POSITIVE SOLUTIONS FOR BOUNDARY VALUE PROBLEMS OF NONLINEAR FRACTIONAL DIFFERENTIAL EQUATIONS By: ZHAO, YG; SUN, SR; HAN, ZL; et.al Source: APPL MATH COMPUT 217 (16): 6950-6958 APR 15 2011 Research Fields: MATHEMATICS Times Cited: 46  Research Front
2	LEAST SQUARE REGRESSION WITH INDEFINITE KERNELS AND COEFFICIENT REGULARIZATION By: SUN, HW; WU, QA; Source: APPL COMPUT HARMONIC ANAL 30 (1): 96-109 JAN 2011 Research Fields: MATHEMATICS Times Cited: 42  Research Front

图-14 济南大学数学高被引论文

详细记录：

1、被引频次 46（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]

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Web of Science 类别:Mathematics, Applied

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ISSN: 0096-3003

2、被引频次 42（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]

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APPLIED AND COMPUTATIONAL HARMONIC ANALYSIS

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DOI: 10.1016/j.acha.2010.04.001

出版年: JAN 2011

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研究方向:Mathematics; Physics

Web of Science 类别:Mathematics, Applied; Physics, Mathematical

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