2017 年 01 月份更新

济南大学 ESI 学科分析报告

2006 年 1 月 1 日-2016 年 10 月 31 日

济南大学发展规划与学科建设处

济南大学图书馆

目录

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 01 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、生物和生物化学、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 01 月 16 日的统计数据中（2017 年 01 月份更新数据），山东省共有 11（新增山东科技大学）所高校共计 17 个（山东大学新增计算机科学）学科进入了 ESI 全球前 1%，具体情况如表-1 所示。

表-1 2017 年 01 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	293	10
中国海洋大学	9	86	1
中国石油大学	4	85	3
济南大学	4	44	1
青岛大学	3	64	2
青岛科技大学	3	26	0
山东农业大学	2	18	1

曲阜师范大学	1	34	0
山东师范大学	1	19	1
山东科技大学	1	15	1
聊城大学	1	13	0

2.2 山东省 ESI 学科全球排名情况

在 2017 年 01 月 16 日的统计数据中（2017 年 01 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 01 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	703	469					316				
生物及生物化学	317	779									
化学	99	768	480	437	1006	639		841	847		
临床医学	510				1492	1557					
计算机科学	404										
经济学与商学											
工程学	182	768	307	1131	642	1158				801	1297
环境学及生态学	617	485									
地学		253	443								
免疫学	561										
材料科学	94	606	372	582		651					
数学	96										
微生物学											
分子生物学与遗传学	609										
综合学科											
神经科学与行为科学	595										

药理学与毒理学	175	647									
物理学	244										
植物与动物科学	754	307					365				
心理学与精神病学											
一般社会科学	1015										
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 号-2016 年 10 月 31 号，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）

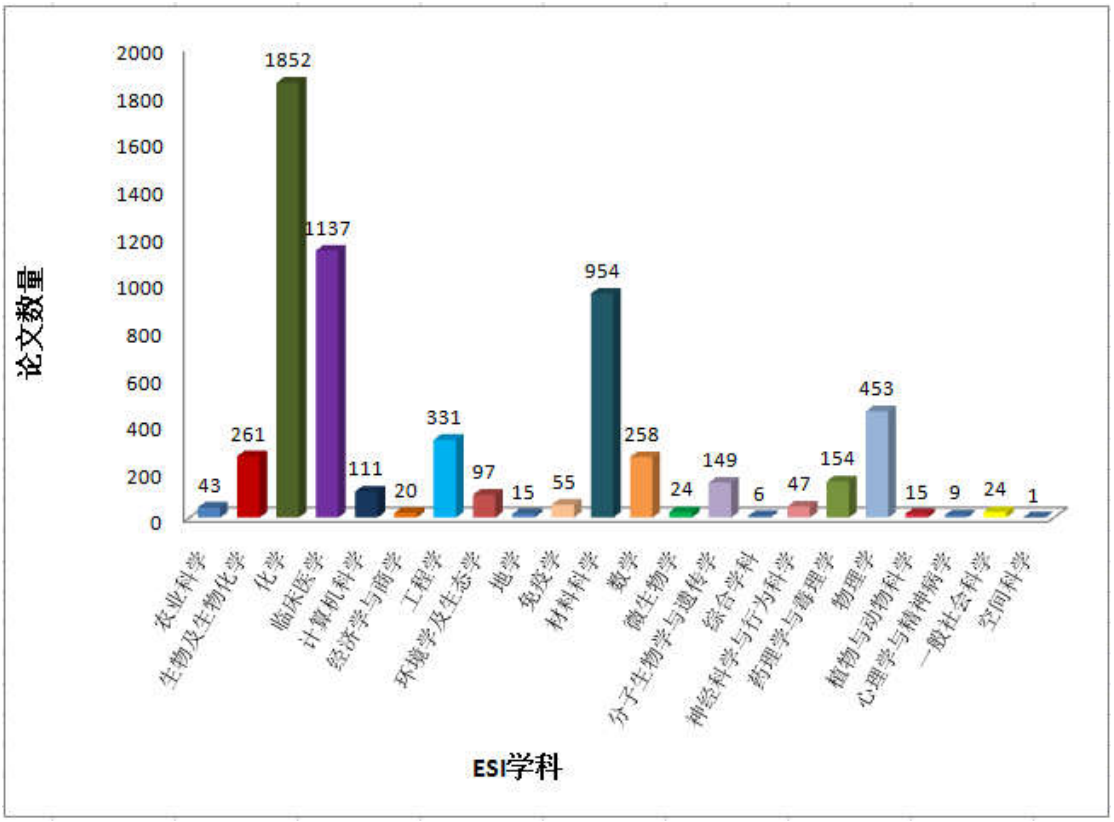

图-1 济南大学各学科的科研产出(2006-2016.10.31)

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）

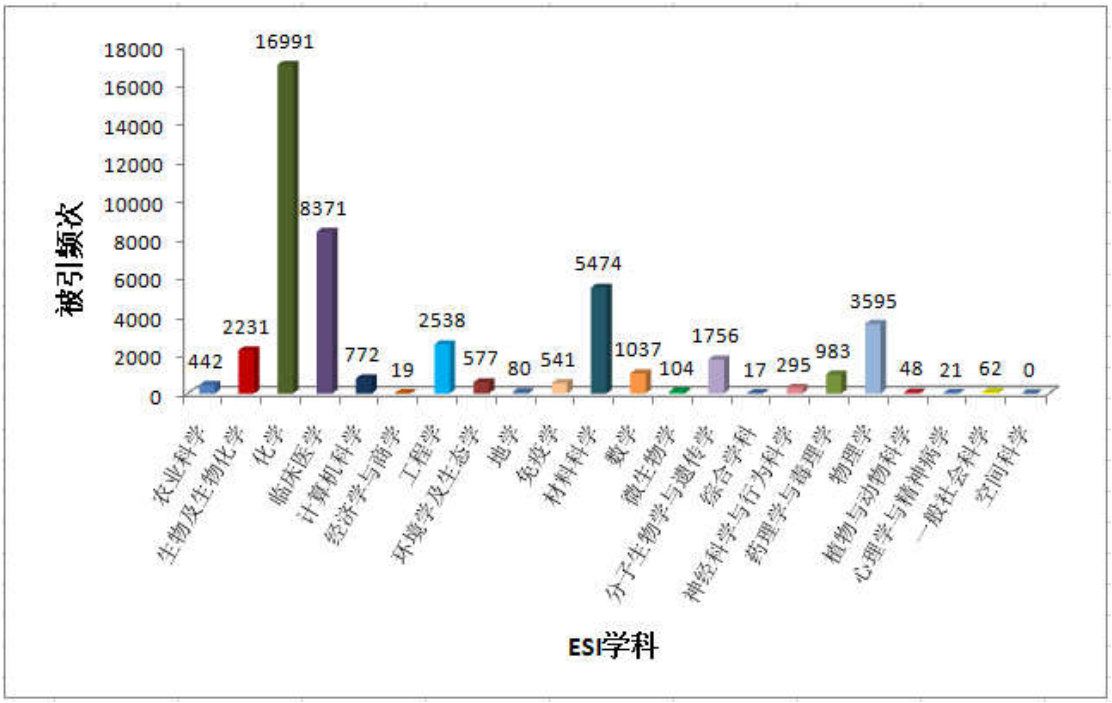

图-2 济南大学各学科论文的总被引频次(2006-2016.10.31)

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。

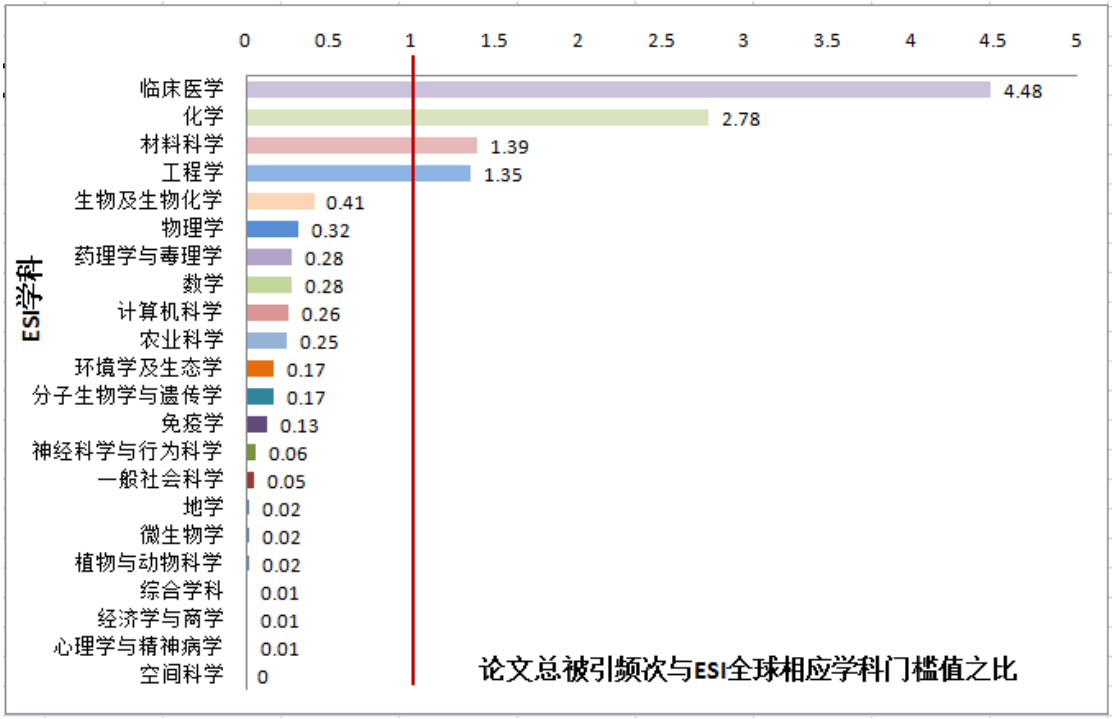

图-3 济南大学 ESI 学科趋势预测

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 ESI2017 年 01 月 16 日（2017 年 01 月份更新数据）统计结果，我校共有 44 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 295 次。

6 济南大学 ESI 高被引论文总体情况

截至到 2017 年 01 月 16 号（2017 年 01 月份更新数据），我校高被引论文共 44 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	1,837	16,256	8.85	9
2	CLINICAL MEDICINE	1,130	8,154	7.22	4
3	MATERIALS SCIENCE	935	5,099	5.45	4
4	ENGINEERING	327	2,267	6.93	14
0	ALL FIELDS	5,957	43,497	7.30	44

图-4 济南大学高被引论文

6.1 高被引论文学科分布

我校 44 篇高被引论文中，进入前 1%学科的共有 31 篇，分别是 Chemistry（化学）9 篇，Clinical Medicine（临床医学）4 篇，Materials Science（材料科学）4 篇，Engineering（工程）14 篇（有 2 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 13 篇，分别是 Physics（物理）6 篇，Biology & Biochemistry（生物和生物化学）4 篇，Mathematics（数学）2 篇，Agriculture Sciences（农业科学）1 篇（不是济南大学文章），如图-5 所示。

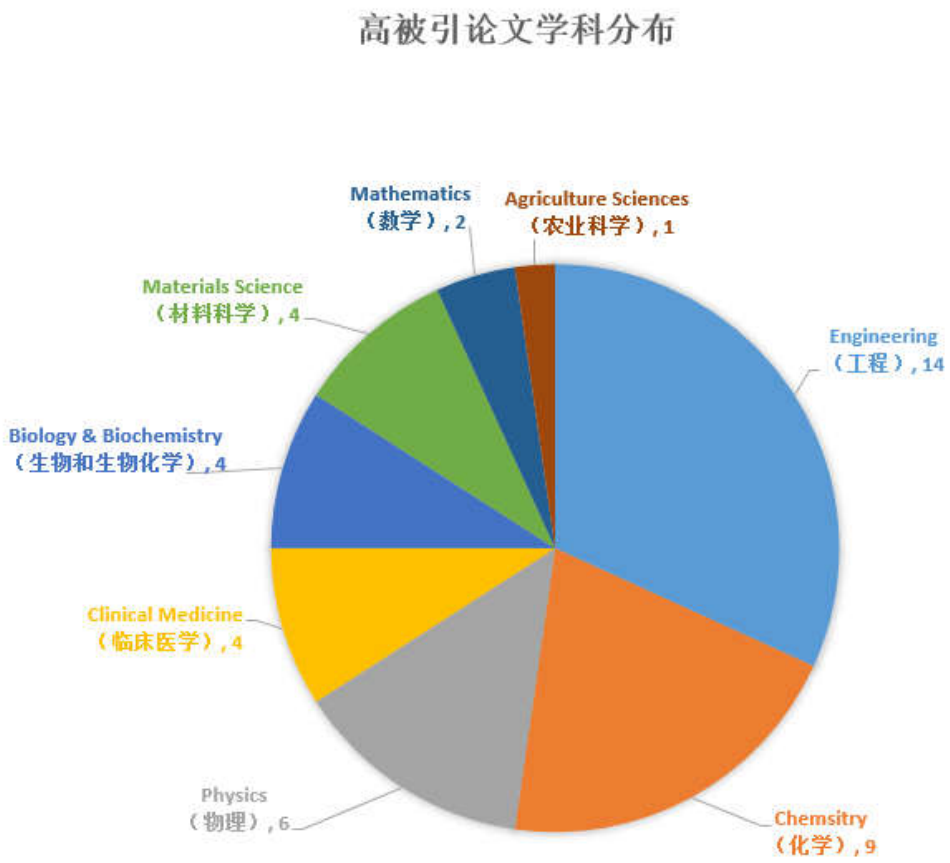

图-5 高被引论文学科分布

6.2 高被引论文学院分布

总起来说，44 篇高被引论分布在 8 个学院，其中化学化工学院 13 篇、资源与环境学院 7 篇、山东省医学科学院 6 篇、物理科学与技术学院 5 篇、材料科学与工程学院 4 篇、生物科学与技术学院 3 篇、数学科学学院 2 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	13
资源与环境学院	7

医学与生命科学学院	6
物理科学与技术学院	5
材料科学与工程学院	4
生物科学与技术学院	3
数学科学学院	2
商学院	1
其他	3

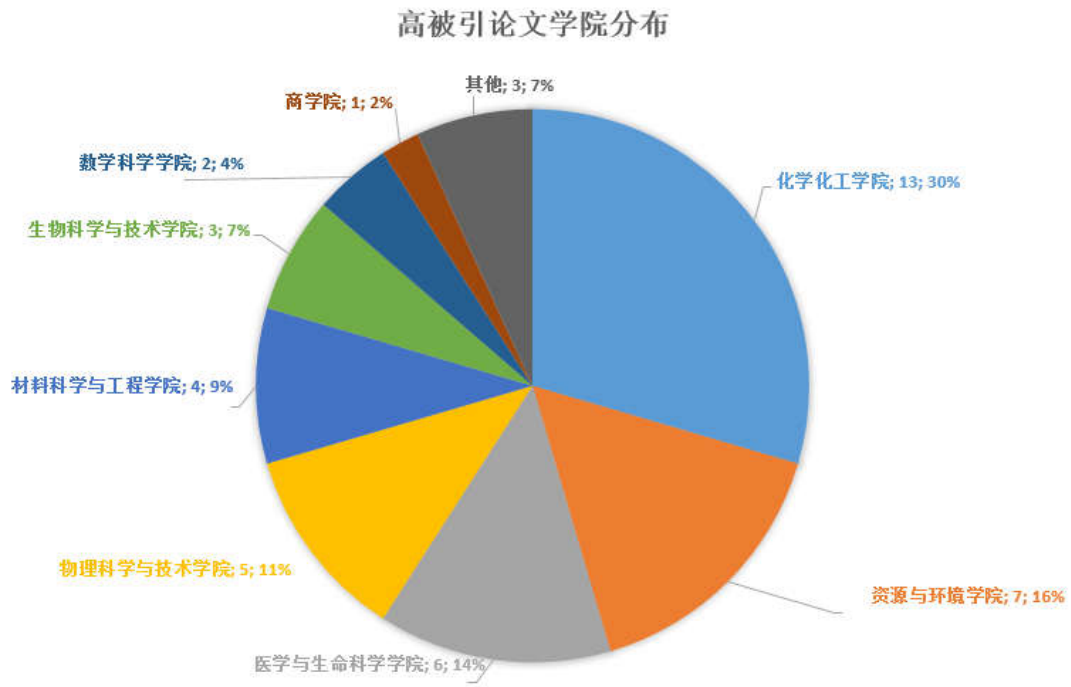

图-6 高被引论文学院分布

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、物理以及数学的高被引论文来源比较集中，主要来自于我校对应学院作者。材料科学的高被引论文 2 篇

来自材料科学与工程学院 ,2 篇来自于化学化工学院,工程学论文分布在几个学院。

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	临床医学	生物和生物化学	数学	物理	农业科学
化学化工学院	5	2	3		2		1	
资源与环境学院			7					
医学与生命科学学院				4	2			
物理科学与技术学院							5	
材料科学与工程学院	1	2	1					
生物科学与技术学院	3							
数学科学学院						2		
商学院			1					
其他			2					1

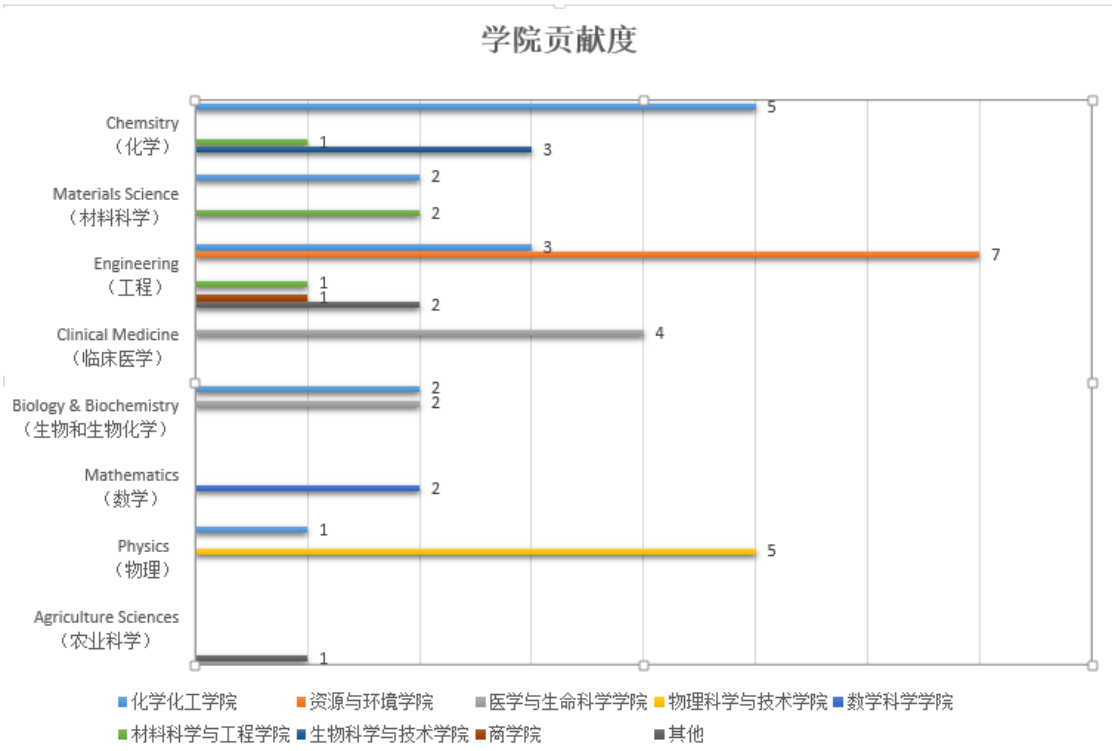

图-7 高被引论文学院贡献度

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 24 篇高被引论文，比 2016 年 11 月份统计数据增加 2 篇，论文来自 11 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 houmei	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	7	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
物理科学与技术学院	4	张昌文	4	Zhang Run-wu	2
				Zhao Hui	1
				Wang Yaping	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	1	孙书荣	1	Zhao Yige	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 2016 年 11 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，大部分保持高被引态势，只有 3 篇被挤出高被引，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
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
	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
	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	罗川南	Fan Lulu	151	158
	BIOLOGY & BIOCHEMISTRY（生物和生物化学）	HIGHLY SELECTIVE ADSORPTION OF LEAD IONS BY WATER-DISPERSIBLE MAGNETIC CHITOSAN/GRAPHENE OXIDE COMPOSITES	COLLOID SURFACE B 103: 523-529 MAR 1 2013	2013		Fan Lulu	86	90
		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
	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
		NANOPOROUS PTCO AND PTNI ALLOY RIBBONS FOR METHANOL ELECTROOXIDATION	INT J HYDROGEN ENERG 37 (14): 10489-10498 JUL 2012	2012			53	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
资源与	ENGINEERING（工程）	ADSORPTION OF PHOSPHATE FROM AQUEOUS SOLUTION BY HYDROXY-ALUMINUM, HYDROXY-IRON AND HYDROXY-IRON-ALUMINUM PILLARED BENTONITES	J HAZARD MATER 179 (1-3): 244-250 JUL 15 2010	2010	杜斌	Yan Liangguo	87	93
		HIGHLY EFFICIENT REMOVAL OF HEAVY METAL IONS BY AMINE-FUNCTIONALIZED	CHEM ENG J 184: 132-140 MAR 1 2012	2012		Xin Xiaodong	81	86

环境学院		MESOPOROUS FE3O4 NANOPARTICLES						
		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
	CHEMISTRY （化学）	REMOVAL OF MERCURY AND METHYLENE BLUE FROM AQUEOUS SOLUTION BY XANTHATE FUNCTIONALIZED MAGNETIC GRAPHENE OXIDE: SORPTION KINETIC AND UPTAKE MECHANISM	J COLLOID INTERFACE SCI 439: 112-120 FEB 1 2015	2015		Cui Limei	23	
	ENGINEERING （工程）	EDTA FUNCTIONALIZED MAGNETIC GRAPHENE OXIDE FOR REMOVAL OF PB(II), HG(II) AND CU(II) IN WATER TREATMENT: ADSORPTION MECHANISM AND SEPARATION PROPERTY	CHEM ENG J 281: 1-10 DEC 1 2015	2015		Cui Limei	16	24
		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
		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
		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
物理科学与技术学院	PHYSICS （物理）	FIRST-PRINCIPLES STUDY OF FERROMAGNETISM IN TWO-DIMENSIONAL SILICENE WITH HYDROGENATION	J PHYS CHEM C 116 (6): 4163-4166 FEB 16 2012	2012	张昌文	张昌文	89	
		UNEXPECTED GIANT-GAP QUANTUM SPIN HALL INSULATOR IN CHEMICALLY DECORATED PLUMBENE MONOLAYER	SCI REP 6: - FEB 2 2016	2016		Zhao Hui	12	18
		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
		Controllable band structure and topological phase transition in two-dimensional hydrogenated	SCI REP 6: - FEB 3 2016	2016		Wang, Ya-ping		9

		arsenene						
		ROOM TEMPERATURE QUANTUM SPIN HALL INSULATOR IN ETHYNYL-DERIVATIVE FUNCTIONALIZED STANENE FILMS	SCI REP 6: - JAN 5 2016	2016		Zhang Run-wu		8
数学科学学院	MATHEMATICS（数学）	POSITIVE SOLUTIONS FOR BOUNDARY VALUE PROBLEMS OF NONLINEAR FRACTIONAL DIFFERENTIAL EQUATIONS	APPL MATH COMPUT 217 (16): 6950-6958 APR 15 2011	2011	孙书容	Zhao Yige	46	47
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	2015	林伟英	Tang Yongke	34	43
		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
		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
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	
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

7 济南大学高被引论文详细情况

7.1 详细数据统计表

各学科高被引论文数量及学院分布、作者情况如表-7 所示。

表-7 各学科高被引论文数量及分布学院、作者情况

类别	学科	高被引论文篇数	论文编号	高被引次数	所属学院	通讯作者单位（第1单位）	通讯作者单位（第2单位）	通讯作者单位（第4单位）	第2单位	第3单位	第4单位	第7单位	第9单位	第13单位
√		9	1	215	化学化工学院				√					
			2	167	材料科学与工程学院				√					
			3	143	化学化工学院				√					
			4	122	化学化工学院	√								
			5	43	生物科学与技术学院	√								
			6	31	化学化工学院	√								
			7	10	化生物科学与技术学院	√								
			8	9	生物科学与技术学院	√			√					
			9	8	化学化工学院									
	Clinical Medicine（临床医学）	4	1	295	医学与生命科学学院	√								
			2	152	医学与生命科学学院									√
			3	80	医学与生命科学学院								√	
			4	19	医学与生命科学学院		√							
	（Materials Science）材料科学	4	1	165	化学化工学院	√								
			2	77	化学化工学院				√					
			3	9	材料科学与工程学院					√				

			4	7	材料科学与工程学院				√					
	Engineering（工程）	12 篇	1	158	化学化工学院	√								
			2	93	资源与环境学院	√								
			3	86	资源与环境学院	√								
			4	81	材料科学与工程学院				√					
			5	78	化学化工学院	√								
			6	76	资源与环境学院	√								
			7	59	资源与环境学院	√								
			8	56	化学化工学院	√								
			9	46	资源与环境学院	√								
			10	43	商学院（经济学院）			√						
			11	24	资源与环境学院	√								
			12	6	资源与环境学院	√								
			13	4	非济南大学文章									
			14	4	非济南大学文章									
未进入前1%学科	Physics（物理）	5	1	51	物理科学与技术学院				√					
			2	31	化学化工学院							√		
			3	18	物理科学与技术学院	√								
			4	9	物理科学与技术学院	√								
			5	9	物理科学与技术学院	√								
			6	8	物理科学与技术学院	√								
	Biology & Biochemistry（生物和生物化学）	4	1	134	山东省肿瘤医院（医学与生命科学学院附属医院）						√			
			2	90	化学化工学院	√								
			3	75	化学化工学院	√								
			4	48	医学与生命科学学院					√				
	Mathematics（数学）	2	1	47	数学科学学院	√								
			2	44	数学科学学院				√					
	Agriculture Sciences（农业科学）	1	1	50	非济南大学文章									

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 01 月国内高校 ESI 排名如表-8 所示。可以看出排在前 10 位的高校分别是浙江大学、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 118 位的新疆大学，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

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	Zhejiang University	12757	1.14	189333	85.78	1963
2	Tsinghua University	10060	1.44	182348	84.94	1665
3	Nanjing University	9534	1.36	163624	86.31	1566
4	Peking University	8480	1.45	156397	87.1	1680
5	University of Science & Technology of China	8264	1.54	153093	86.71	1520
6	Fudan University	7364	1.43	147141	87.52	1371
7	Nankai University	7713	1.43	142225	87.23	866
8	Jilin University	11396	1.01	139572	82.06	1546
9	East China University of Science & Technology	8165	1.22	118890	83.93	1533
10	University of Chinese Academy of Sciences	10388	1.25	116729	79.04	989
11	Dalian University of Technology	5848	1.3	96233	84.87	1248
12	Sichuan University	9108	0.89	95823	81.28	917
13	Xiamen University	5489	1.4	92560	85.68	1149
14	Wuhan University	5078	1.4	91887	87.32	692
15	Sun Yat Sen University	4964	1.43	88883	86.6	759
16	Shandong University	7312	0.98	85374	82.03	1053

17	South China University of Technology	6065	1.26	80780	83.46	1026
18	Shanghai Jiao Tong University	5844	1.1	80645	84.87	1152
19	Lanzhou University	5172	1.3	78909	86.72	450
20	Tianjin University	6983	0.96	74391	79.14	951
21	Suzhou University	5219	1.31	70998	84.5	944
22	Beijing University of Chemical Technology	6045	0.98	70850	83.08	847
23	Hunan University	4002	1.46	63731	84.48	535
24	Northeast Normal University - China	3760	1.18	60572	85.61	279
25	Fuzhou University	3197	1.51	53458	84.83	342
26	East China Normal University	3243	1.4	50289	87.11	567
27	Harbin Institute of Technology	4280	1.03	47495	78.48	874
28	Huazhong University of Science & Technology	3521	1.24	43367	81.4	745
29	Beijing Institute of Technology	3859	0.96	40786	78.78	631
30	Central China Normal University	2294	1.32	39303	82.04	269
31	Wuhan University of Technology	1652	2.01	38448	82.38	492
32	Southeast University - China	3763	0.91	38178	76.51	482
33	Nanjing University of Technology	3794	0.89	33818	75.99	507
34	Tongji University	2786	1.08	33505	81.8	458
35	Xi'an Jiaotong University	3166	1.01	32692	77.13	670
36	Shanghai University	2627	1.16	32373	78.64	413
37	Zhengzhou University	3523	0.88	32184	79.34	349
38	Donghua University	2452	1.07	30986	81.97	493
39	Central South University	3533	0.92	30167	80.67	522
40	Southwest University - China	2604	1.1	29408	81.26	224
41	Beijing Normal University	2553	0.97	28519	84.45	533
42	Northwest University Xi'an	2851	0.89	27530	79.8	342
43	Qingdao University of Science & Technology	2640	0.82	26564	78.41	162
44	Nanjing University of Science & Technology	2673	0.92	25861	79.39	267
45	Zhejiang University of Technology	3111	0.73	25234	75.89	322
46	University of Science & Technology Beijing	2391	1.07	24791	78.67	456

47	Research Center for Eco-Environmental Sciences (RCEES)	1389	1.26	24756	87.4	240
48	China University of Petroleum	2779	0.86	24094	75.31	479
49	Anhui Normal University	1281	1.3	21056	86.65	80
50	China Pharmaceutical University	2523	0.75	20462	81.17	280
51	Jiangsu University	2273	1.17	20402	76.73	284
52	Jiangnan University	2552	0.84	19897	76.45	427
53	South China Normal University	2033	0.83	19581	81.51	416
54	Beihang University	1761	1.17	19378	76.43	271
55	University Town of Shenzhen	1448	1.4	18038	81.49	248
56	Xiangtan University	1709	1.02	17776	81.39	195
57	Henan Normal University	1683	0.86	17750	80.99	172
58	Shaanxi Normal University	2068	0.81	17558	79.06	235
59	University of Jinan	1852	1.1	16991	78.19	169
60	Harbin Engineering University	951	1.47	16752	79.5	134
61	Chongqing University	2215	0.98	16741	72.1	362
62	Yangzhou University	1552	0.99	16726	81.31	206
63	China Agricultural University	2076	0.63	16510	74.18	288
64	Henan University	1837	0.8	16066	81.87	156
65	Nanjing Normal University	1158	1.21	15805	83.59	131
66	Zhejiang Normal University	1421	1.06	15421	81.35	175
67	Hunan Normal University	1060	1.14	15360	86.42	101
68	Shanghai Normal University	881	1.32	15296	84.56	107
69	Nanchang University	1679	0.9	14727	79.21	246
70	Wenzhou University	1167	1.02	14675	82.52	136
71	Nanjing University of Posts & Telecommunications	786	1.54	14192	79.39	121
72	Northeastern University - China	1431	0.8	13720	75.33	246
73	Ocean University of China	1627	0.78	13392	79.1	183
74	Hefei University of Technology	1372	0.97	13315	75.73	201
75	Heilongjiang University	1308	1.02	13120	77.06	186
76	Shanxi University	1419	0.9	13105	76.89	180
77	Jinan University	1566	0.76	13075	77.71	162
78	Beijing University of Technology	1205	0.95	12337	78.92	174
79	Northwestern Polytechnical University	1534	0.92	12215	79.86	245

80	Jiangxi Normal University	1132	1.23	12212	80.65	96
81	Zhejiang Sci-Tech University	1109	1.13	12208	81.15	224
82	Nanjing University of Aeronautics & Astronautics	942	1.21	12105	80.68	178
83	Northwest Normal University - China	1539	0.8	11838	79.47	73
84	China University of Geosciences	1341	1.04	11825	76.29	324
85	Hubei University	1023	1.02	11735	84.07	204
86	Guangxi Normal University	1192	0.78	11634	78.36	122
87	Hebei University	1572	0.57	11307	74.94	67
88	Liaocheng University	1690	0.51	11275	75.27	68
89	Shandong Normal University	1105	0.88	11249	79.37	98
90	Tianjin Normal University	907	0.94	11231	76.63	42
91	Shenyang Pharmaceutical University	1550	0.58	11157	80.26	216
92	Hangzhou Normal University	1050	1.01	11147	80.38	142
93	Shanghai Institutes for Biological Sciences	744	0.97	10995	90.86	162
94	Anhui University	1199	0.92	10843	73.89	109
95	Jiangsu Normal University	1194	0.86	10500	74.71	104
96	Changzhou University	1304	0.99	9698	74.92	146
97	Huaqiao University	764	1.18	9607	83.38	60
98	Huazhong Agricultural University	820	0.99	9499	80.73	104
99	South Central University for Nationalities	743	1.16	9275	81.83	90
100	Liaoning Normal University	1137	0.6	9068	79.6	59
101	Qingdao University	846	0.98	8728	78.72	222
102	Renmin University of China	623	1.23	8698	83.47	112
103	Yunnan University	991	0.7	8273	77.7	98
104	Capital Normal University	1057	0.83	8095	76.63	83
105	Shantou University	434	1.12	7898	87.79	71
106	Second Military Medical University	925	0.65	7763	82.7	97
107	Tianjin Polytechnic University	1150	0.72	7706	74	115
108	Taiyuan University of Technology	1360	0.66	7566	71.76	170
109	Hebei Normal University	805	0.72	7492	79.01	74
110	Liaoning University	880	0.69	7358	80.8	83
111	Luoyang Normal University	1089	0.56	7229	61.98	48
112	Northwest A&F University -	1002	0.77	7191	75.65	213

	China					
113	Fujian Normal University	939	0.78	6980	74.97	91
114	Guizhou University	925	0.74	6950	76.22	176
115	Northeast Forestry University - China	777	0.84	6816	78.76	128
116	Wenzhou Medical University	486	1.22	6757	75.31	74
117	University of Electronic Science & Technology of China	986	0.75	6679	73.43	221
118	Xinjiang University	911	0.65	6611	74.97	81

我校化学学科共有 9 篇高被引论文，如图-8 所示：

1 **SYNTHESIS OF FUNCTIONALIZED 3D HIERARCHICAL POROUS CARBON FOR HIGH-PERFORMANCE SUPERCAPACITORS**
By: QIE, L; CHEN, WM; XU, HH; et.al
Source: ENERGY ENVIRON SCI 6 (8): 2497-2504 AUG 2013
Research Fields: CHEMISTRY
Times Cited: 215

2 **GENERALIZED FABRICATION OF NANOPOROUS METALS (AU, PD, PT, AG, AND CU) THROUGH CHEMICAL DEALLOYING**
By: ZHANG, ZH; WANG, Y; QI, Z; et.al
Source: J PHYS CHEM C 113 (29): 12629-12636 JUL 23 2009
Research Fields: CHEMISTRY
Times Cited: 167

3 **HIGH-PERFORMANCE BI-FUNCTIONAL ELECTROCATALYSTS OF 3D CRUMPLED GRAPHENE-COBALT OXIDE NANOHYBRIDS FOR OXYGEN REDUCTION AND EVOLUTION REACTIONS**
By: MAO, S; WEN, ZH; HUANG, TZ; et.al
Source: ENERGY ENVIRON SCI 7 (2): 609-616 FEB 2014
Research Fields: CHEMISTRY
Times Cited: 143

4 **PAPER-BASED CHEMILUMINESCENCE ELISA: LAB-ON-PAPER BASED ON CHITOSAN MODIFIED PAPER DEVICE AND WAX-SCREEN-PRINTING**
By: WANG, SM; GE, L; SONG, XR; et.al
Source: BIOSENS BIOELECTRON 31 (1): 212-218 JAN 15 2012
Research Fields: CHEMISTRY
Times Cited: 122
Research Front

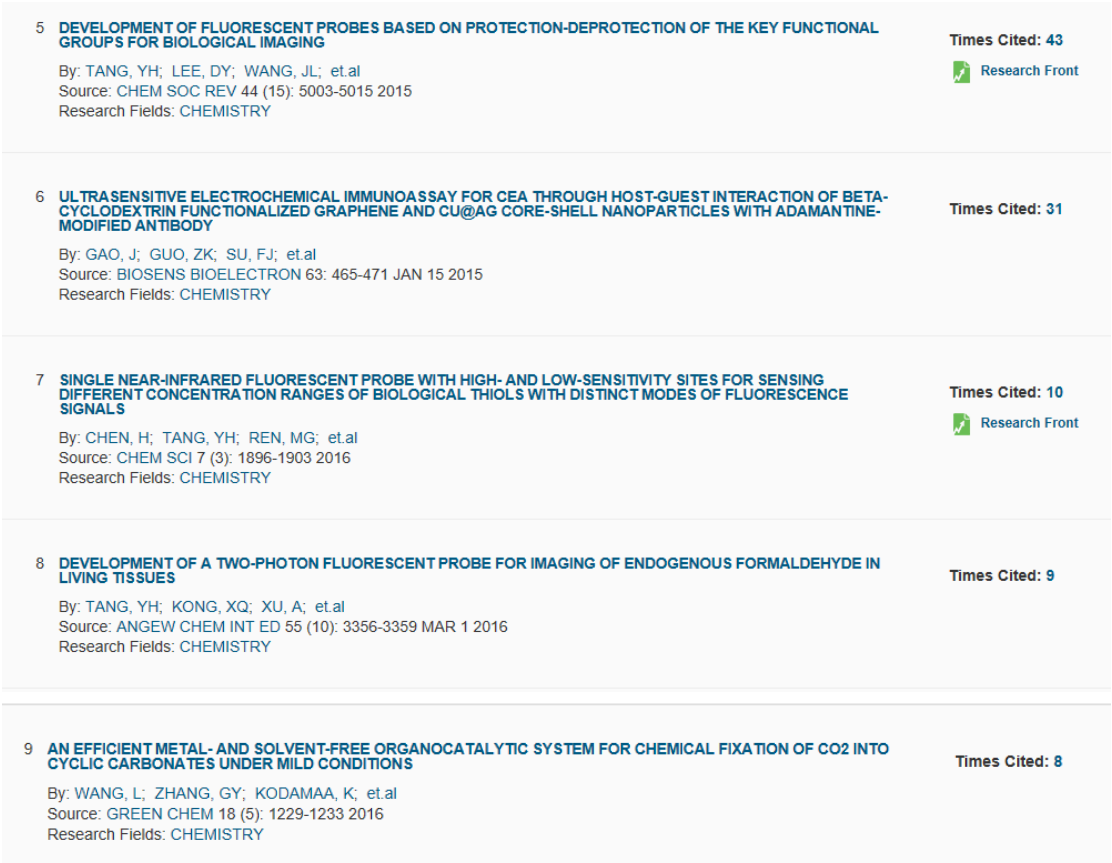

图-8 济南大学化学学科高被引论文

详细记录：

1、被引频次 215 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

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

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

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

文献信息

文献类型:Article

语种:English

入藏号: WOS:000321983800023

ISSN: 1754-5692

eISSN: 1754-5706

2、被引频次 167 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

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[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 143（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]

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ENERGY & ENVIRONMENTAL SCIENCE

卷: 7 期: 2 页: 609-616

DOI: 10.1039/c3ee42696c

出版年: FEB 2014

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[2] Univ Jinan, Key Lab Chem Sensing & Anal Univ Shandong, Sch Chem & Chem Engn, 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 122 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

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DOI: 10.1016/j.bios.2011.10.019

出版年: JAN 15 2012

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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 43（济南大学是第 1 作者和通讯作者单位，生物科学与技术学院）

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

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

CHEMICAL SOCIETY REVIEWS

卷: 44 期: 15 页: 5003-5015

DOI: 10.1039/c5cs00103j

出版年: 2015

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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 31（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 adamantine-modified antibody

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

BIOSENSORS & BIOELECTRONICS

卷: 63　页: 465-471

DOI: 10.1016/j.bios.2014.07.081

出版年: JAN 15 2015

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

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

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文献类型:Article

语种:English

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PubMed ID: 25129508

ISSN: 0956-5663

eISSN: 1873-4235

7、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）

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

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

CHEMICAL SCIENCE

卷: 7

期: 3

页: 1896-1903

DOI: 10.1039/c5sc03591k

出版年: 2016

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文献类型:Article

语种:English

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eISSN: 2041-6539

8、被引频次 9（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, Weiying)[1]

ANGEWANDTE CHEMIE-INTERNATIONAL EDITION

卷: 55

期: 10

页: 3356-3359

DOI: 10.1002/anie.201510373

出版年: MAR 1 2016

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文献类型:Article

语种:English

入藏号: WOS:000371418200022

ISSN: 1433-7851

eISSN: 1521-3773

9、被引频次 8（济南大学是第 2 作者单位，化学化工学院）

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

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

GREEN CHEMISTRY

卷: 18

期: 5

页: 1229-1233

DOI: 10.1039/c5gc02697k

出版年: 2016

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文献类型:Article

语种:English

入藏号:WOS:000371608100008

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eISSN: 1463-9270

7.2.2 临床医学学科现状分析

临床医学 2017 年 01 月国内高校 ESI 排名如表-9 所示。可以看出排在前 10 位的高校分别是上海交通大学、中山大学、复旦大学、北京大学、浙江大学、首都医科大学、四川大学、南京医科大学、华中科技大学、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 70 位的沈阳药科大学，其临床医学学科都进入了 ESI 的前 1%行列。我校的临床医学学科按照 ESI 总被引频次在国内高校排名第 40 位，省内高校第 3 位。

表-9 ESI 临床医学国内高校排名

排名	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	Shanghai Jiao Tong University	13960	1.13	146616	77.42	3215
2	Sun Yat Sen University	10595	1.12	111209	78.62	2334
3	Fudan University	10439	1.17	104814	77.65	2557
4	Peking University	9148	1.13	101697	77.83	2739
5	Zhejiang University	8077	0.91	66461	74.25	1506
6	Capital Medical University	8201	0.89	63952	72.08	2055
7	Sichuan University	7617	0.81	56556	75.02	1393
8	Nanjing Medical University	6116	1.1	52458	78.09	1122
9	Huazhong University of Science & Technology	6674	0.86	51992	77.08	1551
10	Second Military Medical University	4837	1.08	51104	79.33	847
11	Shandong University	6338	0.86	46200	73.38	1245
12	Fourth Military Medical University	4304	1.04	44548	82.27	929
13	Central South University	5149	1.06	42127	72.77	1066
14	China Medical University	4697	0.84	34858	75.96	887
15	Nanjing University	3422	1.16	32732	77.7	664
16	Third Military Medical University	3500	0.94	30886	77.8	638
17	Southern Medical University - China	3842	1.01	30174	72.98	696
18	Harbin Medical University	3486	1	30113	77.28	805
19	Wuhan University	3785	0.97	28183	76.12	734
20	Tianjin Medical University	3288	1.02	27458	73.87	790
21	Tongji University	3421	1.07	26584	73.55	770
22	Suzhou University	3211	0.97	24266	73.47	630
23	Xi'an Jiaotong University	3291	0.88	23889	72.84	727
24	Chongqing Medical University	2957	1.11	22828	73.52	592
25	Wenzhou Medical University	2794	0.82	18178	69.94	738
26	Zhengzhou University	3090	0.84	18086	68.22	621
27	Jilin University	2949	0.84	17231	66.73	751
28	Anhui Medical University	2256	0.91	16200	73.49	454
29	Guangzhou Medical University	2118	0.97	15115	72.43	384
30	Southeast University - China	1877	1.05	14617	72.67	403
31	Guangxi Medical University	1716	0.93	12427	73.48	249
32	Fujian Medical University	1849	0.76	11237	68.69	293
33	Tsinghua University	1117	1.04	10953	75.83	331

34	Hebei Medical University	1621	0.81	10612	70.02	246
35	Xiamen University	1286	0.97	9641	71.85	339
36	Dalian Medical University	1328	0.88	9554	69.5	299
37	Jinan University	1317	0.79	9537	72.36	246
38	Shantou University	893	1.09	9021	75.03	185
39	Qingdao University	1632	0.73	8866	67.1	213
40	University of Jinan	1137	0.88	8371	72.3	129
41	Nantong University	1280	0.85	7649	70.94	146
42	Nanjing University of Chinese Medicine	803	1.28	7463	69.49	175
43	Nankai University	598	1.05	6447	80.1	189
44	Lanzhou University	835	0.84	6326	73.41	191
45	Jiangsu University	892	0.93	6192	74.44	88
46	Nanchang University	1025	0.88	5760	67.51	170
47	Shanghai University of Traditional Chinese Medicine	947	0.81	5386	70.43	242
48	University of Science & Technology of China	345	1.4	5023	82.61	152
49	Guangdong Medical University	730	0.97	4768	74.38	137
50	Kunming Medical University	828	0.85	4617	68	209
51	Shanxi Medical University	621	0.85	4318	72.46	163
52	China Pharmaceutical University	428	1.09	4061	77.57	116
53	Xinjiang Medical University	835	0.8	4040	63.23	146
54	Xuzhou Medical College	767	0.79	3809	67.93	95
55	University Town of Shenzhen	440	1.05	3643	72.95	171
56	East China Normal University	306	1.16	3559	77.78	139
57	Ningbo University	388	1.18	3548	76.55	80
58	University of South China	444	1.03	3500	74.77	91
59	Guangzhou University of Chinese Medicine	770	0.66	3400	67.4	165
60	Beijing University of Chinese Medicine	795	0.53	3330	64.78	229
61	Yanbian University	338	0.87	2890	78.11	232
62	University of Chinese Academy of Sciences	333	1.55	2790	76.58	94
63	Southwest Medical University	389	0.96	2666	67.61	76
64	Yangzhou University	445	0.99	2528	71.24	75
65	Ningxia Medical University	439	0.82	2522	70.39	82
66	Shanghai University	216	0.95	2449	76.39	61
67	Shenzhen University	391	0.96	2441	64.96	104
68	Beijing Normal University	236	0.85	2326	77.54	93
69	Hunan Normal University	293	0.75	2302	77.47	128
70	Shenyang Pharmaceutical	172	1.26	2218	77.91	45

	University					

我校临床医学共有 4 篇高被引论文，如图-9 所示：

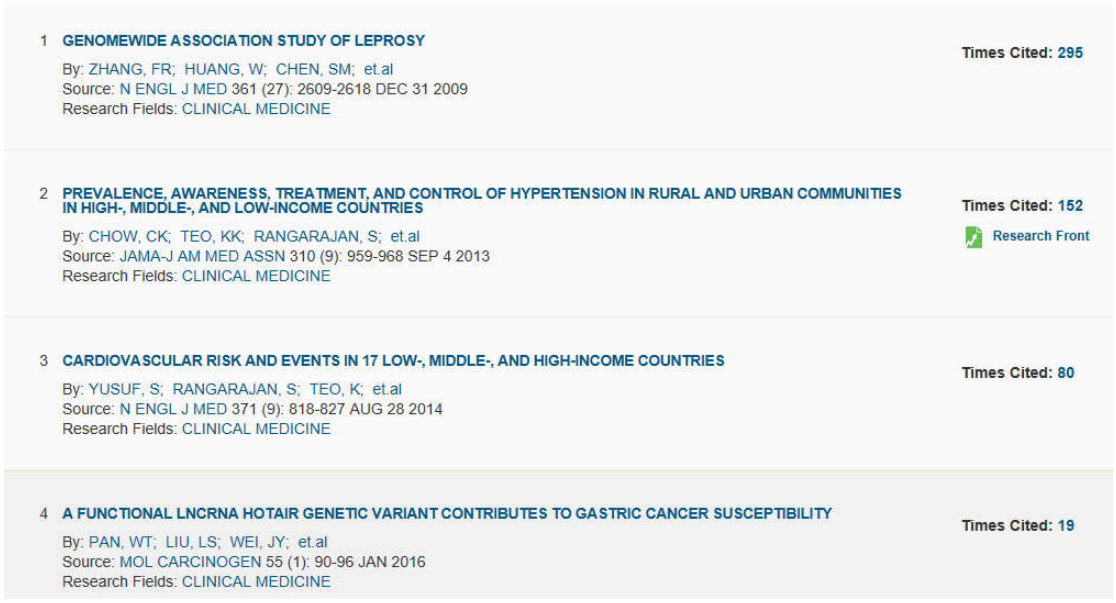

图-9 济南大学临床医学学科高被引论文

详细记录：

1、 被引频次 295（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

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DOI: 10.1056/NEJMoa0903753

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学科类别:General & Internal Medicine

Web of Science 类别:Medicine, General & Internal

文献信息

文献类型:Article

语种:English

入藏号: WOS:000273181300008

PubMed ID: 20018961

ISSN: 0028-4793

2、被引频次 152（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, Shofiqul)[1] ; Gupta, R (Gupta, Rajeev)[2] ; Avezum, A (Avezum, Alvaro)[3] ; Bahonar, A (Bahonar, Ahmad)[4] ; Chifamba, J (Chifamba, Jephat)[5] ; Dagenais, G (Dagenais, Gilles)[6] ; Diaz, R (Diaz, Rafael)[7] JAMA-JOURNAL OF THE AMERICAN MEDICAL ASSOCIATION

卷: 310 期: 9 页: 959-968

DOI: 10.1001/jama.2013.184182

出版年: SEP 4 2013

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研究方向:General & Internal Medicine

Web of Science 类别:Medicine, General & Internal

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入藏号: WOS:000323885700026

PubMed ID: 24002282

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3、被引频次 80（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

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DOI: 10.1056/NEJMoa1311890

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Web of Science 类别:Medicine, General & Internal

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PubMed ID: 25162888

ISSN: 0028-4793

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4、被引频次 19（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]

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研究方向:Biochemistry & Molecular Biology; Oncology

Web of Science 类别:Biochemistry & Molecular Biology; Oncology

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7.2.3 材料科学学科现状分析

材料科学 2017 年 01 月国内高校 ESI 排名如表-10 所示。可以看出排在前 10 位的高校分别是清华大学、上海交通大学、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

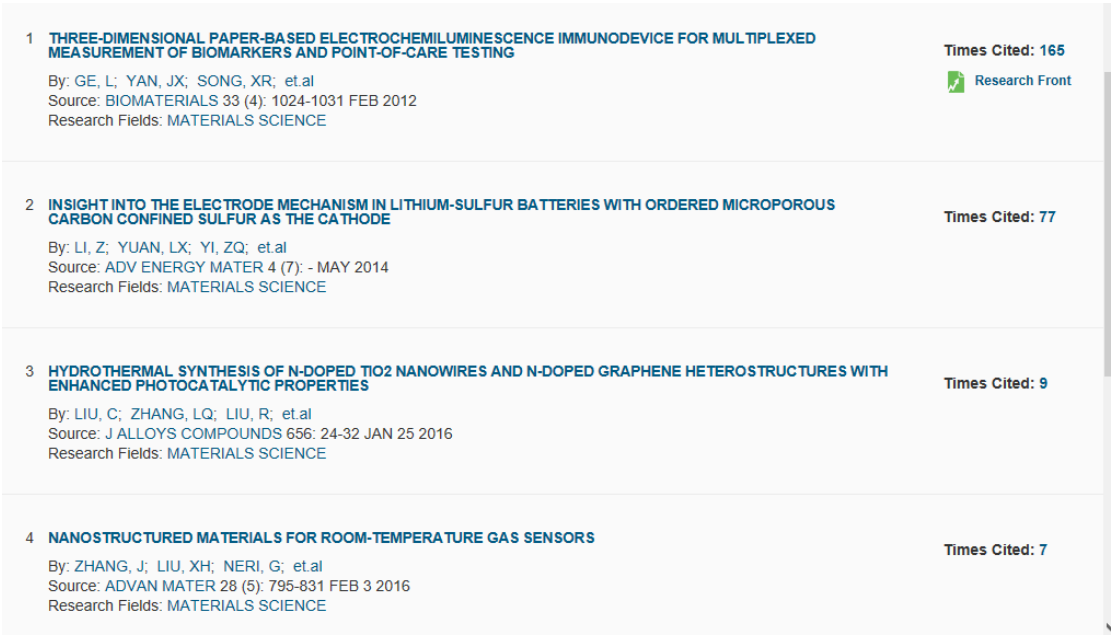
排名	机构名称	WoS 论文数	学科规范化的引文影响力	总被引频次	论文被引百分比	国际合作论文数
1	Tsinghua University	7613	1.37	109299	78.39	1529
2	Shanghai Jiao Tong University	6123	1.25	77393	82.02	1348
3	Zhejiang University	5146	1.34	71326	82.94	1089
4	Fudan University	2834	2.39	69000	87.37	688
5	Harbin Institute of Technology	7983	0.84	66721	77.56	1362
6	Jilin University	4275	1.29	55315	83.86	652
7	Peking University	3046	1.9	54196	84.08	705
8	University of Science & Technology of China	3268	1.77	51835	84.61	564
9	University of Chinese Academy of Sciences	3824	1.77	51616	79.03	420
10	Central South University	6894	0.7	45924	75.72	984
11	University of Science & Technology Beijing	6848	0.69	44126	71.88	1153
12	South China University of Technology	4198	1.27	43723	77.78	787
13	Tianjin University	3959	1.11	39463	77.04	676
14	Sichuan University	3947	1.06	38804	78.52	546
15	Nanjing University	2669	1.49	38397	83.36	479
16	Dalian University of Technology	4034	0.97	38152	79.05	830
17	Huazhong University of Science & Technology	3588	1.26	37715	79.24	612
18	Xi'an Jiaotong University	4336	0.93	37129	75.97	953
19	Suzhou University	2355	2.02	35244	80.25	633
20	Northwestern Polytechnical University	5553	0.72	35216	74.84	661
21	Shandong University	3446	1.09	35017	79.69	580
22	Wuhan University	2152	1.54	30884	80.34	419
23	Beihang University	3454	0.96	28625	74.93	588
24	Wuhan University of	3068	1.01	27394	71.71	723

	Technology					
25	Nankai University	1263	2.11	27348	86.3	227
26	Beijing University of Chemical Technology	1931	1.56	27113	83.79	332
27	Sun Yat Sen University	1662	1.78	26888	84.6	330
28	East China University of Science & Technology	1865	1.41	25388	82.95	404
29	Southeast University - China	2543	1.05	25225	76.25	541
30	Tongji University	2532	1.07	24217	78.24	597
31	Shanghai University	2676	0.91	22546	75.67	561
32	Lanzhou University	1633	1.34	22207	86.22	204
33	Northeastern University - China	4068	0.57	21422	69.54	906
34	Donghua University	2239	1.06	21064	76.15	528
35	Chongqing University	3236	0.85	20795	69.56	589
36	Xiamen University	1551	1.54	20792	79.95	451
37	Nanjing University of Aeronautics & Astronautics	2089	1.04	19882	75.63	320
38	Hunan University	2008	1.07	19494	75.9	321
39	Beijing Institute of Technology	1886	1.34	19031	75.61	367
40	Nanjing University of Technology	1842	1.15	16230	76.82	356
41	Harbin Engineering University	1155	1.42	15901	75.84	116
42	Fuzhou University	846	1.78	13842	79.31	121
43	Nanjing University of Science & Technology	1444	1.37	13077	76.45	315
44	Jiangsu University	1603	0.9	12122	72.3	174
45	Beijing University of Technology	1603	0.7	11800	70.99	269
46	East China Normal University	819	1.56	11799	81.81	160
47	Northeast Normal University - China	582	1.73	10669	89.86	40
48	University of Electronic Science & Technology of China	1680	0.84	10595	72.62	402
49	China University of Petroleum	1129	1.1	10253	71.66	233
50	Central China Normal	344	2.26	10078	87.21	48

	University					
51	Hefei University of Technology	1074	1.07	9775	76.35	179
52	Southwest Jiaotong University	1150	0.96	9689	76.87	293
53	University Town of Shenzhen	1046	1.34	9274	76.1	253
54	Zhengzhou University	1079	1.07	8547	76.18	187
55	Yanshan University	1568	0.71	8455	72.96	240
56	Xiangtan University	1030	0.85	8403	80.1	179
57	China University of Geosciences	1151	0.99	7487	71.85	202
58	Nanjing University of Posts & Telecommunications	385	2.45	7463	77.14	79
59	Shaanxi Normal University	780	1.06	7275	81.79	101
60	Taiyuan University of Technology	1537	0.72	7020	66.23	222
61	Zhejiang Sci-Tech University	726	1.04	6969	76.72	141
62	Beijing Jiaotong University	772	0.96	6896	74.61	155
63	Fourth Military Medical University	395	1.42	6454	83.8	76
64	Beijing Normal University	500	1.38	6259	80.6	74
65	Shanghai Normal University	375	1.55	6178	86.4	48
66	Qingdao University of Science & Technology	639	0.94	6148	79.81	93
67	Anhui University	663	1.22	5952	78.43	69
68	Zhejiang Normal University	504	1.46	5904	79.96	75
69	Hubei University	618	1.1	5892	78.16	156
70	Ocean University of China	519	1.14	5761	81.7	58
71	Zhejiang University of Technology	775	0.84	5759	70.71	141
72	Anhui University of Technology	674	1.02	5695	73.89	87
73	Southwest University - China	599	1.32	5573	77.3	98

74	University of Jinan	954	0.85	5474	70.96	128
75	National University of Defence Technology - China	931	0.71	5443	70.14	90
76	Kunming University of Science & Technology	1221	0.56	5405	66.91	148
77	Henan University	653	0.9	5268	81.01	75
78	Heilongjiang University	400	1.47	5239	78.75	29
79	Changzhou University	695	0.96	5227	70.79	123
80	Jinan University	589	1.21	5131	78.95	74
81	Guangxi University	890	0.67	5089	76.63	115
82	Wuhan University of Science & Technology	927	0.63	4880	64.94	120
83	China University of Mining & Technology	911	0.72	4566	67.51	152
84	Shenzhen University	853	0.79	4530	68.82	143
85	Hebei University of Technology	750	0.73	4507	71.33	97
86	Jiangnan University	861	0.67	4410	65.04	139
87	Shaanxi University of Science & Technology	968	0.65	4391	68.18	49
88	Nanchang University	680	0.85	4341	71.76	69

我校材料科学共有 4 篇高被引论文，如图-10 所示：



1 THREE-DIMENSIONAL PAPER-BASED ELECTROCHEMILUMINESCENCE IMMUNODEVICE FOR MULTIPLEXED MEASUREMENT OF BIOMARKERS AND POINT-OF-CARE TESTING
By: GE, L; YAN, JX; SONG, XR; et.al
Source: BIOMATERIALS 33 (4): 1024-1031 FEB 2012
Research Fields: MATERIALS SCIENCE
Times Cited: 165
Research Front

2 INSIGHT INTO THE ELECTRODE MECHANISM IN LITHIUM-SULFUR BATTERIES WITH ORDERED MICROPOROUS CARBON CONFINED SULFUR AS THE CATHODE
By: LI, Z; YUAN, LX; YI, ZQ; et.al
Source: ADV ENERGY MATER 4 (7): - MAY 2014
Research Fields: MATERIALS SCIENCE
Times Cited: 77

3 HYDROTHERMAL SYNTHESIS OF N-DOPED TIO2 NANOWIRES AND N-DOPED GRAPHENE HETEROSTRUCTURES WITH ENHANCED PHOTOCATALYTIC PROPERTIES
By: LIU, C; ZHANG, LQ; LIU, R; et.al
Source: J ALLOYS COMPOUNDS 656: 24-32 JAN 25 2016
Research Fields: MATERIALS SCIENCE
Times Cited: 9

4 NANOSTRUCTURED MATERIALS FOR ROOM-TEMPERATURE GAS SENSORS
By: ZHANG, J; LIU, XH; NERI, G; et.al
Source: ADVAN MATER 28 (5): 795-831 FEB 3 2016
Research Fields: MATERIALS SCIENCE
Times Cited: 7

图-10 济南大学材料科学高被引论文

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）

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, Shenguang)[3] ; Yu, JH (Yu, Jinghua)[1]

BIOMATERIALS

卷: 33　期: 4　页: 1024-1031

DOI: 10.1016/j.biomaterials.2011.10.065

出版年: FEB 2012

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研究方向:Engineering; Materials Science

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

文献信息

文献类型:Article

语种:English

入藏号: WOS:000298273400004

PubMed ID: 22074665

ISSN: 0142-9612

2、被引频次 77（济南大学是第 2 作者单位，化学化工学院）

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

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

查看 ResearcherID 和 ORCID

ADVANCED ENERGY MATERIALS

卷: 4　期: 7

文献号: 1301473

DOI: 10.1002/aenm.201301473

出版年: MAY 2014

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

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

文献信息

文献类型:Article

语种:English

入藏号: WOS:000336503800014

ISSN: 1614-6832

eISSN: 1614-6840

3、被引频次 9（济南大学是第 3 作者单位，材料科学与工程学院）

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

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

JOURNAL OF ALLOYS AND COMPOUNDS

卷: 656

页: 24-32

DOI: 10.1016/j.jallcom.2015.09.211

出版年: JAN 25 2016

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

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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 7（济南大学是第 2 作者单位，材料科学与工程学院）
Nanostructured Materials for Room-Temperature Gas Sensors
作者:Zhang, J (Zhang, Jun)[1,2] ; Liu, XH (Liu, Xianghong)[1,3] ; Neri, G (Neri, Giovanni)[4] ; Pinna, N (Pinna, Nicola)[5]
ADVANCED MATERIALS
卷: 28
期: 5
页: 795-831
DOI: 10.1002/adma.201503825
出版年: FEB 3 2016
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文献类型:Review
语种:English
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ISSN: 0935-9648
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7.2.4 工程学学科现状分析

工程学 2017 年 01 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	893	1.43	8632	77.27	236

	Technology					
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 12 篇高被引论文，如图-11 所示：

1	**FABRICATION OF NOVEL MAGNETIC CHITOSAN GRAFTED WITH GRAPHENE OXIDE TO ENHANCE ADSORPTION PROPERTIES FOR METHYL BLUE** By: FAN, LL; LUO, CN; LI, XJ; et.al Source: J HAZARD MATER 215: 272-279 MAY 15 2012 Research Fields: ENGINEERING	**Times Cited: 158**
2	**ADSORPTION OF PHOSPHATE FROM AQUEOUS SOLUTION BY HYDROXY-ALUMINUM, HYDROXY-IRON AND HYDROXY-IRON-ALUMINUM PILLARED BENTONITES** By: YAN, LG; XU, YY; YU, HQ; et.al Source: J HAZARD MATER 179 (1-3): 244-250 JUL 15 2010 Research Fields: ENGINEERING	**Times Cited: 93**
3	**HIGHLY EFFICIENT REMOVAL OF HEAVY METAL IONS BY AMINE-FUNCTIONALIZED MESOPOROUS FE3O4 NANOPARTICLES** By: XIN, X; WEI, Q; YANG, J; et.al Source: CHEM ENG J 184: 132-140 MAR 1 2012 Research Fields: ENGINEERING	**Times Cited: 86**
4	**NOVEL NANOCRYSTALLINE PDNI ALLOY CATALYST FOR METHANOL AND ETHANOL ELECTRO-OXIDATION IN ALKALINE MEDIA** By: QI, Z; GENG, HR; WANG, XG; et.al Source: J POWER SOURCES 196 (14): 5823-5828 SP. ISS. SI JUL 15 2011 Research Fields: ENGINEERING	**Times Cited: 81**
5	**NANOPOROUS PDCU ALLOY FOR FORMIC ACID ELECTRO-OXIDATION** By: XU, CX; LIU, YQ; WANG, JP; et.al Source: J POWER SOURCES 199: 124-131 FEB 1 2012 Research Fields: ENGINEERING	**Times Cited: 78** Research Front
6	**AG3PO4/GRAPHENE-OXIDE COMPOSITE WITH REMARKABLY ENHANCED VISIBLE-LIGHT-DRIVEN PHOTOCATALYTIC ACTIVITY TOWARD DYES IN WATER** By: CHEN, GD; SUN, M; WEI, Q; et.al Source: J HAZARD MATER 244: 86-93 JAN 15 2013 Research Fields: ENGINEERING	**Times Cited: 76**
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** By: GUO, XY; DU, B; WEI, Q; et.al Source: J HAZARD MATER 278: 211-220 AUG 15 2014 Research Fields: ENGINEERING	**Times Cited: 59**
8	**NANOPOROUS PTCO AND PTNI ALLOY RIBBONS FOR METHANOL ELECTROOXIDATION** By: XU, CX; HOU, JG; PANG, XH; et.al Source: INT J HYDROGEN ENERG 37 (14): 10489-10498 JUL 2012 Research Fields: ENGINEERING	**Times Cited: 56**

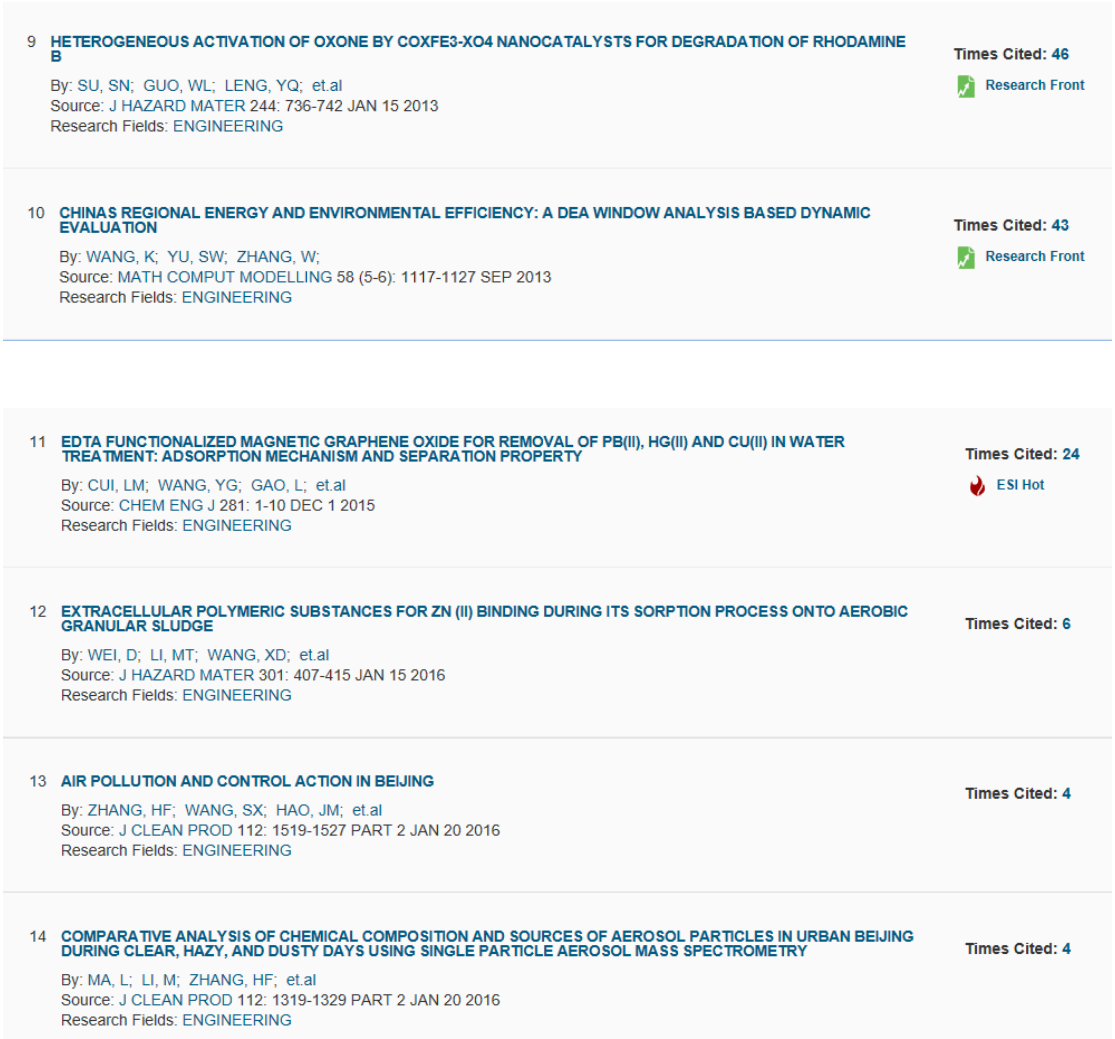

图-11 济南大学工程学高被引论文

详细记录：

1、被引频次 158（济南大学是第 1 作者和通讯作者单位，化学化工学院）

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

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

JOURNAL OF HAZARDOUS MATERIALS

卷: 215　页: 272-279

DOI: 10.1016/j.jhazmat.2012.02.068

出版年: MAY 15 2012

作者信息

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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 93（济南大学是第 1 作者和通讯作者单位，资源与环境学院）

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

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

JOURNAL OF HAZARDOUS MATERIALS

卷: 179

期: 1-3

页: 244-250

DOI: 10.1016/j.jhazmat.2010.02.086

出版年: JUL 15 2010

作者信息

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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 86（济南大学是第 1 作者和通讯作者单位，资源与环境学院）

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

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

CHEMICAL ENGINEERING JOURNAL

卷: 184　页: 132-140

DOI: 10.1016/j.cej.2012.01.016

出版年: MAR 1 2012

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研究方向:Engineering

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

文献信息

文献类型:Article

语种:English

入藏号: WOS:000301908100016

ISSN: 1385-8947

4、被引频次 81（济南大学是第 2 作者单位，材料科学与工程学院）

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

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

JOURNAL OF POWER SOURCES

卷: 196　期: 14　页: 5823-5828　特刊: SI

DOI: 10.1016/j.jpowsour.2011.02.083

出版年: JUL 15 2011

作者信息

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研究方向:Electrochemistry; Energy & Fuels

Web of Science 类别:Electrochemistry; Energy & Fuels

文献信息

文献类型:Article

语种:English

入藏号: WOS:000290837000005

ISSN: 0378-7753

5、被引频次 78（济南大学是第 1 作者和通讯作者单位，化学化工学院）

Nanoporous PdCu alloy for formic acid electro-oxidation

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

JOURNAL OF POWER SOURCES

卷: 199 页: 124-131

DOI: 10.1016/j.jpowsour.2011.10.075

出版年: FEB 1 2012

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Web of Science 类别:Electrochemistry; Energy & Fuels

文献信息

文献类型:Article

语种:English

入藏号: WOS:000298269700016

ISSN: 0378-7753

6、被引频次 76（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

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研究方向:Engineering; Environmental Sciences & Ecology

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

文献信息

文献类型:Article

语种:English

入藏号: WOS:000315001000011

PubMed ID: 23246944

ISSN: 0304-3894

7、被引频次 59（济南大学是第 1 作者和通讯作者单位，资源与环境学院）

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

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

JOURNAL OF HAZARDOUS MATERIALS

卷: 278　页: 211-220

DOI: 10.1016/j.jhazmat.2014.05.075

出版年: AUG 15 2014

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

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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 46（济南大学是第 1 作者和通讯作者单位，资源与环境学院）

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

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

JOURNAL OF HAZARDOUS MATERIALS

卷: 244　页: 736-742

DOI: 10.1016/j.jhazmat.2012.11.005

出版年: JAN 15 2013

作者信息

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基金资助致谢

研究方向:Engineering; Environmental Sciences & Ecology

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

文献信息

文献类型:Article

语种:English

入藏号: WOS:000315001000086

PubMed ID: 23195597

ISSN: 0304-3894

10、被引频次 43（济南大学是通讯作者单位，但是非第 1 作者单位，商学院）

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

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

MATHEMATICAL AND COMPUTER MODELLING

卷: 58 期: 5-6 页: 1117-1127

DOI: 10.1016/j.mcm.2011.11.067

出版年: SEP 2013

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研究方向:Computer Science; Mathematics

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

文献信息

文献类型:Article

语种:English

入藏号: WOS:000321700400024

ISSN: 0895-7177

eISSN: 1872-9479

11、被引频次 24（济南大学是第 1 作者和通讯作者单位，资源与环境学院）

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

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

CHEMICAL ENGINEERING JOURNAL

卷: 281　页: 1-10

DOI: 10.1016/j.cej.2015.06.043

出版年: DEC 1 2015

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研究方向:Engineering

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

文献信息

文献类型:Article

语种:English

入藏号: WOS:000362308200001

ISSN: 1385-8947

eISSN: 1873-3212

12、被引频次 6（济南大学是第 1 作者和通讯作者单位，资源与环境学院）

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

作者:Wei, D (Wei, Dong)[1,3] ; Li, MT (Li, Mengting)[1] ; Wang, XD (Wang, Xiaodong)[1,3] ; Han, F (Han, Fei)[1] ; Li, LS (Li, Lusheng)[1] ; Guo, J (Guo, Jie)[1] ; Ai, LJ (Ai, Lijie)[1] ; Fang, LL (Fang, Lulu)[1] ; Liu, L (Liu, Ling)[1] ; Du, B (Du, Bin)[1] 更多内容

JOURNAL OF HAZARDOUS MATERIALS

卷: 301

页: 407-415

DOI: 10.1016/j.jhazmat.2015.09.018

出版年: JAN 15 2016

作者信息

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文献信息

文献类型:Article

语种:English

入藏号:WOS:000367407200044

PubMed ID: 26410269

ISSN: 0304-3894

eISSN: 1873-3336

13、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

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文献信息

文献类型:Review

语种:English

入藏号: WOS:000368206800026

ISSN: 0959-6526

eISSN: 1879-1786

14、Comparative analysis of chemical composition and sources of aerosol particles in urban Beijing during clear, hazy, and dusty days using single particle aerosol mass spectrometry（不是济南大学的文章）

作者:Ma, L (Ma, Li)[1] ; Li, M (Li, Mei)[1] ; Zhang, HF (Zhang, Hefeng)[2] ; Li, L (Li, Lei)[1] ; Huang, ZX (Huang, Zhengxu)[1] ; Gao, W (Gao, Wei)[1] ; Chen, DH (Chen, Duohong)[3] ; Fu, Z (Fu, Zhong)[4] ; Nian, FQ (Nian, Huiqing)[5] ; Zou, LL (Zou, Lilin)[5]

JOURNAL OF CLEANER PRODUCTION

卷: 112

页: 1319-1329

子辑: 2

DOI: 10.1016/j.jclepro.2015.04.054
出版年: JAN 20 2016
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7.3 济南大学未进入前 1%学科学科分析

7.3.1 物理学学科现状分析

物理学 2017 年 01 月国内高校 ESI 排名如表-12 所示。可以看出排在前 10 位的高校分别是清华大学、中国科学技术大学、北京大学、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 &	2321	0.74	16376	75.14	323

	Telecommunications					
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 & Technology	822	1.16	9111	82.12	195
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：

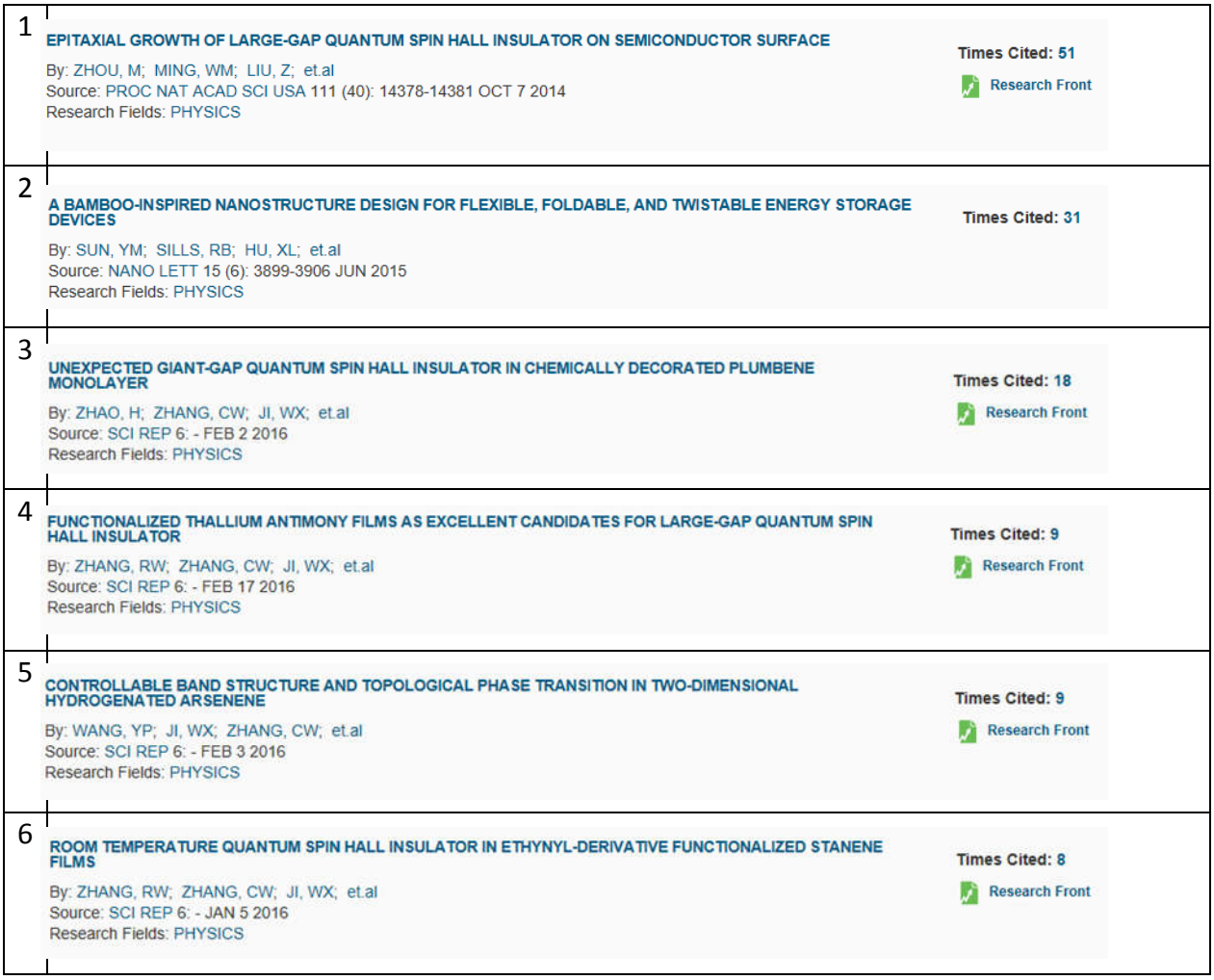

图-12 济南大学物理学高被引论文

详细记录：

1、被引频次 51（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

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DOI: 10.1073/pnas.1409701111

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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

入藏号: WOS:000342633900032

PubMed ID: 25246584

ISSN: 0027-8424

2、被引频次 31（济南大学是第 7 作者单位，化学化工学院）

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

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

NANO LETTERS

卷: 15 期: 6 页: 3899-3906

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3、被引频次 18（济南大学是第 1 作者和通讯作者单位，物理科学与技术学院）

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

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

SCIENTIFIC REPORTS

卷: 6 文献号: 20152

DOI: 10.1038/srep20152

出版年: FEB 2 2016

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文献类型:Article

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PubMed ID: 26833133

ISSN: 2045-2322

4、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）

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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卷: 6
DOI: 10.1038/srep21351
出版年: FEB 17 2016
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文献信息
文献类型:Article
语种:English
入藏号: WOS:000370317900001
PubMed ID: 26882865
ISSN: 2045-2322

5、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）

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]
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语种:English
入藏号: WOS:000369787900001
PubMed ID: 26839209
ISSN: 2045-2322

6、被引频次 8（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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7.3.2 生物和生物化学学科现状分析

生物和生物化学 2016 年 12 月国内高校 ESI 排名如表-13 所示。可以看出排在前 10 位的高校分别是上海交通大学、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，其生物和生物化学学科进入了 ESI 的前 1%行列。我校的生物和生物化学按照 ESI 总被引频次在国内高校排名第 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	学科规范	被引频次	论文被引	国际合作论文

		论文数	化的引文影响力		百分比	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

我校生物和生物化学共有 4 篇高被引论文，如图-13 所示：

1	SIGNIFICANCE OF SERUM MICRORNAS IN PRE-DIABETES AND NEWLY DIAGNOSED TYPE 2 DIABETES: A CLINICAL STUDY By: KONG, L; ZHU, JJ; HAN, WX; et.al Source: ACTA DIABETOL 48 (1): 61-69 MAR 2011 Research Fields: BIOLOGY & BIOCHEMISTRY	Times Cited: 134
2	HIGHLY SELECTIVE ADSORPTION OF LEAD IONS BY WATER-DISPERSIBLE MAGNETIC CHITOSAN/GRAPHENE OXIDE COMPOSITES By: FAN, LL; LUO, CN; SUN, M; et.al Source: COLLOID SURFACE B 103: 523-529 MAR 1 2013 Research Fields: BIOLOGY & BIOCHEMISTRY	Times Cited: 90 Research Front
3	ADSORBENT FOR CHROMIUM REMOVAL BASED ON GRAPHENE OXIDE FUNCTIONALIZED WITH MAGNETIC CYCLODEXTRIN-CHITOSAN By: LI, LL; FAN, LL; SUN, M; et.al Source: COLLOID SURFACE B 107: 76-83 JUL 1 2013 Research Fields: BIOLOGY & BIOCHEMISTRY	Times Cited: 75
4	SILENCING OF LONG NONCODING RNA MALAT1 BY MIR-101 AND MIR-217 INHIBITS PROLIFERATION, MIGRATION, AND INVASION OF ESOPHAGEAL SQUAMOUS CELL CARCINOMA CELLS By: WANG, XY; LI, M; WANG, ZQ; et.al Source: J BIOL CHEM 290 (7): 3925-3935 FEB 13 2015 Research Fields: BIOLOGY & BIOCHEMISTRY	Times Cited: 48 Research Front

图-13 济南大学生物与生物化学高被引论文

详细记录：

1、被引频次 134（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

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摘要

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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 90（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

查看期刊信息

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电子邮件地址:chm_luocn@ujn.edu.cn

研究方向:Biophysics; Chemistry; Materials Science

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

文献信息

文献类型:Article

语种:English

入藏号: WOS:000315127000069

PubMed ID: 23261576

ISSN: 0927-7765

eISSN: 1873-4367

Biology & Biochemistry

3、引用频次 75（济南大学是第 1 作者和通讯作者单位，化学化工学院）

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

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

COLLOIDS AND SURFACES B-BIOINTERFACES

卷: 107　页: 76-83

DOI: 10.1016/j.colsurfb.2013.01.074

出版年: JUL 1 2013

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研究方向:Biophysics; Chemistry; Materials Science

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

文献信息

文献类型:Article

语种:English

入藏号: WOS:000318141900010

PubMed ID: 23466545

ISSN: 0927-7765

4、被引频次 48（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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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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eISSN: 1083-351X

7.3.3 数学学科现状分析

数学 2017 年 01 月国内高校 ESI 排名如表-14 所示。可以看出排在前 10 位的高校分别是北京大学、复旦大学、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。

表-14 ESI 数学国内高校排名

排名	机构名称	Web of Science 论文数	学科规范化的引文影响力	被引频次	论文被引百分比	国际合作论文数
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	Jiaxing 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

我校数学共有 2 篇高被引论文，如图-14 所示：

图-14 济南大学数学高被引论文

详细记录：

1、被引频次 47（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

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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

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