2016 年 11 月份更新

济南大学 ESI 学科分析报告

2006 年 1 月 1 日-2016 年 8 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 2016 年 11 月 11 日更新的内容。）

1 基础数据来源和统计方法

1.1 数据来源

报告数据主要来源于 Science Citation Index Expanded（科学引文索引，简称 SCIE）、Essential Science Indicators（基础科学指标，简称 ESI）等数据库，利用 InCites 数据库获取 ESI 数据库 22 个学科分类体系下 19000 多种 web of science 期刊，择取济南大学 2006-2016 年的 ESI 学科高被引论文进行统计分析，从而计算归纳出我校各学院及院系师生对相关 ESI 学科的贡献度。

1.2 相关介绍

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

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

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

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

济南大学进入 ESI 前 1%学科的有 4 个 ,分别是化学、临床医学、材料科学、工程学；未进入前 1%学科的有 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 2016 年 11 月 15 日的统计数据中（2016 年 11 月份更新数据），山东省共有 10 所高校共计 16 个学科进入了 ESI 全球前 1% 具体情况如表-1 所示。

表-1 2016 年 11 月山东省 ESI 学科概况

高校名称	ESI 学科数量	高被引论文数量	热点论文数量
山东大学	15	282	13
中国海洋大学	9	76	1
中国石油大学	4	72	1
济南大学	4	39	1
青岛大学	3	60	4
青岛科技大学	3	27	1
山东农业大学	2	18	1
山东师范大学	1	17	0
聊城大学	1	14	0
曲阜师范大学	1	36	0

2.2 山东省 ESI 学科全球排名情况

在 2016 年 11 月 15 日的统计数据中（2016 年 11 月份更新数据），山东省共有 10 所高校共计 16 个学科进入了 ESI 全球前 1%，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 2016 年 11 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
农业科学	698	470					315			
生物及生物化学	323	780								
化学	104	754	490	431	1014	654		842	830	
临床医学	511				1519	1560				
计算机科学										
经济学与商学										
工程学	183	773	323	1132	631	1186				797
环境学及生态学	621	486								
地学		255	457							
免疫学	565									
材料科学	95	606	380	582		667				
数学	93									
微生物学										
分子生物学与遗传学	610									
综合学科										
神经科学与行为科学	594									
药理学与毒理学	179	651								
物理学	220									
植物与动物科学	747	303					367			
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-今，科研高产出的学科分布在化学、临床医学、材料科学、物理学、工程学和生物学与生物化学等学科，如图-1 所示。（数据来源于 Incites）

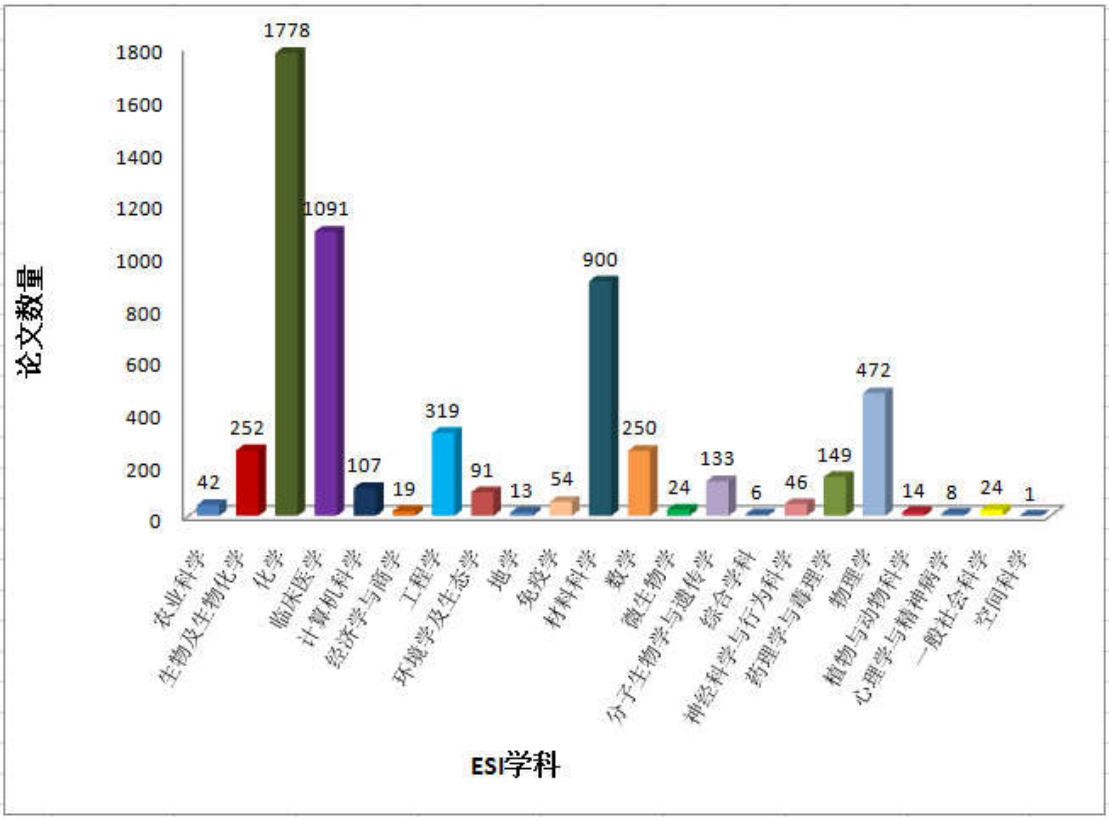

图-1 济南大学各学科的科研产出(2006-今)

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

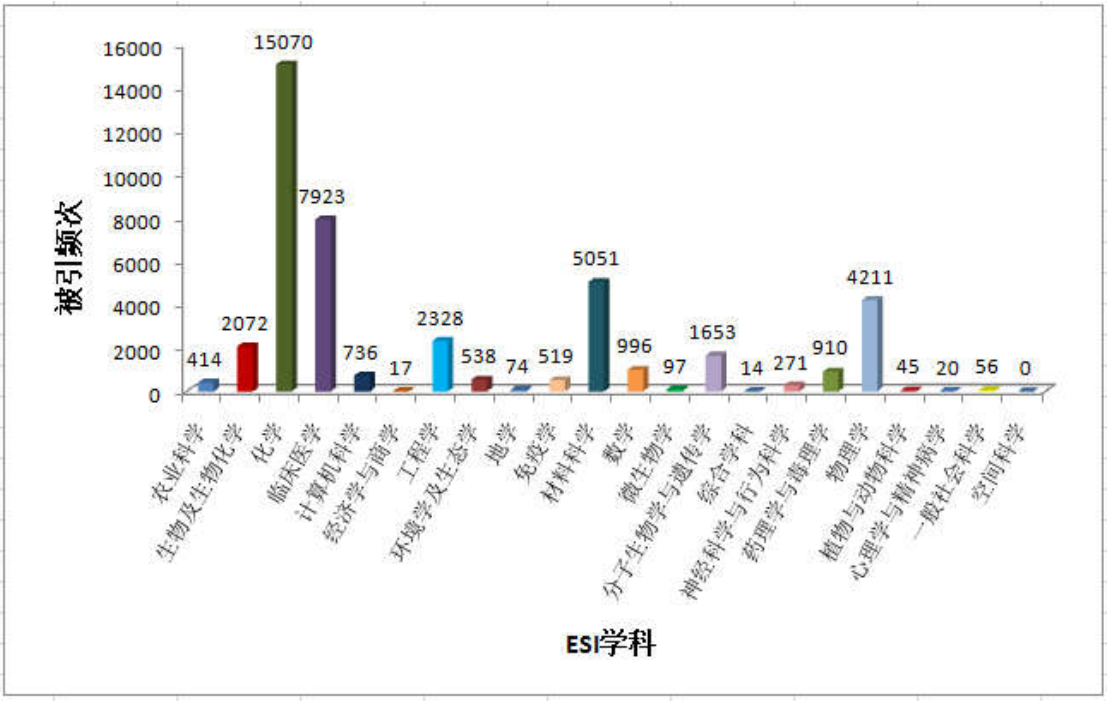

图-2 济南大学各学科论文的总被引频次(2006-今)

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。

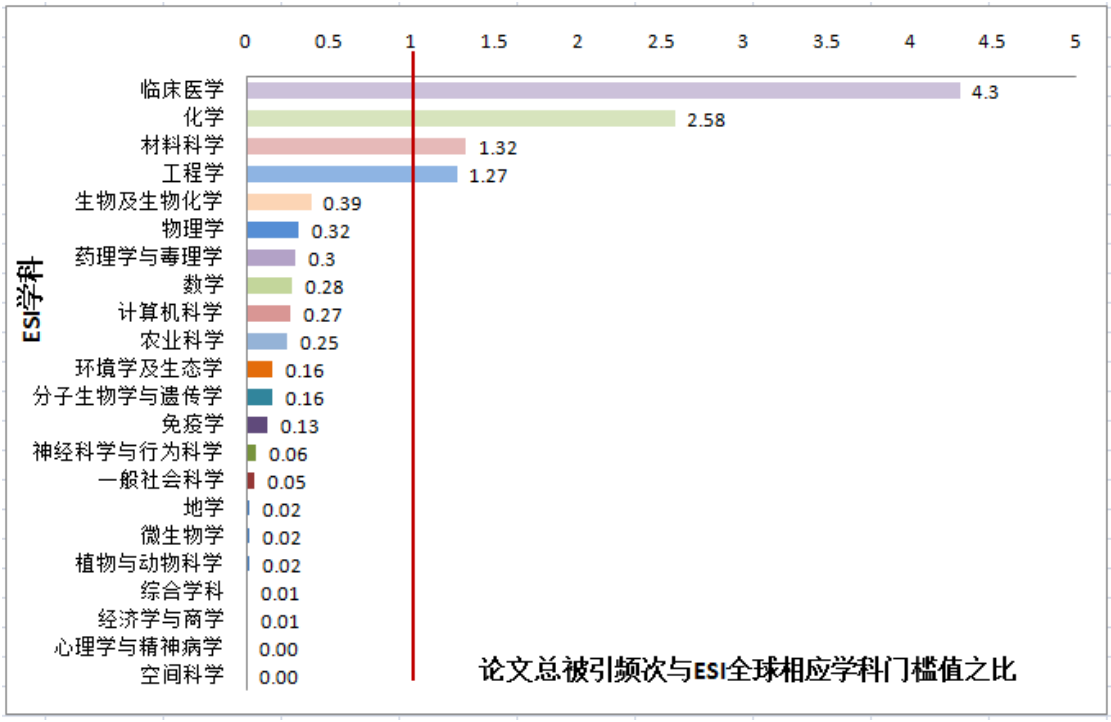

图-3 济南大学 ESI 学科趋势预测

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 ESI2016 年 11 月 15 日（2016 年 11 月份更新数据）统计结果，我校共有 39 篇论文成为高频被引论文（包含医学与生命科学学院及附属医院）。他们分布在化学、临床医学、材料科学、工程学、物理学、生物学与生物化学、数学、农学这 8 个学科中。其中被引频次最高的是我校医学与生命科学学院 ZHANG Furen 老师于 2009 年发表在 *NEW ENGLAND JOURNAL OF*

MEDICINE 上的论文“Genomewide Association Study of Leprosy”，截止至今在 Web of Science 中总被引用 289 次。

6 济南大学 ESI 高被引论文总体情况

截至到 2016 年 11 月 15 号（2016 年 11 月份更新数据），我校高被引论文共 39 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	1,765	14,440	8.18	7
2	CLINICAL MEDICINE	1,090	7,739	7.10	4
3	MATERIALS SCIENCE	880	4,668	5.30	4
4	ENGINEERING	315	2,092	6.64	12
0	ALL FIELDS	5,748	40,778	7.09	39

图-4 济南大学高被引论文

6.1 高被引论文学科分布

我校 39 篇高被引论文中，进入前 1%学科的共有 27 篇，分别是 Chemistry（化学）7 篇，Clinical Medicine（临床医学）4 篇，Materials Science（材料科学）4 篇，Engineering（工程）12 篇；其他未进入前 1%学科的高被引论文共 12 篇，分别是 Physics（物理）5 篇，Biology & Biochemistry（生物和生物化学）4 篇，Mathematics（数学）2 篇，Agriculture Sciences（农业科学）1 篇，如图-5 所示。

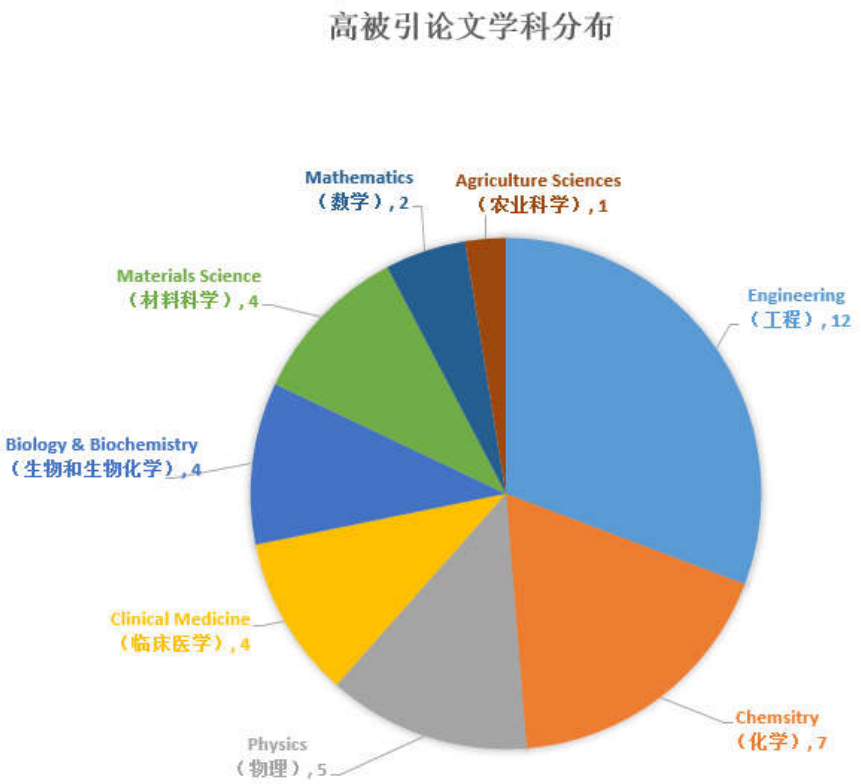

图-5 高被引论文学科分布

6.2 高被引论文学院分布

总起来说，39 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 8 篇、山东省医学科学院 6 篇、材料科学与工程学院 4 篇、物理科学与技术学院 3 篇、数学科学学院 2 篇、生物科学与技术学院 1 篇、商学院 1 篇、其他 1 篇，如表-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	8
医学与生命科学学院	6

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

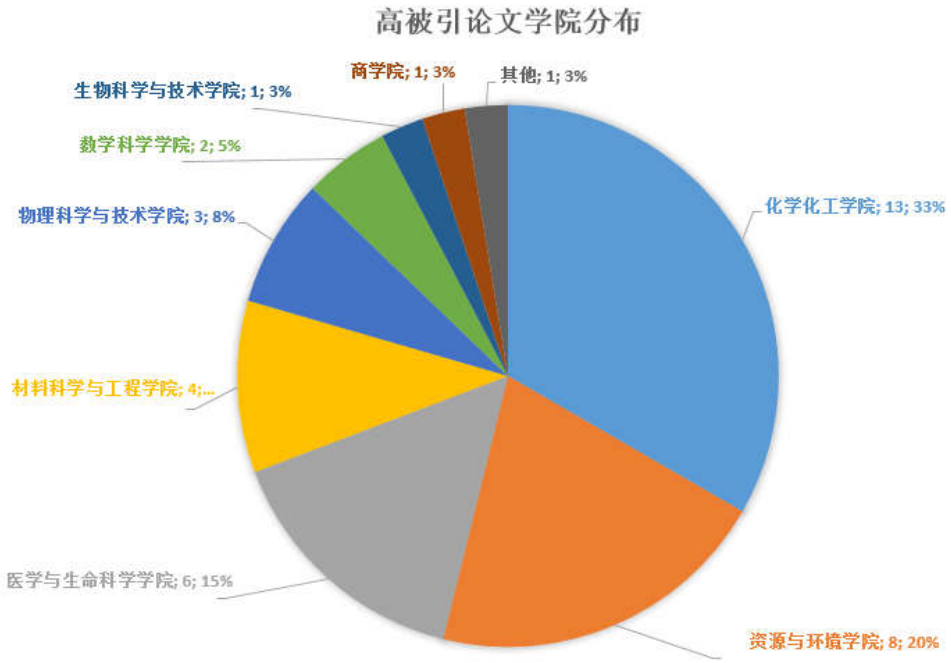

图-6 高被引论文学院分布

6.3 高被引论文学院贡献度

根据学科与学院的契合程度分析，化学、临床医学、物理以及工程、数学几个学科的高被引论文来源比较集中，主要来自于我校对应学院作者。材料科学的高被引论文 2 篇来自材料科学与工程学院，2 篇来自于化学化工学院。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	1		7					
医学与生命科学学院				4	2			
物理科学与技术学院							3	
材料科学与工程学院		2	1				1	
数学科学学院						2		
生物科学与技术学院	1							
商学院			1					
其他								1

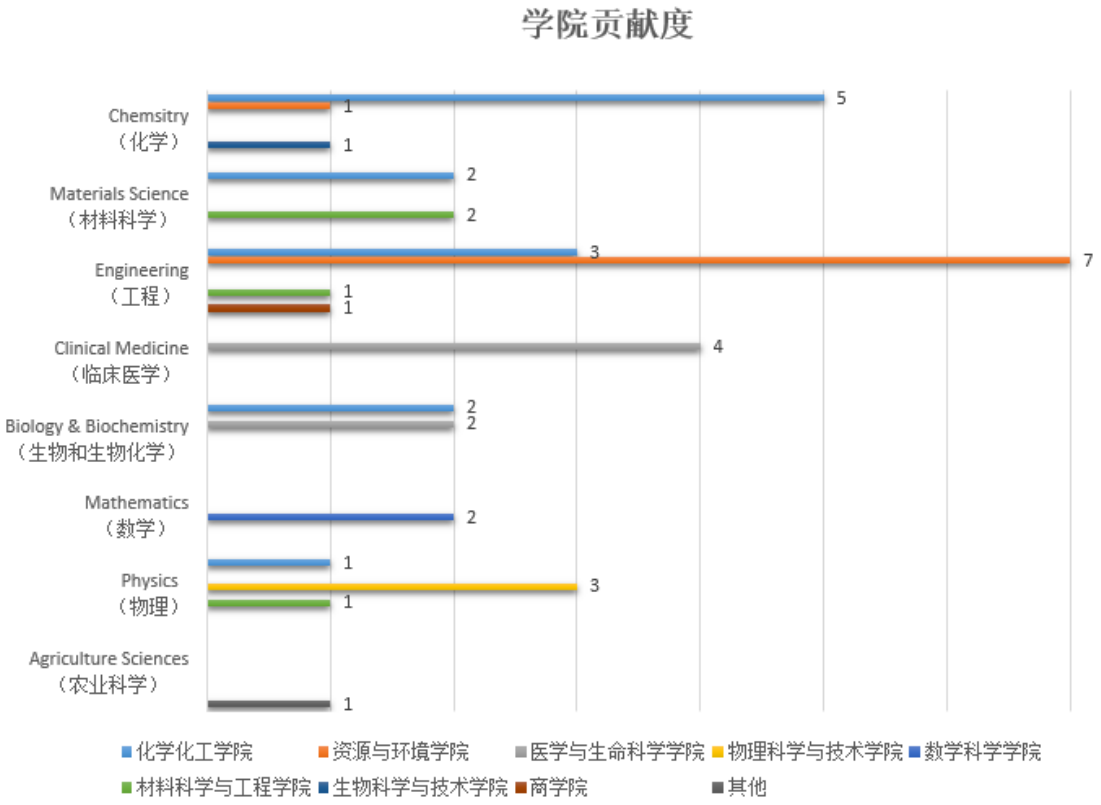

图-7 高被引论文学院贡献度

6.4 高被引论文作者情况统计

从通讯作者单位和第 1 作者单位均为济南大学角度统计，我校共有 22 篇高被引论文，来自 12 位作者，数量较多的是杜斌团队和罗川南团队，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	2
				Yan Liangguo	1
				Xin Xiaodong	1
				Guo Xiaoyao	1
				Wei Dong	1
		孙 蒙	1	ChenGuodong	1
		国伟林	1	Su Shengnan	1
物理科学与技术学院	2	张昌文	2	张昌文	1
				Zhao Hui	1
数学科学学院	1	孙书荣	1	Zhao Yige	1
生物科学与技术学院	1	林伟英	1	Tang Yonghe	1
材料科学与工程学院	1	吴海涛	1	吴海涛	1
医学与生命科学学院	1	张福仁	1	张福仁	1

6.5 高被引论文对比变化情况

对比我校 ESI 高被引论文 2016 年 5、7、9、11 月份更新数据，通讯作者单位和第 1 作者单位均为济南大学高被引论文中，全部保持高被引态势，另外新增 2 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	5 月份数据更新被引数据	7 月份数据更新被引数据	9 月份数据更新被引数据	11 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	142	142	154	159
	CHEMISTRY（化学）	PAPER-BASED CHEMILUMINESCENCE ELISA: LAB-ON-PAPER BASED ON CHITOSAN MODIFIED PAPER DEVICE AND WAX-SCREEN-PRINTING	BIOSENS BIOELECTRON 31 (1): 212-218 JAN 15 2012	2012		Wang Shoumei	98	104	108	114
	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	126	135	147	151
	BIOLOGY & BIOCHEMISTRY（生物和生物化学）	HIGHLY SELECTIVE ADSORPTION OF LEAD IONS BY WATER-DISPERSIBLE MAGNETIC CHITOSAN/GRAPHENE OXIDE COMPOSITES	COLLOID SURFACE B 103: 523-529 MAR 1 2013	2013		Fan Lulu	73	75	84	86
		ADSORBENT FOR CHROMIUM REMOVAL BASED ON GRAPHENE OXIDE FUNCTIONALIZED WITH MAGNETIC CYCLODEXTRIN-CHITOSAN	COLLOID SURFACE B 107: 76-83 JUL 1 2013	2013		Li Leilei		57	66	67
	ENGINEERING（工程）	NANOPOROUS PDCU ALLOY FOR FORMIC ACID ELECTRO-OXIDATION	J POWER SOURCES 199: 124-131 FEB 1 2012	2012	徐彩霞	徐彩霞	67	68	74	76
		NANOPOROUS PTCO AND PTNI ALLOY RIBBONS FOR METHANOL ELECTROOXIDATION	INT J HYDROGEN ENERG 37 (14): 10489-10498 JUL 2012	2012			47	48	52	53

		ULTRASENSITIVE ELECTROCHEMICAL IMMUNOASSAY FOR CEA THROUGH HOST-GUEST INTERACTION OF BETA-CYCLODEXTRIN FUNCTIONALIZED GRAPHENE AND CU@AG CORE-SHELL NANOPARTICLES WITH ADAMANTINE-MODIFIED ANTIBODY	BIOSENS BIOELECTRON 63: 465-471 JAN 15 2015	2015	魏琴	Gao jian	20	22	26	28
		ULTRASENSITIVE ELECTROCHEMICAL IMMUNOSENSOR FOR CARBOHYDRATE ANTIGEN 72-4 BASED ON DUAL SIGNAL AMPLIFICATION STRATEGY OF NANOPOROUS GOLD AND POLYANILINE-AU ASYMMETRIC MULTICOMPONENT NANOPARTICLES	BIOSENS BIOELECTRON 64: 51-56 FEB 15 2015	2015		Gao Jian	13			
	CHEMISTRY（化学）	AN ELECTROCHEMICAL IMMUNOSENSOR FOR ULTRASENSITIVE DETECTION OF CARBOHYDRATE ANTIGEN 199 BASED ON AU@CUXOS YOLK-SHELL NANOSTRUCTURES WITH POROUS SHELLS AS LABELS	BIOSENS BIOELECTRON 63: 39-46 JAN 15 2015	2015		Guo Aiping	13			
资源与环境学院	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 Liangguo	74	80	86	87
	ENGINEERING（工程）	HIGHLY EFFICIENT REMOVAL OF HEAVY METAL IONS BY AMINE-FUNCTIONALIZED MESOPOROUS FE3O4 NANOPARTICLES	CHEM ENG J 184: 132-140 MAR 1 2012	2012		Xin Xiaodong	63	69	77	81
	ENGINEERING（工程）	Synthesis of amino functionalized magnetic graphenes composite material and its application to remove Cr(VI), Pb(II), Hg(II), Cd(II) and Ni(II) from contaminated water	JOURNAL OF HAZARDOUS MATERIALS 卷: 278 页: 211-220	2014		Guo Xiaoyao	36	45	52	53
	CHEMISTRY（化学）	REMOVAL OF MERCURY AND METHYLENE BLUE FROM AQUEOUS SOLUTION BY XANTHATE FUNCTIONALIZED MAGNETIC GRAPHENE OXIDE: SORPTION KINETIC AND UPTAKE MECHANISM	J COLLOID INTERFACE SCI 439: 112-120 FEB 1 2015	2015		Cui Limei	13	16	20	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		8	15	16
		Extracellular polymeric substances for Zn	JOURNAL OF HAZARDOUS MATERIALS	2016		Wei Dong				

		(II) binding during its sorption process onto aerobic granular sludge	卷: 301 页: 407-415							4
	ENGINEERING（工程）	AG3PO4/GRAPHENE-OXIDE COMPOSITE WITH REMARKABLY ENHANCED VISIBLE-LIGHT-DRIVEN PHOTOCATALYTIC ACTIVITY TOWARD DYES IN WATER	J HAZARD MATER 244: 86-93 JAN 15 2013	2013	孙蒙	Chen Guodong	61	65	68	71
	ENGINEERING（工程）	HETEROGENEOUS ACTIVATION OF OXONE BY COXFE3-XO4 NANOCATALYSTS FOR DEGRADATION OF RHODAMINE B	J HAZARD MATER 244: 736-742 JAN 15 2013	2013	国伟林	Su Shengnan	31	33	37	40
物理科学与技术学院	PHYSICS（物理）	FIRST-PRINCIPLES STUDY OF FERROMAGNETISM IN TWO-DIMENSIONAL SILICENE WITH HYDROGENATION	J PHYS CHEM C 116 (6): 4163-4166 FEB 16 2012	2012	张昌文	张昌文	75	80	86	89
		UNEXPECTED GIANT-GAP QUANTUM SPIN HALL INSULATOR IN CHEMICALLY DECORATED PLUMBENE MONOLAYER	SCI REP 6: - FEB 2 2016	2016		Zhao Hui		8	10	12
		FUNCTIONALIZED THALLIUM ANTIMONY FILMS AS EXCELLENT CANDIDATES FOR LARGE-GAP QUANTUM SPIN HALL INSULATOR	SCI REP 6: - FEB 17 2016	2016		Zhang Run-wu		3		
		ROOM TEMPERATURE QUANTUM SPIN HALL INSULATOR IN ETHYNYL-DERIVATIVE FUNCTIONALIZED STANENE FILMS	SCI REP 6: - JAN 5 2016	2016		Zhang Run-wu		3		
数学科学学院	MATHEMATICS（数学）	POSITIVE SOLUTIONS FOR BOUNDARY VALUE PROBLEMS OF NONLINEAR FRACTIONAL DIFFERENTIAL EQUATIONS	APPL MATH COMPUT 217 (16): 6950-6958 APR 15 2011	2011	孙书荣	Zhao Yige	45	46	46	46
		POSITIVE SOLUTIONS TO BOUNDARY VALUE PROBLEMS OF NONLINEAR FRACTIONAL DIFFERENTIAL EQUATIONS	ABSTR APPL ANAL : - 2011	2011		Zhao Yige	32			
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	19	23	26	34
材料科学与工	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

程学院										
医学与生命科学学院	Clinical Medicine（临床医学）	GENOMEWIDE ASSOCIATION STUDY OF LEPROSY	N ENGL J MED 361 (27): 2609-2618 DEC 31 2009	2009	张福仁	张福仁		279	286	289

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
前1%学科	Chemsitry（化学）	7	1	198	化学化工学院				√					
			2	130	化学化工学院				√					
			3	114	化学化工学院	√								
			4	34	生物科学与技术学院	√								
			5	28	化学化工学院	√								
			6	23	资源与环境学院	√								
			7	6	化学化工学院				√					
	Clinical Medicine（临床医学）	4	1	289	医学与生命科学学院	√								
			2	142	医学与生命科学学院									√
			3	73	医学与生命科学学院								√	
			4	17	医学与生命科学学院		√							
	（ Materials		1	159	化学化工学院	√								

前1%学科	Science）材料科学	4	2	73	化学化工学院				√					
			3	8	材料科学与工程学院					√				
			4	4	材料科学与工程学院	√								
	Engineering（工程）	12篇	1	151	化学化工学院	√								
			2	87	资源与环境学院	√								
			3	81	资源与环境学院	√								
			4	76	材料科学与工程学院				√					
			5	76	化学化工学院	√								
			6	71	资源与环境学院	√								
			7	53	化学化工学院	√								
			8	53	资源与环境学院	√								
			9	40	商学院（经济学院）			√						
			10	39	资源与环境学院	√								
			11	16	资源与环境学院	√								
			12	4	资源与环境学院	√								
未进入前1%学科	Physics（物理）	5	1	164	材料科学与工程学院				√					
			2	89	物理科学与技术学院	√								
			3	45	物理科学与技术学院				√					
			4	19	化学化工学院							√		
			5	12	物理科学与技术学院	√								
	Biology & Biochemistry（生物和生物化学）	4	1	131	山东省肿瘤医院（医学与生命科学学院附属医院）						√			
			2	86	化学化工学院	√								
			3	67	化学化工学院	√								
			4	38	医学与生命科学学院					√				
	Mathematics（数学）	2	1	46	数学科学学院	√								
			2	43	数学科学学院				√					
	Agriculture Sciences（农业科学）	1	1	50	非济南大学文章(单位中没有济南大学及和山东省医学科学院)									

7.2 济南大学前 1%学科学科现状分析

7.2.1 化学学科现状分析

化学学科 2016 年 11 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、复旦大学、中国科学技术大学、南开大学、吉林大学、华东理工大学和中国科学院大学。在表-8 中，排名第 1 位的浙江大学至排名第 115 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 60 位，省内高校第 4 位。

表-8 化学学科国内高校排名

	机构名称	Web of Science 论文数	学科规范化的引文影响力	总被引频次	论文被引百分比	国际合作论文
1	Zhejiang University	12271	1.13	174609	85.23	1856
2	Tsinghua University	9558	1.42	164940	84.59	1556
3	Nanjing University	9089	1.37	150823	85.58	1455
4	Peking University	8041	1.42	140828	86.08	1561
5	Fudan University	7022	1.43	135237	86.97	1289
6	University of Science & Technology of China	7664	1.51	134996	85.9	1354
7	Nankai University	7453	1.4	128837	86.46	801
8	Jilin University	10705	0.99	122734	81.25	1391
9	East China University of Science & Technology	7836	1.21	109138	83.52	1433
10	University of Chinese Academy of Sciences	9651	1.24	102214	78.83	880

11	Sichuan University	8859	0.9	90663	80.75	875
12	Dalian University of Technology	5598	1.29	87964	84.19	1158
13	Xiamen University	5228	1.39	84348	84.79	1063
14	Wuhan University	4853	1.41	84071	86.69	659
15	Sun Yat Sen University	4720	1.42	81784	86.14	703
16	Shandong University	6928	0.96	74370	81.13	986
17	South China University of Technology	5781	1.25	73921	82.77	966
18	Shanghai Jiao Tong University	5592	1.09	73457	84.3	1090
19	Lanzhou University	5006	1.31	73413	86.68	427
20	Tianjin University	6722	0.94	67346	78.4	886
21	Suzhou University	4966	1.31	65529	84.25	867
22	Beijing University of Chemical Technology	5759	0.96	64051	82.29	786
23	Hunan University	3818	1.46	58176	84.26	495
24	Northeast Normal University - China	3631	1.17	55627	84.85	260
25	East China Normal University	3108	1.4	46865	86.71	537
26	Fuzhou University	3039	1.48	46831	83.55	313
27	Harbin Institute of Technology	3994	1.02	41868	78.37	787
28	Huazhong University of Science & Technology	3323	1.22	38846	80.59	684
29	Beijing Institute of Technology	3678	0.92	36222	78	586
30	Southeast University - China	3596	0.88	34352	75.06	449
31	Central China Normal University	2193	1.28	33909	81.67	253
32	Wuhan University of Technology	1528	1.96	31905	82	453
33	Nanjing University of Technology	3628	0.86	30214	75.06	465
34	Zhengzhou University	3422	0.87	30116	78.52	333
35	Tongji University	2637	1.07	30073	81.11	422
36	Xi'an Jiaotong University	2982	0.99	29616	76.02	609
37	Shanghai University	2467	1.13	28866	78.23	374
38	Donghua University	2347	1.05	28524	81.21	463
39	Central South University	3362	0.91	27424	80.43	482
40	Southwest University - China	2496	1.09	27355	80.37	214
41	Beijing Normal University	2480	0.96	26547	83.19	513
42	Northwest University Xi'an	2769	0.88	26002	79.16	327
43	Qingdao University of Science & Technology	2555	0.83	24760	78.24	152
44	Zhejiang University of Technology	3019	0.73	23839	75.12	294
45	Nanjing University of Science & Technology	2533	0.9	22693	78.92	237
46	China University of Petroleum	2595	0.84	21438	75.3	436

47	University of Science & Technology Beijing	2208	1.03	21296	78.44	406
48	China Pharmaceutical University	2446	0.75	19464	80.62	274
49	Anhui Normal University	1217	1.28	18839	86.36	69
50	South China Normal University	1973	0.84	18445	80.44	405
51	Jiangsu University	2161	1.19	18386	76.77	265
52	Jiangnan University	2450	0.83	18139	75.27	405
53	University Town of Shenzhen	1364	1.37	16507	80.79	228
54	Beihang University	1628	1.12	16481	75.74	235
55	Shaanxi Normal University	1977	0.78	16280	79.36	212
56	Henan Normal University	1615	0.86	16237	81.3	158
57	Xiangtan University	1603	1	15967	79.98	163
58	China Agricultural University	2043	0.63	15779	73.81	282
59	Yangzhou University	1475	0.98	15268	81.08	196
60	University of Jinan	1778	1.08	15070	75.76	154
61	Chongqing University	2082	0.96	14893	70.41	335
62	Henan University	1774	0.79	14608	80.67	148
63	Harbin Engineering University	898	1.43	14521	79.29	127
64	Hunan Normal University	1011	1.13	14393	85.76	85
65	Nanjing Normal University	1099	1.16	14173	83.44	122
66	Shanghai Normal University	843	1.35	13913	84.7	97
67	Wenzhou University	1134	1.03	13763	81.92	127
68	Zhejiang Normal University	1363	1.02	13249	79.97	154
69	Nanchang University	1609	0.9	13218	77.94	239
70	Ocean University of China	1576	0.79	12577	78.3	172
71	Nanjing University of Posts & Telecommunications	724	1.55	12495	78.31	106
72	Shanxi University	1362	0.93	12375	76.87	168
73	Jinan University	1514	0.76	12266	76.95	150
74	Hefei University of Technology	1312	0.96	12158	73.55	186
75	Northeastern University - China	1363	0.78	12104	74.76	232
76	Heilongjiang University	1257	1.01	11680	76.37	181
77	Jiangxi Normal University	1074	1.25	11192	79.89	85
78	Guangxi Normal University	1165	0.8	11167	78.03	117
79	Zhejiang Sci-Tech University	1050	1.13	11040	80.67	212
80	Tianjin Normal University	886	0.97	10926	76.64	38
81	Hubei University	988	1	10884	82.79	191
82	Northwestern Polytechnical University	1443	0.88	10865	79.63	220
83	Beijing University of Technology	1141	0.91	10862	78.79	158
84	Hebei University	1533	0.59	10810	75.08	64
85	Liaocheng University	1668	0.51	10735	74.82	63

86	Shenyang Pharmaceutical University	1506	0.58	10722	79.75	211
87	Northwest Normal University - China	1481	0.77	10586	78.87	69
88	Shandong Normal University	1057	0.88	10451	78.81	85
89	Hangzhou Normal University	1014	1	10426	79.19	139
90	Nanjing University of Aeronautics & Astronautics	873	1.19	10255	78.92	161
91	China University of Geosciences	1248	0.99	10045	74.76	289
92	Jiangsu Normal University	1154	0.88	9865	75.13	93
93	Anhui University	1133	0.89	9439	72.46	100
94	Changzhou University	1259	0.98	8977	74.34	142
95	Huazhong Agricultural University	795	0.98	8956	78.87	99
96	Huaqiao University	742	1.15	8857	82.21	56
97	Liaoning Normal University	1111	0.6	8568	79.12	57
98	South Central University for Nationalities	713	1.14	8020	80.79	81
99	Qingdao University	798	0.94	7797	77.19	206
100	Yunnan University	952	0.71	7718	78.15	93
101	Renmin University of China	572	1.21	7712	81.99	102
102	Capital Normal University	1035	0.78	7625	76.33	78
103	Shantou University	419	1.1	7561	87.11	65
104	Second Military Medical University	903	0.65	7452	82.39	94
105	Tianjin Polytechnic University	1105	0.72	7125	73.94	108
106	Liaoning University	864	0.69	6970	79.98	81
107	Hebei Normal University	776	0.7	6889	78.61	69
108	Northwest A&F University - China	969	0.75	6731	74.72	205
109	Taiyuan University of Technology	1284	0.64	6585	69.78	159
110	Guizhou University	885	0.75	6552	76.16	165
111	Fujian Normal University	909	0.76	6458	74.37	90
112	Wenzhou Medical University	477	1.21	6453	72.75	69
113	Northeast Forestry University - China	750	0.86	6378	78.8	119
114	Institute of Materia Medica - CAMS	855	0.62	6253	76.96	65
115	Xinjiang University	889	0.65	6197	74.24	78

我校化学学科共有 7 篇高被引论文，如图-8 所示：

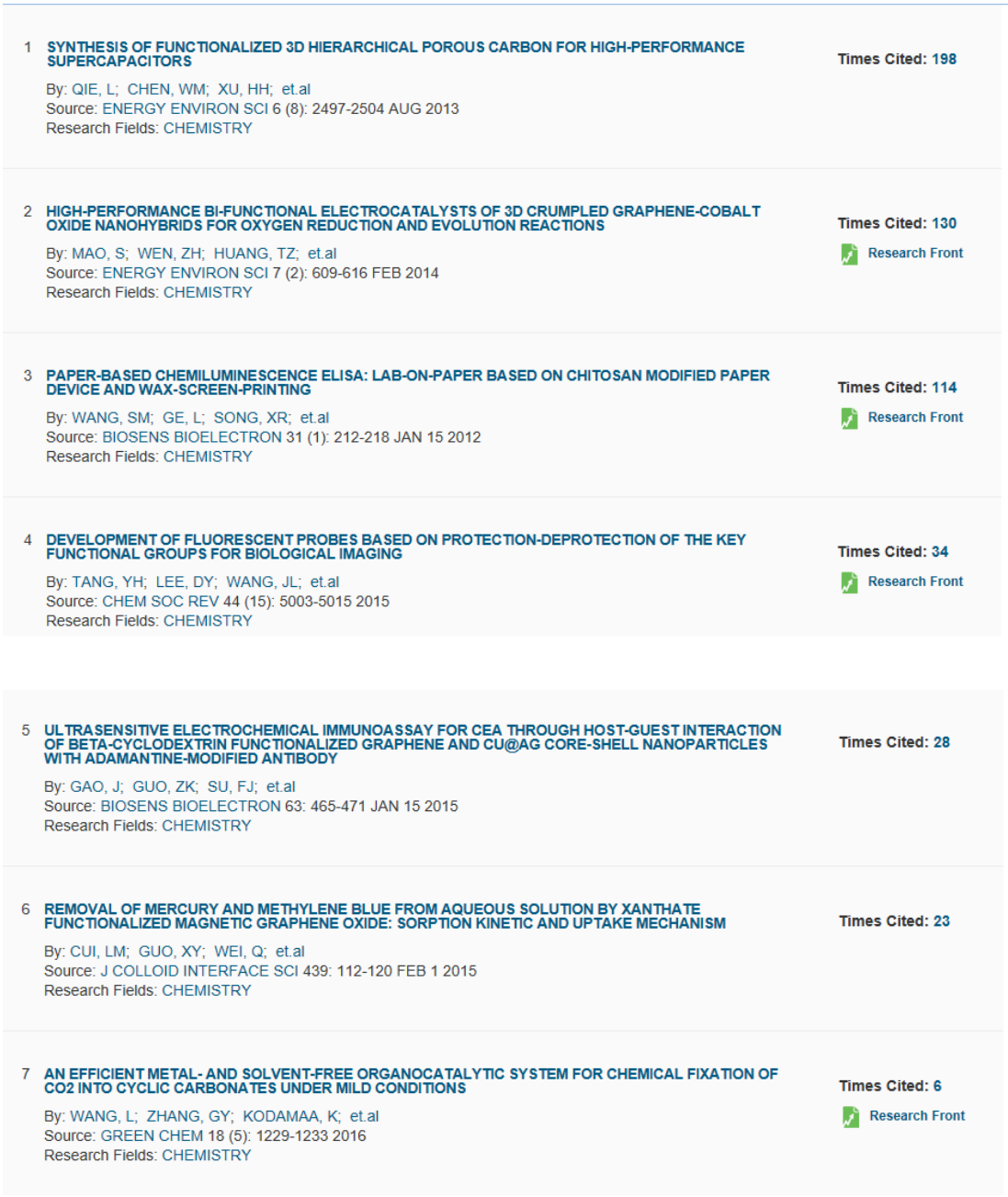

图-8 济南大学化学学科高被引论文

详细记录：

1、被引频次 198 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

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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 130（济南大学是第 2 作者单位，化学化工学院）

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

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

查看 ResearcherID 和 ORCID

ENERGY & ENVIRONMENTAL SCIENCE

卷: 7　期: 2　页: 609-616

DOI: 10.1039/c3ee42696c

出版年: FEB 2014

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类别 / 分类

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

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

文献信息

文献类型:Article

语种:English

入藏号: WOS:000331413700008

ISSN: 1754-5692

eISSN: 1754-5706

3、被引频次 114 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

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

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

文献信息

文献类型:Article

语种:English

入藏号: WOS:000300468400033

PubMed ID: 22051546

ISSN: 0956-5663

4、被引频次 34（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

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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

5、被引频次 28（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]

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研 究 方 向 :Biophysics; Biotechnology & Applied Microbiology; Chemistry; Electrochemistry; Science & Technology - Other Topics

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

文献信息

文献类型:Article

语种:English

入藏号: WOS:000343337000063

PubMed ID: 25129508

ISSN: 0956-5663

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6、被引频次 23（济南大学是第 1 作者和通讯作者单位，资源与环境学院）

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

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

JOURNAL OF COLLOID AND INTERFACE SCIENCE

卷: 439　页: 112-120

DOI: 10.1016/j.jcis.2014.10.019

出版年: FEB 1 2015

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类别 / 分类

研究方向:Chemistry

Web of Science 类别:Chemistry, Physical

文献信息

文献类型:Article

语种:English

入藏号: WOS:000346692500015

PubMed ID: 25463182

ISSN: 0021-9797

eISSN: 1095-7103

7、被引频次 6（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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出版商

ROYAL SOC CHEMISTRY, THOMAS GRAHAM HOUSE, SCIENCE PARK, MILTON RD, CAMBRIDGE CB4 0WF, CAMBS, ENGLAND

类别 / 分类

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

Web of Science 类别: Chemistry, Multidisciplinary; GREEN & SUSTAINABLE SCIENCE & TECHNOLOGY

文献信息

文献类型: Article

语种: English

入藏号:WOS:000371608100008

ISSN: 1463-9262

eISSN: 1463-9270

7.2.2 临床医学学科现状分析

临床医学 2016 年 11 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、华中科技大学、南京医科大学、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41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	Web of Science论文数	学科规范化的引文影响力	总被引频次	论文被引百分比	国际合作论文数
1	Shanghai Jiao Tong University	13544	1.12	138454	76.62	3117
2	Sun Yat Sen University	10279	1.11	105232	78.09	2275
3	Fudan University	10121	1.15	98482	76.53	2495
4	Peking University	8882	1.11	96609	76.98	2674
5	Zhejiang University	7817	0.91	62757	73.9	1463
6	Capital Medical University	7900	0.88	60330	71.44	1992
7	Sichuan University	7411	0.8	53310	73.85	1346
8	Huazhong University of Science & Technology	6465	0.86	49170	77.06	1505
9	Nanjing Medical University	5922	1.08	49034	77.19	1089
10	Second Military Medical University	4739	1.08	48383	78.46	835
11	Shandong University	6109	0.85	43555	72.79	1213
12	Fourth Military Medical University	4216	1.04	42329	82.21	905
13	Central South University	4953	1.05	39315	72.12	1026
14	China Medical University	4568	0.84	32900	74.63	856
15	Nanjing University	3300	1.17	30746	77.48	648
16	Third Military Medical University	3409	0.94	29219	76.86	617
17	Harbin Medical University	3386	0.99	28320	76.34	777
18	Southern Medical University - China	3678	0.98	26593	72.32	673
19	Wuhan University	3660	0.96	26410	74.86	710
20	Tianjin Medical University	3162	1	25767	72.42	764
21	Tongji University	3300	1.06	24751	72.12	741
22	Suzhou University	3101	0.96	22731	72.3	614
23	Xi'an Jiaotong University	3148	0.88	22420	73.22	704
24	Chongqing Medical University	2846	1.09	21193	72.63	569

25	Wenzhou Medical University	2670	0.81	17085	69.48	710
26	Zhengzhou University	2934	0.82	16781	67.31	589
27	Jilin University	2837	0.83	16036	65.84	733
28	Anhui Medical University	2158	0.87	15098	72.57	441
29	Guangdong General Hospital	889	1.88	14211	73.23	188
30	Guangzhou Medical University	2042	0.95	14146	71.4	372
31	Southeast University - China	1791	1.04	13513	71.97	393
32	Guangxi Medical University	1648	0.91	11560	72.69	239
33	Fujian Medical University	1777	0.75	10557	67.64	282
34	Tsinghua University	1068	1.03	10348	75.56	318
35	Hebei Medical University	1556	0.8	9947	69.6	239
36	Jinan University	1255	0.8	9018	72.75	232
37	Xiamen University	1234	0.94	8982	70.42	326
38	Dalian Medical University	1282	0.87	8959	67.71	287
39	Shantou University	866	1.07	8508	74.13	180
40	Qingdao University	1557	0.71	8259	66.09	208
41	University of Jinan	1091	0.86	7923	72.23	126
42	Nantong University	1226	0.82	7079	69.74	142
43	Nanjing University of Chinese Medicine	759	1.32	6962	68.51	170
44	Nankai University	585	1.07	6145	79.66	185
45	Lanzhou University	809	0.83	5950	72.68	184
46	Jiangsu University	867	0.91	5771	73.13	85
47	Nanchang University	966	0.87	5292	67.6	163
48	Shanghai University of Traditional Chinese Medicine	909	0.8	4992	69.97	231
49	University of Science & Technology of China	335	1.45	4821	82.09	151
50	Guangdong Medical University	716	0.97	4456	73.18	135
51	Kunming Medical University	791	0.8	4254	65.99	203
52	Shanxi Medical University	591	0.84	4077	71.91	159
53	China Pharmaceutical University	408	1.11	3844	77.45	108
54	Xinjiang Medical University	804	0.79	3761	61.57	144
55	Xuzhou Medical College	726	0.77	3482	67.36	92
56	University Town of Shenzhen	423	1.06	3399	73.05	167
57	East China Normal University	294	1.17	3382	79.25	134
58	Ningbo University	375	1.18	3308	75.2	79
59	University of South China	429	1.02	3275	73.43	89
60	Guangzhou University of Chinese Medicine	730	0.65	3139	65.75	159
61	Beijing University of Chinese	755	0.53	3092	64.5	224

	Medicine					
62	Yanbian University	324	0.91	2759	78.7	225
63	Beijing YouAn Hospital	237	1.1	2598	70.46	70
64	University of Chinese Academy of Sciences	322	1.57	2578	76.71	89
65	Southwest Medical University	373	0.9	2480	66.76	71
66	Ningxia Medical University	418	0.79	2363	69.62	77
67	Shanghai University	212	0.97	2346	76.42	60
68	Yangzhou University	421	0.92	2305	69.6	72
69	Shenzhen University	373	0.97	2289	63	101
70	Beijing Normal University	228	0.75	2199	75.44	92
71	Hunan Normal University	286	0.75	2193	77.27	125
72	North China University of Science & Technology	315	0.8	2163	65.71	58
73	Shenyang Pharmaceutical University	162	1.33	2114	80.86	45

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 289（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

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页: 2609-2618

DOI: 10.1056/NEJMoa0903753

出版年: DEC 31 2009

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学科类别:General & Internal Medicine

Web of Science 类别:Medicine, General & Internal

文献信息

文献类型:Article

语种:English

入藏号: WOS:000273181300008

PubMed ID: 20018961

ISSN: 0028-4793

2、被引频次 142（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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文献类型:Article

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PubMed ID: 24002282

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3、被引频次 73（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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语种:English
入藏号: WOS:000340819800008
PubMed ID: 25162888
ISSN: 0028-4793
eISSN: 1533-4406

4、被引频次 17（济南大学-医学与生命科学学院是通讯作者单位和第 2 作者单位）

A Functional lncRNA HOTAIR Genetic Variant Contributes to Gastric Cancer Susceptibility

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

MOLECULAR CARCINOGENESIS
卷: 55 期: 1 页: 90-96
DOI: 10.1002/mc.22261
出版年: JAN 2016
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研究方向:Biochemistry & Molecular Biology; Oncology
Web of Science 类别:Biochemistry & Molecular Biology; Oncology
文献信息
文献类型:Article
语种:English
入藏号: WOS:000368810100008
PubMed ID: 25640751
ISSN: 0899-1987
eISSN: 1098-2744

7.2.3 材料科学学科现状分析

材料科学 2016 年 11 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 85 位的深圳大学，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 75 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	Web of Science 论文数	学科规范化的引文影响力	总被引频次	论文被引分百比	国际合作论文
1	Tsinghua University	7376	1.36	102894	77.82	1456
2	Shanghai Jiao Tong University	5950	1.25	72914	81.56	1305
3	Zhejiang University	5006	1.31	67367	82.8	1040
4	Fudan University	2724	2.41	65165	87.96	650
5	Harbin Institute of Technology	7794	0.84	62976	76.67	1313
6	Jilin University	4139	1.28	52135	83.6	623
7	Peking University	2905	1.9	50682	84.41	666
8	University of Science & Technology of China	3136	1.76	48522	84.22	539
9	University of Chinese Academy of Sciences	3615	1.79	47731	79.72	381
10	Central South University	6663	0.7	42993	75.33	942
11	University of Science & Technology Beijing	6634	0.69	41185	70.85	1103
12	South China University of Technology	4023	1.25	40704	77.28	744
13	Tianjin University	3822	1.1	37015	76.37	638
14	Sichuan University	3816	1.06	36484	77.96	517
15	Nanjing University	2567	1.48	36176	83.4	447
16	Dalian University of	3931	0.94	36014	77.97	798

	Technology					
17	Huazhong University of Science & Technology	3449	1.24	34997	78.89	586
18	Xi'an Jiaotong University	4167	0.91	34546	75.59	901
19	Shandong University	3340	1.08	33025	79.13	556
20	Northwestern Polytechnical University	5403	0.71	32922	73.68	638
21	Suzhou University	2234	2.02	32363	79.86	594
22	Wuhan University	2068	1.53	29069	80.61	399
23	Beihang University	3334	0.95	26607	74.15	565
24	Nankai University	1212	2.14	25704	87.54	216
25	Wuhan University of Technology	2946	0.99	25456	71.52	682
26	Beijing University of Chemical Technology	1849	1.56	25271	84.42	319
27	Sun Yat Sen University	1599	1.76	25239	84.18	319
28	East China University of Science & Technology	1809	1.42	23924	82.42	390
29	Southeast University - China	2412	1.02	23135	76.95	522
30	Tongji University	2445	1.06	22590	77.91	567
31	Shanghai University	2581	0.91	21207	75.13	538
32	Lanzhou University	1596	1.33	20961	85.34	202
33	Northeastern University - China	3927	0.57	20085	69.26	876
34	Donghua University	2136	1.04	19648	76.26	500
35	Xiamen University	1471	1.54	19386	80.69	421
36	Chongqing University	3114	0.84	19238	68.53	569
37	Nanjing University of Aeronautics & Astronautics	2020	1.02	18585	74.8	305
38	Hunan University	1942	1.06	18341	75.18	308
39	Beijing Institute of Technology	1823	1.32	17504	74.77	353
40	Nanjing University of Technology	1765	1.13	15083	76.54	335
41	Harbin Engineering University	1124	1.41	14894	75.8	109
42	Fuzhou University	813	1.8	12853	78.47	115
43	Nanjing University of Science & Technology	1374	1.32	12003	75.69	300
44	Jiangsu University	1534	0.91	11289	72.1	162
45	Beijing University of Technology	1536	0.7	11130	70.9	251
46	East China Normal University	780	1.56	11084	83.08	154
47	Northeast Normal University -	567	1.72	10187	89.95	38

	China					
48	University of Electronic Science & Technology of China	1610	0.82	9875	71.99	376
49	Central China Normal University	337	2.24	9568	87.24	48
50	China University of Petroleum	1075	1.11	9501	69.86	220
51	Hefei University of Technology	1038	1.05	9140	74.86	170
52	Southwest Jiaotong University	1100	0.91	9059	76.09	278
53	University Town of Shenzhen	993	1.31	8500	75.43	236
54	Xiangtan University	998	0.85	7915	79.76	172
55	Zhengzhou University	1032	1.05	7910	75	180
56	Yanshan University	1517	0.67	7890	71.79	231
57	Nanjing University of Posts & Telecommunications	355	2.56	6923	79.44	78
58	China University of Geosciences	1113	0.97	6868	70.53	193
59	Shaanxi Normal University	751	1.03	6783	81.76	97
60	Zhejiang Sci-Tech University	692	1.06	6559	76.88	134
61	Beijing Jiaotong University	739	0.96	6493	74.56	146
62	Taiyuan University of Technology	1459	0.7	6383	65.87	207
63	Fourth Military Medical University	387	1.38	6092	82.69	73
64	Beijing Normal University	481	1.4	5889	80.67	71
65	Shanghai Normal University	363	1.59	5885	87.05	45
66	Qingdao University of Science & Technology	626	0.95	5821	78.43	92
67	Anhui University	638	1.29	5557	79.62	66
68	Hubei University	589	1.1	5502	77.76	146
69	Zhejiang Normal University	481	1.47	5490	79.83	72
70	Ocean University of China	506	1.1	5443	80.24	55
71	Zhejiang University of Technology	747	0.8	5408	69.75	132
72	Anhui University of Technology	649	1.02	5304	72.57	85
73	Southwest University - China	574	1.36	5175	75.61	92
74	National University of Defence Technology - China	906	0.72	5100	70.09	87
75	University of Jinan	900	0.87	5051	71.56	122
76	Kunming University of Science & Technology	1167	0.56	4988	65.55	144
77	Henan University	633	0.93	4941	81.67	73
78	Heilongjiang University	383	1.43	4894	79.37	29

79	Changzhou University	659	0.97	4862	69.2	116
80	Guangxi University	867	0.65	4788	76.01	109
81	Jinan University	563	1.15	4679	76.91	70
82	Wuhan University of Science & Technology	900	0.63	4550	63.89	116
83	Hebei University of Technology	724	0.73	4193	70.58	90
84	China University of Mining & Technology	874	0.71	4180	66.36	141
85	Shenzhen University	808	0.76	4141	67.33	129

我校材料科学共有 4 篇高被引论文，如图-10 所示：

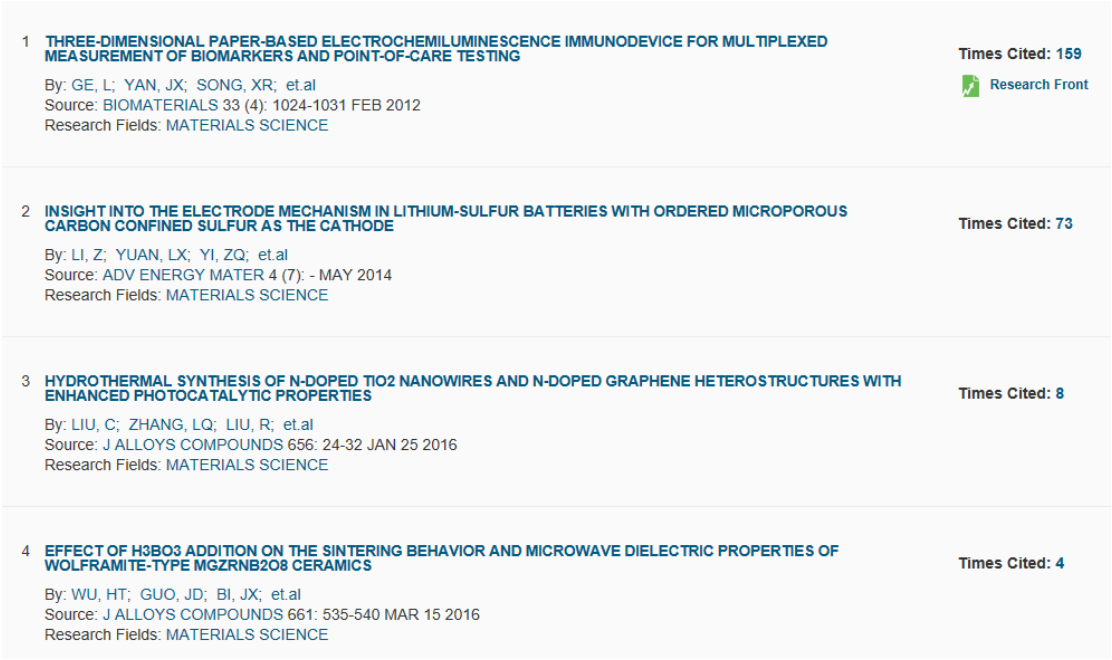

图-10 济南大学材料科学高被引论文

详细记录：

1、被引频次 159（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 73（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

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DOI: 10.1002/aenm.201301473

出版年: MAY 2014

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

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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 8（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

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页: 24-32

DOI: 10.1016/j.jallcom.2015.09.211

出版年: JAN 25 2016

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语种:English

入藏号: WOS:000365051000004

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eISSN: 1873-4669

4、被引频次 4（济南大学是第 1 作者单位和通讯作者单位，材料科学与工程学院）

Effect of H3BO3 addition on the sintering behavior and microwave dielectric properties of wolframite-type MgZrNb2O8 ceramics

作者:Wu, HT (Wu, H. T.)[1]; Guo, JD (Guo, J. D.)[1]; Bi, JX (Bi, J. X.)[1]; Mei, QJ (Mei, Q. J.)[1]

JOURNAL OF ALLOYS AND COMPOUNDS

卷: 661

页: 535-540

DOI: 10.1016/j.jallcom.2015.11.223

出版年: MAR 15 2016

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电子邮件地址:mse_wuht@ujn.edu.cn

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类别 / 分类

研究方向:Chemistry; Materials Science; Metallurgy & Metallurgical Engineering

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

文献信息

文献类型:Article

语种:English

入藏号:WOS:000367521200075

ISSN: 0925-8388

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7.2.4 工程学学科现状分析

工程学 2016 年 11 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 115 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 105 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	Web of Science 论文数	学科规范化的引文影响力	总被引频次	论文被引百分比	国际合作论文
1	Tsinghua University	12502	1.25	108437	75.48	3464
2	Shanghai Jiao Tong University	10221	1.03	80225	74.81	2320
3	Harbin Institute of Technology	8218	1.38	76236	71.57	2099
4	Zhejiang University	8458	1.15	68351	73.84	2342
5	Xi'an Jiaotong University	7341	1.11	53401	71.42	1424
6	Huazhong University of Science & Technology	6113	1.33	50460	73.11	1399
7	Southeast University - China	5793	1.19	45176	69.14	1594
8	Dalian University of Technology	5401	1.04	37887	72.86	1260
9	University of Science & Technology of China	3617	1.46	35512	73.96	950
10	Tianjin University	4831	1.27	34807	70.79	1230
11	South China University of Technology	3375	1.47	31644	73.63	774
12	Peking University	3194	1.38	30925	75.64	957
13	Beihang University	5875	0.83	29900	65.77	1171
14	Tongji University	4538	1.12	29193	69.3	1498
15	University of Electronic Science & Technology of China	4907	0.85	27774	65.76	1276
16	Xidian University	4071	0.83	26325	67.21	647
17	Nanjing University of Aeronautics & Astronautics	3571	0.98	24226	66.62	737
18	Beijing Institute of Technology	3511	1.18	22963	65.59	820
19	Chongqing University	3561	1.09	21743	66.89	1044
20	Northeastern University - China	2565	1.19	21102	68.85	586

21	Central South University	2147	1.67	20406	72.38	613
22	Hunan University	2647	1.23	20103	69.85	790
23	Shandong University	2653	1.23	19799	71.54	573
24	Nanjing University of Science & Technology	2687	1.08	19174	68.33	548
25	University of Chinese Academy of Sciences	2434	1.39	17923	70.67	339
26	Nanjing University	1700	1.39	17769	74.65	451
27	Wuhan University	2295	1.27	17508	67.54	635
28	North China Electric Power University	2382	1.19	16007	67.34	673
29	Sun Yat Sen University	1799	1.22	15940	73.43	430
30	Fudan University	1729	1.29	15792	75.13	628
31	Shanghai University	2158	1.05	15781	71.73	520
32	Beijing Jiaotong University	2793	0.97	14348	65.52	914
33	East China University of Science & Technology	1671	1.34	13354	72.23	312
34	Northwestern Polytechnical University	3003	0.89	13166	62.64	801
35	Jilin University	2010	0.9	12461	66.37	335
36	National University of Defence Technology - China	2877	0.7	12321	60.31	526
37	Sichuan University	1960	1.01	11961	68.27	408
38	Jiangnan University	991	1.85	11743	71.44	287
39	China University of Petroleum	2540	0.96	11492	63.23	529
40	University Town of Shenzhen	1598	1.12	11057	70.03	451
41	University of Science & Technology Beijing	1595	1.24	10965	69.22	429
42	Xiamen University	1349	1.41	10937	73.17	469
43	Nankai University	1022	1.5	10484	76.32	212
44	Donghua University	860	1.75	10379	75.81	276
45	Wuhan University of Technology	1323	1.15	10251	65	420
46	Hohai University	1988	0.84	9183	62.73	645
47	Beijing University of Technology	1629	0.92	9028	64.09	346
48	China University of Mining & Technology	1835	1.07	8686	62.29	395
49	Southwest Jiaotong	1685	0.94	8537	63.09	482

	University					
50	Lanzhou University	860	1.41	8453	74.42	145
51	Hefei University of Technology	1224	1.33	8346	68.22	469
52	Harbin Engineering University	1703	1	8071	58.13	417
53	Nanjing University of Technology	864	1.45	8043	76.62	227
54	Beijing University of Chemical Technology	789	1.69	7640	73.51	154
55	Jiangsu University	1298	1.21	7600	65.64	209
56	Fuzhou University	634	1.36	7369	70.82	219
57	Beijing University of Posts & Telecommunications	1555	0.76	7251	60.9	406
58	Zhejiang University of Technology	980	1.06	7057	69.49	254
59	Beijing Normal University	782	1.31	6951	75.83	260
60	China University of Geosciences	1095	1.24	6900	68.04	368
61	Guangdong University of Technology	898	1.42	6389	65.81	263
62	Qingdao University	356	2.15	6102	71.07	106
63	Suzhou University	883	1.26	5575	65.01	219
64	Zhengzhou University	671	1.27	5318	69.6	159
65	Yanshan University	1110	0.82	5288	64.68	210
66	Nanjing Normal University	550	1.58	5246	72.55	131
67	Hangzhou Dianzi University	744	1.12	5144	60.89	203
68	Dalian Maritime University	642	1.26	5052	68.54	134
69	Liaoning University of Technology	209	4.82	4835	70.81	19
70	China Agricultural University	674	0.96	4575	74.78	190
71	East China Normal University	634	0.92	4518	69.72	169
72	South China Normal University	459	1.58	4398	74.95	68
73	Qufu Normal University	334	1.62	4379	74.55	52
74	Ocean University of China	634	1.01	4325	67.82	150
75	Wuhan Naval University of Engineering	542	1.06	4160	75.09	30
76	Xiangtan University	415	1.67	4071	72.05	87
77	Yangzhou University	367	1.6	4038	65.4	127

78	PLA University of Science & Technology	889	0.7	3809	54.56	71
79	Taiyuan University of Technology	731	1.11	3671	62.24	184
80	Jinan University	410	1.36	3555	70.49	95
81	Ningbo University	546	1.12	3543	69.6	120
82	Shenzhen University	737	1.08	3508	66.21	188
83	Zhejiang Normal University	448	1.3	3391	74.11	81
84	University of Shanghai for Science & Technology	730	1.03	3244	62.05	212
85	Huaqiao University	374	1.65	3082	64.44	66
86	Guangxi University	454	1.11	3059	68.72	104
87	Kunming University of Science & Technology	457	1.24	3059	66.74	127
88	Shenyang Aerospace University	341	1.13	3049	70.09	42
89	Nanjing University of Posts & Telecommunications	713	0.79	2975	55.12	148
90	Bohai University	279	3.75	2941	59.14	86
91	Northeast Normal University - China	250	1.64	2758	70.4	23
92	Northwest A&F University - China	292	1.44	2739	71.58	94
93	Shaanxi Normal University	322	1.24	2701	70.81	48
94	Anhui University of Technology	283	1.74	2661	74.56	69
95	China Jiliang University	529	0.82	2655	69.94	108
96	Nanchang University	422	1.09	2620	69.43	91
97	Changsha University of Science & Technology	533	0.83	2575	70.54	174
98	Anhui University	375	1.17	2526	64.27	73
99	Tianjin Polytechnic University	438	1.15	2484	65.53	67
100	Qingdao University of Science & Technology	283	1.71	2440	72.44	51
101	Nanjing University of Information Science & Technology	477	1.13	2420	61.64	160
102	Southwest University - China	368	1.42	2411	69.02	137
103	Northwest University Xi'an	267	1.46	2344	67.79	48
104	Heilongjiang University	245	1.69	2343	73.88	44

105	University of Jinan	319	1.46	2328	63.95	52
106	Chang'an University	548	0.74	2311	57.48	165
107	Hebei University of Technology	302	1.03	2288	65.23	60
108	Wenzhou University	283	1.08	2287	57.6	77
109	Shanxi University	267	1.9	2255	73.41	81
110	Lanzhou University of Technology	337	1.18	2227	67.66	54
111	Henan Normal University	229	1.6	2214	72.93	46
112	Northeast Petroleum University	185	2.25	2182	61.08	54
113	Zhejiang Sci-Tech University	380	1.12	2128	65.53	83
114	Nanjing Agricultural University	227	1.45	2109	66.96	43
115	Xi'an University of Architecture & Technology	396	0.83	2077	61.11	55

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** — Times Cited: 151

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: 87

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: 81

By: XIN, X; WEI, Q; YANG, J; et.al
Source: CHEM ENG J 184: 132-140 MAR 1 2012
Research Fields: ENGINEERING

4 **NOVEL NANOCRYSTALLINE PDNI ALLOY CATALYST FOR METHANOL AND ETHANOL ELECTRO-OXIDATION IN ALKALINE MEDIA** — Times Cited: 76

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

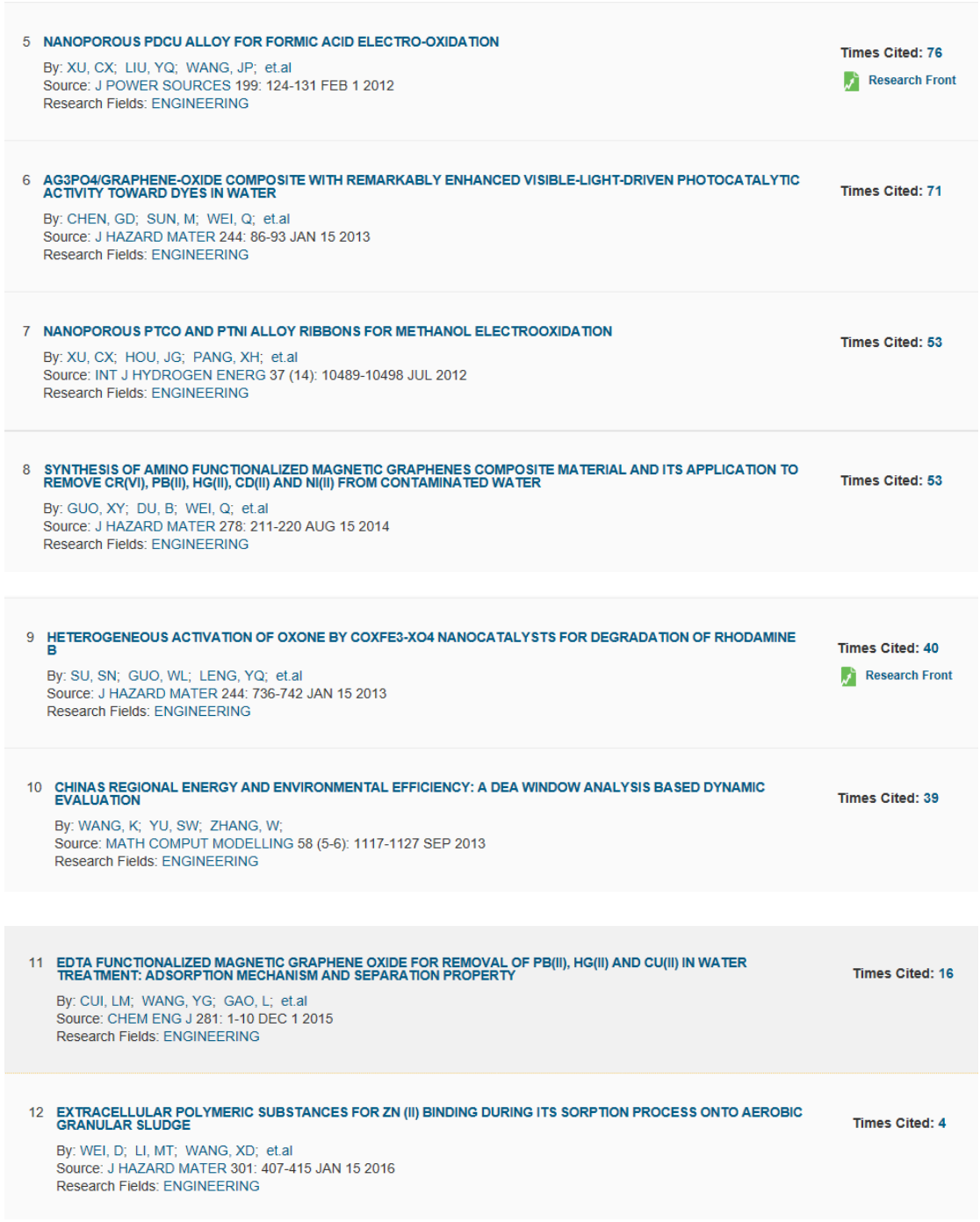

图-11 济南大学工程学高被引论文

详细记录：

1、被引频次 151（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]

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DOI: 10.1016/j.jhazmat.2012.02.068

出版年: MAY 15 2012

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研究方向:Engineering; Environmental Sciences & Ecology

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

文献信息

文献类型:Article

语种:English

入藏号: WOS:000303306400034

PubMed ID: 22429622

ISSN: 0304-3894

2、被引频次 87（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

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期: 1-3

页: 244-250

DOI: 10.1016/j.jhazmat.2010.02.086

出版年: JUL 15 2010

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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 81（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 76（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

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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 76（济南大学是第 1 作者和通讯作者单位，化学化工学院）

Nanoporous PdCu alloy for formic acid electro-oxidation

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

JOURNAL OF POWER SOURCES

卷: 199 页: 124-131

DOI: 10.1016/j.jpowsour.2011.10.075

出版年: FEB 1 2012

作者信息

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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 71（济南大学是第 1 作者和通讯作者单位，资源与环境学院）

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

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

查看 ResearcherID 和 ORCID

JOURNAL OF HAZARDOUS MATERIALS

卷: 244 页: 86-93

DOI: 10.1016/j.jhazmat.2012.11.032

出版年: JAN 15 2013

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研究方向:Engineering; Environmental Sciences & Ecology

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

文献信息

文献类型:Article

语种:English

入藏号: WOS:000315001000011

PubMed ID: 23246944

ISSN: 0304-3894

7、被引频次 53（济南大学是第 1 作者和通讯作者单位，化学化工学院）

Nanoporous PtCo and PtNi alloy ribbons for methanol electrooxidation

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

INTERNATIONAL JOURNAL OF HYDROGEN ENERGY

卷: 37 期: 14 页: 10489-10498

DOI: 10.1016/j.ijhydene.2012.04.041

出版年: JUL 2012

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研究方向:Chemistry; Electrochemistry; Energy & Fuels

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

文献信息

文献类型:Article

语种:English

入藏号: WOS:000306391100002

ISSN: 0360-3199

8、被引频次 53（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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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

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9、被引频次 40（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

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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:000315001000086

PubMed ID: 23195597

ISSN: 0304-3894

10、被引频次 39（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 16（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 4（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] ; Wei, Q (Wei, Qin)[2] 更多内容更少内容

JOURNAL OF HAZARDOUS MATERIALS

卷: 301

页: 407-415

DOI: 10.1016/j.jhazmat.2015.09.018

出版年: JAN 15 2016

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研究方向:Engineering; Environmental Sciences & Ecology

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

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文献类型:Article

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入藏号:WOS:000367407200044

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7.3 济南大学未进入前 1%学科学科分析

7.3.1 物理学学科现状分析

物理学 2016 年 11 月国内高校 ESI 排名如表-12 所示。可以看出排在前 10 位的高校分别是中国科学技术大学、清华大学、北京大学、浙江大学、南京大学、上海交通大学、山东大学、复旦大学、吉林大学、华中科技大学。在表-12 中，排名第 1 位的中国科学技术大学至排名第 37 位的北京科技大学，其物理学学科进入了 ESI 的前 1%行列。我校的物理学学科按照 ESI 总被引频次在国内高校排名第 90 位，省内高校第 4 位。

表-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	总被引频次	论文被引百分比	国际合作论文
1	University of Science & Technology of China	10526	1.34	142936	80.74	3848
2	Tsinghua University	10551	1.4	139264	81.81	3391
3	Peking University	9642	1.46	136164	82.63	3675
4	Zhejiang University	7148	1.11	86519	83.87	2479
5	Nanjing University	7251	1.26	83866	80.8	2173
6	Shanghai Jiao Tong University	5956	1.2	63409	80.64	2047
7	Shandong University	4535	1.5	61365	82.76	1570
8	Fudan University	4586	1.22	56890	82.18	1588
9	Jilin University	4121	1	43831	80.61	917
10	Huazhong University of Science & Technology	5625	0.86	43774	75.52	1013
11	Sun Yat Sen University	2959	1.75	41688	84.29	1063
12	Nankai University	3291	1.18	41108	80.98	954
13	Harbin Institute of Technology	5194	0.71	37453	77.17	1024
14	University of Chinese Academy of Sciences	5250	0.82	33691	69.9	818
15	Xi'an Jiaotong University	4317	0.8	33117	76.03	1184
16	Dalian University of Technology	3446	0.79	32674	79.98	693
17	Central China Normal University	1972	1.69	31089	81.64	1026
18	Southeast University - China	2994	1.05	30806	77.25	714
19	Lanzhou University	3242	0.92	29549	78.81	780
20	Beihang University	3346	0.98	27522	75.97	941
21	Beijing Normal University	2652	0.96	26129	79.75	595
22	Shanghai University	2945	0.83	25654	79.39	660
23	University of Electronic Science & Technology of China	4001	0.72	25584	75.76	1005
24	Wuhan University	2197	1.04	24626	79.34	524
25	Tianjin University	2910	0.76	21641	74.23	576
26	Suzhou University	2169	1.21	21038	80.54	654
27	Sichuan University	3530	0.56	20439	74.14	548
28	Hunan University	1741	1.16	20234	82.83	415
29	Beijing Institute of Technology	2434	0.86	19463	74.61	529
30	East China Normal University	2183	0.83	19324	80.39	531
31	South China University of Technology	1787	1.17	18730	79.29	311
32	Xiamen University	1729	1.1	17012	77.79	554

33	National University of Defence Technology - China	2591	0.66	15728	74.84	310
34	Beijing University of Posts & Telecommunications	2259	0.72	15574	74.55	312
35	Tongji University	1898	0.8	14669	76.24	435
36	Wuhan University of Technology	918	1.49	14535	77.34	248
37	University of Science & Technology Beijing	1790	0.83	14237	77.15	465
38	South China Normal University	1841	0.69	13640	75.61	249
39	Chongqing University	1734	0.88	13001	75.55	336
40	East China University of Science & Technology	910	1.3	12766	83.3	241
41	Nanjing University of Aeronautics & Astronautics	1459	0.84	12023	75.53	241
42	Northwestern Polytechnical University	2138	0.63	11906	75.63	355
43	Donghua University	605	1.34	11854	81.65	141
44	Renmin University of China	571	2.08	11225	80.21	237
45	Beijing Jiaotong University	1785	0.65	10777	74.79	320
46	Nanjing University of Science & Technology	1509	0.72	10219	72.83	283
47	Xidian University	1998	0.52	10089	73.57	148
48	Zhejiang Normal University	955	0.9	10001	84.29	178
49	Fuzhou University	833	1.17	9849	77.31	115
50	Northeast Normal University - China	662	1.04	9690	74.92	90
51	Shanxi University	1362	0.79	9579	74.16	293
52	Xiangtan University	1092	0.82	9400	81.68	258
53	Henan Normal University	1169	0.9	9297	79.47	284
54	Anhui University	1228	0.72	9074	73.37	116
55	Beijing University of Chemical Technology	680	1.27	9036	82.79	131
56	Beijing University of Technology	1433	0.62	8892	73.9	259
57	Central South University	1331	0.78	8840	77.31	289
58	Ningbo University	1265	0.67	8663	77.31	192
59	Shenzhen University	1113	1.07	8443	72.96	208
60	Nanjing Normal University	1030	1.06	7773	76.6	294
61	Northeastern University - China	1057	0.72	7771	73.79	220
62	Hunan Normal University	1064	0.64	7543	79.51	92
63	Southwest Jiaotong University	1253	0.57	6943	73.02	299
64	Yanshan University	954	0.66	6858	77.99	149
65	Zhengzhou University	999	0.95	6371	75.28	253
66	Nanchang University	829	0.76	6363	79.25	66

67	Hangzhou Normal University	649	1.34	6337	81.66	270
68	University of Shanghai for Science & Technology	1061	0.6	6083	69.46	231
69	Southwest University - China	673	1.06	5845	75.93	173
70	Capital Normal University	810	0.62	5822	76.79	229
71	Harbin Engineering University	732	0.83	5798	70.77	110
72	Nanjing University of Posts & Telecommunications	887	0.94	5780	68.55	146
73	Jiangsu University	969	0.65	5771	73.89	77
74	Guangxi University	668	0.92	5543	79.79	234
75	Guangxi Normal University	612	1.01	5394	80.23	224
76	Anhui Normal University	478	0.92	5240	84.31	42
77	North China Electric Power University	750	0.95	5054	70.13	85
78	Yangzhou University	475	0.76	5024	78.95	68
79	Shaanxi Normal University	893	0.64	4986	71.89	149
80	Nanjing University of Technology	420	1.54	4975	80.71	95
81	Henan University	636	0.75	4776	77.83	69
82	Shandong Normal University	696	0.56	4656	76.44	82
83	Changchun University of Science & Technology	861	0.5	4652	69.8	62
84	China University of Petroleum	835	0.61	4610	70.18	167
85	China Jiliang University	743	0.74	4584	73.35	142
86	China University of Mining & Technology	872	0.65	4476	73.28	118
87	Hebei Normal University	647	0.7	4470	78.05	70
88	University Town of Shenzhen	721	0.86	4414	71.57	169
89	Northwest Normal University - China	717	0.56	4225	76.57	102
90	University of Jinan	472	0.99	4211	77.54	67
91	Jiangxi Normal University	675	0.61	4200	71.26	53
92	Yunnan University	555	0.71	4195	77.84	100
93	Taiyuan University of Technology	639	0.75	4128	67.92	64
94	Hebei University of Technology	704	0.56	4114	71.59	108
95	Jiangnan University	561	0.74	4112	70.77	63
96	China University of Geosciences	595	0.91	4103	71.76	124
97	Northwest University Xi'an	732	0.73	4098	76.78	138
98	State Key Laboratory of Quantum Optics & Quantum Optics Devices	569	0.76	3974	76.63	67
99	Fujian Normal University	526	0.61	3874	74.52	86
100	Shanghai Normal University	425	0.84	3836	77.88	74

我校物理学共有 5 篇高被引论文，如图-12 所示：

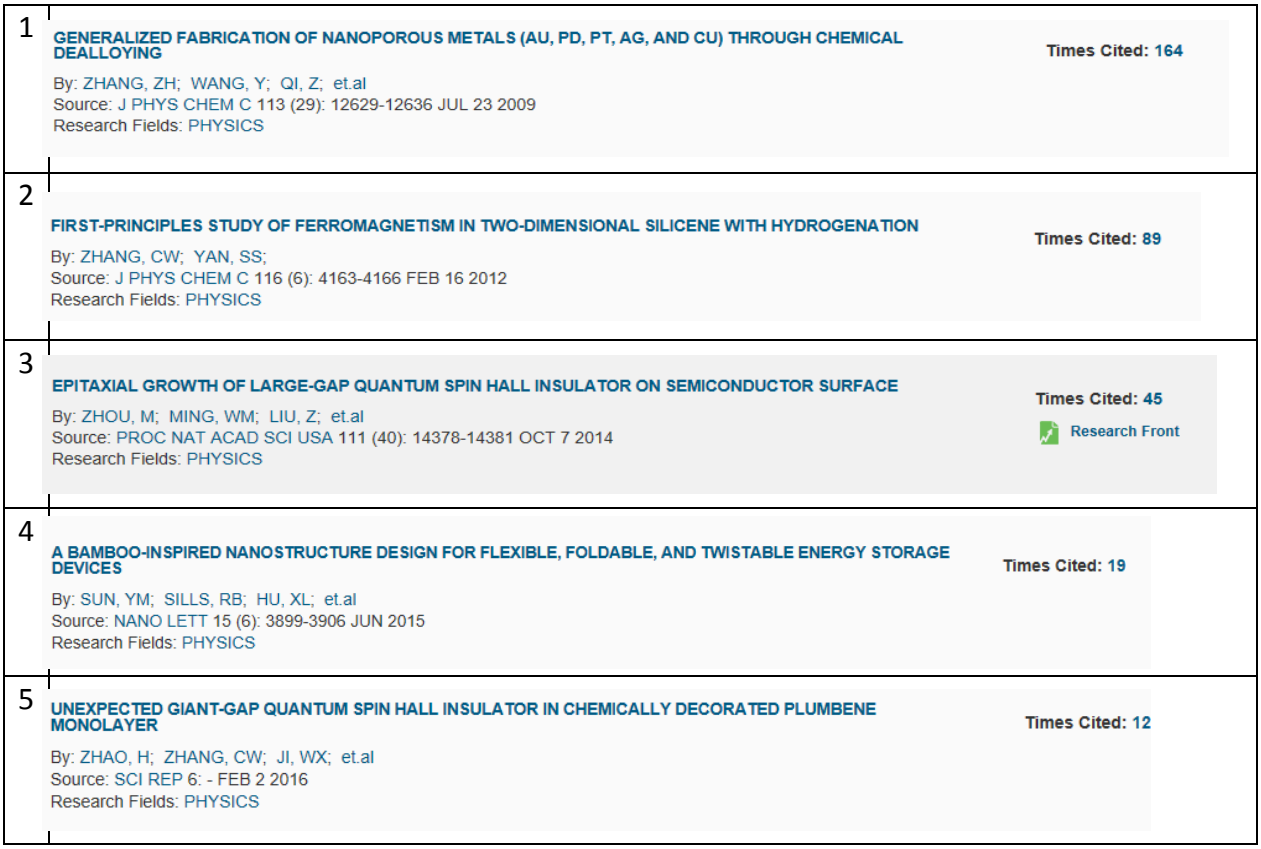

图-12 济南大学物理学高被引论文

详细记录：

1、被引频次 164（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

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DOI: 10.1021/jp811445a

出版年: JUL 23 2009

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

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

文献类型:Article

语种:English

入藏号: WOS:000268139800004

ISSN: 1932-7447

2、被引频次 89（济南大学是第 1 作者和通讯作者单位，物理科学与技术学院）

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

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

查看 ResearcherID 和 ORCID

JOURNAL OF PHYSICAL CHEMISTRY C

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DOI: 10.1021/jp2104177

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

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

文献信息

文献类型:Article

语种:English

入藏号: WOS:000300277800037

ISSN: 1932-7447

3、被引频次 45（济南大学是第 2 作者单位，物理科学与技术学院）

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

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

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

查看 ResearcherID 和 ORCID

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

卷: 111 期: 40 页: 14378-14381

DOI: 10.1073/pnas.1409701111

出版年: OCT 7 2014

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研究方向:Science & Technology - Other Topics

Web of Science 类别:Multidisciplinary Sciences

文献信息

文献类型:Article

语种:English

入藏号: WOS:000342633900032

PubMed ID: 25246584

ISSN: 0027-8424

4、被引频次 19（济南大学是第 7 作者单位，化学化工学院）

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

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

NANO LETTERS

卷: 15 期: 6 页: 3899-3906

DOI: 10.1021/acs.nanolett.5b00738

出版年: JUN 2015

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

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语种:English

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5、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）

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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Web of Science 类别:Multidisciplinary Sciences
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文献类型:Article
语种:English
入藏号: WOS:000369139700001
PubMed ID: 26833133
ISSN: 2045-2322

7.3.2 生物和生物化学学科现状分析

生物和生物化学 2016 年 11 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 45 位的西北农林科技大学，其生物和生物化学学科进入了 ESI 的前 1%行列。我校的生物和生物化学按照 ESI 总被引频次在国内高校排名第 90 位，省内高校第 5 位。

表-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	总被引频次	论文被引百分比	国际合作论文
1	Shanghai Jiao Tong University	3732	0.9	44938	78.51	947
2	Zhejiang University	3324	0.88	37610	80.66	816
3	Peking University	2793	0.99	36714	81.02	848
4	Tsinghua University	2172	1.17	34752	87.15	621
5	Fudan University	2812	0.86	33596	79.84	792
6	Sun Yat Sen University	2082	0.99	26004	79.06	497
7	Shandong University	2403	0.8	22617	75.66	546
8	University of Chinese Academy of Sciences	2081	1.08	19789	78.38	393
9	Wuhan University	1515	0.94	19595	80	347
10	Sichuan University	1808	0.83	17078	77.54	366
11	University of Science & Technology of	1066	1.06	16746	85.18	284

	China					
12	China Agricultural University	1333	0.95	16488	82.9	403
13	Huazhong University of Science & Technology	1621	0.81	15059	78.78	419
14	Nanjing University	1162	0.93	13452	80.46	250
15	South China University of Technology	767	1.42	13242	85.79	171
16	East China University of Science & Technology	1240	0.85	13182	84.27	190
17	Nankai University	1106	0.95	13153	84.09	322
18	Jiangnan University	1406	0.78	12596	81.29	293
19	Central South University	1315	0.74	11952	75.89	345
20	Jilin University	1532	0.68	11399	72.58	430
21	Tongji University	1326	0.86	10915	74.13	323
22	Nanjing Agricultural University	981	0.9	10898	81.65	181
23	Dalian University of Technology	790	0.97	10397	87.34	180
24	Suzhou University	1084	0.86	10359	75.65	277
25	Fourth Military Medical University	962	0.88	10133	80.46	226
26	Xiamen University	914	0.95	10024	80.31	300
27	Harbin Institute of Technology	844	1.31	9963	81.16	258
28	Nanjing Medical University	1139	0.77	9526	73.31	227
29	Tianjin University	795	1	8921	83.02	162
30	Second Military Medical University	1017	0.71	8782	78.66	191
31	Huazhong Agricultural University	949	0.86	8518	79.87	220
32	Southeast University - China	720	0.98	7692	73.33	149
33	Harbin Medical University	933	0.75	7668	76.21	221
34	Ocean University of China	683	0.82	7293	82.87	142
35	Xi'an Jiaotong University	948	0.66	7173	72.78	324
36	Lanzhou University	646	0.79	6820	82.35	79
37	Third Military Medical University	881	0.66	6747	76.16	160
38	Hunan University	349	1.35	6638	88.54	53
39	Capital Medical University	970	0.64	6475	66.39	221
40	Shanghai University	418	1.06	6151	85.65	146
41	Jinan University	664	0.81	6131	81.78	139
42	China Medical University	855	0.62	6087	73.45	239
43	Beijing University of Chemical Technology	451	1.13	6057	83.59	103
44	Southern Medical University - China	717	0.72	5886	72.52	183
45	Northwest A&F University - China	746	0.8	5602	77.48	195
46	Southwest University - China	487	0.91	5575	81.11	109
47	Tianjin Medical University	582	0.85	5457	75.26	149
48	Beijing Normal University	449	0.77	5132	84.86	104
49	Shenzhen University	250	1.35	4955	73.2	77
50	East China Normal University	434	0.92	4833	81.8	184

51	China Pharmaceutical University	600	0.71	4749	80.17	102
52	Zhengzhou University	848	0.53	4439	52	123
53	Nanjing University of Technology	410	0.91	4409	81.71	47
54	Chongqing Medical University	565	0.7	4374	70.97	135
55	Wenzhou Medical University	648	0.58	3844	64.81	207
56	Hunan Normal University	287	0.76	3811	86.06	80
57	University of Electronic Science & Technology of China	182	2.03	3794	75.82	48
58	Donghua University	219	1.32	3735	89.04	117
59	Chongqing University	409	0.81	3578	81.66	108
60	Zhejiang University of Technology	388	0.85	3574	84.02	72
61	Nanchang University	411	0.86	3514	71.05	114
62	Tianjin University Science & Technology	392	0.77	3495	76.28	73
63	South China Normal University	243	0.87	3449	79.42	43
64	Shantou University	316	0.68	3412	84.81	55
65	University Town of Shenzhen	380	1.49	3388	76.84	106
66	Anhui Medical University	445	0.72	3270	65.62	88
67	Nanjing Normal University	336	0.67	3190	83.93	44
68	South China Agricultural University	381	0.71	3135	78.22	81
69	Dalian Medical University	373	0.73	3090	75.07	96
70	Shenyang Pharmaceutical University	293	0.74	3044	84.64	82
71	Sichuan Agricultural University	397	0.75	2957	72.8	79
72	Shanghai University of Traditional Chinese Medicine	279	0.94	2792	75.99	80
73	Northeast Agricultural University - China	416	0.74	2789	75.48	49
74	Jiangsu University	405	0.81	2736	69.63	82
75	Guangxi University	245	0.81	2708	81.22	48
76	Yangzhou University	316	0.81	2687	79.43	59
77	Northeast Forestry University - China	266	0.79	2623	73.31	77
78	Qingdao University of Science & Technology	147	0.89	2621	91.84	17
79	Yunnan University	210	0.64	2472	83.33	51
80	Beijing Forestry University	264	1.11	2463	78.41	54
81	Beijing Institute of Technology	189	0.95	2348	78.84	48
82	Guangzhou Medical University	393	0.72	2325	67.94	71
83	Shanxi University	249	0.68	2306	81.93	41
84	Shandong Agricultural University	250	0.63	2232	81.6	37
85	Northeast Normal University - China	239	0.77	2229	81.17	36
86	Beijing University of Technology	248	0.89	2212	77.42	43
87	Northwest University Xi'an	265	0.66	2155	75.09	52
88	University of South China	275	0.62	2142	74.55	64
89	Hebei Medical University	370	0.52	2100	62.43	88

90	University of Jinan	252	0.96	2072	73.81	39
91	Nantong University	312	0.72	2044	75.32	48
92	Central China Normal University	216	0.89	2025	79.63	67
93	North China University of Science & Technology	114	2.4	2013	71.05	37
94	Peking Union Medical College Hospital	211	0.77	1927	67.77	39
95	Qingdao University	398	0.55	1915	60.55	51
96	Inner Mongolia University	122	0.95	1798	72.95	18
97	Hefei University of Technology	149	1.05	1724	77.85	36
98	Zhejiang Sci-Tech University	193	0.78	1695	81.87	32
99	Shanghai Normal University	142	0.94	1665	81.69	41
100	Fuzhou University	176	0.94	1645	84.66	40

我校生物和生物化学共有 4 篇高被引论文，如图-13 所示：

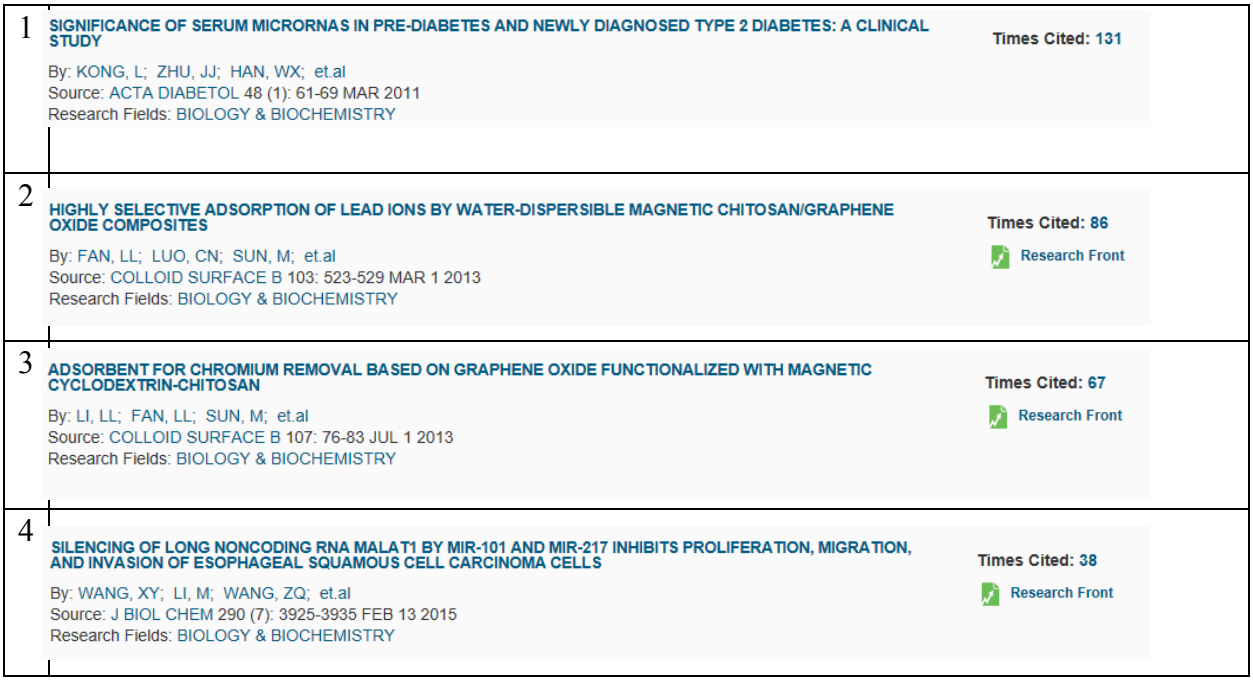

图-13 济南大学生物与生物化学高被引论文

详细记录：

1、被引频次 131（第 4 作者单位山东省肿瘤医院，生命医学院附属医院）

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

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

L (Gao, Ling)[1] 更多内容

ACTA DIABETOLOGICA

卷: 48 期: 1 页: 61-69

DOI: 10.1007/s00592-010-0226-0

出版年: MAR 2011

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摘要

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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 86（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

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DOI: 10.1016/j.colsurfb.2012.11.006

出版年: MAR 1 2013

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研究方向:Biophysics; Chemistry; Materials Science

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

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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 67（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

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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 38（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

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研究方向:Biochemistry & Molecular Biology

Web of Science 类别:Biochemistry & Molecular Biology

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文献类型:Article

语种:English

入藏号: WOS:000349458400004

PubMed ID: 25538231

ISSN: 0021-9258

eISSN: 1083-351X

7.3.3 数学学科现状分析

数学 2016 年 11 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、浙江大学、上海交通大学、北京师范大学、山东大学、东南大学、南开大学。在表-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	总被引频次	论文被引百分比	国际合作论文
1	Peking University	1833	1.09	9529	66.61	605
2	Fudan University	1701	1.09	8200	69.31	524
3	Tsinghua University	1526	1.05	7737	67.96	473
4	Lanzhou University	1022	1.64	7655	73.09	175
5	Shanghai Jiao Tong University	1384	1.17	7111	66.33	435
6	Zhejiang University	1787	0.87	7066	62.28	464
7	Beijing Normal University	1549	1.23	7013	67.91	438
8	Shandong University	1620	1.05	6904	64.01	370
9	Southeast University - China	1100	1.38	6805	64.36	240
10	Nankai University	1547	1.13	6714	66.71	427
11	Harbin Institute of Technology	1354	1.35	6558	62.11	290
12	University of Science & Technology of China	1285	1.14	6298	65.53	438
13	Shanghai University	1248	1.14	6248	67.95	271
14	Sun Yat Sen University	1249	1.05	5885	67.97	328
15	East China Normal University	1448	0.9	5597	64.85	377
16	Shanghai Normal University	933	1.26	5549	69.88	333
17	Xiamen University	1143	1.25	5286	60.98	281
18	Xi'an Jiaotong University	1048	1.1	5257	66.98	228
19	Nanjing University	1240	1.01	5039	64.19	272
20	Dalian University of Technology	1330	0.86	4983	62.86	178
21	Central South University	1062	1.43	4964	64.78	157
22	South China Normal University	1189	0.93	4821	66.02	166
23	Sichuan University	1109	0.95	4577	62.4	252
24	Wuhan University	1128	1.03	4512	65.6	272
25	Huazhong University of Science & Technology	920	1.07	4276	65.54	193
26	Hunan University	781	1.05	3957	64.28	120
27	Zhejiang Normal University	879	1.16	3824	65.19	196
28	Qufu Normal University	710	1.14	3758	64.65	165

29	Donghua University	440	1.82	3722	66.59	90
30	Beijing Institute of Technology	827	1.03	3671	66.75	170
31	Chongqing University	847	1.13	3600	63.87	105
32	Xiangtan University	447	1.77	3580	70.02	95
33	Tianjin Polytechnic University	567	1.44	3477	62.79	197
34	Suzhou University	891	0.98	3315	63.3	167
35	Northeast Normal University - China	644	1.18	3278	64.6	164
36	Nanjing Normal University	980	0.76	3245	57.35	132
37	Tongji University	895	1.03	3128	59.22	159
38	South China University of Technology	628	1.27	3080	59.71	136
39	Jiangnan University	334	1.84	2977	46.71	40
40	Jilin University	914	0.92	2933	58.64	138
41	Fuzhou University	447	1.18	2850	70.25	64
42	University of Electronic Science & Technology of China	656	1.15	2639	63.72	116
43	Central China Normal University	760	1.01	2584	62.11	215
44	Capital Normal University	605	0.99	2572	60.99	160
45	Southwest University - China	615	1.18	2533	59.67	131
46	Beihang University	666	1.24	2230	58.86	133
47	Henan Polytech University	468	1.62	2125	66.88	77
48	Beijing University of Technology	526	0.88	2124	57.22	85
49	China University of Mining & Technology	648	1.02	2050	52.93	77
50	Jiangsu Normal University	549	0.87	2045	60.84	113
51	Yunnan University	504	1.13	2005	64.48	76
52	Beijing Jiaotong University	567	0.97	1984	59.61	140
53	Hunan Normal University	577	0.76	1979	63.78	126
54	Henan Normal University	576	0.9	1969	55.03	64
55	Nanjing University of Aeronautics & Astronautics	608	0.89	1954	56.09	107
56	Anhui University	418	1.43	1949	68.66	48
57	Xinjiang University	513	0.8	1903	58.87	73
58	Northwest Normal University - China	539	0.8	1889	58.63	33
59	Shanxi University	437	0.98	1855	59.5	54
60	Shantou University	274	1.37	1807	66.79	55
61	Nanjing University of Science & Technology	386	1.21	1725	57.77	84
62	Shaanxi Normal University	407	0.94	1722	61.92	57
63	Zhengzhou University	447	0.94	1715	61.74	51
64	Huzhou University	279	1.34	1707	72.76	27
65	Changsha University of Science & Technology	336	1.09	1687	64.88	55
66	Jiangsu University	335	1.19	1658	62.09	46
67	Guangzhou University	360	0.82	1617	51.94	55
68	North China Electric Power University	353	0.96	1614	57.79	61

69	Tianjin University	563	0.96	1591	57.73	78
70	Xidian University	412	0.93	1419	56.55	49
71	Renmin University of China	397	0.95	1371	57.18	120
72	Shandong University of Science & Technology	256	1.21	1353	63.28	18
73	China University of Petroleum	379	0.98	1352	59.89	37
74	Shanghai University of Finance & Economics	390	1.09	1344	54.87	177
75	Hangzhou Normal University	390	0.94	1341	61.79	95
76	Northeastern University - China	363	1.09	1340	51.79	80
77	Harbin Normal University	215	1.11	1336	69.77	61
78	Nanjing University of Information Science & Technology	345	1.03	1288	58.55	69
79	Fujian Normal University	447	0.79	1266	59.28	63
80	Lanzhou Jiaotong University	229	1.18	1266	70.31	42
81	East China University of Science & Technology	323	1.02	1254	56.35	66
82	University of Science & Technology Beijing	230	1.24	1249	61.74	45
83	Yunnan Normal University	205	1.61	1246	66.83	31
84	Beijing University of Posts & Telecommunications	280	1.07	1209	58.93	42
85	Guangxi University	278	0.77	1203	66.19	13
86	Hohai University	396	1	1183	52.78	71
87	Yangzhou University	374	0.83	1135	57.49	72
88	Anhui Normal University	280	0.99	1112	62.5	33
89	Guizhou University	177	1.74	1112	64.41	35
90	Northwest University Xi'an	339	0.71	1107	52.21	26
91	Yantai University	249	1.13	1106	64.26	63
92	Henan University	351	0.82	1068	55.56	48
93	Wenzhou University	264	1.07	1044	65.15	46
94	Jiaxing University	282	1.13	1039	62.06	27
95	Sichuan Normal University	317	0.69	1011	62.78	41
96	Kunming University of Science & Technology	258	1.08	1010	64.73	20
97	Nanchang University	327	0.81	1009	55.05	18
98	Hangzhou Dianzi University	378	0.8	1004	53.17	62
99	University of Jinan	250	1.05	996	57.2	61
100	Jiangxi Normal University	421	0.72	982	53.21	93

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 46（济南大学是第 1 作者和通讯作者单位，数学科学学院）

Positive solutions for boundary value problems of nonlinear fractional differential equations

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

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2、被引频次 43（济南大学是第 2 作者单位，数学科学学院）

Least square regression with indefinite kernels and coefficient regularization

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

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