

2017年3月份更新

济南大学 ESI 学科 分析报告

2006年1月1日-2016年12月31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 3 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 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，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 3 个，分别是物理、生物与生物化学、数学。

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 3 月 13 日的统计数据中（2017 年 3 月份更新数据），山东省共有 11 所高校共计 17 个学科（**曲阜师范大学新增化学学科**）进入了 ESI 全球前 1%，具体情况如表-1 所示。

表-1 2017 年 3 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	295	6
中国海洋大学	9	85	1
中国石油大学	4	88	0
济南大学	4	51	0
青岛大学	3	64	4
青岛科技大学	3	27	2
曲阜师范大学	2	35	0
山东农业大学	2	17	2

山东师范大学	1	19	0
山东科技大学	1	15	0
聊城大学	1	13	0

2.2 山东省 ESI 学科全球排名情况

在 2017 年 3 月 13 日的统计数据中（2017 年 3 月份更新数据），山东省共有 11 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 3 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
农业科学	702	457					315				
生物及生物化学	313	776									
化学	97	761	477	438	989	630		840	843	1196	
临床医学	509				1474	1548					
计算机科学	394										
经济学与商学											
工程学	178	765	299	1110	649	1144				799	1273
环境学及生态学	614	489									
地学		254	437								
免疫学	557										
材料科学	96	607	365	580		643					
数学	97										
微生物学											
分子生物学与遗传学	604										
综合学科											
神经科学与行为科学	596										
药理学与毒理学	175	648									
物理学	245										
植物与动物科学	756	307					362				
心理学与精神病学											
一般社会科学	1008										
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 2006 年 1 月 1 日-2016 年 12 月 31 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、工程学和生物学与生物化学等学科，如图-1 所示。（数据来源于 Incites）

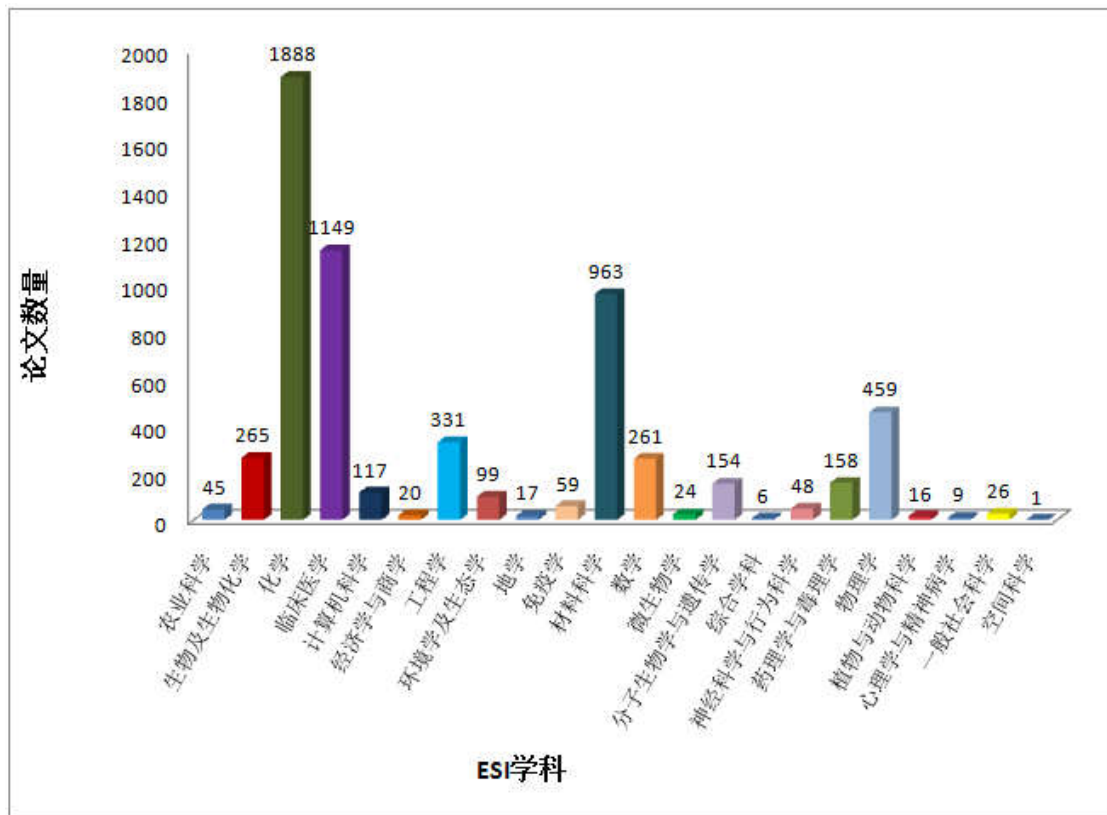


图-1 济南大学各学科的科研产出(2006-2016)

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。（数据来源于 Incites）

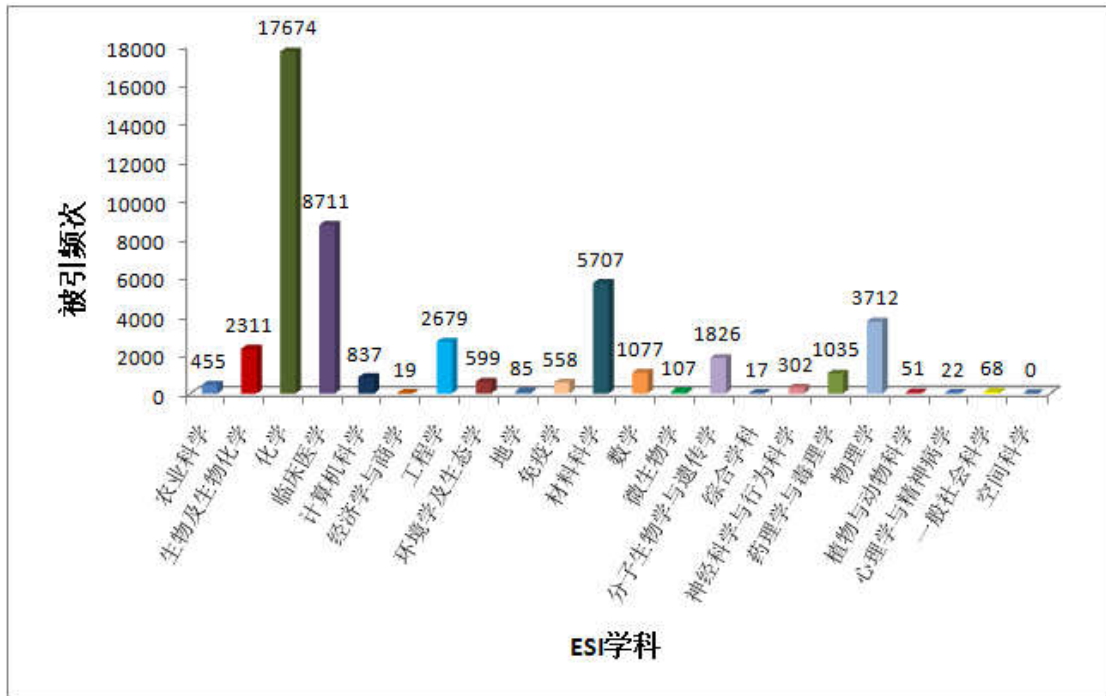


图-2 济南大学各学科论文的总被引频次(2006-2016)

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。（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。

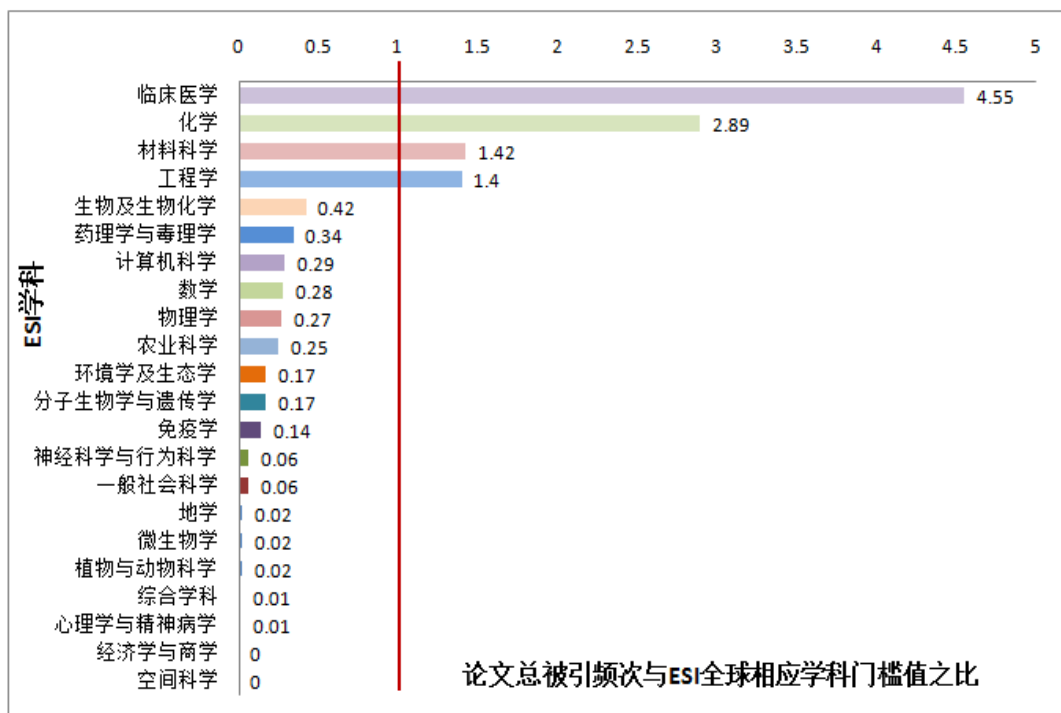


图-3 济南大学 ESI 学科趋势预测

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 ESI 2017 年 3 月 13 日 (2017 年 3 月份更新数据) 统计结果，我校共有 51 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 303 次。

6 济南大学 ESI 高被引论文总体情况

截至到 2017 年 3 月 13 日（2017 年 3 月份更新数据），我校高被引论文共 51 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	1,890	17,291	9.15	11
2	CLINICAL MEDICINE	1,150	8,571	7.45	6
3	MATERIALS SCIENCE	961	5,453	5.67	6
4	ENGINEERING	332	2,443	7.36	14
0	ALL FIELDS	6,124	46,123	7.53	51

图-4 济南大学高被引论文

6.1 高被引论文学科分布

我校 51 篇高被引论文中，进入前 1% 学科的共有 37 篇，分别是 Chemistry（化学）11 篇，Clinical Medicine（临床医学）6 篇（有 1 篇不是济南大学文章），Materials Science（材料科学）6 篇，Engineering（工程）14 篇（有 1 篇不是济南大学文章）；其他未进入前 1% 学科的高被引论文共 14 篇，分别是 Physics（物理）6 篇，Biology & Biochemistry（生物和生物化学）4 篇，Mathematics（数学）3 篇，Agriculture Sciences（农业科学）1 篇（不是济南大学文章），如图-5 所示。

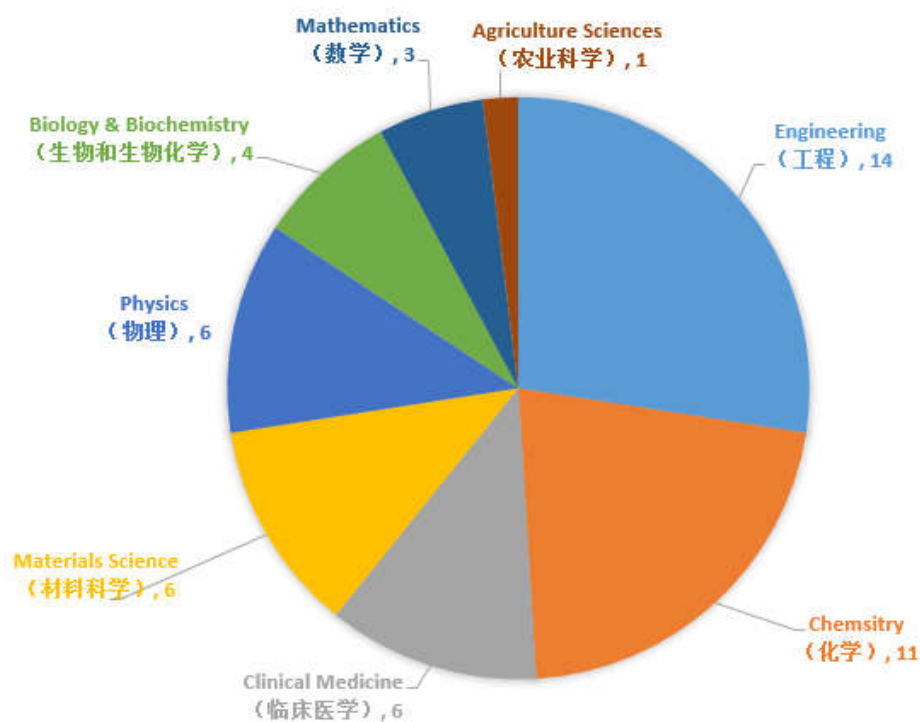


图-5 高被引论文学科分布

6.2 高被引论文学院分布

总起来说，51 篇高被引论分布在 8 个学院，其中化学化工学院 14 篇、资源与环境学院 8 篇、医学与生命科学学院 7 篇、物理科学与技术学院 7 篇、材料科学与工程学院 5 篇、生物科学与技术学院 3 篇、数学科学学院 3 篇、商学院 1 篇、其他 3 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	14
资源与环境学院	8
医学与生命科学学院	7

物理科学与技术学院	7
材料科学与工程学院	5
生物科学与技术学院	3
数学科学学院	3
商学院	1
其他	3

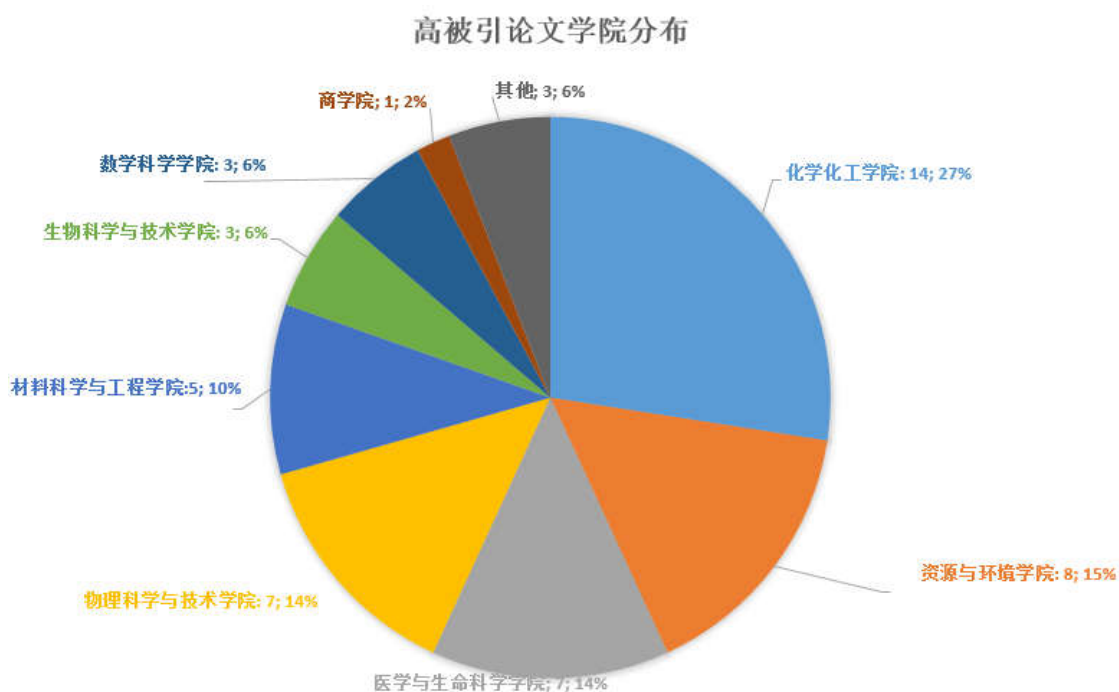


图-6 高被引论文学院分布

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、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。材料科学 6 篇高被引论文平均分布在 3 个学院,工程学位论文主要来自资源与环境学院,。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	农业科学
化学化工学院	6	2	3		2		1	
资源与环境学院			8					
医学与生命科学学院				5	2			
物理科学与技术学院		2					5	
材料科学与工程学院	2	2	1					
生物科学与技术学院	3							
数学科学学院						3		
商学院			1					
其他			1	1				1

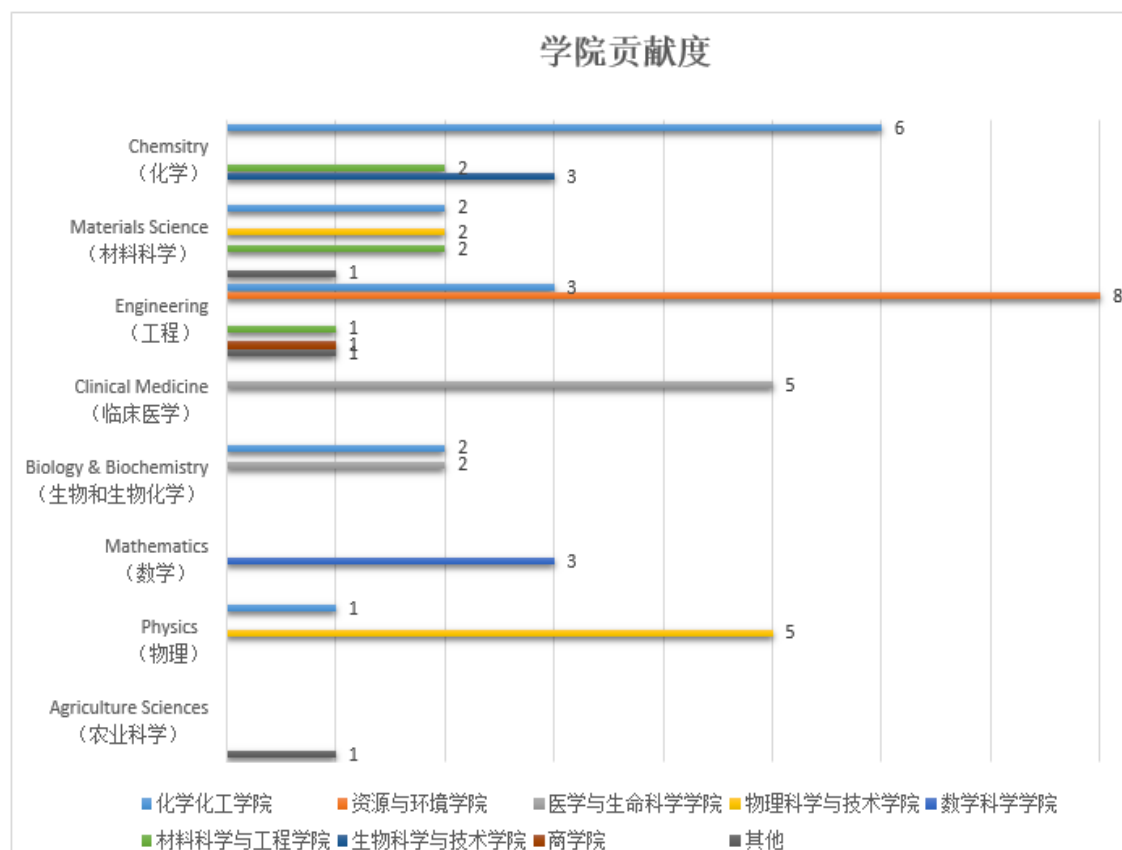


图-7 高被引论文学院贡献度

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，我校共有 29 篇高被引论文，比 2017 年 1 月份统计数据增加 5 篇，新增作者 3 位，论文来自 14 位作者，数量较多的是杜斌团队和张昌文团队，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	2	Wang shoumei	1
				Ge Lei	1
		徐彩霞	2	徐彩霞	1
				徐彩霞	1
魏琴	1	Gao Jian	1		
资源与环境学院	8	杜斌	5	Cui Limei	1
				Yan Liangguo	1
				Xin Xiaodong	1
				Guo Xiaoyao	1
				Wei Dong	1
		孙蒙	1	Chen Guodong	1
		国伟林	1	Su Shengnan	1
闫良国	1	Shan Ran-ran	1		
物理科学与技术学院	6	张昌文	5	Zhang Run-wu	3
				Zhao Hui	1
				Wang Yaping	1
		徐锡金	1	Zhang Shouwei	1
生物科学与技术学院	3	林伟英	3	Tang Yonghe	2
				Chen Hua	1
数学科学学院	2	孙书荣	2	Zhao Yige	2
材料科学与工程学院	1	曹丙强	1	Xu Qi	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

和我校 ESI 高被引论文 2017 年 1 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高被引论文中，均保持高被引态势，另外新增 5 篇，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	2016年11月份数据更新被引数据	2017年01月份数据更新被引数据	2017年03月份数据更新被引数据
化学化工学院	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	159	165	174
	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	114	122	127
	ENGINEERING (工程)	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		Fan Lulu	151	158	165
	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	罗川南	Fan Lulu	86	90	97
		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	67	75	82
	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	76	78	83
NANOPOROUS PTCO AND PTNI ALLOY RIBBONS FOR METHANOL ELECTROOXIDATION		INT J HYDROGEN ENERG 37 (14): 10489-10498 JUL 2012	2012	53			56	56	
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	28	31	34	
资源与环境学院	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 Lianguo	87	93	100
		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	81	86	90
		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	53	59	63
	CHEMISTRY (化学)	REMOVAL OF MERCURY AND METHYLENE BLUE FROM AQUEOUS SOLUTION BY XANTHATE FUNCTIONALIZED MAGNETIC GRAPHENE OXIDE: SORPTION KINETIC	J COLLOID INTERFACE SCI 439: 112-120 FEB 1 2015	2015		Cui Limei	23		

ENGINEERING (工程)	AND UPTAKE MECHANISM								
	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	16	24	30	
	Extracellular polymeric substances for Zn (II) binding during its sorption process onto aerobic granular sludge	JOURNAL OF HAZARDOUS MATERIALS 卷:301 页: 407-415	2016		Wei Dong	4	6	7	
	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	71	76	80	
	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	40	46	49	
Magnetic Fe3O4/MgAl-LDH composite for effective removal of three red dyes from aqueous solution	CHEMICAL ENGINEERING JOURNAL 卷:252 页: 38-46	2014	闫良国	Shan Ran-ran			33		
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	89		
		UNEXPECTED GIANT-GAP QUANTUM SPIN HALL INSULATOR IN CHEMICALLY DECORATED PLUMBENE MONOLAYER	SCI REP 6: - FEB 2 2016	2016		Zhao Hui	12	18	20
		FUNCTIONALIZED THALLIUM ANTIMONY FILMS AS EXCELLENT CANDIDATES FOR LARGE-GAP QUANTUM SPIN HALL INSULATOR	SCI REP 6: - FEB 17 2016	2016		Zhang Run-wu		9	12
		Controllable band structure and topological phase transition in two-dimensional hydrogenated arsenene	SCI REP 6: - FEB 3 2016	2016		Wang, Ya-ping		9	11
		ROOM TEMPERATURE QUANTUM SPIN HALL INSULATOR IN ETHYNYL-DERIVATIVE FUNCTIONALIZED STANENE FILMS	SCI REP 6: - JAN 5 2016	2016		Zhang Run-wu		8	10
		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	2016		Zhang Run-wu			9
		Formation of Fe3O4@MnO2 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	2016	徐锡金	Zhang ShouWei			11
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	孙书荣	Zhao Yige	46	47	52
		Positive Solutions to Boundary Value Problems of Nonlinear Fractional Differential Equations	ABSTRACT AND APPLIED ANALYSIS 文献号:390543	2011		Zhao Yige			38

生物科学与技术学院	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	林伟英	Tang Yongke	34	43	49
		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
		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
材料科学与工程学院	MATERIALS SCIENCES (材料科学)	Effect of H3BO3 addition on the sintering behavior and microwave dielectric properties of wolframite-type MgZrNb2O8 ceramics	JOURNAL OF ALLOYS AND COMPOUNDS, 2016, 661: 535-540 2016	吴海涛	吴海涛	4		
		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		
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	289	295	303

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（讯第1作者单位）	通（讯第2作者单位）	通（讯第4作者单位）	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)	11	1	234	化学化工学院				√						
			2	173	材料科学与工程学院				√						
			3	160	化学化工学院				√						
			4	127	化学化工学院	√									
			5	49	生物科学与技术学院	√									
			6	34	化学化工学院	√									
			7	13	化生物科学与技术学院	√									
			8	12	生物科学与技术学院	√				√					
			9	10	化学化工学院					√					
			10	10	化学化工学院					√					
			11	9	材料科学与工程学院	√									
	Clinical Medicine (临床医学)	6	1	303	医学与生命科学学院	√									
			2	165	医学与生命科学学院									√	
			3	84	医学与生命科学学院								√		
			4	21	医学与生命科学学院		√								
			5	7	不是济南大学文章										
			6	7	医学与生命科学学院-肿瘤医院		√								
	(Materials Science) 材料科学	6	1	174	化学化工学院	√									
			2	84	化学化工学院				√						
			3	14	材料科学与工程学院					√					
			4	14	材料科学与工程学院					√					
			5	11	物理科学与技术学院	√									
			6	9	物理科学与技术学院	√									
				1	165	化学化工学院	√								
				2	100	资源与环境学院	√								
				3	90	资源与环境学院	√								

Engineering (工程)	14	4	83	化学化工学院	√												
		5	82	材料科学与工程学院				√									
		6	80	资源与环境学院	√												
		7	63	资源与环境学院	√												
		8	56	化学化工学院	√												
		9	50	商学院 (经济学院)				√									
		10	49	资源与环境学院	√												
		11	33	资源与环境学院	√												
		12	6	资源与环境学院	√												
		13	4	资源与环境学院	√												
		14	4	不是济南大学文章													
		未进入前1%学科	Physics (物理)	6	1	54	物理科学与技术学院				√						
					2	37	化学化工学院							√			
					3	20	物理科学与技术学院	√									
4	12				物理科学与技术学院	√											
5	11				物理科学与技术学院	√											
6	10				物理科学与技术学院	√											
Biology & Biochemistry (生物和生物化学)	4		1	139	山东省肿瘤医院 (医学与生命科学学院附属医院)							√					
			2	97	化学化工学院	√											
			3	82	化学化工学院	√											
			4	51	医学与生命科学学院					√							
Mathematics (数学)	3		1	52	数学科学学院	√											
			2	44	数学科学学院				√								
			3	38	数学科学学院	√											
Agriculture Sciences (农业科学)	1		1	50	不是济南大学文章												

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 2017 年 3 月份国内高校 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、南开大学、吉林大学、华东理工大学和中科院大学。在表-8 中，排名第 1 位的浙江大学至排名第 122 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 59 位，省内高校第 4 位。

表-8 化学学科国内高校排名

名称	排名	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
Zhejiang University	1	12989	1.13	195600	85.98	1996
Tsinghua University	2	10207	1.43	187934	85.32	1706
Nanjing University	3	9663	1.37	168487	86.67	1593
Peking University	4	8613	1.45	161267	87.21	1712
University of Science & Technology of China	5	8546	1.52	159436	86.25	1585
Fudan University	6	7471	1.42	151064	87.46	1391
Nankai University	7	7815	1.43	146139	87.61	891
Jilin University	8	11535	1.01	143515	82.26	1581
East China University of Science & Technology	9	8289	1.21	122697	84.21	1559
University of Chinese Academy of Sciences	10	10680	1.25	121657	79.17	1025
Dalian University of Technology	11	5936	1.3	99096	85.04	1269
Sichuan University	12	9263	0.89	98941	81.31	946
Xiamen University	13	5583	1.39	95679	85.87	1182
Wuhan University	14	5158	1.4	94559	87.44	707
Sun Yat Sen University	15	5035	1.43	91470	86.87	772
Shandong University	16	7407	0.98	87856	82.46	1070
South China University of Technology	17	6156	1.26	83762	83.77	1034
Shanghai Jiao Tong University	18	5935	1.1	83188	85.07	1172

Lanzhou University	19	5239	1.31	81453	87.27	459
Tianjin University	20	7105	0.97	77156	79.44	978
Suzhou University	21	5300	1.31	73502	84.85	966
Beijing University of Chemical Technology	22	6136	0.99	73260	83.6	862
Hunan University	23	4057	1.44	65606	84.69	539
Northeast Normal University - China	24	3789	1.17	61840	85.83	283
Fuzhou University	25	3237	1.51	55347	85.39	348
East China Normal University	26	3298	1.39	51976	86.96	575
Harbin Institute of Technology	27	4373	1.02	49142	78.76	891
Huazhong University of Science & Technology	28	3603	1.23	45137	81.6	765
Beijing Institute of Technology	29	3937	0.96	42241	78.87	646
Central China Normal University	30	2317	1.31	40418	82.43	273
Wuhan University of Technology	31	1690	1.99	39710	82.6	507
Southeast University - China	32	3853	0.9	39490	76.36	501
National Center for Nanoscience & Technology - China	33	1292	2.21	35417	87.38	295
Nanjing University of Technology	34	3877	0.88	35079	76.12	525
Tongji University	35	2826	1.07	34591	82.13	466
Xi'an Jiaotong University	36	3222	1.02	34021	77.84	688
Shanghai University	37	2677	1.15	33397	79.23	423
Zhengzhou University	38	3574	0.89	33360	80.22	351
Donghua University	39	2485	1.07	31958	82.7	503
Central South University	40	3589	0.91	31270	81.42	531
Southwest University - China	41	2642	1.09	30412	81.91	231
Beijing Normal University	42	2593	0.97	29433	84.27	540
Northwest University Xi'an	43	2889	0.89	28287	80.34	345
Qingdao University of Science & Technology	44	2666	0.82	27288	79.11	162

Nanjing University of Science & Technology	45	2723	0.91	26703	79.18	278
Zhejiang University of Technology	46	3158	0.73	26069	76.25	334
University of Science & Technology Beijing	47	2442	1.07	25821	78.87	464
China University of Petroleum	48	2848	0.85	25003	75.21	495
Anhui Normal University	49	1297	1.29	21567	86.74	82
Jiangsu University	50	2324	1.15	21302	77.67	289
China Pharmaceutical University	51	2571	0.75	21111	81.45	286
Jiangnan University	52	2613	0.84	20759	76.62	437
Beihang University	53	1804	1.17	20174	76.61	284
South China Normal University	54	2055	0.84	20150	81.75	419
University Town of Shenzhen	55	1482	1.4	18790	82.05	260
Xiangtan University	56	1735	1.01	18383	81.73	201
Henan Normal University	57	1715	0.85	18316	81.11	180
Shaanxi Normal University	58	2107	0.8	18110	79.31	239
University of Jinan	59	1888	1.1	17674	78.6	176
Chongqing University	60	2257	0.98	17421	72.4	371
Yangzhou University	61	1576	0.99	17269	81.79	212
Harbin Engineering University	62	962	1.46	17253	80.67	141
China Agricultural University	63	2104	0.63	16999	74.14	294
Henan University	64	1862	0.8	16542	81.79	160
Nanjing Normal University	65	1173	1.21	16307	84.06	133
Zhejiang Normal University	66	1447	1.05	15994	81.2	178
Hunan Normal University	67	1070	1.12	15759	86.26	104
Shanghai Normal University	68	887	1.32	15715	85.68	108
Nanchang University	69	1699	0.9	15215	80.05	248
Wenzhou University	70	1179	1.01	15097	82.61	139
Nanjing University of Posts & Telecommunications	71	805	1.52	14694	79.63	125
Northeastern University	72	1460	0.79	14129	75.21	251

- China						
Ocean University of China	73	1641	0.77	13800	79.52	185
Hefei University of Technology	74	1393	0.97	13769	76.67	202
Heilongjiang University	75	1340	1.02	13595	77.69	193
Jinan University	76	1595	0.77	13584	77.93	164
Shanxi University	77	1448	0.9	13518	77	186
Beijing University of Technology	78	1234	0.95	12827	79.01	179
Jiangxi Normal University	79	1152	1.2	12733	80.9	99
Zhejiang Sci-Tech University	80	1123	1.13	12708	81.66	226
Northwestern Polytechnical University	81	1555	0.92	12695	79.81	245
Nanjing University of Aeronautics & Astronautics	82	962	1.2	12487	80.56	183
China University of Geosciences	83	1377	1.02	12317	75.89	332
Northwest Normal University - China	84	1565	0.8	12259	79.81	76
Hubei University	85	1038	1.01	12054	84.01	209
Guangxi Normal University	86	1207	0.78	11897	79.12	123
Shandong Normal University	87	1136	0.89	11594	79.49	99
Liaocheng University	88	1699	0.51	11585	76.22	69
Hebei University	89	1587	0.56	11578	74.92	67
Hangzhou Normal University	90	1062	1.02	11572	81.54	144
Shenyang Pharmaceutical University	91	1580	0.59	11492	80.51	217
Tianjin Normal University	92	919	0.91	11412	76.71	43
Shanghai Institutes for Biological Sciences	93	752	0.97	11257	90.29	164
Anhui University	94	1216	0.9	11209	74.26	114
Jiangsu Normal University	95	1208	0.88	10888	75.41	104
Changzhou University	96	1337	1	10201	75.54	150
Huaqiao University	97	773	1.17	9917	83.31	61
Huazhong Agricultural	98	838	0.98	9804	81.26	106

University						
South Central University for Nationalities	99	751	1.16	9565	82.96	91
Liaoning Normal University	100	1145	0.6	9257	80.35	59
Qingdao University	101	869	0.96	9077	78.83	224
Renmin University of China	102	634	1.24	8991	85.02	114
Yunnan University	103	1009	0.71	8552	78	98
Capital Normal University	104	1075	0.83	8424	76.37	84
Shantou University	105	441	1.14	8107	87.53	74
Second Military Medical University	106	935	0.65	7991	82.89	98
Tianjin Polytechnic University	107	1171	0.7	7960	74.81	117
Taiyuan University of Technology	108	1404	0.65	7895	71.37	179
Hebei Normal University	109	818	0.74	7702	78.85	74
Liaoning University	110	897	0.7	7555	80.49	83
Northwest A&F University - China	111	1028	0.79	7554	76.26	219
Luoyang Normal University	112	1100	0.56	7424	62.45	49
Fujian Normal University	113	958	0.78	7238	75.78	94
Guizhou University	114	949	0.74	7195	75.66	181
Northeast Forestry University - China	115	786	0.85	7123	79.26	127
Wenzhou Medical University	116	499	1.21	6981	75.55	77
University of Electronic Science & Technology of China	117	1014	0.76	6957	74.65	227
Xinjiang University	118	929	0.66	6855	75.78	81
China University of Mining & Technology	119	1177	0.67	6779	69.84	233
Ningbo University	120	1114	0.68	6723	73.88	117
Hebei University of Technology	121	979	0.64	6577	73.75	128
Qufu Normal University	122	860	0.86	6270	75.7	59

我校化学学科共有 11 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: 234
	By: QIE, L; CHEN, WM; XU, HH; et.al Source: ENERGY ENVIRON SCI 6 (8): 2497-2504 AUG 2013 Research Fields: CHEMISTRY	
2	GENERALIZED FABRICATION OF NANOPOROUS METALS (AU, PD, PT, AG, AND CU) THROUGH CHEMICAL DEALLOYING	Times Cited: 173
	By: ZHANG, ZH; WANG, Y; QI, Z; et.al Source: J PHYS CHEM C 113 (29): 12629-12636 JUL 23 2009 Research Fields: CHEMISTRY	
3	HIGH-PERFORMANCE BI-FUNCTIONAL ELECTROCATALYSTS OF 3D CRUMPLED GRAPHENE-COBALT OXIDE NANOHYBRIDS FOR OXYGEN REDUCTION AND EVOLUTION REACTIONS	Times Cited: 160
	By: MAO, S; WEN, ZH; HUANG, TZ; et.al Source: ENERGY ENVIRON SCI 7 (2): 609-616 FEB 2014 Research Fields: CHEMISTRY	
4	PAPER-BASED CHEMILUMINESCENCE ELISA: LAB-ON-PAPER BASED ON CHITOSAN MODIFIED PAPER DEVICE AND WAX-SCREEN-PRINTING	Times Cited: 127  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: 49
	By: TANG, YH; LEE, DY; WANG, JL; et.al Source: CHEM SOC REV 44 (15): 5003-5015 2015 Research Fields: CHEMISTRY	
6	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: 34
	By: GAO, J; GUO, ZK; SU, FJ; et.al Source: BIOSENS BIOELECTRON 63: 465-471 JAN 15 2015 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: 13  Research Front
	By: CHEN, H; TANG, YH; REN, MG; et.al Source: CHEM SCI 7 (3): 1896-1903 2016 Research Fields: CHEMISTRY	
8	DEVELOPMENT OF A TWO-PHOTON FLUORESCENT PROBE FOR IMAGING OF ENDOGENOUS FORMALDEHYDE IN LIVING TISSUES	Times Cited: 12
	By: TANG, YH; KONG, XQ; XU, A; et.al Source: ANGEW CHEM INT ED 55 (10): 3356-3359 MAR 1 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: 10
	By: WANG, L; ZHANG, GY; KODAMAA, K; et.al Source: GREEN CHEM 18 (5): 1229-1233 2016 Research Fields: CHEMISTRY	
10	EFFICIENT ENHANCEMENT OF ELECTROCHEMILUMINESCENCE FROM CADMIUM SULFIDE QUANTUM DOTS BY GLUCOSE OXIDASE MIMICKING GOLD NANOPARTICLES FOR HIGHLY SENSITIVE ASSAY OF METHYLTRANSFERASE ACTIVITY	Times Cited: 10
	By: ZHOU, H; HAN, TQ; WEI, Q; et.al Source: ANAL CHEM 88 (5): 2976-2983 MAR 1 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 234 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

通讯作者地址: Hu, XL (通讯作者)

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

地址:

[1] Huazhong Univ Sci & Technol, Sch Mat Sci & Engn, Minist Educ, Key Lab Adv Battery Mat & Syst, Wuhan 430074, Hubei, Peoples R China

[2] Univ Jinan, Sch Chem & Chem Engn, 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 173 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)

Shandong Univ, Key Lab Liquid Solid Struct Evolut & Proc Mat, Sch Mat Sci & Engn,
Minist Educ, Jingshi Rd 73, Jinan 250061, Peoples R China.

地址:

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

[2] Univ Jinan, Sch Mat Sci & Engn, 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

3、被引频次 160 (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.

地址:

[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

4、被引频次 127 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, Shenguang)[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)

Univ Jinan, Sch Chem & Chem Engn, Jinan 250022, Peoples R China.

[1] Univ Jinan, Sch Chem & Chem Engn, Jinan 250022, Peoples R China

[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 49（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, Weiyang)[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)

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

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] 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

6、被引频次 34 (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

作者信息

通讯作者地址: Wei, Q (通讯作者)

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

地址:

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

电子邮件地址:sdjndxwq@163.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:000343337000063

PubMed ID: 25129508

ISSN: 0956-5663

eISSN: 1873-4235

7、被引频次 13 (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)

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, Weiyong)[1,2]

CHEMICAL SCIENCE

卷: 7

期: 3

页: 1896-1903

DOI: 10.1039/c5sc03591k

出版年: 2016

作者信息

通讯作者地址: Lin, WY (通讯作者)

Univ Jinan, Sch Biol Sci & Technol, Sch Chem & Chem Engn, Inst Fluorescent Probes Biol Imaging, Jinan 250022, Shandong, Peoples R China.

通讯作者地址: Lin, WY (通讯作者)

Hunan Univ, Coll Chem & Chem Engn, State Key Lab Chemo Biosensing & Chemometr, Changsha 410082, Hunan, Peoples R China.

地址:

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

[2] Hunan Univ, Coll Chem & Chem Engn, 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 10 (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 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, Weiyong)[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

通讯作者地址: Lin, WY (通讯作者)

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

地址:

[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:weiyonglin2013@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

9、被引频次 10 (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

作者信息

通讯作者地址: Hirose, T (通讯作者)

Saitama Univ, Grad Sch Sci & Engr, Sakura Ku, 255 Shimo Okubo, Saitama 3388570, Japan.
地址:

[1] Saitama Univ, Grad Sch Sci & Engr, Sakura Ku, 255 Shimo Okubo, Saitama 3388570, Japan

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

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

10、被引频次 10 (济南大学是第 2 作者单位, 化学化工学院)

Efficient Enhancement of Electrochemiluminescence from Cadmium Sulfide Quantum Dots by Glucose Oxidase Mimicking Gold Nanoparticles for Highly Sensitive Assay of Methyltransferase Activity

作者:Zhou, H (Zhou, Hong)[1] ; Han, TQ (Han, Tongqian)[2] ; Wei, Q (Wei, Qin)[2] ; Zhang, SS (Zhang, Shusheng)[1]

ANALYTICAL CHEMISTRY

卷: 88 期: 5 页: 2976-2983

DOI: 10.1021/acs.analchem.6b00450

出版年: MAR 1 2016

作者信息

通讯作者地址: Zhang, SS (通讯作者)

Linyi Univ, Sch Chem & Chem Engrn, Shandong Prov Key Lab Detect Technol Tumor Marker, Linyi 276005, Peoples R China.

通讯作者地址: Wei, Q (通讯作者)

Univ Jinan, Sch Chem & Chem Engrn, Shandong Univ, Key Lab Chem Sensing & Anal, Jinan 250022, Peoples R China.

地址:

[1] Linyi Univ, Sch Chem & Chem Engrn, Shandong Prov Key Lab Detect Technol Tumor Marker, Linyi 276005, Peoples R China

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

电子邮件地址:sdjndxwq@163.com; shushzhang@126.com

文献信息

文献类型:Article

语种:English

入藏号: WOS:000371371400065

PubMed ID: 26857780

ISSN: 0003-2700

eISSN: 1520-6882

11、被引频次 9 (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)

Near room-temperature triethylamine sensor constructed with CuO/ZnO P-N heterostructural nanorods directly on flat electrode

作者:Xu, Q (Xu, Qi)[1] ; Ju, DX (Ju, Dianxing)[1] ; Zhang, ZC (Zhang, Zichao)[1] ; Yuan, S (Yuan, Shuai)[1] ; Zhang, J (Zhang, Jun)[1] ; Xu, HY (Xu, Hongyan)[1] ; Cao, BQ (Cao, Bingqiang)[1]

SENSORS AND ACTUATORS B-CHEMICAL

卷: 225 页: 16-23

DOI: 10.1016/j.snb.2015.10.108

出版年: MAR 31 2016

作者信息

通讯作者地址: Cao, BQ (通讯作者)

Univ Jinan, Lab Inorgan Funct Mat, Sch Mat Sci & Engn, Jinan 250022, Shandong, Peoples R China.

地址:

[1] Univ Jinan, Lab Inorgan Funct Mat, Sch Mat Sci & Engn, Jinan 250022, Shandong, Peoples R China

电子邮件地址:mse_caobq@ujn.edu.cn

文献信息

文献类型:Article

语种:English

入藏号: WOS:000366759500003

ISSN: 0925-4005

7.2.2 临床医学学科现状分析

临床医学 2017 年 3 月份国内高校 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、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 73 位的浙江中医药大学,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

名称	排名	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
Shanghai Jiao Tong University	1	14234	1.14	152208	77.96	3289
Sun Yat Sen University	2	10802	1.12	115141	79.11	2383
Fudan University	3	10623	1.17	108903	78.05	2604
Peking University	4	9340	1.12	105048	78.2	2789

Zhejiang University	5	8216	0.92	69086	74.85	1525
Capital Medical University	6	8425	0.89	66385	72.24	2100
Sichuan University	7	7778	0.82	58700	75.44	1419
Nanjing Medical University	8	6271	1.1	54715	78.23	1146
Huazhong University of Science & Technology	9	6811	0.86	53861	77.13	1583
Second Military Medical University	10	4915	1.09	52931	79.78	859
Shandong University	11	6463	0.87	48177	74.25	1267
Fourth Military Medical University	12	4367	1.04	46068	82.48	942
Central South University	13	5265	1.06	44037	73.47	1094
China Medical University	14	4771	0.85	36141	76.78	907
Nanjing University	15	3490	1.16	34114	77.94	678
Third Military Medical University	16	3560	0.96	32054	78.79	652
Southern Medical University - China	17	3945	1.02	31548	73.61	719
Harbin Medical University	18	3562	1.01	31309	77.82	819
Wuhan University	19	3862	0.99	29525	76.41	763
Tianjin Medical University	20	3376	1.03	28588	74.17	811
Tongji University	21	3499	1.07	27720	74.42	787
Suzhou University	22	3294	0.97	25286	73.89	641
Xi'an Jiaotong University	23	3378	0.89	24993	73.39	743
Chongqing Medical University	24	3033	1.11	23995	73.95	605
Wenzhou Medical University	25	2870	0.83	18980	70.59	749
Zhengzhou University	26	3183	0.83	18881	67.89	642
Jilin University	27	3031	0.84	18037	67.7	771
Anhui Medical University	28	2322	0.92	16892	73.86	462
Guangzhou Medical University	29	2178	0.97	15697	72.96	392
Southeast University - China	30	1947	1.05	15221	72.78	420
Guangxi Medical University	31	1777	0.94	13004	73.49	253
Fujian Medical University	32	1912	0.75	11676	68.78	303
Tsinghua University	33	1148	1.01	11319	76.05	345
Hebei Medical University	34	1672	0.81	11054	70.04	248
Xiamen University	35	1325	0.99	10189	72.83	348
Dalian Medical University	36	1365	0.89	10018	70.18	304
Jinan University	37	1359	0.8	9914	72.48	256
Shantou University	38	908	1.1	9367	76.87	191
Qingdao University	39	1693	0.73	9280	67.1	215

University of Jinan	40	1149	0.9	8711	73.98	133
Nantong University	41	1319	0.86	8006	71.57	151
Nanjing University of Chinese Medicine	42	835	1.24	7752	70.06	182
Nankai University	43	618	1.04	6703	79.61	193
Lanzhou University	44	860	0.83	6549	72.67	194
Jiangsu University	45	909	0.92	6462	74.7	92
Nanchang University	46	1061	0.89	6055	67.95	173
Shanghai University of Traditional Chinese Medicine	47	967	0.81	5627	70.63	252
University of Science & Technology of China	48	369	1.37	5331	82.66	156
Guangdong Medical University	49	754	0.98	5064	74.93	139
Kunming Medical University	50	857	0.86	4848	68.49	214
Shanxi Medical University	51	640	0.87	4499	73.13	167
Xinjiang Medical University	52	861	0.83	4275	64.23	150
China Pharmaceutical University	53	439	1.09	4229	76.99	118
Xuzhou Medical College	54	797	0.8	4031	69.13	96
University Town of Shenzhen	55	455	1.03	3821	72.75	178
Ningbo University	56	397	1.17	3713	76.83	81
East China Normal University	57	312	1.14	3673	78.53	143
University of South China	58	456	1.04	3663	75	93
Beijing University of Chinese Medicine	59	813	0.54	3490	66.42	233
Guangzhou University of Chinese Medicine	60	764	0.64	3298	66.36	170
Yanbian University	61	344	0.84	2965	77.91	236
University of Chinese Academy of Sciences	62	335	1.61	2930	78.21	96
Beijing YouAn Hospital	63	248	1.25	2853	77.82	72
Southwest Medical University	64	405	0.95	2790	65.93	79
Yangzhou University	65	453	0.98	2651	72.63	79
Ningxia Medical University	66	449	0.85	2642	71.94	84
Shenzhen University	67	406	0.96	2550	66.26	107
Shanghai University	68	221	1	2523	79.19	64
Beijing Normal University	69	243	0.85	2404	76.95	96

Hunan Normal University	70	295	0.76	2378	79.66	128
North China University of Science & Technology	71	312	0.79	2312	69.23	59
Shenyang Pharmaceutical University	72	175	1.25	2290	79.43	47
Zhejiang Chinese Medical University	73	463	0.66	1973	60.91	86

我校临床医学共有 6 篇高被引论文，如图-9 所示：

<p>1 GENOMEWIDE ASSOCIATION STUDY OF LEPROSY</p> <p>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</p>	Times Cited: 303
<p>2 PREVALENCE, AWARENESS, TREATMENT, AND CONTROL OF HYPERTENSION IN RURAL AND URBAN COMMUNITIES IN HIGH-, MIDDLE-, AND LOW-INCOME COUNTRIES</p> <p>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</p>	Times Cited: 165 Research Front
<p>3 CARDIOVASCULAR RISK AND EVENTS IN 17 LOW-, MIDDLE-, AND HIGH-INCOME COUNTRIES</p> <p>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</p>	Times Cited: 84
<p>4 A FUNCTIONAL LNCRNA HOTAIR GENETIC VARIANT CONTRIBUTES TO GASTRIC CANCER SUSCEPTIBILITY</p> <p>By: PAN, WT; LIU, LS; WEI, JY; et.al Source: MOL CARCINOGEN 55 (1): 90-96 JAN 2016 Research Fields: CLINICAL MEDICINE</p>	Times Cited: 21
<p>5 RADIATION-INDUCED MIR-208A INCREASES THE PROLIFERATION AND RADIORESISTANCE BY TARGETING P21 IN HUMAN LUNG CANCER CELLS</p> <p>By: TANG, YT; CUI, YY; LI, ZP; et.al Source: J EXP CLIN CANCER RES 35: - JAN 12 2016 Research Fields: CLINICAL MEDICINE</p>	Times Cited: 7
<p>6 MICRORNA-613 INHIBITED OVARIAN CANCER CELL PROLIFERATION AND INVASION BY REGULATING KRAS</p> <p>By: FU, X; CUI, YF; YANG, SB; et.al Source: TUMOR BIOL 37 (5): 6477-6483 MAY 2016 Research Fields: CLINICAL MEDICINE</p>	Times Cited: 7 Research Front

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 303（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

作者信息

通讯作者地址: Zhang, FR (通讯作者)

Shandong Acad Med Sci, Shandong Prov Inst Dermatol & Venereol, 57 Jiyan Lu, Jinan 250022, Shandong, Peoples R China.

地址:

[1] Shandong Acad Med Sci, Shandong Prov Inst Dermatol & Venereol, Jinan 250022, Shandong, Peoples R China

电子邮件地址:zhangfuren@hotmail.com; ayzxj@vip.sina.com; liuj3@gis.a-star.edu.sg

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 165 (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, Jephath)[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

通讯作者地址: Yusuf, S (通讯作者)

Hamilton Gen Hosp, Populat Hlth Res Inst, PURE Project Off, 237 Barton St East, Hamilton, ON L8L 2X2, Canada.

地址:

[1] Hamilton Hlth Sci & McMaster Univ, Populat Hlth Res Inst, Hamilton, ON, Canada

[2] Fortis Escorts Hosp, JLN Marg, Jaipur, Rajasthan, India

[3] Dante Pazzanese Inst Cardiol, Sao Paulo, Brazil

- [4] Univ Med Sci, Cardiovasc Res Inst, Cardiovas Res Ctr, Esfahan, Iran
- [5] Univ Zimbabwe, Coll Hlth Sci, Dept Physiol, Harare, Zimbabwe
- [6] Univ Heart & Lung Inst, Quebec City, PQ, Canada
- [7] Estudios Clin Latinoamer, Rosario, Argentina
- [8] Aga Khan Univ, Karachi, Pakistan
- [9] Univ La Frontera, Temuco, Chile
- [10] Chinese Acad Med Sci, Natl Ctr Cardiovasc Dis, Cardiovasc Inst, Beijing 100730, Peoples R China
- [11] Chinese Acad Med Sci, Fuwai Hosp, Beijing 100730, Peoples R China
- [12] Univ Santander UDES, Direcc Invest, Desarrollo Innovac Tecnol Fundac Oftalmol Santand, Fac Med, Santander, Colombia
- [13] Shandong Acad Med Sci, Jinan, Shandong, Peoples R China
- [14] Univ Kebangsaan Malaysia, Med Ctr, Dept Community Hlth, Bangi 43600, Malaysia
- [15] Univ Western Cape, Sch Publ Hlth, Cape Town, South Africa
- [16] Univ Gothenburg, Sahlgrenska Acad, Gothenburg, Sweden
- [17] Wroclaw Med Univ, Wroclaw, Poland
- [18] Turkiye Yuksek Ihtisas Training & Res Hosp, Ankara, Turkey
- [19] Univ Ottawa, Dept Med, Ottawa, ON, Canada
- [20] Independent Univ, Dhaka, Bangladesh
- [21] Dubai Hlth Author, Dubai Heart Ctr, Dubai, U Arab Emirates
- [22] London Sch Hyg & Trop Med, European Ctr Hlth Soc Transit, London WC1, England
- [23] St Johns Res Inst, Bangalore, Karnataka, India
- [24] Univ Sydney, Westmead Hosp, Sydney, NSW 2006, Australia
- [25] Univ Sydney, George Inst Global Hlth, Sydney, NSW 2006, Australia

电子邮件地址: pure@phri.ca

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 84（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

NEW ENGLAND JOURNAL OF MEDICINE

卷: 371 期: 9 页: 818-827

DOI: 10.1056/NEJMoa1311890

出版年: AUG 28 2014

作者信息

通讯作者地址: Yusuf, S (通讯作者)

Hamilton Gen Hosp, DBCVSRI, Populat Hlth Res Inst, 237 Barton St East, Hamilton, ON L8L 2X2, Canada.

地址:

- [1] McMaster Univ, Populat Hlth Res Inst, Hamilton, ON, Canada
- [2] Hamilton Hlth Sci, Hamilton, ON, Canada
- [3] Simon Fraser Univ, Dept Biomed Physiol & Kinesiol, Burnaby, BC V5A 1S6, Canada
- [4] Univ Ottawa, Dept Med, Ottawa, ON, Canada
- [5] Univ Laval, Heart & Lungs Inst, Quebec City, PQ, Canada
- [6] Chinese Acad Med Sci, Natl Ctr Cardiovasc Dis, Cardiovasc Inst, Beijing 100730,

Peoples R China

- [7] Chinese Acad Med Sci, Fuwai Hosp, Beijing 100730, Peoples R China
- [8] Jiangsu Prov Inst Geriatr, Nanjing, Jiangsu, Peoples R China
- [9] Shandong Prov Acad Med Sci, Jinan, Shandong, Peoples R China
- [10] Xian Elect Technol Univ Hosp, Xian, Shanxi Province, Peoples R China
- [11] Shenyang City 242 Hosp, Shenyang, Liaoning Provin, Peoples R China
- [12] Bayannaer Ctr Dis Control & Prevent, Linhe Dist, Jiefangxi, Peoples R China
- [13] St Johns Res Inst, Div Epidemiol & Populat Hlth, Bangalore, Karnataka, India
- [14] Madras Diabet Res Fdn, Madras, Tamil Nadu, India
- [15] Fortis Escorts Hosp, Jaipur, Rajasthan, India
- [16] Postgrad Inst Med Educ & Res, Sch Publ Hlth, Chandigarh 160012, India
- [17] Hlth Act People, Trivandrum, Kerala, India
- [18] Estudios Clin Latinoamer ECLA, Rosario, Santa Fe, Argentina
- [19] Dante Pazzanese Inst Cardiol, Sao Paulo, Brazil
- [20] Univ Santander, Sch Med, Fdn Oftalmol Santander FOSCAL, Floridablanca

Santander, Colombia

- [21] Univ La Frontera, Temuco, Chile
- [22] Univ Teknol MARA, Fac Med, Sungai Buloh, Selangor, Malaysia
- [23] UCSI Univ Kuala Lumpur, Kuala Lumpur, Malaysia
- [24] Univ Kebangsaan Malaysia, Med Ctr, Dept Community Hlth, Kuala Lumpur,

Malaysia

- [25] Aga Khan Univ, Dept Community Hlth Sci, Karachi, Pakistan
- [26] Aga Khan Univ, Dept Med, Karachi, Pakistan
- [27] Independent Univ, Dhaka, Bangladesh
- [28] Univ Gothenburg, Sahlgrenska Acad, Gothenburg, Sweden
- [29] Dubai Hlth Author, Hatta Hosp, Dubai, U Arab Emirates
- [30] Isfahan Univ Med Sci, Isfahan Cardiovasc Res Ctr, Esfahan, Iran
- [31] North West Univ, Fac Hlth Sci, Potchefstroom, South Africa
- [32] Univ Western Cape, Sch Publ Hlth, ZA-7535 Bellville, South Africa
- [33] Wroclaw Med Univ, Dept Internal Med, Wroclaw, Poland
- [34] Univ Zimbabwe, Coll Hlth Sci, Dept Physiol, Harare, Zimbabwe
- [35] Medeniyet Univ, Fac Med, Dept Internal Med Istanbul, Istanbul, Turkey

[36] Univ London London Sch Hyg & Trop Med, London WC1E 7HT, England

电子邮件地址:yusufs@mcmaster.ca

Web of Science 类别:Medicine, General & Internal

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语种:English

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PubMed ID: 25162888

ISSN: 0028-4793

eISSN: 1533-4406

4、被引频次 21 (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

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DOI: 10.1002/mc.22261

出版年: JAN 2016

作者信息

通讯作者地址: Zhou, CC (通讯作者)

Shandong Acad Med Sci, Shandong Canc Hosp, Clin Lab, Jinan, Shandong, Peoples R China.

通讯作者地址: Yang, M (通讯作者)

Beijing Univ Chem Technol, Coll Life Sci & Technol, POB 53, Beijing 100029, Peoples R China.

地址:

[1] Beijing Univ Chem Technol, Coll Life Sci & Technol, Beijing Lab Biomed Mat, State Key Lab Chem Resource Engrn, POB 53, Beijing 100029, Peoples R China

[2] Shandong Acad Med Sci, Shandong Canc Hosp, Clin Lab, Jinan, Shandong, Peoples R China

[3] Huaian 2 Hosp, Dept Radiat Oncol, Huaian, Jiangsu, Peoples R China

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

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PubMed ID: 25640751

ISSN: 0899-1987

eISSN: 1098-2744

5、被引频次 7（不是济南大学文章）

Radiation-induced miR-208a increases the proliferation and radioresistance by targeting p21 in human lung cancer cells

作者:Tang, YT (Tang, Yiting)[1] ; Cui, YY (Cui, Yayun)[2] ; Li, ZP (Li, Zengpeng)[3] ; Jiao, ZQ (Jiao, Zhuqing)[4] ; Zhang, Y (Zhang, Yong)[5] ; He, Y (He, Yan)[6,7] ; Cheng, GX (Cheng, Guangxia)[8] ; Zhou, QY (Zhou, Qunyan)[9] ; Wang, WJ (Wang, Wenjie)[6,7] ; Zhou, XF (Zhou, Xifa)[1] 更多内容

JOURNAL OF EXPERIMENTAL & CLINICAL CANCER RESEARCH

卷: 35

文献号: 7

DOI: 10.1186/s13046-016-0285-3

出版年: JAN 12 2016

作者信息

通讯作者地址: Luo, JD (通讯作者)

Soochow Univ, Changzhou Canc Hosp, Dept Radiat Oncol, Changzhou 213001, Peoples R China.

地址:

[1] Soochow Univ, Changzhou Canc Hosp, Dept Radiat Oncol, Changzhou 213001, Peoples R China

[2] Anhui Prov Hosp, Dept Radiat Oncol, Hefei 213001, Peoples R China

[3] State Ocean Adm, Inst Oceanog 3, State Key Lab Breeding Base Marine Genet Resource, Xiamen 361005, Peoples R China

[4] Changzhou Univ, Dept Sch Informat Sci & Engr, Changzhou 213164, Peoples R China

[5] Shandong Univ, Shandong Canc Hosp & Inst, Dept Radiat Oncol, Jinan 250117, Peoples R China

[6] Soochow Univ, Sch Radiat Med & Protect, Suzhou 215123, Peoples R China

[7] Soochow Univ, Collaborat Innovat Ctr Radiat Med, Jiangsu Higher Educ Inst, Suzhou 215123, Peoples R China

[8] First Peoples Hosp Xuzhou, Dept Gastroenterol, Xuzhou 221002, Peoples R China

[9] Nanjing Med Univ, Dept Gastroenterol, Wuxi Peoples Hosp, Wuxi 214002, Peoples R China

电子邮件地址:judongluo@163.com; zhang.shuyu@hotmail.com

文献信息

文献类型:Article

语种:English

入藏号: WOS:000367874800003

PubMed ID: 26754670

ISSN: 1756-9966

6、被引频次 7（济南大学-医学与生命科学学院附属医院=山东省肿瘤医院是第 2 单位）

MicroRNA-613 inhibited ovarian cancer cell proliferation and invasion by regulating KRAS

作者:Fu, X (Fu, Xin)[1] ; Cui, YF (Cui, Yanfen)[1] ; Yang, SB (Yang, Shaobin)[1] ; Xu, Y (Xu, Yue)[1] ; Zhang, ZC (Zhang, Zicheng)[2]

TUMOR BIOLOGY

卷: 37 期: 5 页: 6477-6483

DOI: 10.1007/s13277-015-4507-7

出版年: MAY 2016

作者信息

通讯作者地址: Fu, X (通讯作者)

Tianjin Med Univ, Canc Inst & Hosp, Tianjin Key Lab Prevent & Therapy, Dept Gynecol Canc, Natl Clin Res Ctr Canc, Tianjin 300060, Peoples R China.

通讯作者地址: Zhang, ZC (通讯作者)

Shandong Canc Hosp & Inst, Dept Radiat Oncol, Jinan, Shandong, Peoples R China.

地址:

[1] Tianjin Med Univ, Canc Inst & Hosp, Tianjin Key Lab Prevent & Therapy, Dept Gynecol Canc, Natl Clin Res Ctr Canc, Tianjin 300060, Peoples R China

[2] Shandong Canc Hosp & Inst, Dept Radiat Oncol, Jinan, Shandong, Peoples R China

电子邮件地址: fxhappy@126.com; zcscd1@sina.com

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文献类型: Article

语种: English

入藏号: WOS:000376465800091

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ISSN: 1010-4283

eISSN: 1423-0380

7.2.3 材料科学学科现状分析

材料科学 2017 年 3 月份国内高校 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、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-10 中, 排名第 1 位的清华大学至排名第 88 位的南昌大学, 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 74 位, 省内高校第 5 位。

表-10 ESI 材料科学国内高校排名

机构名称	排名	WoS 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
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Tsinghua University	1	7613	1.37	109299	78.39	1529
Shanghai Jiao Tong University	2	6123	1.25	77393	82.02	1348
Zhejiang University	3	5146	1.34	71326	82.94	1089
Fudan University	4	2834	2.39	69000	87.37	688
Harbin Institute of Technology	5	7983	0.84	66721	77.56	1362
Jilin University	6	4275	1.29	55315	83.86	652
Peking University	7	3046	1.9	54196	84.08	705
University of Science & Technology of China	8	3268	1.77	51835	84.61	564
University of Chinese Academy of Sciences	9	3824	1.77	51616	79.03	420
Central South University	10	6894	0.7	45924	75.72	984
University of Science & Technology Beijing	11	6848	0.69	44126	71.88	1153
South China University of Technology	12	4198	1.27	43723	77.78	787
Tianjin University	13	3959	1.11	39463	77.04	676
Sichuan University	14	3947	1.06	38804	78.52	546
Nanjing University	15	2669	1.49	38397	83.36	479
Dalian University of Technology	16	4034	0.97	38152	79.05	830
Huazhong University of Science & Technology	17	3588	1.26	37715	79.24	612
Xi'an Jiaotong University	18	4336	0.93	37129	75.97	953
Suzhou University	19	2355	2.02	35244	80.25	633
Northwestern Polytechnical University	20	5553	0.72	35216	74.84	661
Shandong University	21	3446	1.09	35017	79.69	580
Wuhan University	22	2152	1.54	30884	80.34	419
Beihang University	23	3454	0.96	28625	74.93	588
Wuhan University of Technology	24	3068	1.01	27394	71.71	723
Nankai University	25	1263	2.11	27348	86.3	227
Beijing University of Chemical Technology	26	1931	1.56	27113	83.79	332
Sun Yat Sen University	27	1662	1.78	26888	84.6	330
East China University of Science & Technology	28	1865	1.41	25388	82.95	404
Southeast University - China	29	2543	1.05	25225	76.25	541

Tongji University	30	2532	1.07	24217	78.24	597
Shanghai University	31	2676	0.91	22546	75.67	561
Lanzhou University	32	1633	1.34	22207	86.22	204
Northeastern University - China	33	4068	0.57	21422	69.54	906
Donghua University	34	2239	1.06	21064	76.15	528
Chongqing University	35	3236	0.85	20795	69.56	589
Xiamen University	36	1551	1.54	20792	79.95	451
Nanjing University of Aeronautics & Astronautics	37	2089	1.04	19882	75.63	320
Hunan University	38	2008	1.07	19494	75.9	321
Beijing Institute of Technology	39	1886	1.34	19031	75.61	367
Nanjing University of Technology	40	1842	1.15	16230	76.82	356
Harbin Engineering University	41	1155	1.42	15901	75.84	116
Fuzhou University	42	846	1.78	13842	79.31	121
Nanjing University of Science & Technology	43	1444	1.37	13077	76.45	315
Jiangsu University	44	1603	0.9	12122	72.3	174
Beijing University of Technology	45	1603	0.7	11800	70.99	269
East China Normal University	46	819	1.56	11799	81.81	160
Northeast Normal University - China	47	582	1.73	10669	89.86	40
University of Electronic Science & Technology of China	48	1680	0.84	10595	72.62	402
China University of Petroleum	49	1129	1.1	10253	71.66	233
Central China Normal University	50	344	2.26	10078	87.21	48
Hefei University of Technology	51	1074	1.07	9775	76.35	179
Southwest Jiaotong University	52	1150	0.96	9689	76.87	293
University Town of Shenzhen	53	1046	1.34	9274	76.1	253
Zhengzhou University	54	1079	1.07	8547	76.18	187
Yanshan University	55	1568	0.71	8455	72.96	240

Xiangtan University	56	1030	0.85	8403	80.1	179
China University of Geosciences	57	1151	0.99	7487	71.85	202
Nanjing University of Posts & Telecommunications	58	385	2.45	7463	77.14	79
Shaanxi Normal University	59	780	1.06	7275	81.79	101
Taiyuan University of Technology	60	1537	0.72	7020	66.23	222
Zhejiang Sci-Tech University	61	726	1.04	6969	76.72	141
Beijing Jiaotong University	62	772	0.96	6896	74.61	155
Fourth Military Medical University	63	395	1.42	6454	83.8	76
Beijing Normal University	64	500	1.38	6259	80.6	74
Shanghai Normal University	65	375	1.55	6178	86.4	48
Qingdao University of Science & Technology	66	639	0.94	6148	79.81	93
Anhui University	67	663	1.22	5952	78.43	69
Zhejiang Normal University	68	504	1.46	5904	79.96	75
Hubei University	69	618	1.1	5892	78.16	156
Ocean University of China	70	519	1.14	5761	81.7	58
Zhejiang University of Technology	71	775	0.84	5759	70.71	141
Anhui University of Technology	72	674	1.02	5695	73.89	87
Southwest University - China	73	599	1.32	5573	77.3	98
University of Jinan	74	954	0.85	5474	70.96	128
National University of Defence Technology - China	75	931	0.71	5443	70.14	90
Kunming University of Science & Technology	76	1221	0.56	5405	66.91	148
Henan University	77	653	0.9	5268	81.01	75
Heilongjiang University	78	400	1.47	5239	78.75	29
Changzhou University	79	695	0.96	5227	70.79	123
Jinan University	80	589	1.21	5131	78.95	74

Guangxi University	81	890	0.67	5089	76.63	115
Wuhan University of Science & Technology	82	927	0.63	4880	64.94	120
China University of Mining & Technology	83	911	0.72	4566	67.51	152
Shenzhen University	84	853	0.79	4530	68.82	143
Hebei University of Technology	85	750	0.73	4507	71.33	97
Jiangnan University	86	861	0.67	4410	65.04	139
Shaanxi University of Science & Technology	87	968	0.65	4391	68.18	49
Nanchang University	88	680	0.85	4341	71.76	69

我校材料科学共有 6 篇高被引论文，如图-10 所示：



<p>1 THREE-DIMENSIONAL PAPER-BASED ELECTROCHEMILUMINESCENCE IMMUNODEVICE FOR MULTIPLEXED MEASUREMENT OF BIOMARKERS AND POINT-OF-CARE TESTING</p> <p>By: GE, L; YAN, JX; SONG, XR; et al Source: BIOMATERIALS 33 (4): 1024-1031 FEB 2012 Research Fields: MATERIALS SCIENCE</p>	Times Cited: 174	 Research Front
<p>2 INSIGHT INTO THE ELECTRODE MECHANISM IN LITHIUM-SULFUR BATTERIES WITH ORDERED MICROPOROUS CARBON CONFINED SULFUR AS THE CATHODE</p> <p>By: LI, Z; YUAN, LX; YI, ZQ; et al Source: ADV ENERGY MATER 4 (7): - MAY 2014 Research Fields: MATERIALS SCIENCE</p>	Times Cited: 84	
<p>3 HYDROTHERMAL SYNTHESIS OF N-DOPED TiO2 NANOWIRES AND N-DOPED GRAPHENE HETEROSTRUCTURES WITH ENHANCED PHOTOCATALYTIC PROPERTIES</p> <p>By: LIU, C; ZHANG, LQ; LIU, R; et al Source: J ALLOYS COMPOUNDS 656: 24-32 JAN 25 2016 Research Fields: MATERIALS SCIENCE</p>	Times Cited: 14	
<p>4 NANOSTRUCTURED MATERIALS FOR ROOM-TEMPERATURE GAS SENSORS</p> <p>By: ZHANG, J; LIU, XH; NERI, G; et al Source: ADVAN MATER 28 (5): 795-831 FEB 3 2016 Research Fields: MATERIALS SCIENCE</p>	Times Cited: 14	
<p>5 FORMATION OF Fe3O4@MnO2 BALL-IN-BALL HOLLOW SPHERES AS A HIGH PERFORMANCE CATALYST WITH ENHANCED CATALYTIC PERFORMANCES</p> <p>By: ZHANG, SW; FAN, QH; GAO, HH; et al Source: J MATER CHEM A 4 (4): 1414-1422 2016 Research Fields: MATERIALS SCIENCE</p>	Times Cited: 11	
<p>6 NEW FAMILY OF ROOM TEMPERATURE QUANTUM SPIN HALL INSULATORS IN TWO-DIMENSIONAL GERMANENE FILMS</p> <p>By: ZHANG, RW; JI, WX; ZHANG, CW; et al Source: J MATER CHEM C 4 (10): 2088-2094 2016 Research Fields: MATERIALS SCIENCE</p>	Times Cited: 9	 Research Front

图-10 济南大学材料科学高被引论文

详细记录：

1、被引频次 174（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

作者信息

通讯作者地址: Yu, JH (通讯作者)

Univ Jinan, Sch Chem & Chem Engr, Jinan 250022, Peoples R China.

地址:

[1] Univ Jinan, Sch Chem & Chem Engr, Jinan 250022, Peoples R China

[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: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 84（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

作者信息

通讯作者地址: Yuan, LX (通讯作者)

Huazhong Univ Sci & Technol, Key Lab Adv Battery Mat & Syst MOE, Sch Mat Sci & Engr,

Wuhan 430074, Hubei, Peoples R China.

地址:

[1] Huazhong Univ Sci & Technol, Key Lab Adv Battery Mat & Syst MOE, Sch Mat Sci & Engn, Wuhan 430074, Hubei, Peoples R China

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

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

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 14 (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

作者信息

通讯作者地址: Li, YF (通讯作者)

China Univ Petr, Coll Chem Engn, 18 Fuxue Rd, Beijing 102249, Peoples R China.

地址:

[1] China Univ Petr, State Key Lab Heavy Oil Proc, Beijing 102249, Peoples R China

[2] Chinese Acad Sci, Res Ctr Ecoenvironm Sci, State Key Lab Environm Chem & Ecotoxicol, Beijing 100085, Peoples R China

[3] Univ Jinan, Sch Mat Sci & Engn, Jinan 250022, Peoples R China

[4] Zhejiang Univ, Dept Mat Sci & Engn, State Key Lab Silicon Mat, Hangzhou 310027, Zhejiang, Peoples R China

电子邮件地址:yfli@cup.edu.cn

出版商

ELSEVIER SCIENCE SA, PO BOX 564, 1001 LAUSANNE, SWITZERLAND

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

Metallurgical Engineering

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文献类型:Article

语种:English

入藏号: WOS:000365051000004

ISSN: 0925-8388

eISSN: 1873-4669

4、被引频次 14 (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

作者信息

通讯作者地址: Zhang, J (通讯作者)

Qingdao Univ, Coll Phys, Qingdao 266071, Peoples R China.

通讯作者地址: Pinna, N (通讯作者)

Humboldt Univ, Inst Chem, Brook Taylor Str 2, D-12489 Berlin, Germany.

地址:

[1] Qingdao Univ, Coll Phys, Qingdao 266071, Peoples R China

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

[3] IFW Dresden, Inst Integrat Nanosci, Helmholtzstr 20, D-01069 Dresden, Germany

[4] Univ Messina, Dept Elect Engn Chem & Ind Engn, I-98166 Messina, Italy

[5] Humboldt Univ, Inst Chem, Brook Taylor Str 2, D-12489 Berlin, Germany

电子邮件地址:zj1025@gmail.com; nicola.pinna@hu-berlin.de

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文献类型:Review

语种:English

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PubMed ID: 26662346

ISSN: 0935-9648

eISSN: 1521-4095

5、被引频次 11 (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]

查看 ResearcherID 和 ORCID

JOURNAL OF MATERIALS CHEMISTRY A

卷: 4 期: 4 页: 1414-1422

DOI: 10.1039/c5ta08400h

出版年: 2016

作者信息

通讯作者地址: Xu, XJ (通讯作者)

Univ Jinan, Sch Phys & Technol, Jinan 250022, Shandong, Peoples R China.

通讯作者地址: Wang, XK (通讯作者)

King Abdulaziz Univ, Fac Sci, NAAM Res Grp, Jeddah 21589, Saudi Arabia.

地址:

[1] Univ Jinan, Sch Phys & Technol, Jinan 250022, Shandong, Peoples R China

[2] Chinese Acad Sci, Inst Geol & Geophys, Gansu Prov Key Lab Petr Resources Res, Key Lab Petr Resources, Lanzhou 730000, Peoples R China

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

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

电子邮件地址:spsxuj@ujn.edu.cn; xkwang@ipp.ac.cn

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6、被引频次 9 (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

作者信息

通讯作者地址: Zhang, CW (通讯作者)

Univ Jinan, Sch Phys & Technol, Jinan 250022, Shandong, Peoples R China.

地址:

[1] Univ Jinan, Sch Phys & Technol, Jinan 250022, Shandong, Peoples R China

[2] Shandong Univ, Sch Phys, State Key Lab Crystal Mat, Jinan 250100, Shandong, Peoples R China

电子邮件地址:zhchwsd@163.com

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7.2.4 工程学学科现状分析

工程学 2017 年 03 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、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-11 中,排名第 1 位的清华大学至排名第 116 位的西安建筑技术大学,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 103 位,省内高校第 7 位。

表-11 ESI 工程学国内高校排名

排名	机构名称	WoS 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	Tsinghua University	12921	1.26	116001	76.51	3594
2	Shanghai Jiao Tong University	10512	1.04	85304	75.16	2414
3	Harbin Institute of Technology	8534	1.37	81274	72.29	2183
4	Zhejiang University	8696	1.15	72832	74.76	2417
5	Xi'an Jiaotong University	7638	1.13	57478	72.34	1486
6	Huazhong University of Science & Technology	6316	1.34	54415	74.26	1445
7	Southeast University - China	5993	1.19	48549	69.9	1641
8	Dalian University of Technology	5587	1.04	40355	73.6	1315
9	University of Science & Technology of China	3734	1.45	37850	74.72	989
10	Tianjin University	5039	1.26	37594	71.48	1285
11	South China University of Technology	3520	1.46	33799	74.2	808
12	Peking University	3274	1.4	33278	76.79	978
13	Beihang University	6116	0.84	32580	66.66	1225
14	Tongji University	4735	1.1	31439	70.18	1574



15	University of Electronic Science & Technology of China	5043	0.87	29748	67.08	1326
16	Xidian University	4174	0.84	27912	68.35	673
17	Nanjing University of Aeronautics & Astronautics	3720	0.99	26050	66.91	782
18	Beijing Institute of Technology	3673	1.19	25010	66.21	863
19	Chongqing University	3738	1.08	23495	67.66	1103
20	Northeastern University - China	2654	1.19	22440	69.82	609
21	Central South University	2243	1.62	21805	72.85	642
22	Hunan University	2771	1.22	21596	70.37	829
23	Shandong University	2764	1.22	21291	71.92	601
24	Nanjing University of Science & Technology	2777	1.08	20424	69.39	572
25	University of Chinese Academy of Sciences	2552	1.38	19300	71.39	365
26	Nanjing University	1738	1.39	18817	75.49	462
27	Wuhan University	2396	1.24	18685	68.41	667
28	North China Electric Power University	2505	1.2	17372	68.3	706
29	Sun Yat Sen University	1854	1.23	16996	74.16	450
30	Shanghai University	2219	1.07	16857	72.83	533
31	Fudan University	1760	1.26	16660	75.97	637
32	Beijing Jiaotong University	2894	0.98	15741	66.52	946
33	Northwestern Polytechnical University	3157	0.94	14425	63.73	844
34	East China University of Science & Technology	1720	1.34	14225	72.97	326
35	National University of Defence Technology - China	2992	0.72	13397	61.76	547
36	Jilin University	2085	0.9	13291	66.38	347
37	Sichuan University	2032	0.98	12770	68.55	432
38	China University of Petroleum	2643	0.97	12518	64.47	559
39	Jiangnan University	1019	1.78	12228	72.82	297
40	University Town of Shenzhen	1663	1.13	11960	71.5	471
41	University of Science & Technology Beijing	1657	1.27	11860	70.79	455
42	Xiamen University	1404	1.4	11782	74	490
43	Nankai University	1047	1.52	11191	77.27	216
44	Wuhan University of Technology	1392	1.17	10936	65.59	449
45	Donghua University	880	1.73	10901	77.16	285
46	Hohai University	2064	0.82	9844	63.52	666
47	Beijing University of Technology	1694	0.92	9726	65.58	364

48	China University of Mining & Technology	1970	1.1	9582	61.93	436
49	Southwest Jiaotong University	1788	0.93	9281	63.76	518
50	Hefei University of Technology	1295	1.36	9081	69.42	497
51	Lanzhou University	894	1.41	8943	74.83	159
52	Harbin Engineering University	1782	1.05	8840	59.54	441
53	Nanjing University of Technology	893	1.43	8632	77.27	236
54	Beijing University of Chemical Technology	821	1.77	8361	74.06	158
55	Jiangsu University	1355	1.21	8268	67.68	219
56	Beijing University of Posts & Telecommunications	1634	0.74	7761	61.26	420
57	Fuzhou University	661	1.37	7749	71.1	226
58	China University of Geosciences	1163	1.26	7515	68.36	390
59	Zhejiang University of Technology	1014	1.1	7494	70.61	262
60	Beijing Normal University	820	1.32	7404	76.46	270
61	Guangdong University of Technology	944	1.4	6924	66.31	285
62	Qingdao University	365	2.1	6384	71.23	111
63	Suzhou University	914	1.28	5972	66.52	235
64	Yanshan University	1163	0.83	5762	65	218
65	Zhengzhou University	696	1.2	5626	69.83	171
66	Nanjing Normal University	574	1.52	5580	71.6	138
67	Hangzhou Dianzi University	775	1.08	5488	62.84	210
68	Dalian Maritime University	673	1.32	5485	68.95	142
69	Liaoning University of Technology	217	4.52	5159	71.43	19
70	China Agricultural University	692	0.95	4878	75.29	196
71	East China Normal University	650	0.91	4759	69.38	175
72	South China Normal University	476	1.55	4684	75	71
73	Qufu Normal University	345	1.62	4651	75.65	55
74	Ocean University of China	666	1.04	4625	68.62	155
75	Wuhan Naval University of Engineering	552	1.13	4429	75.91	30
76	Xiangtan University	433	1.58	4336	71.36	92
77	Yangzhou University	381	1.54	4306	67.45	130
78	PLA University of Science & Technology	922	0.7	4089	54.88	74
79	Taiyuan University of Technology	763	1.11	4013	63.7	190
80	Shenzhen University	769	1.11	3869	67.62	200

81	Jinan University	421	1.42	3764	72.21	97
82	Ningbo University	565	1.09	3735	70.27	126
83	Zhejiang Normal University	453	1.28	3595	74.83	81
84	University of Shanghai for Science & Technology	771	1.03	3526	62.65	226
85	Kunming University of Science & Technology	479	1.31	3375	69.1	135
86	Huaqiao University	402	1.66	3352	63.68	74
87	Bohai University	296	3.7	3277	61.49	93
88	Nanjing University of Posts & Telecommunications	745	0.8	3266	55.7	159
89	Guangxi University	472	1.08	3251	69.7	107
90	Shenyang Aerospace University	355	1.08	3189	70.7	43
91	Northwest A&F University - China	306	1.49	2942	72.88	99
92	Northeast Normal University - China	254	1.66	2904	72.05	23
93	Anhui University of Technology	291	1.73	2844	74.57	70
94	Shaanxi Normal University	326	1.2	2826	70.55	48
95	Nanchang University	436	1.09	2816	71.1	94
96	China Jiliang University	543	0.82	2809	70.35	112
97	Changsha University of Science & Technology	564	0.86	2794	69.5	184
98	Tianjin Polytechnic University	457	1.14	2753	65.43	70
99	Anhui University	386	1.19	2713	66.32	77
100	Nanjing University of Information Science & Technology	503	1.12	2655	63.22	171
101	Southwest University - China	384	1.48	2648	68.75	144
102	Qingdao University of Science & Technology	302	1.64	2627	73.51	55
103	University of Jinan	331	1.41	2538	65.56	55
104	Chang'an University	584	0.75	2496	57.36	177
105	Northwest University Xi'an	273	1.43	2489	68.5	52
106	Heilongjiang University	250	1.66	2488	74.4	44
107	Shanxi University	284	1.81	2469	72.18	85
108	Wenzhou University	294	1.05	2455	60.2	82
109	Hebei University of Technology	317	1	2402	64.98	64
110	Shandong University of Science & Technology	524	0.86	2379	61.26	100
111	Lanzhou University of Technology	357	1.1	2378	66.11	56
112	Henan Normal University	243	1.5	2344	71.6	48
113	Nanjing Agricultural University	241	1.47	2303	68.05	45

114	Northeast Petroleum University	193	2.03	2296	61.14	55
115	Zhejiang Sci-Tech University	395	1.08	2274	66.58	87
116	Xi'an University of Architecture & Technology	424	0.83	2248	61.79	56

我校工程学共有 14 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: 165
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: 100
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: 90  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	NANOPOROUS PDCU ALLOY FOR FORMIC ACID ELECTRO-OXIDATION	Times Cited: 83  Research Front
By: XU, CX; LIU, YQ; WANG, JP; et.al Source: J POWER SOURCES 199: 124-131 FEB 1 2012 Research Fields: ENGINEERING		
5	NOVEL NANOCRYSTALLINE PDNI ALLOY CATALYST FOR METHANOL AND ETHANOL ELECTRO-OXIDATION IN ALKALINE MEDIA	Times Cited: 82
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		
6	Ag3PO4/GRAPHENE-OXIDE COMPOSITE WITH REMARKABLY ENHANCED VISIBLE-LIGHT-DRIVEN PHOTOCATALYTIC ACTIVITY TOWARD DYES IN WATER	Times Cited: 80
By: CHEN, GD; SUN, M; WEI, Q; et.al Source: J HAZARD MATER 244: 86-93 JAN 15 2013 Research Fields: ENGINEERING		
7	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: 63
By: GUO, XY; DU, B; WEI, Q; et.al Source: J HAZARD MATER 278: 211-220 AUG 15 2014 Research Fields: ENGINEERING		
8	NANOPOROUS PTCO AND PTNI ALLOY RIBBONS FOR METHANOL ELECTROOXIDATION	Times Cited: 56
By: XU, CX; HOU, JG; PANG, XH; et.al Source: INT J HYDROGEN ENERG 37 (14): 10489-10498 JUL 2012 Research Fields: ENGINEERING		

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: 50 Research Front
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: 49 Research Front
11	MAGNETIC FE3O4/MGAL-LDH COMPOSITE FOR EFFECTIVE REMOVAL OF THREE RED DYES FROM AQUEOUS SOLUTION By: SHAN, RR; YAN, LG; YANG, K; et.al Source: CHEM ENG J 252: 38-46 SEP 15 2014 Research Fields: ENGINEERING	Times Cited: 33
12	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: 30
13	EXTRACELLULAR POLYMERIC SUBSTANCES FOR ZN (II) BINDING DURING ITS SORPTION PROCESS ONTO AEROBIC GRANULAR SLUDGE By: WEI, D; LI, MT; WANG, XD; et.al Source: J HAZARD MATER 301: 407-415 JAN 15 2016 Research Fields: ENGINEERING	Times Cited: 7
14	AIR POLLUTION AND CONTROL ACTION IN BEIJING By: ZHANG, HF; WANG, SX; HAO, JM; et.al Source: J CLEAN PROD 112: 1519-1527 PART 2 JAN 20 2016 Research Fields: ENGINEERING	Times Cited: 6

图-11 济南大学工程学高被引论文

详细记录：

1、被引频次 165（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

通讯作者地址: Luo, CN (通讯作者)

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

地址:

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

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 100 (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

通讯作者地址: Du, B (通讯作者)

Univ Jinan, Coll Resources & Environm Sci, Jinan 250022, Peoples R China.

地址:

[1] Univ Jinan, Coll Resources & Environm Sci, Jinan 250022, Peoples R China

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

[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 90 (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

作者信息

通讯作者地址: Du, B (通讯作者)

Univ Jinan, Sch Resources & Environm, Shandong Univ, Key Lab Chem Sensing & Anal, Jinan 250022, Peoples R China.

地址:

[1] Univ Jinan, Sch Resources & Environm, Shandong Univ, Key Lab Chem Sensing & Anal, Jinan 250022, Peoples R China

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

[3] Univ Jinan, Sch Med & Life Sci, Jinan 250022, Peoples R China

电子邮件地址: bindu0720@gmail.com; lihecd@gmail.com

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 83 (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, Hua jun)[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

通讯作者地址: Xu, CX (通讯作者)

Univ Jinan, Sch Chem & Chem Engr, Jinan 250022, Shandong, Peoples R China.

地址:

[1] Univ Jinan, Sch Chem & Chem Engr, Jinan 250022, Shandong, Peoples R China

[2] Shandong Univ, Sch Chem & Chem Engr, Jinan 250100, Shandong, Peoples R China

[3] Chinese Acad Sci, Qingdao Inst Bioenergy & Bioproc Technol, Qingdao 266101, Peoples R China

电子邮件地址: qiuhua jun@gmail.com

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

5、被引频次 82 (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

通讯作者地址: Zhang, ZH (通讯作者)

Shandong Univ, Sch Mat Sci & Engn, Key Lab Liquid Solid Struct Evolut & Proc Mat MOE, Jingshi Rd 17923, Jinan 250061, Peoples R China.

地址:

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

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

电子邮件地址:zh_zhang@sdu.edu.cn

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

6、被引频次 80 (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

通讯作者地址: Sun, M (通讯作者)

Univ Jinan, Sch Resources & Environm, Jinan 250022, Peoples R China.

地址:

[1] Univ Jinan, Sch Resources & Environm, Jinan 250022, Peoples R China

[2] Univ Jinan, Sch Chem & Chem Engn, Key Lab Chem Sensing & Anal Univ Shandong,

Jinan 250022, Peoples R China

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

7、被引频次 63 (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

作者信息

通讯作者地址: Du, B (通讯作者)

Univ Jinan, Sch Resources & Environm, Jinan 250022, Peoples R China.

地址:

[1] Univ Jinan, Sch Resources & Environm, Jinan 250022, Peoples R China

[2] Univ Jinan, Sch Chem & Chem Engn, Jinan 250022, Peoples R China

电子邮件地址:dubin61@gmail.com; sdjndxwq@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:000340689100026

PubMed ID: 25016452

ISSN: 0304-3894

eISSN: 1873-3336

8、被引频次 56（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)

Univ Jinan, China Key Lab Chem Sensing & Anal, Sch Chem & Chem Engr, Shandong Univ, Jiwei Rd 106, Jinan 250022, Peoples R China.

地址:

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

电子邮件地址: chm_xucx@ujn.edu.cn

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

9、被引频次 50（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

通讯作者地址: Zhang, W (通讯作者)

Univ Jinan, Sch Econ, Jinan, Peoples R China.

地址:

[1] Beijing Inst Technol, Sch Management & Econ, Beijing 100081, Peoples R China

[2] BIT, Ctr Energy & Environm Policy Res, Beijing, Peoples R China

[3] China Univ Geosci, Sch Econ & Management, Wuhan 430074, Peoples R China

[4] Univ Jinan, Sch Econ, Jinan, Peoples R China

电子邮件地址: sm_zhangw@uju.edu.cn

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 49 (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 $\text{CoFe}_3\text{-xO}_4$ 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

通讯作者地址: Guo, WL (通讯作者)

Univ Jinan, Coll Resources & Environm, Jinan 250022, Peoples R China.

地址:

[1] Univ Jinan, Coll Resources & Environm, Jinan 250022, Peoples R China

电子邮件地址:chm_guowl@ujn.edu.cn

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 33 (济南大学是第 1 作者和通讯作者单位, 资源与环境学院)

Magnetic $\text{Fe}_3\text{O}_4/\text{MgAl-LDH}$ 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

作者信息

通讯作者地址: Yan, LG (通讯作者)

Univ Jinan, Sch Resources & Environm, Jinan 250022, Peoples R China.

地址:

[1] Univ Jinan, Sch Resources & Environm, Jinan 250022, Peoples R China

电子邮件地址:yanyu-33@163.com

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 30 (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

作者信息

通讯作者地址: Du, B (通讯作者)

Univ Jinan, Sch Resources & Environm, Jinan 250022, Peoples R China.

地址:

[1] Univ Jinan, Sch Resources & Environm, Jinan 250022, Peoples R China

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

电子邮件地址:dubin61@gmail.com

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

eISSN: 1873-3212

13、被引频次 7 (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

通讯作者地址: Du, B (通讯作者)

Univ Jinan, Sch Resources & Environm Sci, Jinan 250022, Peoples R China.

地址:

[1] Univ Jinan, Sch Resources & Environm Sci, Jinan 250022, Peoples R China

[2] Univ Jinan, Sch Chem & Chem Engn, Key Lab Chem Sensing & Anal Univ Shandong,

Jinan 250022, Peoples R China

[3] Shan Dong Lan Xi Environm Protect Technol Co Ltd, Jinan 250022, Peoples R China

电子邮件地址:dubin61@gmail.com

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

14、Air pollution and control action in Beijing (不是济南大学的文章)

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

作者信息

通讯作者地址: Wang, SL (通讯作者)

Chinese Res Inst Environm Sci, Atmospher Environm Inst, Beijing 100012, Peoples R China.

地址:

[1] Chinese Res Inst Environm Sci, Atmospher Environm Inst, Beijing 100012, Peoples R

China

[2] Tsinghua Univ, Sch Environm, State Key Joint Lab Environm Simulat & Pollut Con, Beijing 100084, Peoples R China

[3] Chinese Acad Sci, Guangzhou Inst Geochem, State Key Lab Organ Geochem, Guangzhou 510640, Guangdong, Peoples R China

[4] Jinan Univ, Atmosphr Environm Inst Safety & Pollut Control, Jinan 510632, Guangdong, Peoples R China

文献信息

文献类型:Review

语种:English

入藏号: WOS:000368206800026

ISSN: 0959-6526

eISSN: 1879-1786

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 3 月份国内高校 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、浙江大学、南京大学、上海交通大学、山东大学、复旦大学、华中科技大学和中山大学。排名第 1 位的清华大学至排名第 33 位的北京邮电大学,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 102 位,省内高校第 4 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	国际合作论文数
1	Tsinghua University	10539	1.44	137967	82.29	3422
2	University of Science & Technology of China	10403	1.33	137915	80.4	3814
3	Peking University	9583	1.46	134594	82.66	3667
4	Zhejiang University	7093	1.09	84103	83.66	2496
5	Nanjing University	7161	1.28	81761	81.08	2169
6	Shanghai Jiao Tong University	5998	1.21	63433	80.76	2085
7	Shandong University	4411	1.48	56894	82.59	1575
8	Fudan University	4484	1.22	53863	82.45	1571

9	Huazhong University of Science & Technology	5694	0.88	44585	75.78	1014
10	Sun Yat Sen University	2896	1.74	40675	84.29	1067
11	Harbin Institute of Technology	5221	0.71	36466	76.88	1016
12	Jilin University	3791	0.96	35625	79.53	839
13	Nankai University	3209	1.1	35192	80.9	925
14	Xi'an Jiaotong University	4393	0.82	34011	75.55	1203
15	Southeast University - China	3013	1.06	30987	77.53	719
16	Dalian University of Technology	3392	0.74	30061	79.92	652
17	University of Chinese Academy of Sciences	5239	0.76	29272	68.79	810
18	Central China Normal University	1970	1.67	29074	81.57	1060
19	Lanzhou University	3238	0.9	28909	79.28	784
20	Beihang University	3384	0.99	27647	76.36	968
21	University of Electronic Science & Technology of China	4055	0.72	26578	76.23	1009
22	Beijing Normal University	2663	0.99	26557	80.4	599
23	Shanghai University	2955	0.8	24817	78.88	656
24	Wuhan University	2128	1.01	21913	78.43	522
25	Suzhou University	2149	1.22	20867	80.36	647
26	Sichuan University	3561	0.57	20649	74.61	556
27	Tianjin University	2923	0.74	19909	74.79	579
28	East China Normal University	2179	0.84	19459	81.14	526
29	Hunan University	1711	1.15	18673	82.35	399
30	Beijing Institute of Technology	2441	0.85	18270	74.27	520
31	South China University of Technology	1727	1.12	17315	79.1	298
32	National University of Defence Technology - China	2666	0.69	16460	75.36	324
33	Beijing University of Posts & Telecommunications	2321	0.74	16376	75.14	323
34	Xiamen University	1633	1.08	14001	76.91	531
35	South China Normal University	1868	0.71	13999	76.18	249
36	Tongji University	1889	0.8	13748	76.07	437
37	University of Science & Technology Beijing	1764	0.79	13164	76.87	447
38	Chongqing University	1738	0.9	13147	75.2	336
39	Northwestern Polytechnical University	2164	0.62	12005	76.02	358
40	Nanjing University of Aeronautics & Astronautics	1445	0.85	11402	76.19	232
41	Donghua University	592	1.34	11345	83.45	135
42	Renmin University of China	571	2.11	11208	78.63	239
43	Beijing Jiaotong University	1808	0.65	11103	75.17	328
44	Xidian University	2043	0.52	10525	73.52	150
45	Wuhan University of Technology	877	1.25	10435	77.42	231
46	Shanxi University	1411	0.8	9844	73.14	304
47	East China University of Science &	822	1.16	9111	82.12	195

	Technology					
48	Nanjing University of Science & Technology	1507	0.7	9069	73.13	284
49	Zhejiang Normal University	925	0.85	9053	83.89	165
50	Xiangtan University	1065	0.82	9017	81.97	240
51	Henan Normal University	1172	0.93	8988	79.78	279
52	Shenzhen University	1159	1.16	8944	73.6	224
53	Ningbo University	1272	0.67	8837	77.83	193
54	Beijing University of Technology	1439	0.63	8669	73.87	263
55	Anhui University	1215	0.69	8566	73.5	116
56	Central South University	1332	0.78	8480	76.65	287
57	Hunan Normal University	1072	0.65	7507	79.66	85
58	Nanjing Normal University	1023	0.93	7259	76.44	293
59	Southwest Jiaotong University	1274	0.59	7240	73.86	299
60	Northeastern University - China	1061	0.71	7158	74.18	218
61	Northeast Normal University - China	602	0.85	7102	73.26	80
62	Yanshan University	939	0.66	6722	79.13	146
63	Fuzhou University	765	0.99	6558	77.12	97
64	Hangzhou Normal University	651	1.31	6540	82.49	277
65	University of Shanghai for Science & Technology	1092	0.61	6308	70.42	238
66	Zhengzhou University	1005	0.9	6271	75.22	251
67	Beijing University of Chemical Technology	559	1.1	6177	81.57	100
68	Capital Normal University	830	0.66	6048	77.23	238
69	Nanchang University	823	0.72	5953	79.59	68
70	Southwest University - China	673	1.04	5654	74.29	176
71	Guangxi Normal University	613	1	5560	80.91	225
72	Guangxi University	669	0.96	5539	78.18	233
73	Jiangsu University	978	0.61	5517	73.72	74
74	Nanjing University of Posts & Telecommunications	890	0.9	5312	68.43	146
75	North China Electric Power University	757	0.98	5172	71.33	85
76	Shaanxi Normal University	903	0.63	4902	71.21	140
77	Harbin Engineering University	740	0.73	4756	71.35	116
78	China Jiliang University	739	0.73	4578	74.97	140
79	Changchun University of Science & Technology	867	0.52	4560	69.9	57
80	University Town of Shenzhen	722	0.89	4528	71.88	171
81	China University of Mining & Technology	883	0.67	4524	73.5	120
82	Shandong Normal University	686	0.55	4491	76.09	76
83	Yangzhou University	457	0.66	4455	79.21	64
84	Hebei Normal University	648	0.69	4433	78.4	67
85	Yunnan University	563	0.69	4296	77.09	100
86	Henan University	619	0.71	4192	76.58	71
87	Hebei University of Technology	709	0.57	4129	73.91	108

88	Jiangxi Normal University	670	0.6	4124	71.94	49
89	Northwest University Xi'an	734	0.72	4093	76.98	135
90	Anhui Normal University	441	0.72	3999	82.99	37
91	Guangzhou University	401	0.74	3950	82.79	35
92	Fujian Normal University	532	0.62	3914	75.19	88
93	Taiyuan University of Technology	627	0.73	3910	67.62	61
94	Sichuan Normal University	544	0.75	3861	75.92	66
95	Guangdong University of Technology	669	0.81	3839	73.09	95
96	Liaoning University	428	1.01	3829	82.01	189
97	Northwest Normal University - China	710	0.54	3819	76.62	102
98	Zhejiang A&F University	323	1.04	3725	90.71	32
99	China University of Petroleum	792	0.54	3665	69.44	155
100	Jiangnan University	559	0.7	3660	70.13	60
101	Nanjing University of Technology	381	1.45	3618	77.69	88
102	University of Jinan	453	0.98	3595	76.6	58
103	Hefei University of Technology	603	0.67	3561	71.97	103
104	Qingdao University	434	0.81	3409	80.88	160
105	China University of Geosciences	573	0.74	3388	70.51	100

我校物理学共有 6 篇高被引论文，如图-12 所示：

1	<p>EPITAXIAL GROWTH OF LARGE-GAP QUANTUM SPIN HALL INSULATOR ON SEMICONDUCTOR SURFACE</p> <p>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</p> <p>Times Cited: 54  Research Front</p>
2	<p>A BAMBOO-INSPIRED NANOSTRUCTURE DESIGN FOR FLEXIBLE, FOLDABLE, AND TWISTABLE ENERGY STORAGE DEVICES</p> <p>By: SUN, YM; SILLS, RB; HU, XL; et.al Source: NANO LETT 15 (6): 3899-3906 JUN 2015 Research Fields: PHYSICS</p> <p>Times Cited: 37</p>
3	<p>UNEXPECTED GIANT-GAP QUANTUM SPIN HALL INSULATOR IN CHEMICALLY DECORATED PLUMBENE MONOLAYER</p> <p>By: ZHAO, H; ZHANG, CW; JI, WX; et.al Source: SCI REP 6: - FEB 2 2016 Research Fields: PHYSICS</p> <p>Times Cited: 20  Research Front</p>
4	<p>ROOM TEMPERATURE QUANTUM SPIN HALL INSULATOR IN ETHYNYL-DERIVATIVE FUNCTIONALIZED STANENE FILMS</p> <p>By: ZHANG, RW; ZHANG, CW; JI, WX; et.al Source: SCI REP 6: - JAN 5 2016 Research Fields: PHYSICS</p> <p>Times Cited: 12  Research Front</p>

5	<p>CONTROLLABLE BAND STRUCTURE AND TOPOLOGICAL PHASE TRANSITION IN TWO-DIMENSIONAL HYDROGENATED ARSENENE</p> <p>By: WANG, YP; JI, WX; ZHANG, CW; et.al Source: SCI REP 6: - FEB 3 2016 Research Fields: PHYSICS</p>	<p>Times Cited: 11</p> <p> Research Front</p>
6	<p>FUNCTIONALIZED THALLIUM ANTIMONY FILMS AS EXCELLENT CANDIDATES FOR LARGE-GAP QUANTUM SPIN HALL INSULATOR</p> <p>By: ZHANG, RW; ZHANG, CW; JI, WX; et.al Source: SCI REP 6: - FEB 17 2016 Research Fields: PHYSICS</p>	<p>Times Cited: 10</p> <p> Research Front</p>

图-12 济南大学物理学高被引论文

详细记录：

1、被引频次 54（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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作者信息

通讯作者地址: Liu, F (通讯作者)

Univ Utah, Dept Mat Sci & Engr, Salt Lake City, UT 84112 USA.

地址:

[1] Univ Utah, Dept Mat Sci & Engr, Salt Lake City, UT 84112 USA

[2] Univ Jinan, Sch Phys & Technol, Jinan 250022, Shangdong, Peoples R China

[3] Collaborat Innovat Ctr Quantum Matter, Beijing 100871, Peoples R China

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

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文献类型: Article

语种: English

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PubMed ID: 25246584

ISSN: 0027-8424

2、被引频次 37（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]

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作者信息

通讯作者地址: Hu, XL (通讯作者)

Huazhong Univ Sci & Technol, State Key Lab Mat Proc & Die & Mold Technol, Sch Mat Sci & Engr, Wuhan 430074, Peoples R China.

地址:

[1] Huazhong Univ Sci & Technol, State Key Lab Mat Proc & Die & Mold Technol, Sch Mat Sci & Engr, Wuhan 430074, Peoples R China

[2] Huazhong Univ Sci & Technol, Wuhan Natl Lab Optoelect, Wuhan 430074, Peoples R China

[3] Huazhong Univ Sci & Technol, Coll Optoelect Sci & Engr, Wuhan 430074, Peoples R China

[4] Stanford Univ, Dept Mat Sci & Engr, Stanford, CA 94305 USA

[5] Stanford Univ, Dept Mech Engr, Stanford, CA 94305 USA

[6] Sandia Natl Labs, Livermore, CA 94551 USA

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

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

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

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3、被引频次 20 (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]

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作者信息

通讯作者地址: Zhang, CW (通讯作者)

Univ Jinan, Sch Phys & Technol, Jinan 250022, Shandong, Peoples R China.

地址:

[1] Univ Jinan, Sch Phys & Technol, Jinan 250022, Shandong, Peoples R China

[2] Shandong Univ, Sch Phys, State Key Lab Crystal Mat, Jinan 250100, Shandong, Peoples R China

电子邮件地址:zhchwsd@163.com

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4、被引频次 12 (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]

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作者信息

通讯作者地址: Zhang, CW (通讯作者)

Univ Jinan, Sch Phys & Technol, Jinan 250022, Shandong, Peoples R China.

地址:

[1] Univ Jinan, Sch Phys & Technol, Jinan 250022, Shandong, Peoples R China

[2] Shandong Univ, State Key Lab Crystal Mat, Sch Phys, Jinan 250100, Shandong, Peoples R China

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文献类型:Article

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PubMed ID: 26728874

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5、被引频次 11（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

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作者信息

通讯作者地址: Zhang, CW (通讯作者)

Univ Jinan, Sch Phys & Technol, Jinan 250022, Shandong, Peoples R China.

地址:

[1] Univ Jinan, Sch Phys & Technol, Jinan 250022, Shandong, Peoples R China

电子邮件地址:zhchwsd@163.com

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6、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）

Functionalized Thallium Antimony Films as Excellent Candidates for 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)[2] ; Yan, SS (Yan, Shi-shen)[2] ; Li, P (Li, Ping)[1] ; Wang, PJ (Wang, Pei-ji)[1]

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作者信息

通讯作者地址: Zhang, CW (通讯作者)

Univ Jinan, Sch Phys & Technol, Jinan 250022, Shandong, Peoples R China.

地址:

[1] Univ Jinan, Sch Phys & Technol, Jinan 250022, Shandong, Peoples R China

[2] Shandong Univ, Sch Phys, State Key Lab Crystal Mat, Jinan 250100, Shandong, Peoples R China

电子邮件地址:zhchwsd@163.com

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7.3.2 生物与生物化学学科现状分析

生物与生物化学 2017 年 3 月份国内高校 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、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-13 中,排名第 1 位的上海交通大学至排名第 47 位的天津医科大学,其生物与生物化学学科进入了 ESI 的前 1%行列。我校的生物与生物化学按照 ESI 总被引频次在国内高校排名第 88 位,省内高校第 5 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	国际合作论文数
1	Shanghai Jiao Tong University	3870	0.91	47171	78.5	976
2	Zhejiang University	3429	0.89	39539	81.31	840
3	Peking University	2875	0.99	38473	81.18	871
4	Tsinghua University	2230	1.18	36422	87.13	640
5	Fudan University	2916	0.86	35154	79.6	819
6	Sun Yat Sen University	2148	1	27312	79.66	505
7	Shandong University	2508	0.8	23906	75.44	563
8	University of Chinese Academy of Sciences	2175	1.11	21146	79.03	410
9	Wuhan University	1584	0.94	20527	79.29	355
10	Sichuan University	1882	0.83	18017	77.31	378
11	University of Science & Technology of China	1093	1.06	17484	85.45	290

12	China Agricultural University	1370	0.96	17341	82.92	418
13	Huazhong University of Science & Technology	1673	0.8	15876	78.36	431
14	Nanjing University	1195	0.96	14173	80.25	260
15	South China University of Technology	791	1.4	13951	85.59	177
16	East China University of Science & Technology	1282	0.86	13914	84.4	198
17	Nankai University	1124	0.94	13767	84.43	324
18	Jiangnan University	1470	0.79	13423	81.36	303
19	Central South University	1383	0.74	12602	75.27	365
20	Jilin University	1593	0.69	12100	73.57	439
21	Tongji University	1388	0.87	11733	74.5	337
22	Nanjing Agricultural University	1014	0.9	11438	81.95	188
23	Suzhou University	1127	0.88	11016	75.6	285
24	Dalian University of Technology	808	0.97	10887	87.5	187
25	Fourth Military Medical University	981	0.91	10724	81.45	227
26	Harbin Institute of Technology	888	1.28	10637	80.86	269
27	Xiamen University	956	0.92	10553	79.39	314
28	Nanjing Medical University	1200	0.82	10186	73.67	231
29	Tianjin University	822	0.99	9429	82.6	165
30	Second Military Medical University	1041	0.73	9266	79.54	200
31	Huazhong Agricultural University	992	0.86	8993	79.74	227
32	Southeast University - China	740	1.09	8745	73.65	155
33	Harbin Medical University	965	0.76	8113	76.79	225
34	Ocean University of China	707	0.85	7697	84.44	148
35	Xi'an Jiaotong University	990	0.67	7611	73.84	331
36	Lanzhou University	667	0.82	7154	82.91	80
37	Third Military Medical University	911	0.66	7142	76.95	167
38	Hunan University	363	1.37	6959	87.88	54
39	Capital Medical University	1012	0.64	6853	67.19	226
40	Jinan University	692	0.81	6502	82.37	145
41	Beijing University of Chemical Technology	473	1.16	6436	83.72	108
42	China Medical University	882	0.63	6411	74.72	241
43	Shanghai University	438	1.05	6376	84.02	153
44	Southern Medical University - China	754	0.71	6209	71.22	189
45	Northwest A&F University - China	787	0.84	6003	77	210
46	Southwest University - China	502	0.9	5814	81.27	114
47	Tianjin Medical University	609	0.82	5797	74.71	157
48	Beijing Normal University	458	0.78	5372	84.93	107
49	Shenzhen University	266	1.28	5204	70.68	80
50	East China Normal University	449	0.9	5038	80.62	189
51	China Pharmaceutical University	615	0.72	5012	81.14	106
52	Zhengzhou University	917	0.52	4728	52.13	129

53	Nanjing University of Technology	427	0.93	4676	81.5	48
54	Chongqing Medical University	601	0.71	4648	70.22	140
55	Wenzhou Medical University	674	0.61	4089	66.47	216
56	University of Electronic Science & Technology of China	194	1.99	4016	73.2	50
57	Hunan Normal University	289	0.81	3953	87.54	81
58	Donghua University	234	1.33	3921	87.18	123
59	Chongqing University	424	0.86	3780	82.08	111
60	Zhejiang University of Technology	409	0.8	3763	81.91	77
61	Nanchang University	439	0.85	3721	71.3	117
62	Tianjin University Science & Technology	407	0.78	3693	76.66	76
63	University Town of Shenzhen	398	1.39	3640	76.13	114
64	South China Normal University	254	0.87	3598	77.56	46
65	Shantou University	327	0.68	3549	84.4	57
66	Anhui Medical University	470	0.77	3523	68.3	90
67	South China Agricultural University	402	0.71	3352	76.87	85
68	Nanjing Normal University	348	0.68	3351	83.91	46
69	Dalian Medical University	388	0.71	3242	75	97
70	Sichuan Agricultural University	420	0.73	3172	71.9	83
71	Shenyang Pharmaceutical University	304	0.74	3168	84.21	84
72	Northeast Agricultural University - China	434	0.73	2972	75.12	51
73	Jiangsu University	427	0.81	2947	70.26	86
74	Shanghai University of Traditional Chinese Medicine	290	0.91	2938	76.55	83
75	Guangxi University	253	0.85	2876	81.03	49
76	Yangzhou University	327	0.79	2859	79.2	62
77	Northeast Forestry University - China	270	0.81	2759	75.19	78
78	Beijing Forestry University	279	1.14	2697	77.42	57
79	Qingdao University of Science & Technology	148	0.87	2695	93.24	17
80	Yunnan University	216	0.65	2567	84.72	55
81	Guangzhou Medical University	408	0.72	2500	68.14	73
82	Beijing Institute of Technology	194	0.93	2451	79.9	48
83	Beijing University of Technology	261	1.08	2441	78.54	44
84	Shanxi University	260	0.7	2405	80.38	49
85	Northeast Normal University - China	246	0.81	2383	82.11	39
86	Shandong Agricultural University	260	0.63	2313	80.38	38
87	Northwest University Xi'an	280	0.63	2251	73.57	54
88	University of Jinan	261	0.97	2231	75.86	40
89	University of South China	285	0.59	2224	75.44	64
90	Hebei Medical University	402	0.5	2217	60.45	93
91	Nantong University	331	0.7	2170	74.02	50
92	North China University of Science & Technology	114	2.43	2152	68.42	35

93	Central China Normal University	218	0.89	2133	82.11	68
94	Qingdao University	424	0.58	2103	62.5	53
95	Hunan University of Technology	36	5.11	1994	100	1
96	Inner Mongolia University	127	0.91	1849	74.8	18
97	Hefei University of Technology	160	0.99	1818	76.25	39
98	Zhejiang Sci-Tech University	196	0.74	1766	81.12	33
99	Fuzhou University	180	0.96	1737	86.11	41
100	Shanghai Normal University	142	0.93	1727	82.39	41

我校生物与生物化学共有 4 篇高被引论文，如图-13 所示：

1	<p>SIGNIFICANCE OF SERUM MICRORNAs IN PRE-DIABETES AND NEWLY DIAGNOSED TYPE 2 DIABETES: A CLINICAL STUDY</p> <p>By: KONG, L; ZHU, JJ; HAN, WX; et.al Source: ACTA DIABETOL 48 (1): 61-69 MAR 2011 Research Fields: BIOLOGY & BIOCHEMISTRY</p> <p>Times Cited: 139</p>
2	<p>HIGHLY SELECTIVE ADSORPTION OF LEAD IONS BY WATER-DISPERSIBLE MAGNETIC CHITOSAN/GRAPHENE OXIDE COMPOSITES</p> <p>By: FAN, LL; LUO, CN; SUN, M; et.al Source: COLLOID SURFACE B 103: 523-529 MAR 1 2013 Research Fields: BIOLOGY & BIOCHEMISTRY</p> <p>Times Cited: 97</p> <p> Research Front</p>
3	<p>ADSORBENT FOR CHROMIUM REMOVAL BASED ON GRAPHENE OXIDE FUNCTIONALIZED WITH MAGNETIC CYCLODEXTRIN-CHITOSAN</p> <p>By: LI, LL; FAN, LL; SUN, M; et.al Source: COLLOID SURFACE B 107: 76-83 JUL 1 2013 Research Fields: BIOLOGY & BIOCHEMISTRY</p> <p>Times Cited: 82</p>
4	<p>SILENCING OF LONG NONCODING RNA MALAT1 BY MIR-101 AND MIR-217 INHIBITS PROLIFERATION, MIGRATION, AND INVASION OF ESOPHAGEAL SQUAMOUS CELL CARCINOMA CELLS</p> <p>By: WANG, XY; LI, M; WANG, ZQ; et.al Source: J BIOL CHEM 290 (7): 3925-3935 FEB 13 2015 Research Fields: BIOLOGY & BIOCHEMISTRY</p> <p>Times Cited: 51</p>

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 139（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

查看期刊信息

摘要

作者信息

通讯作者地址: Gao, L (通讯作者)

Shandong Univ, Prov Hosp, Dept Endocrinol, 324 Jingwu Rd, Jinan 250021, Peoples R China.

地址:

[1] Shandong Univ, Prov Hosp, Dept Endocrinol, Jinan 250021, Peoples R China

[2] Fudan Univ, Liver Canc Inst, Shanghai 200433, Peoples R China

[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 97 (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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作者信息

通讯作者地址: Luo, CN (通讯作者)

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

地址:

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

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 82（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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作者信息

通讯作者地址: Luo, CN (通讯作者)

Univ Jinan, Sch Chem & Chem Engrn, Shandong Univ, Key Lab Chem Sensing & Anal, Jinan 250022, Peoples R China.

地址:

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

电子邮件地址:haoyunlileilei@163.com

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 51（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]

查看 ResearcherID 和 ORCID

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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作者信息

通讯作者地址: Yang, M (通讯作者)

Beijing Univ Chem Technol, Coll Life Sci & Technol, POB 53, Beijing 100029, Peoples R China.

地址:

[1] Beijing Univ Chem Technol, Coll Life Sci & Technol, Beijing Lab Biomed Mat, State Key Lab Chem Resource Engn, Beijing 100029, Peoples R China

[2] Huaian 2 Hosp, Dept Radiat Oncol, Huaian 223002, Jiangsu, Peoples R China

[3] Shandong Acad Med Sci, Shandong Canc Hosp, Clin Lab, Jinan 250117, Shandong, Peoples R China

电子邮件地址: yangm@mail.buct.edu.cn

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

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7.3.3 数学学科现状分析

数学 2017 年 3 月份国内高校 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、清华大学、兰州大学、上海交通大学、北京师范大学、浙江大学、山东大学、东南大学、南开大学。在表-14 中, 排名第 1 位的北京大学至排名第 27 位的浙江师范大学, 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 99 位, 省内高校第 6 位。

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	国际合作论文数
1	Peking University	1881	1.12	10042	67.15	620
2	Fudan University	1738	1.09	8573	69.68	535
3	Tsinghua University	1550	1.07	8084	68.97	483
4	Lanzhou University	1040	1.61	7956	73.94	179
5	Shanghai Jiao Tong University	1420	1.16	7432	66.27	448
6	Beijing Normal University	1592	1.29	7404	68.28	453
7	Zhejiang University	1809	0.87	7332	62.69	471
8	Shandong University	1652	1.02	7175	64.04	376
9	Southeast University - China	1120	1.4	7094	65.36	245
10	Nankai University	1572	1.11	6991	67.75	440
11	Harbin Institute of Technology	1379	1.34	6842	62.51	298
12	University of Science & Technology of China	1313	1.13	6561	65.8	444
13	Shanghai University	1260	1.11	6462	68.41	273
14	Sun Yat Sen University	1269	1.04	6131	68.64	335
15	East China Normal University	1477	0.88	5807	65.13	383
16	Shanghai Normal University	954	1.22	5725	69.39	340
17	Xiamen University	1173	1.26	5571	61.98	293
18	Xi'an Jiaotong University	1068	1.08	5463	67.13	230
19	Nanjing University	1264	1	5264	64.87	277
20	Central South University	1082	1.42	5186	65.62	162
21	Dalian University of Technology	1350	0.88	5166	63.48	181
22	South China Normal University	1203	0.92	4986	66.33	168
23	Sichuan University	1123	0.93	4741	62.87	257
24	Wuhan University	1162	1.02	4725	65.06	283
25	Huazhong University of Science & Technology	931	1.11	4438	66.6	196
26	Hunan University	799	1.03	4089	64.46	123
27	Zhejiang Normal University	899	1.1	3969	65.41	207
28	Qufu Normal University	720	1.07	3872	64.44	168
29	Donghua University	446	1.86	3868	67.49	92
30	Beijing Institute of Technology	844	0.98	3781	66.47	173
31	Chongqing University	871	1.13	3748	64.06	110
32	Xiangtan University	449	1.75	3696	71.27	97
33	Tianjin Polytechnic University	585	1.46	3614	62.22	205
34	Suzhou University	907	0.96	3434	64.39	172
35	Northeast Normal University - China	664	1.15	3395	64.16	169
36	Nanjing Normal University	1002	0.75	3356	57.49	137
37	Tongji University	914	1.03	3264	59.52	162
38	South China University of Technology	642	1.22	3196	58.88	139

39	Jilin University	942	0.87	3081	58.49	141
40	Jiangnan University	339	1.77	3045	47.2	41
41	Fuzhou University	453	1.17	2928	70.64	66
42	University of Electronic Science & Technology of China	668	1.31	2786	64.37	122
43	Capital Normal University	618	1.05	2729	61.97	166
44	Central China Normal University	772	1	2717	62.82	218
45	Southwest University - China	640	1.15	2651	58.75	134
46	Beihang University	683	1.17	2341	59.3	138
47	Henan Polytech University	481	1.53	2218	66.53	79
48	China University of Mining & Technology	665	1.16	2217	53.38	82
49	Beijing University of Technology	532	0.86	2198	57.89	87
50	Jiangsu Normal University	561	0.85	2139	62.03	116
51	Yunnan University	514	1.17	2114	66.34	77
52	Beijing Jiaotong University	582	0.99	2084	59.28	141
53	Henan Normal University	595	0.89	2060	55.13	65
54	Nanjing University of Aeronautics & Astronautics	621	0.87	2037	56.84	112
55	Hunan Normal University	583	0.75	2031	64.32	128
56	Anhui University	424	1.39	2021	69.81	49
57	Xinjiang University	522	0.82	1997	60.34	75
58	Northwest Normal University - China	553	0.78	1958	59.13	34
59	Shanxi University	451	1.03	1936	59.65	55
60	Shantou University	275	1.34	1841	66.91	55
61	Nanjing University of Science & Technology	393	1.2	1815	58.52	88
62	Zhengzhou University	458	0.91	1792	62.23	52
63	Shaanxi Normal University	416	0.98	1786	62.98	60
64	Huzhou University	282	1.3	1761	73.76	27
65	Changsha University of Science & Technology	337	1.07	1751	64.99	55
66	Jiangsu University	343	1.16	1719	62.39	48
67	Guangzhou University	367	0.85	1671	53.68	56
68	Tianjin University	582	0.95	1669	57.04	85
69	North China Electric Power University	361	0.95	1669	58.17	65
70	Xidian University	420	0.92	1490	58.81	53
71	Renmin University of China	410	0.97	1451	57.07	122
72	Shanghai University of Finance & Economics	400	1.02	1428	57	180
73	Northeastern University - China	369	1.1	1412	52.85	81

74	China University of Petroleum	389	0.96	1408	60.41	39
75	Shandong University of Science & Technology	265	1.16	1401	62.64	23
76	Hangzhou Normal University	397	0.9	1382	61.96	99
77	Harbin Normal University	217	1.13	1370	71.43	61
78	Nanjing University of Information Science & Technology	348	1.08	1349	61.49	70
79	Fujian Normal University	459	0.77	1315	59.69	64
80	University of Science & Technology Beijing	237	1.27	1310	62.45	48
81	East China University of Science & Technology	335	1.01	1310	57.31	70
82	Lanzhou Jiaotong University	231	1.16	1302	70.13	43
83	Yunnan Normal University	210	1.56	1295	67.14	32
84	Beijing University of Posts & Telecommunications	283	1.15	1249	59.72	42
85	Hohai University	404	1.02	1247	53.47	73
86	Guangxi University	281	0.77	1235	66.9	14
87	Yangzhou University	381	0.87	1201	58.01	73
88	Yantai University	254	1.14	1160	64.96	65
89	Northwest University Xi'an	344	0.71	1157	52.91	28
90	Anhui Normal University	285	0.98	1155	62.81	35
91	Guizhou University	180	1.69	1147	65.56	36
92	Henan University	360	0.78	1107	56.11	50
93	Wenzhou University	270	1.03	1087	64.07	48
94	Jiaying University	284	1.12	1081	61.97	27
95	Kunming University of Science & Technology	266	1.05	1067	64.29	22
96	Nanchang University	335	0.79	1062	57.01	19
97	Hangzhou Dianzi University	383	0.79	1041	54.05	63
98	Jiangxi Normal University	434	0.72	1039	53.23	95
99	University of Jinan	258	1	1037	57.36	62
100	Sichuan Normal University	326	0.67	1036	61.66	44

表-14 ESI 数学国内高校排名

我校数学共有 3 篇高被引论文，如图-14 所示：

<p>POSITIVE SOLUTIONS FOR BOUNDARY VALUE PROBLEMS OF NONLINEAR FRACTIONAL DIFFERENTIAL EQUATIONS</p> <p>By: ZHAO, YG; SUN, SR; HAN, ZL; et al Source: APPL MATH COMPUT 217 (16): 6950-6958 APR 15 2011 Research Fields: MATHEMATICS</p>	<p>Times Cited: 52</p> <p> Research Front</p>
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<p>LEAST SQUARE REGRESSION WITH INDEFINITE KERNELS AND COEFFICIENT REGULARIZATION</p> <p>By: SUN, HW; WU, QA; Source: APPL COMPUT HARMONIC ANAL 30 (1): 96-109 JAN 2011 Research Fields: MATHEMATICS</p>	<p>Times Cited: 44</p>
<p>POSITIVE SOLUTIONS TO BOUNDARY VALUE PROBLEMS OF NONLINEAR FRACTIONAL DIFFERENTIAL EQUATIONS</p> <p>By: ZHAO, YG; SUN, SR; HAN, ZL; et.al Source: ABSTR APPL ANAL : - 2011 Research Fields: MATHEMATICS</p>	<p>Times Cited: 38</p> <p> Research Front</p>

图-14 济南大学数学高被引论文

详细记录：

1、被引频次 52（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

[查看期刊信息](#)

[作者信息](#)

通讯作者地址: Sun, SR (通讯作者)

Univ Jinan, Sch Sci, Jinan 250022, Shandong, Peoples R China.

地址:

[1] Univ Jinan, Sch Sci, Jinan 250022, Shandong, Peoples R China

[2] Shandong Univ, Sch Control Sci & Engr, Jinan 250061, Shandong, Peoples R China

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 44（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

作者信息

通讯作者地址: Wu, QA (通讯作者)

Michigan State Univ, Dept Math, E Lansing, MI 48824 USA.

地址:

[1] Michigan State Univ, Dept Math, E Lansing, MI 48824 USA

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

电子邮件地址:ss_sunhw@ujn.edu.cn; wuqiang@math.msu.edu

文献类型:Article

语种:English

入藏号: WOS:000285223600006

ISSN: 1063-5203

eISSN: 1096-603X

3、被引频次 38 (济南大学是第 1 作者和通讯作者单位, 数学科学学院)

Positive Solutions to Boundary Value Problems of Nonlinear Fractional Differential Equations

作者:Zhao, YG (Zhao, Yige)[1]; Sun, SR (Sun, Shurong)[1,2]; Han, ZL (Han, Zhenlai)[1]; Li, QP (Li, Qiuping)[1]

ABSTRACT AND APPLIED ANALYSIS

文献号: 390543

DOI: 10.1155/2011/390543

出版年: 2011

作者信息

通讯作者地址: Sun, SR (通讯作者)

Univ Jinan, Sch Sci, Jinan 250022, Shandong, Peoples R China.

地址:

[1] Univ Jinan, Sch Sci, Jinan 250022, Shandong, Peoples R China

[2] Missouri Univ Sci & Technol Rolla, Dept Math & Stat, Rolla, MO 65409 USA

电子邮件地址:sshrong@163.com

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