

# 青岛农业大学 ESI 高水平论文分析 (2008-2018)

——基于 2019 年 3 月数据

ESI 是由世界上著名的学术信息出版机构美国科技信息所 (ISI) 于 2001 年推出的一项文献评价分析工具。是一个基于 SCI (Science Citation Index Expanded, 科学引文索引) 和 SSCI (Social Sciences Citation Index, 社会科学引文索引) 所收录的全球 11000 多种学术期刊的 1000 多万条文献记录而建立的计量分析数据库。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, 按被引频次高低确定出衡量研究绩效的阈值, 分别排出居世界前 1% 的科学家、研究论文和研究机构; 居世界前 1% 的热点论文; 居世界前 50% 的国家/地区和学术期刊。ESI 已成为当今世界范围内普遍用以评价高校、学术机构、国家/地区国际学术水平及影响力的重要评价指标工具之一。

ESI 高水平论文包含高被引论文 (近十年发表的论文被引用频次在同年同学科发表的论文中进入全球前 1%) 和热点论文 (近两年发表的论文且在近两个月中被引频次处于相应学科全球前 1%), 其论文数量是学科影响力和创新力的重要评价指标。

本期 2008 年 1 月 1 日——2018 年 12 月 31 日 11 年的数据中, 我校共有 ESI 高水平论文 20 篇, 比上期增加 1 篇, 其中高被引论文 20 篇, 研究前沿论文 10 篇, 有 15 篇论文发表于 2015——2018 年。分布于工程科学 (5 篇)、植物与动物科学 (5 篇)、化学 (4 篇)、农业科学 (3 篇)、微生物学 (2 篇)、

分子生物与遗传学（1 篇）学科分布如表 1 所示。

表 1 我校 ESI 高水平论文学科分布（2019 年 3 月数据）

	Engineering	Plant & Animal Science	Chemistry	Agricultural Sciences	Microbiology	Molecular Biology & Genetics	Total
Top Papers	5	5	4	3	2	1	20
Highly Cited Papers	5	5	4	3	2	1	20

## 1. Highly Cited Papers

高被引论文，即近十年发表的论文，被引用频次在同年同学科发表的论文中进入全球前 1% 的论文。

本期我校 ESI 高被引论文共 20 篇，比上期增加 1 篇，总被引频次 3050 次，以我校科研学者第一作者发文 7 篇，以通讯作者发文 3 篇，分布于农业科学（3 篇）、工程科学（4 篇）、植物与动物科学（2 篇）和化学（1 篇），我校作者的论文具体信息如表 2 所示，其中第一作者和通讯作者共涉及以下六位：

肖军霞（第一作者），1 篇，农业科学方向，食品科学与工程学院；

马东（第一作者），3 篇，工程科学方向，资源与环境学院；

郑书轩（第一作者），2 篇，植物与动物科学方向，动物医学院；

孙庆杰（通讯作者、第一作者）2 篇，农业科学方向，食品科学与工程学院；

肖剑（通讯作者、第一作者），1 篇，化学方向，化学与药学院；

陈清华（通讯作者、第一作者），1 篇，工程科学方向，资源与环境学院。

表 2 我校 ESI 高被引论文（2019 年 3 月数据）

Documents Result List: Institutions - 'QINGDAO AGRI UNIV' Show –Highly Cited Papers

题名	作者	刊名	研究方向	被引次数	发表年	人员	学院
BIODIESEL PRODUCTION FROM OLEAGINOUS MICROORGANISMS	MENG, X;YANG, JM;XU, X;ZHANG, L;NIE, QJ;XIAN, M	RENEWABLE ENERGY 34 (1): 1-5 JAN 2009	ENGINEERING	502	2009	聂庆娟	外国语学院
ANTIOXIDANT DEFENSE RESPONSES: PHYSIOLOGICAL PLASTICITY IN HIGHER PLANTS UNDER ABIOTIC CONSTRAINTS	JALEEL, CA;RIADH, K;GOPI, R;MANIVANNAN, P;INES, J;AL-JUBURI, H;ZHAO, CX;SHAO, HB;PANNEERSELVAM, R	ACTA PHYSIOL PLANT 31 (3): 427-436 MAY 2009	PLANT & ANIMAL SCIENCE	160	2009	赵长星	农学院
MICROENCAPSULATION OF SWEET ORANGE OIL BY COMPLEX COACERVATION WITH SOYBEAN PROTEIN ISOLATE/GUM ARABIC	XIAO, JX;YU, HY;YANG, JA	FOOD CHEM 125 (4): 1267-1272 APR 14 2011	AGRICULTURAL SCIENCES	105	2011	肖军霞	食品科学与工程学院
ELECTROCHEMICAL BEHAVIOR OF CATECHOL, RESORCINOL AND HYDROQUINONE AT GRAPHENE-CHITOSAN COMPOSITE FILM MODIFIED GLASSY CARBON ELECTRODE AND THEIR SIMULTANEOUS DETERMINATION IN WATER SAMPLES	YIN, HS;ZHANG, QM;ZHOU, YL;MA, QA;LIU, T;ZHU, LS;AI, SY	ELECTROCHIM ACTA 56 (6): 2748-2753 FEB 15 2011	CHEMISTRY	218	2011	张清明	植物医学学院
THE TOMATO GENOME SEQUENCE PROVIDES INSIGHTS INTO FLESHY FRUIT EVOLUTION	SATO, S;...;JIANG, GY;...	NATURE 485 (7400): 635-641 MAY 31 2012	MOLECULAR BIOLOGY & GENETICS	1193	2012	姜国勇	生命科学学院
LABEL-FREE AND ENZYME-FREE HOMOGENEOUS ELECTROCHEMICAL BIOSENSING STRATEGY BASED ON HYBRIDIZATION CHAIN	HOU, T;LI, W;LIU, XJ;LI, F	ANAL CHEM 87 (22): 11368-11374 NOV 17 2015	CHEMISTRY	127	2015	李峰	化学与药

REACTION: A FACILE, SENSITIVE, AND HIGHLY SPECIFIC MICRORNA ASSAY							学院
EVOLUTION OF THE H9N2 INFLUENZA GENOTYPE THAT FACILITATED THE GENESIS OF THE NOVEL H7N9 VIRUS	PU, J;WANG, SG;YIN, YB;...	PROC NAT ACAD SCI USA 112 (2): 548-553 JAN 13 2015	MICROBIOLOGY	97	2015	尹燕博	动物医学院
INVASION BIOLOGY OF SPOTTED WING DROSOPHILA (DROSOPHILA SUZUKII): A GLOBAL PERSPECTIVE AND FUTURE PRIORITIES	ASPLEN, MK;ANFORA, G;BIONDI, A;CHOI, DS;CHU, D;...	J PEST SCI 88 (3): 469-494 SEP 2015	PLANT & ANIMAL SCIENCE	212	2015	褚栋	植物医学学院
SILVER NANOPARTICLES: SYNTHESIS, CHARACTERIZATION, PROPERTIES, APPLICATIONS, AND THERAPEUTIC APPROACHES	ZHANG, XF;LIU, ZG;SHEN, W;GURUNATHAN, S	INT J MOL SCI 17 (9): - SEP 2016	CHEMISTRY	73	2016	沈伟	生命科学学院
FABRICATION OF Z-SCHEME G-C3N4/RGO/BI2WO6 PHOTOCATALYST WITH ENHANCED VISIBLE-LIGHT PHOTOCATALYTIC ACTIVITY	MA, D;WU, J;GAO, MC;XIN, YJ;MA, TJ;SUN, YY	CHEM ENG J 290: 136-146 APR 15 2016	ENGINEERING	82	2016	马东	资源与环境学院
SYNTHESIS OF AU-CUS-TIO2 NANOBELTS PHOTOCATALYST FOR EFFICIENT PHOTOCATALYTIC DEGRADATION OF ANTIBIOTIC OXYTETRACYCLINE	CHEN, QH;WU, SN;XIN, YJ	CHEM ENG J 302: 377-387 OCT 15 2016	ENGINEERING	45	2016	陈清华	资源与环境学院
TRANSCRIPTOMIC ANALYSIS OF TEA PLANT RESPONDING TO DROUGHT STRESS AND RECOVERY	LIU, SC;JIN, JQ;MA, JQ;YAO, MZ;MA, CL;LI, CF;DING, ZT;CHEN, L	PLOS ONE 11 (1): - JAN 20 2016	PLANT & ANIMAL SCIENCE	60	2016	丁兆堂	园艺学院
ENHANCED DEBROMINATION AND DEGRADATION OF 2, 4-DIBROMOPHENOL BY AN Z-SCHEME BI2MOO6/CNTS/G-C3N4 VISIBLE LIGHT PHOTOCATALYST	MA, D;WU, J;GAO, MC;XIN, YJ;CHAI, C	CHEM ENG J 316: 461-470 MAY 15 2017	ENGINEERING	25	2017	马东	资源与环境学院
HYDROTHERMAL SYNTHESIS OF AN ARTIFICIAL Z-SCHEME VISIBLE LIGHT PHOTOCATALYTIC SYSTEM USING REDUCED GRAPHENE OXIDE AS THE ELECTRON MEDIATOR	MA, D;WU, J;GAO, MC;XIN, YJ;SUN, YY;MA, TJ	CHEM ENG J 313: 1567-1576 APR 1 2017	ENGINEERING	23	2017	马东	资源与环境学

COMPREHENSIVE RESISTOME ANALYSIS REVEALS THE PREVALENCE OF NDM AND MCR-1 IN CHINESE POULTRY PRODUCTION	WANG, Y;...;ZHANG, QD;...	NAT MICROBIOL 2 (4): - APR 2017	MICROBIOLOGY	58	2017	张启迪	院 动物医学院
THE OCCURRENCE OF PORCINE CIRCOVIRUS 3 WITHOUT CLINICAL INFECTION SIGNS IN SHANDONG PROVINCE	ZHENG, S;WU, X;ZHANG, L;XIN, C;LIU, Y;SHI, J;PENG, Z;XU, S;FU, F;YU, J;SUN, W;XU, S;LI, J;WANG, J	TRANSBOUNDARY EMERG DIS 64 (5): 1337-1341 OCT 2017	PLANT & ANIMAL SCIENCE	29	2017	郑书轩	动物医学院
PRESENCE OF TORQUE TENO SUS VIRUS 1 AND 2 IN PORCINE CIRCOVIRUS 3-POSITIVE PIGS	ZHENG, S;SHI, J;WU, X;PENG, Z;XIN, C;ZHANG, L;LIU, Y;GAO, M;XU, S;HAN, H;YU, J;SUN, W;CONG, X;LI, J;WANG, J	TRANSBOUNDARY EMERG DIS 65 (2): 327-330 APR 2018	PLANT & ANIMAL SCIENCE	6	2018	郑书轩	动物医学院
ENHANCED DISPERSION STABILITY AND HEAVY METAL ION ADSORPTION CAPABILITY OF OXIDIZED STARCH NANOPARTICLES	LIU, Q;LI, F;LU, H;LI, M;LIU, J;ZHANG, SL;SUN, QJ;XIONG, L	FOOD CHEM 242: 256-263 MAR 1 2018	AGRICULTURAL SCIENCES	11	2018	孙庆杰	食品科学与工程学院
PREPARATION OF A STRONG GELATIN-SHORT LINEAR GLUCAN NANOCOMPOSITE HYDROGEL BY AN IN SITU SELF-ASSEMBLY PROCESS	GE, SJ;LI, M;JI, N;LIU, J;MU, HY;XIONG, L;SUN, QJ	J AGR FOOD CHEM 66 (1): 177-186 JAN 10 2018	AGRICULTURAL SCIENCES	6	2018	孙庆杰	食品科学与工程学院
ORGANOCATALYTIC C(SP(3))-H FUNCTIONALIZATION VIA CARBOCATION-INITIATED CASCADE [1, 5]-HYDRIDE TRANSFER/CYCLIZATION: SYNTHESIS OF DIHYDRODIBENZO[B, E]AZEPINES	LI, SS;ZHOU, L;WANG, L;ZHAO, HL;YU, LP;XIAO, J	ORG LETT 20 (1): 138-141 JAN 5 2018	CHEMISTRY	18	2018	肖建	化学与药学院

20 篇 Top Papers 学院分布如图 1 所示，资源与环境学院、动物医学院均 4 篇，食品科学与工程学院 3 篇，植物医学学院、生命科

学学院和化学与药学院均有 2 篇，其余分布于外国语学院、农学院、园艺学院。

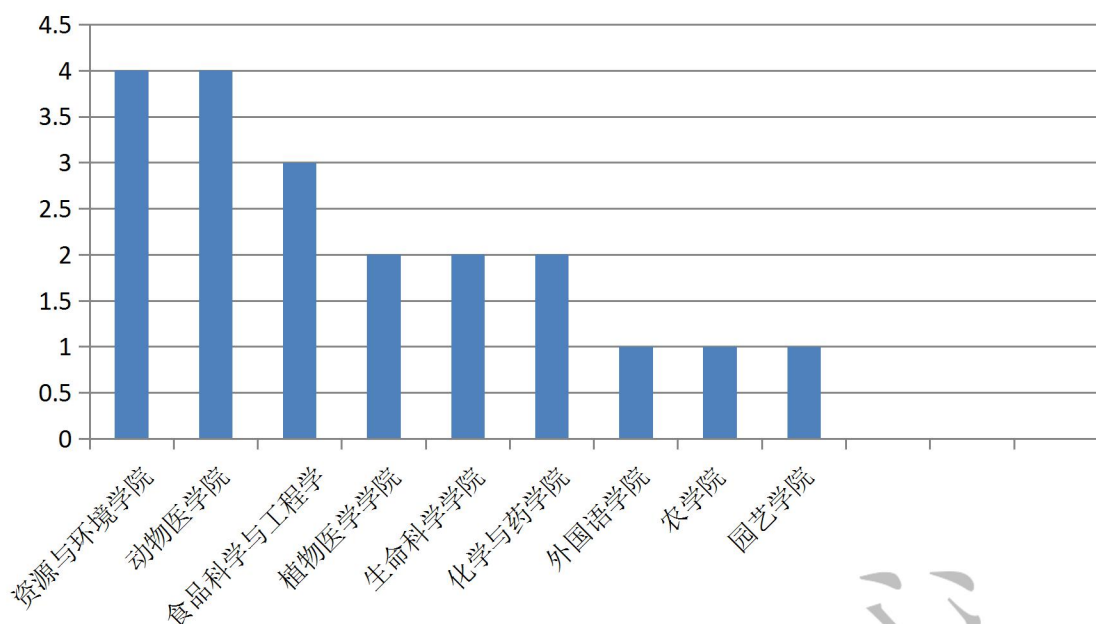


图 1 我校 Highly Cited Papers 学院分布 (2019 年 3 月数据)

## 2. Research Fronts

ESI Research Fronts (研究前沿) 是基于高被引论文共被引聚类得到的论文簇，每一簇包括研究主题相同或相近的若干篇高被引论文。

本期我校共有 10 篇高被引论文为研究前沿析出论文，如表 3 所示，其对应的 Research Fronts 如表 4 所示。

表3 我校 Research Fronts 论文 (2019年3月数据)

Documents Result List: Institutions - 'QINGDAO AGRICULTURAL UNIVERSITY' Show - Research Fronts Papers

Article Name	Authors	Source	ResearchField	Countries	Times Cited	Publication Date
INVASION BIOLOGY OF SPOTTED WING DROSOPHILA (DROSOPHILA SUZUKII): A GLOBAL PERSPECTIVE AND FUTURE PRIORITIES	ASPLEN, MK; ANFORA, G; BIONDI, A; CHOI, DS; <b>CHU, D</b> ; ... 褚栋 (植物医学学院)	J PEST SCI 88 (3): 469-494 SEP 2015	PLANT & ANIMAL SCIENCE	CHINA MAINLAND; USA; SPAIN; SOUTH KOREA; JAPAN; ITALY; HUNGARY; GERMANY (FED REP GER); FRANCE	212	2015
SILVER NANOPARTICLES: SYNTHESIS, CHARACTERIZATION, PROPERTIES, APPLICATIONS, AND THERAPEUTIC APPROACHES	ZHANG, XF; LIU, ZG; <b>SHEN, W</b> ; GURUNATHAN, S 沈伟 (生命科学学院)	INT J MOL SCI 17 (9): - SEP 2016	CHEMISTRY	CHINA MAINLAND; SOUTH KOREA	73	2016
SYNTHESIS OF Au-CUS-TIO2 NANOBELTS PHOTOCATALYST FOR EFFICIENT PHOTOCATALYTIC DEGRADATION OF ANTIBIOTIC OXYTETRACYCLINE	<b>CHEN, QH</b> ; WU, SN; XIN, YJ 陈清华 (资源与环境学院)	CHEM ENG J 302: 377-387 OCT 15 2016	ENGINEERING	CHINA MAINLAND;	45	2016
ENHANCED DEBROMINATION AND DEGRADATION OF 2,4-DIBROMOPHENOL BY AN Z-SCHEME BI2MOO6/CNTS/G-C3N4 VISIBLE LIGHT PHOTOCATALYST	<b>MA, D</b> ; WU, J; GAO, MC; XIN, YJ; CHAI, C 马东 (资源与环境学院)	CHEM ENG J 316: 461-470 MAY 15 2017	ENGINEERING	CHINA MAINLAND	25	2017
COMPREHENSIVE RESISTOME ANALYSIS REVEALS THE PREVALENCE OF NDM AND MCR-1 IN CHINESE POULTRY PRODUCTION	WANG, Y; ...; <b>ZHANG, QD</b> ; ... 张启迪 (动物医学院)	NAT MICROBIOL 2 (4): - APR 2017	MICROBIOLOGY	CHINA MAINLAND; WALES; USA; GERMANY (FED REP GER)	58	2017
THE OCCURRENCE OF PORCINE CIRCOVIRUS 3 WITHOUT CLINICAL INFECTION SIGNS IN SHANDONG PROVINCE	<b>ZHENG, S</b> ; WU, X; ZHANG, L; XIN, C; LIU, Y; SHI, J; PENG, Z; XU, S; FU, F; YU, J; SUN, W; XU, S; LI,	TRANSBOUNDARY EMERG DIS 64 (5): 1337-1341 OCT 2017	PLANT & ANIMAL SCIENCE	CHINA MAINLAND	29	2017

	J;WANG, J 郑书轩 (动物医学院)					
PRESENCE OF TORQUE TENO SUS VIRUS 1 AND 2 IN PORCINE CIRCOVIRUS 3- POSITIVE PIGS	ZHENG, S;SHI, J;WU, X;PENG, Z;XIN, C;ZHANG, L;LIU, Y;GAO, M;XU, S;HAN, H;YU, J;SUN, W;CONG, X;LI, J;WANG, J 郑书轩 (动物医学院)	TRANSBOUNDARY EMERG DIS 65 (2): 327-330 APR 2018	PLANT & ANIMAL SCIENCE	CHINA MAINLAND	6	2018
ENHANCED DISPERSION STABILITY AND HEAVY METAL ION ADSORPTION CAPABILITY OF OXIDIZED STARCH NANOPARTICLES	LIU, Q;LI, F;LU, H;LI, M;LIU, J;ZHANG, SL;SUN, QJ;XIONG, L 孙庆杰 (食品科学与工程学院)	FOOD CHEM 242: 256- 263 MAR 1 2018	AGRICULTURAL SCIENCES	CHINA MAINLAND	11	2018
PREPARATION OF A STRONG GELATIN-SHORT LINEAR GLUCAN NANOCOMPOSITE HYDROGEL BY AN IN SITU SELF-ASSEMBLY PROCESS	GE, SJ;LI, M;JI, N;LIU, J;MU, HY;XIONG, L;SUN, QJ 孙庆杰 (食品科学与工程学院)	J AGR FOOD CHEM 66 (1): 177-186 JAN 10 2018	AGRICULTURAL SCIENCES	CHINA MAINLAND	6	2018
ORGANOCATALYTIC C(SP(3))-H FUNCTIONALIZATION VIA CARBOCATION- INITIATED CASCADE [1,5]-HYDRIDE TRANSFER/CYCLIZATION : SYNTHESIS OF DIHYDRODIBENZO[B, E]A ZEPINES	LI, SS;ZHOU, L;WANG, L;ZHAO, HL;YU, LP;XIAO, J 肖建 (化学与药学院)	ORG LETT 20 (1): 138-141 JAN 5 2018	CHEMISTRY	CHINA MAINLAND	18	2018



表 4 三篇论文对应的 Research Fronts (2019 年 3 月数据)

Research Fronts	Top Papers	Mean Year
INVASIVE PEST DROSOPHILA SUZUKII; ALIEN FRUIT PEST DROSOPHILA SUZUKII; DROSOPHILA SUZUKII MATSUMARA (DIPTERA); DROSOPHILA SUZUKII (DIPTERA); DROSOPHILA SUZUKII POPULATION RESPONSE	28	2015.6
SILVER NANOPARTICLES; BIOCIDAL PROPERTIES; PROPERTIES; THERAPEUTIC APPROACHES; SYNTHESIS	2	2017
EMERGING HUMAN FUNGAL PATHOGEN CANDIDA AURIS; PLASMID-MEDIATED MCR-1 GENE CONFERRING COLISTIN RESISTANCE; MCR-1 ENCODING PLASMID-MEDIATED COLISTIN-RESISTANT ESCHERICHIA COLI ISOLATES; EMERGING MULTIDRUG-RESISTANT PATHOGENIC YEAST CANDIDA AURIS; EMERGING PATHOGEN CANDIDA AURIS PRESENT	50	2016.8
EFFICIENT PHOTOCATALYTIC DEGRADATION; PHOTOCATALYTIC DEGRADATION; INTIMATELY COUPLED PHOTOCATALYTIC-BIOLOGICAL REACTOR; INTIMATELY COUPLED PHOTOCATALYSIS; DEGRADATION	6	2017.2
PORCINE CIRCOVIRUS TYPE 3 (PCV3) INFECTION; PORCINE CIRCOVIRUS TYPE 3 ISOLATES; PORCINE CIRCOVIRUS TYPE 3 RECOVERED; PORCINE CIRCOVIRUS TYPE 3; PORCINE CIRCOVIRUS 3 FIELD STRAINS	15	2017.5
Z-SCHEME BI2MOO6/CNTS/G-C3N4 VISIBLE LIGHT PHOTOCATALYST; Z-SCHEME CDS/G-C3N4 COMPOSITES; POLLUTANT DEGRADATION; DEGRADATION; EFFICIENT PHOTOCATALYTIC H-2 PRODUCTION	2	2017
AMINE C-H FUNCTIONALIZATION; H BOND FUNCTIONALIZATION; ORGANOCATALYTIC C(SP <sup>3</sup> )-H FUNCTIONALIZATION; 5]-HYDRIDE SHIFT/7-ENDO CYCLIZATION SEQUENCES; CARBOCATION-INITIATED CASCADE [1	4	2016
STRONG GELATIN-SHORT LINEAR GLUCAN NANOCOMPOSITE HYDROGEL; HEAVY METAL ION ADSORPTION CAPABILITY; OXIDIZED STARCH NANOPARTICLES; SITU SELF-ASSEMBLY PROCESS; DISPERSION STABILITY	2	2018
PORCINE CIRCOVIRUS TYPE 3 (PCV3) INFECTION; PORCINE CIRCOVIRUS TYPE 3 ISOLATES; PORCINE CIRCOVIRUS TYPE 3 RECOVERED; PORCINE CIRCOVIRUS TYPE 3; PORCINE CIRCOVIRUS 3 FIELD STRAINS	15	2017.5
STRONG GELATIN-SHORT LINEAR GLUCAN NANOCOMPOSITE HYDROGEL; HEAVY METAL ION ADSORPTION CAPABILITY; OXIDIZED STARCH NANOPARTICLES; SITU SELF-ASSEMBLY PROCESS; DISPERSION STABILITY	2	2018

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