长安大学 ESI 月报

（2019 年 11 月 15 日更新数据）

数据统计：图书馆信息部

联系电话：82334377

自 2018 年 5 月起，根据 ESI 数据库的更新时间，长安大学图书馆信息部每单数月份会出具一份《长安大学 ESI 月报》，对我校 ESI 高被引论文、ESI 全球前 1%学科以及我校优势潜力学科的表现力进行分析，以供学校相关职能部门参考，以便教职工查阅。

数据源简介：

Essential Science Indicators（基本科学指标，简称 ESI）是一个基于 Web of Science 核心合集数据库的深度分析型研究工具。ESI 可以确定在某个研究领域有影响力的国家、机构、论文和出版物，以及研究前沿。这种独特而全面的基于论文产出和引文影响力深入分析的数据是政府机构、大学、企业、实验室、出版公司和基金会的决策者、管理者、情报分析人员和信息专家理想的分析资源。通过 ESI，用户可以对科研绩效和发展趋势进行长期的定量分析。基于期刊论文发表数量和引文数据，ESI 提供对 22 个学科研究领域中的国家、机构和期刊的科研绩效统计和科研实力排名。

ESI 高被引论文（Highly Cited Paper）是指在近十多年的论文中按照同一年、同一 ESI 学科论文的被引频次由高到低进行排序，排在前 1%的论文。从理论上讲，如果一篇论文被引频次达到前 1%则说明该论文达到学科较高水平，具有较高的影响力。ESI 热点论文（Hot Paper）：是指近 2 年内发表的论文且在近 2 个月内被引次数排在相应学科领域全球前 1‰以内。

本次数据统计分析时间：2019.11.19

联系电话：029-82334377

2019 年 11 月 15 日，最新一期 ESI 数据更新发表，统计数据覆盖时间范围为 10 年 8 个月（2009.1.1-2019.8.31），与上一期 ESI 数据（9 月）对比，有 6 所新进入 ESI 前 1%的大陆高校：湖南科技大学（化学、工程学）、江西农业大学（植物与动物科学）、成都中医药大学（临床医学、药理学/毒理学）、重庆交通大学（工程学）、南京财经大学（农业科学）、东北财经大学（工程学）。其中，湖南科技大学和成都中医药大学分别有 2 个学科进入 ESI 前 1%。本期 ESI 数据中，拥有 10 个及以上 ESI 前 1%学科的中国大陆高校共有 28 所，其中厦门大学、吉林大学、苏州大学和华南理工大学各新增一个 ESI 前 1%学科。

较 9 月份的数据，中国大陆总共有 30 所高校新增了 ESI 前 1%学科。其中，长安大学的地球科学首次进入 ESI 前 1%。表 1 为这 30 所高校的名称以及新进入的 ESI 前 1%学科名称。

表 1　中国大陆 30 所新增 ESI 前 1%学科的高校以及新进入的 ESI 前 1%学科名称

机构名称	ESI 名称	新增 ESI 学科个数	本期新增 ESI 学科名称
安徽医科大学	ANHUI MEDICAL UNIVERSITY	1	IMMUNOLOGY
北京工业大学	BEIJING UNIVERSITY OF TECHNOLOGY	1	COMPUTER SCIENCE
北京交通大学	BEIJING JIAOTONG UNIVERSITY	1	SOCIAL SCIENCES,GENERAL
北京科技大学	UNIVERSITY OF SCIENCE & TECHNOLOGY	1	ENVIRONMENT/ECOLOGY
北京林业大学	BEIJING FORESTRY UNIVERSITY	1	BIOLOGY & BIOCHEMISTRY
成都中医药大学	CHENGDU UNIVERSITY OF TRADITIONAL CHINESE MEDICINE	2	CLINICAL MEDICINE PHARMACOLOGY & TOXICOLOGY
东北财经大学	DONGBEI UNIVERSITY OF FINANCE & ECONOMICS	1	ENGINEERING
广西医科大学	GUANGXI MEDICAL UNIVERSITY	1	PHARMACOLOGY & TOXICOLOGY
广州医科大学	GUANGZHOU MEDICAL UNIVERSITY	1	MOLECULAR BIOLOGY & GENETICS
哈尔滨工程大学	HARBIN	1	COMPUTER SCIENCE

	ENGINEERING UNIVERSITY		
湖南科技大学	HUNAN UNIVERSITY OF SCIENCE & TECHNOLOGY	2	CHEMISTRY
			ENGINEERING
华南理工大学	SOUTH CHINA UNIVERSITY OF TECHNOLOGY	1	SOCIAL SCIENCES,GENERAL
华南农业大学	SOUTH CHINA AGRICULTURAL UNIVERSITY	1	ENGINEERING
吉林大学	JILIN UNIVERSITY	1	ENVIRONMENT/ECOLOGY
江苏大学	JIANGSU UNIVERSITY	1	BIOLOGY & BIOCHEMISTRY
江西农业大学	JIANGXI AGRICULTURAL UNIVERSITY	1	PLANT & ANIMAL SCIENCE
兰州交通大学	LANZHOU JIAOTONG UNIVERSITY	1	ENGINEERING
南京财经大学	NANJING UNIVERSITY OF FINANCE & ECONOMICS	1	AGRICULTURAL SCIENCES
厦门大学	XIAMEN UNIVERSITY	1	ECONOMICS & BUSINESS
山西大学	SHANXI UNIVERSITY	1	MATERIALS SCIENCE
上海大学	SHANGHAI UNIVERSITY	1	CLINICAL MEDICINE
上海师范大学	SHANGHAI NORMAL UNIVERSITY	1	PLANT & ANIMAL SCIENCE
深圳大学	SHENZHEN UNIVERSITY	1	PHYSICS
苏州大学	SUZHOU UNIVERSITY	1	COMPUTER SCIENCE
温州医科大学	WENZHOU MEDICAL UNIVERSITY	1	NEUROSCIENCE & BEHAVIOR
西北工业大学	NORTHWESTERN POLYTECHNICAL UNIVERSITY	1	PHYSICS
西北农林科技大学	NORTHWEST A & F UNIVERSITY-CHINA	1	MOLECULAR BIOLOGY & GENETICS

西华师范大学	CHINA WEST NORMAL UNIVERSITY	1	ENGINEERING
长安大学	**CHANG`AN UNIVERSITY**	**1**	**GEOSCIENCES**
重庆交通大学	CHONGQING JIAOTONG UNIVERSITY	1	ENGINEERING

下面对长安大学在本次统计数据覆盖时间范围内的表现进行分析。

一．长安大学 ESI 高被引论文情况

在本次 ESI 统计数据覆盖时间范围内，全球位列 ESI 高水平研究机构总数 6214 所，比上期（2019 年 11 月）增加 133 所（上期 6081 所），我校 ESI 排名 2792 位（上期 2863 位）。本期我校有两个 ESI 学科进入全球排名前 1%：工程学和地球科学，其中地球科学为首次进入 ESI 全球前 1%的学科。本期我校 ESI 高被引论文有 96 篇（见表 2），比上期（2019 年 11 月更新数据为 81 篇）增加 15 篇，其中工程学领域高被引论文 36 篇，地球科学领域高被引论文 14 篇。长安大学作为合作单位发表的高被引论文有 20 篇（见表 3）；本期我校热点论文 2 篇，工程学、地球科学领域各 1 篇（见表 4）。我校 96 篇高被引论文的年代分布见图 1。

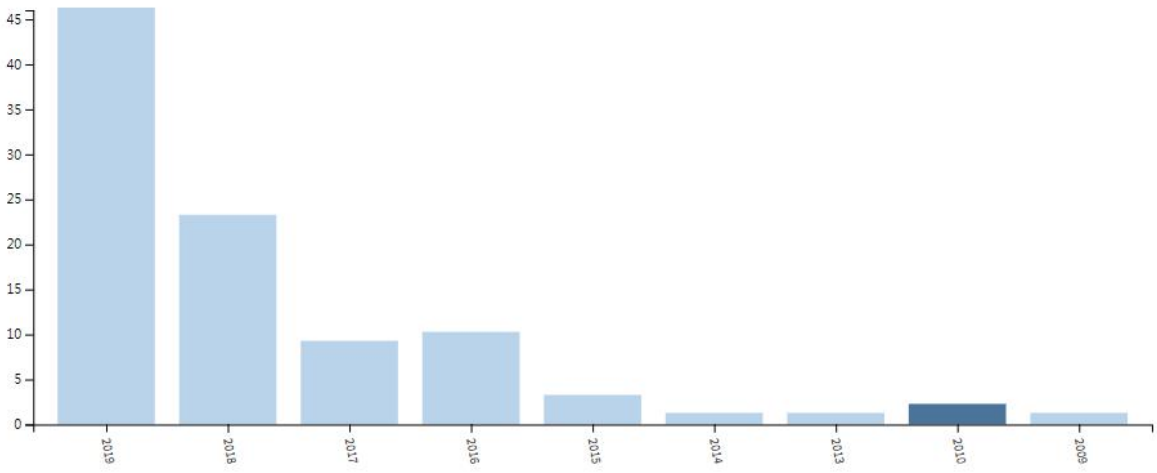

图 1　我校 96 篇高被引论文的年代分布

表 2　长安大学 ESI 高被引论文简况（按 ESI 被引频次排序）

序号	论文名称	WOS 号	作者	来源期刊	ESI 学科	ESI 被引次数
1	COMBUSTION AND PERFORMANCE EVALUATION OF A DIESEL ENGINE FUELED WITH BIODIESEL PRODUCED FROM SOYBEAN CRUDE OIL	000269711300022	QI, DH;GENG, LM;CHEN, H;BIAN, YZ;LIU, J;REN, XC	RENEWABLE ENERGY 34 (12): 2706-2713 DEC 2009	ENGINEERING	178
2	EXPERIMENTAL STUDIES ON THE COMBUSTION CHARACTERISTICS AND PERFORMANCE OF A DIRECT INJECTION ENGINE FUELED WITH BIODIESEL/DIESEL BLENDS	000281339700070	QI, DH;CHEN, H;GENG, LM;BIAN, YZ	ENERGY CONVERSION AND MANAGEMENT 51 (12): 2985-2992 DEC 2010	ENGINEERING	168
3	EVALUATION OF SHALLOW GROUNDWATER CONTAMINATION AND ASSOCIATED HUMAN HEALTH RISK IN AN ALLUVIAL PLAIN IMPACTED BY AGRICULTURAL AND INDUSTRIAL ACTIVITIES, MID-WEST CHINA	000381997600002	WU, JH;SUN, ZC	EXPOSURE AND HEALTH 8 (3): 311-329 SEP 2016	ENVIRONMENT/ECOLOGY	135
4	PERFORMANCE AND COMBUSTION CHARACTERISTICS OF BIODIESEL-DIESEL-METHANOL BLEND FUELLED ENGINE	000274943400022	QI, DH;CHEN, H;GENG, LM;BIAN, YZ;REN, XC	APPLIED ENERGY 87 (5): 1679-1686 MAY 2010	ENGINEERING	129
5	BUILDING A NEW AND SUSTAINABLE SILK ROAD ECONOMIC BELT	000362903400023	LI, PY;QIAN, H;HOWARD, KWF;WU, JH	ENVIRONMENTAL EARTH SCIENCES 74 (10): 7267-7270 NOV 2015	ENVIRONMENT/ECOLOGY	126
6	MICROWAVE-ASSISTED IN SITU SYNTHESIS OF REDUCED GRAPHENE OXIDE-BIVO4 COMPOSITE	000317878400014	YAN, Y;SUN, SF;SONG, Y;YAN, X;GUAN, WS;LIU,	JOURNAL OF HAZARDOUS	ENGINEERING	116

	PHOTOCATALYSTS AND THEIR ENHANCED PHOTOCATALYTIC PERFORMANCE FOR THE DEGRADATION OF CIPROFLOXACIN		XL;SHI, WD	MATERIALS 250: 106-114 APR 15 2013		
7	MICROWAVE SYNTHESIS OF A NOVEL MAGNETIC IMPRINTED TIO2 PHOTOCATALYST WITH EXCELLENT TRANSPARENCY FOR SELECTIVE PHOTODEGRADATION OF ENROFLOXACIN HYDROCHLORIDE RESIDUES SOLUTION	000337554100003	LU, ZY;CHEN, F;HE, M;SONG, MS;MA, ZF;SHI, WD;YAN, YS;LAN, JZ;LI, F;XIAO, P	CHEMICAL ENGINEERING JOURNAL 249: 15-26 AUG 1 2014	ENGINEERING	100
8	HYDROGEOCHEMICAL CHARACTERIZATION OF GROUNDWATER IN AND AROUND A WASTEWATER IRRIGATED FOREST IN THE SOUTHEASTERN EDGE OF THE TENGGER DESERT, NORTHWEST CHINA	000381997600003	LI, PY;WU, JH;QIAN, H;ZHANG, YT;YANG, NA;JING, LJ;YU, PY	EXPOSURE AND HEALTH 8 (3): 331-348 SEP 2016	ENVIRONMENT/ECOLOGY	93
9	URANIUM AND MOLYBDENUM ISOTOPE EVIDENCE FOR AN EPISODE OF WIDESPREAD OCEAN OXYGENATION DURING THE LATE EDIACARAN PERIOD	000352192100010	KENDALL, B;KOMIYA, T;LYONS, TW;BATES, SM;GORDON, GW;ROMANIELLO, SJ;JIANG, GQ;CREASER, RA;XIAO, SH;MCFADDEN, K;SAWAKI, Y;TAHATA, M;SHU, DG;HAN, J;LI, Y;CHU, XL;ANBAR, AD	GEOCHIMICA ET COSMOCHIMICA ACTA 156: 173-193 MAY 1 2015	GEOSCIENCES	93
10	APPRAISING GROUNDWATER QUALITY AND HEALTH RISKS FROM CONTAMINATION IN A SEMIARID REGION OF NORTHWEST CHINA	000381997600005	LI, PY;LI, XY;MENG, XY;LI, MN;ZHANG, YT	EXPOSURE AND HEALTH 8 (3): 361-379 SEP 2016	ENVIRONMENT/ECOLOGY	88

11	HYDROCHEMICAL APPRAISAL OF GROUNDWATER QUALITY FOR DRINKING AND IRRIGATION PURPOSES AND THE MAJOR INFLUENCING FACTORS: A CASE STUDY IN AND AROUND HUA COUNTY, CHINA	000369322200015	LI, PY;WU, JH;QIAN, H	ARABIAN JOURNAL OF GEOSCIENCES 9 (1): - JAN 2016	GEOSCIENCES	80
12	PROGRESS, OPPORTUNITIES, AND KEY FIELDS FOR GROUNDWATER QUALITY RESEARCH UNDER THE IMPACTS OF HUMAN ACTIVITIES IN CHINA WITH A SPECIAL FOCUS ON WESTERN CHINA	000401566600006	LI, PY;TIAN, R;XUE, CY;WU, JH	ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH 24 (15): 13224-13234 MAY 2017	ENVIRONMENT/ECOLOGY	80
13	FOUR STAGES SYMMETRIC TWO-STEP P-STABLE METHOD WITH VANISHED PHASE-LAG AND ITS FIRST, SECOND, THIRD AND FOURTH DERIVATIVES	000378971700008	HUI, F;SIMOS, TE	APPLIED AND COMPUTATIONAL MATHEMATICS 15 (2): 220-238 2016	MATHEMATICS	69
14	A HIGH-ORDER TWO-STEP PHASE-FITTED METHOD FOR THE NUMERICAL SOLUTION OF THE SCHRODINGER EQUATION	000387090000085	ZHANG, W;SIMOS, TE	MEDITERRANEAN JOURNAL OF MATHEMATICS 13 (6): 5177-5194 DEC 2016	MATHEMATICS	68
15	NUTRIENT AND ORGANICS REMOVAL FROM SWINE SLURRY WITH SIMULTANEOUS ELECTRICITY GENERATION IN AN ALUM SLUDGE-BASED CONSTRUCTED WETLAND INCORPORATING MICROBIAL FUEL CELL	000350931600009	DOHERTY, L;ZHAO, YQ;ZHAO, XH;WANG, WK	CHEMICAL ENGINEERING JOURNAL 266: 74-81 APR 15 2015	ENGINEERING	63

	TECHNOLOGY					
16	VIBRATION RESPONSE CHARACTERISTICS OF THE CROSS TUNNEL STRUCTURE	000379610300001	LAI, JX;WANG, KY;QIU, JL;NIU, FY;WANG, JB;CHEN, JX	SHOCK AND VIBRATION : - 2016	ENGINEERING	60
17	IN SITU SYNTHESIS OF Z-SCHEME AG3PO4/CUBI2O4 PHOTOCATALYSTS AND ENHANCED PHOTOCATALYTIC PERFORMANCE FOR THE DEGRADATION OF TETRACYCLINE UNDER VISIBLE LIGHT IRRADIATION	000400584900073	SHI, WL;GUO, F;YUAN, SL	APPLIED CATALYSIS B-ENVIRONMENTAL 209: 720-728 JUL 15 2017	CHEMISTRY	58
18	INVESTIGATION PROGRESSES AND APPLICATIONS OF FRACTIONAL DERIVATIVE MODEL IN GEOTECHNICAL ENGINEERING	000376141900001	LAI, JX;MAO, S;QIU, JL;FAN, HB;ZHANG, Q;HU, ZN;CHEN, JX	MATHEMATICAL PROBLEMS IN ENGINEERING : - 2016	ENGINEERING	55
19	FIBER BRAGG GRATING SENSORS-BASED IN SITU MONITORING AND SAFETY ASSESSMENT OF LOESS TUNNEL	000385100600001	LAI, JX;QIU, JL;FAN, HB;ZHANG, Q;HU, ZN;WANG, JB;CHEN, JX	JOURNAL OF SENSORS : - 2016	ENGINEERING	54
20	CHARACTERISTICS OF SEISMIC DISASTERS AND ASEISMIC MEASURES OF TUNNELS IN WENCHUAN EARTHQUAKE	000393021400036	LAI, JX;HE, SY;QIU, JL;CHEN, JX;WANG, LX;WANG, K;WANG, JB	ENVIRONMENTAL EARTH SCIENCES 76 (2): - JAN 2017	ENVIRONMENT/ECOLOGY	49
21	FINDING HARMONY BETWEEN THE ENVIRONMENT AND HUMANITY: AN INTRODUCTION TO THE THEMATIC ISSUE OF THE SILK ROAD	000393021800008	LI, PY;QIAN, H;ZHOU, WF	ENVIRONMENTAL EARTH SCIENCES 76 (3): - FEB 2017	ENVIRONMENT/ECOLOGY	49
22	MOF-DERIVED POROUS N-CO3O4@N-C NANODODECAHEDRA WRAPPED WITH REDUCED	000424466300041	XU, J;ZHANG, WX;CHEN, Y;FAN, HB;SU, DW;WANG,	JOURNAL OF MATERIALS	MATERIALS SCIENCE	49

	GRAPHENE OXIDE AS A HIGH CAPACITY CATHODE FOR LITHIUM-SULFUR BATTERIES		GX	CHEMISTRY A 6 (6): 2797-2807 FEB 14 2018		
23	LANDSLIDE SUSCEPTIBILITY MODELLING USING GIS-BASED MACHINE LEARNING TECHNIQUES FOR CHONGREN COUNTY, JIANGXI PROVINCE, CHINA	000428194000110	CHEN, W;PENG, JB;HONG, HY;SHAHABI, H;PRADHAN, B;LIU, JZ;ZHU, AX;PEI, XJ;DUAN, Z	SCIENCE OF THE TOTAL ENVIRONMENT 626: 1121-1135 JUN 1 2018	ENVIRONMENT/ECOLOGY	47
24	THE CATASTROPHIC LANDSIDE IN MAOXIAN COUNTY, SICHUAN, SW CHINA, ON JUNE 24, 2017	000415325500026	QIU, JL;WANG, XL;HE, SY;LIU, HQ;LAI, JX;WANG, LX	NATURAL HAZARDS 89 (3): 1485-1493 DEC 2017	GEOSCIENCES	46
25	GIS-BASED LANDSLIDE SUSCEPTIBILITY MODELLING: A COMPARATIVE ASSESSMENT OF KERNEL LOGISTIC REGRESSION, NAIVE-BAYES TREE, AND ALTERNATING DECISION TREE MODELS	000418899200046	CHEN, W;XIE, XS;PENG, JB;WANG, JL;DUAN, Z;HONG, HY	GEOMATICS NATURAL HAZARDS & RISK 8 (2): 950-973 2017	GEOSCIENCES	46
26	SINGLE IMAGE SUPER-RESOLUTION VIA LOCALLY REGULARIZED ANCHORED NEIGHBORHOOD REGRESSION AND NONLOCAL MEANS	000391475200002	JIANG, JJ;MA, X;CHEN, C;LU, T;WANG, ZY;MA, JY	IEEE TRANSACTIONS ON MULTIMEDIA 19 (1): 15-26 JAN 2017	COMPUTER SCIENCE	45
27	RELATIVE VELOCITY DIFFERENCE MODEL FOR THE CAR-FOLLOWING THEORY	000424037200001	YU, SW;TANG, JJ;XIN, Q	NONLINEAR DYNAMICS 91 (3): 1415-1428 FEB 2018	ENGINEERING	45
28	GEOCHEMISTRY, HYDRAULIC CONNECTIVITY AND QUALITY APPRAISAL OF MULTILAYERED GROUNDWATER IN THE HONGDUNZI COAL MINE,	000431882400002	LI, PY;WU, JH;TIAN, R;HE, S;HE, XD;XUE, CY;ZHANG, K	MINE WATER AND THE ENVIRONMENT 37	ENVIRONMENT/ECOLOGY	42

	NORTHWEST CHINA			(2): 222-237 SP. ISS. SI JUN 2018		
29	A NEW HIGH ALGEBRAIC ORDER EFFICIENT FINITE DIFFERENCE METHOD FOR THE SOLUTION OF THE SCHRODINGER EQUATION	000416115500029	DONG, M;SIMOS, TE	FILOMAT 31 (15): 4999-5012 2017	MATHEMATICS	40
30	INVESTIGATING THE LONG-TERM SETTLEMENT OF A TUNNEL BUILT OVER IMPROVED LOESSIAL FOUNDATION SOIL USING JET GROUTING TECHNIQUE	000441684700001	QIU, JL;LIU, HQ;LAI, JX;LAI, HP;CHEN, JX;WANG, K	JOURNAL OF PERFORMANCE OF CONSTRUCTED FACILITIES 32 (5): - OCT 2018	ENGINEERING	39
31	CONJUNCTIVE USE OF GROUNDWATER AND SURFACE WATER TO REDUCE SOIL SALINIZATION IN THE YINCHUAN PLAIN, NORTH-WEST CHINA	000430045800002	LI, PY;QIAN, H;WU, JH	INTERNATIONAL JOURNAL OF WATER RESOURCES DEVELOPMENT 34 (3): 337-353 SP. ISS. SI 2018	ENVIRONMENT/ECOLOGY	37
32	A STATE-OF-THE-ART REVIEW OF SUSTAINABLE ENERGY BASED FREEZE PROOF TECHNOLOGY FOR COLD-REGION TUNNELS IN CHINA	000418574800110	LAI, JX;WANG, XL;QIU, JL;ZHANG, GZ;CHEN, JX;XIE, YL;LUO, YB	RENEWABLE & SUSTAINABLE ENERGY REVIEWS 82: 3554-3569 PART 3 FEB 2018	ENVIRONMENT/ECOLOGY	37
33	ON VIBRATIONS OF NONLOCAL RODS: BOUNDARY CONDITIONS, EXACT SOLUTIONS AND THEIR ASYMPTOTICS	000408286000016	XU, XJ;ZHENG, ML;WANG, XC	INTERNATIONAL JOURNAL OF ENGINEERING	ENGINEERING	36

				SCIENCE 119: 217-231 OCT 2017		
34	RESPONSE CHARACTERISTICS AND PREVENTIONS FOR SEISMIC SUBSIDENCE OF LOESS IN NORTHWEST CHINA	000433913500032	QIU, JL;WANG, XL;LAI, JX;ZHANG, Q;WANG, JB	NATURAL HAZARDS 92 (3): 1909-1935 JUL 2018	GEOSCIENCES	36
35	IMPACTS ANALYSIS OF CAR FOLLOWING MODELS CONSIDERING VARIABLE VEHICULAR GAP POLICIES	000430027500031	XIN, Q;YANG, N;FU, R;YU, SW;SHI, ZK	PHYSICA A-STATISTICAL MECHANICS AND ITS APPLICATIONS 501: 338-355 JUL 1 2018	PHYSICS	36
36	HUMAN HEALTH RISK ASSESSMENT OF GROUNDWATER NITROGEN POLLUTION IN JINGHUI CANAL IRRIGATION AREA OF THE LOESS REGION, NORTHWEST CHINA	000429985900018	ZHANG, YT;WU, JH;XU, B	ENVIRONMENTAL EARTH SCIENCES 77 (7): - APR 2018	ENVIRONMENT/ECOLOGY	33
37	GIS-BASED LANDSLIDE SUSCEPTIBILITY EVALUATION USING A NOVEL HYBRID INTEGRATION APPROACH OF BIVARIATE STATISTICAL BASED RANDOM FOREST METHOD	000430031800015	CHEN, W;XIE, XS;PENG, JB;SHAHABI, H;HONG, HY;BUI, DT;DUAN, Z;LI, SJ;ZHU, AX	CATENA 164: 135-149 MAY 2018	AGRICULTURAL SCIENCES	32
38	SIMPLE METHOD TO PREDICT GROUND DISPLACEMENTS CAUSED BY INSTALLING HORIZONTAL JET-GROUTING COLUMNS	000424800500001	WANG, ZF;SHEN, JS;CHENG, WC	MATHEMATICAL PROBLEMS IN ENGINEERING : - 2018	ENGINEERING	30
39	COO AND G-C3N4 COMPLEMENT EACH OTHER FOR HIGHLY EFFICIENT OVERALL WATER SPLITTING	000425476800043	GUO, F;SHI, WL;ZHU, C;LI, H;KANG, ZH	APPLIED CATALYSIS	CHEMISTRY	29

	UNDER VISIBLE LIGHT			B-ENVIRONMENTAL 226: 412-420 JUN 15 2018		
40	A STUDY ON THE MECHANICAL BEHAVIOR AND STATISTICAL DAMAGE CONSTITUTIVE MODEL OF SANDSTONE	000443205500012	WANG, JB;SONG, ZP;ZHAO, BY;LIU, XR;LIU, J;LAI, JX	ARABIAN JOURNAL FOR SCIENCE AND ENGINEERING 43 (10): 5179-5192 OCT 2018	ENGINEERING	28
41	GLOBAL ASYMPTOTIC STABILITY OF CNNS WITH IMPULSES AND MULTI-PROPORTIONAL DELAYS	000370234600010	SONG, XL;ZHAO, P;XING, ZW;PENG, JG	MATHEMATICAL METHODS IN THE APPLIED SCIENCES 39 (4): 722-733 MAR 2016	MATHEMATICS	27
42	DISTRIBUTION AND CHARACTERISTICS OF LANDSLIDE IN LOESS PLATEAU: A CASE STUDY IN SHAANXI PROVINCE	000430028000010	ZHUANG, JQ;PENG, JB;WANG, GH;JAVED, I;WANG, Y;LI, W	ENGINEERING GEOLOGY 236: 89-96 SP. ISS. SI MAR 26 2018	GEOSCIENCES	26
43	INVESTIGATION INTO GEOHAZARDS DURING URBANIZATION PROCESS OF XIAN, CHINA	000433913500033	WANG, ZF;CHENG, WC;WANG, YQ	NATURAL HAZARDS 92 (3): 1937-1953 JUL 2018	GEOSCIENCES	26
44	EXTREME DEFORMATION CHARACTERISTICS AND COUNTERMEASURES FOR A TUNNEL IN DIFFICULT GROUNDS IN SOUTHERN SHAANXI, CHINA	000446842900001	LAI, JX;WANG, XL;QIU, JL;CHEN, JX;HU, ZN;WANG, H	ENVIRONMENTAL EARTH SCIENCES 77 (19): - OCT 2018	ENVIRONMENT/ECOLOGY	26
45	SEASONAL HYDROCHEMICAL CHARACTERIZATION AND GROUNDWATER	000449851900003	LI, PY;HE, S;HE, XD;TIAN, R	EXPOSURE AND HEALTH 10 (4):	ENVIRONMENT/ECOLOGY	26

	QUALITY DELINEATION BASED ON MATTER ELEMENT EXTENSION ANALYSIS IN A PAPER WASTEWATER IRRIGATION AREA, NORTHWEST CHINA			241-258 DEC 2018		
46	OCCURRENCE AND HEALTH IMPLICATION OF FLUORIDE IN GROUNDWATER OF LOESS AQUIFER IN THE CHINESE LOESS PLATEAU: A CASE STUDY OF TONGCHUAN, NORTHWEST CHINA	000469217300003	LI, PY;HE, XD;LI, Y;XIANG, G	EXPOSURE AND HEALTH 11 (2): 95-107 SP. ISS. SI JUN 2019	ENVIRONMENT/ECOLOGY	25
47	SOLUTE GEOCHEMISTRY AND MULTIVARIATE ANALYSIS OF WATER QUALITY IN THE GUOHUA PHOSPHORITE MINE, GUIZHOU PROVINCE, CHINA	000469217300002	LI, PY;TIAN, R;LIU, R	EXPOSURE AND HEALTH 11 (2): 81-94 SP. ISS. SI JUN 2019	ENVIRONMENT/ECOLOGY	24
48	DISPLACEMENT AND STRESS CHARACTERISTICS OF TUNNEL FOUNDATION IN COLLAPSIBLE LOESS GROUND REINFORCED BY JET GROUTING COLUMNS	000446014000001	LI, YY;XU, SS;LIU, HQ;MA, EL;WANG, LX	ADVANCES IN CIVIL ENGINEERING : - 2018	ENGINEERING	23
49	STUDY ON HIGHLY ENHANCED PHOTOCATALYTIC TETRACYCLINE DEGRADATION OF TYPE II AGI/CUBI2O4 AND Z-SCHEME AGBR/CUBI2O4 HETEROJUNCTION PHOTOCATALYSTS	000428101400013	GUO, F;SHI, WL;WANG, HB;HAN, MM;GUAN, WS;HUANG, H;LIU, Y;KANG, ZH	JOURNAL OF HAZARDOUS MATERIALS 349: 111-118 MAY 5 2018	ENGINEERING	21
50	CHALLENGES AND PROSPECTS OF SUSTAINABLE GROUNDWATER MANAGEMENT IN AN AGRICULTURAL PLAIN ALONG THE SILK ROAD ECONOMIC BELT, NORTH-WEST CHINA	000430045800003	CHEN, J;WU, H;QIAN, H;LI, XY	INTERNATIONAL JOURNAL OF WATER RESOURCES DEVELOPMENT 34	ENVIRONMENT/ECOLOGY	21

				(3): 354-368 SP. ISS. SI 2018		
51	LANDSLIDE SUSCEPTIBILITY MODELING BASED ON GIS AND NOVEL BAGGING-BASED KERNEL LOGISTIC REGRESSION	000455145000208	CHEN, W;SHAHABI, H;ZHANG, S;KHOSRAVI, K;SHIRZADI, A;CHAPI, K;PHAM, BT;ZHANG, TY;ZHANG, LY;CHAI, HC;MA, JQ;CHEN, YT;WANG, XJ;LI, RW;BIN AHMAD, B	APPLIED SCIENCES-BASEL 8 (12): - DEC 2018	ENGINEERING	20
52	STRUCTURAL RESPONSE OF THE METRO TUNNEL UNDER LOCAL DYNAMIC WATER ENVIRONMENT IN LOESS STRATA	000459674700001	QIU, JL;QIN, YW;LAI, JX;WANG, K;NIU, FY;WANG, H;ZHANG, GL	GEOFLUIDS : - 2019	GEOSCIENCES	20
53	HYDROGEOCHEMICAL CHARACTERISTICS, GROUNDWATER QUALITY, AND HEALTH RISKS FROM HEXAVALENT CHROMIUM AND NITRATE IN GROUNDWATER OF HUANHE FORMATION IN WUQI COUNTY, NORTHWEST CHINA	000469217300005	HE, S;WU, JH	EXPOSURE AND HEALTH 11 (2): 125-137 SP. ISS. SI JUN 2019	ENVIRONMENT/ECOLOGY	19
54	HYDROCHEMICAL CHARACTERISTICS AND QUALITY EVALUATION OF GROUNDWATER IN TERMS OF HEALTH RISKS IN LUOHE AQUIFER IN WUQI COUNTY OF THE CHINESE LOESS PLATEAU, NORTHWEST CHINA	000473500400003	HE, XD;WU, JH;HE, S	HUMAN AND ECOLOGICAL RISK ASSESSMENT 25 (1-2): 32-51 SP. ISS. SI FEB 17 2019	ENVIRONMENT/ECOLOGY	17
55	NATURE AND ORIGIN OF TRIASSIC IGNEOUS ACTIVITY IN THE WESTERN QINLING OROGEN:	000418932900006	QIU, KF;YU, HC;GOU, ZY;LIANG, ZL;ZHANG,	INTERNATIONAL GEOLOGY REVIEW	GEOSCIENCES	16

	THE WENQUAN COMPOSITE PLUTON EXAMPLE		JL;ZHU, R	60 (2): 242-266 2018		
56	EVALUATION OF GROUNDWATER CONTAMINATION FOR FLUORIDE AND NITRATE IN SEMI-ARID REGION OF NIRMAL PROVINCE, SOUTH INDIA: A SPECIAL EMPHASIS ON HUMAN HEALTH RISK ASSESSMENT (HHRA)	000474494500003	ADIMALLA, N;LI, PY;QIAN, H	HUMAN AND ECOLOGICAL RISK ASSESSMENT 25 (5): 1107-1124 JUL 4 2019	ENVIRONMENT/ECOLOGY	15
57	PARTICLE SIZE DISTRIBUTION EFFECTS ON DEFORMATION PROPERTIES OF GRADED AGGREGATE BASE UNDER CYCLIC LOADING	000466179000001	LIN, H;WANG, H;FAN, X;CAO, P;ZHOU, KF	EUROPEAN JOURNAL OF ENVIRONMENTAL AND CIVIL ENGINEERING 23 (3): 269-286 MAR 4 2019	ENGINEERING	14
58	STATISTICAL ANALYSIS OF FIRE ACCIDENTS IN CHINESE HIGHWAY TUNNELS 2000-2016	000454963800039	REN, R;ZHOU, H;HU, Z;HE, SY;WANG, XL	TUNNELLING AND UNDERGROUND SPACE TECHNOLOGY 83: 452-460 JAN 2019	ENGINEERING	13
59	A REVIEW ON LAND SUBSIDENCE CAUSED BY GROUNDWATER WITHDRAWAL IN XIAN, CHINA	000468075000045	WANG, YQ;WANG, ZF;CHENG, WC	BULLETIN OF ENGINEERING GEOLOGY AND THE ENVIRONMENT 78 (4): 2851-2863 JUN 2019	GEOSCIENCES	13
60	REVIEW OF THE FLAME RETARDANCY ON	000457659600044	QIU, JL;YANG, T;WANG,	CONSTRUCTION	MATERIALS	13

	HIGHWAY TUNNEL ASPHALT PAVEMENT		XL;WANG, LX;ZHANG, GL	AND BUILDING MATERIALS 195: 468-482 JAN 20 2019	SCIENCE	
61	TRAFFIC FLOW PREDICTION DURING THE HOLIDAYS BASED ON DFT AND SVR	000469291700001	LUO, XL;LI, DY;ZHANG, SR	JOURNAL OF SENSORS : - 2019	ENGINEERING	11
62	DYNAMIC FAILURE MODE AND DYNAMIC RESPONSE OF HIGH SLOPE USING SHAKING TABLE TEST	000464817300001	ZHOU, ZJ;REN, CN;XU, GJ;ZHAN, HC;LIU, T	SHOCK AND VIBRATION : - 2019	ENGINEERING	11
63	A NEW SOIL-WATER CHARACTERISTIC CURVE MODEL FOR UNSATURATED LOESS BASED ON WETTING-INDUCED PORE DEFORMATION	000466352700001	ZHANG, YW;SONG, ZP;WENG, XL;XIE, YL	GEOFLUIDS : - 2019	GEOSCIENCES	11
64	EFFECTS OF THE PREVISION RELATIVE VELOCITY ON TRAFFIC DYNAMICS IN THE ACC STRATEGY	000452941100019	WU, X;ZHAO, XM;SONG, HS;XIN, Q;YU, SW	PHYSICA A-STATISTICAL MECHANICS AND ITS APPLICATIONS 515: 192-198 FEB 1 2019	PHYSICS	10
65	EFFECTS OF MATERIAL CHARACTERISTICS ON ASPHALT AND FILLER INTERACTION ABILITY	000468989700007	ZHANG, JP;LI, XQ;LIU, GQ;PEI, JZ	INTERNATIONAL JOURNAL OF PAVEMENT ENGINEERING 20 (8): 928-937 AUG 3 2019	ENGINEERING	10
66	INFLUENCE OF GROUND TEMPERATURE ON SHOTCRETE-TO-ROCK ADHESION IN TUNNELS	000471870400001	DUAN, LM;ZHANG, YH;LAI, JX	ADVANCES IN MATERIALS	MATERIALS SCIENCE	10

				SCIENCE AND ENGINEERING : - 2019		
67	OCCURRENCE, HEALTH RISKS, AND GEOCHEMICAL MECHANISMS OF FLUORIDE AND NITRATE IN GROUNDWATER OF THE ROCK-DOMINANT SEMI-ARID REGION, TELANGANA STATE, INDIA	000473500400005	ADIMALLA, N;LI, PY	HUMAN AND ECOLOGICAL RISK ASSESSMENT 25 (1-2): 81-103 SP. ISS. SI FEB 17 2019	ENVIRONMENT/ECOLOGY	10
68	PUBLIC ACCEPTANCE OF FULLY AUTOMATED DRIVING: EFFECTS OF SOCIAL TRUST AND RISK/BENEFIT PERCEPTIONS	000458171100005	LIU, P;YANG, R;XU, ZG	RISK ANALYSIS 39 (2): 326-341 SP. ISS. SI FEB 2019	SOCIAL SCIENCES, GENERAL	10
69	THE RELATION BETWEEN WORKING CONDITIONS, ABERRANT DRIVING BEHAVIOUR AND CRASH PROPENSITY AMONG TAXI DRIVERS IN CHINA	000466830500004	WANG, YG;LI, LC;PRATO, CG	ACCIDENT ANALYSIS AND PREVENTION 126: 17-24 SP. ISS. SI MAY 2019	SOCIAL SCIENCES, GENERAL	9
70	SPATIAL GROUNDWATER QUALITY AND POTENTIAL HEALTH RISKS DUE TO NITRATE INGESTION THROUGH DRINKING WATER: A CASE STUDY IN YANAN CITY ON THE LOESS PLATEAU OF NORTHWEST CHINA	000473500400002	LI, PY;HE, XD;GUO, WY	HUMAN AND ECOLOGICAL RISK ASSESSMENT 25 (1-2): 11-31 SP. ISS. SI FEB 17 2019	ENVIRONMENT/ECOLOGY	9
71	MODELING OF LOESS SOAKING INDUCED IMPACTS ON A METRO TUNNEL USING A WATER SOAKING SYSTEM IN CENTRIFUGE	000468457700001	ZHANG, YW;WENG, XL;SONG, ZP;SUN, YF	GEOFLUIDS : - 2019	GEOSCIENCES	9
72	GROUNDWATER QUALITY FOR DRINKING AND	000469217300004	ADIMALLA, N	EXPOSURE AND	ENVIRONMENT/EC	9

	IRRIGATION PURPOSES AND POTENTIAL HEALTH RISKS ASSESSMENT: A CASE STUDY FROM SEMI-ARID REGION OF SOUTH INDIA			HEALTH 11 (2): 109-123 SP. ISS. SI JUN 2019	OLOGY	
73	SPATIOTEMPORAL TRAFFIC FLOW PREDICTION WITH KNN AND LSTM	000460891500001	LUO, XL;LI, DY;YANG, Y;ZHANG, SR	JOURNAL OF ADVANCED TRANSPORTATION : - 2019	ENGINEERING	9
74	HOW SAFE IS SAFE ENOUGH FOR SELF-DRIVING VEHICLES?	000458171100004	LIU, P;YANG, R;XU, ZG	RISK ANALYSIS 39 (2): 315-325 SP. ISS. SI FEB 2019	SOCIAL SCIENCES, GENERAL	9
75	SEISMIC RESPONSE OF AEOLIAN SAND HIGH EMBANKMENT SLOPES IN SHAKING TABLE TESTS	000467316400162	ZHOU, ZJ;LEI, JT;SHI, SB;LIU, T	APPLIED SCIENCES-BASEL 9 (8): - APR 2 2019	ENGINEERING	8
76	TYPHOON TRIGGERED OPERATION TUNNEL DEBRIS FLOW DISASTER IN COASTAL AREAS OF SE CHINA	000455439200001	REN, R;YU, DQ;WANG, LX;WANG, K;WANG, H;HE, SY	GEOMATICS NATURAL HAZARDS & RISK 10 (1): 562-575 JAN 1 2019	GEOSCIENCES	8
77	PONTRYAGINS MINIMUM PRINCIPLE BASED MODEL PREDICTIVE CONTROL OF ENERGY MANAGEMENT FOR A PLUG-IN HYBRID ELECTRIC BUS	000458712500069	XIE, SB;HU, XS;XIN, ZK;BRIGHTON, J	APPLIED ENERGY 236: 893-905 FEB 15 2019	ENGINEERING	8
78	THE EFFECT OF DIRECT-TO-PLANT STYRENE-BUTADIENE-STYRENE BLOCK COPOLYMER COMPONENTS ON BITUMEN	000457202000140	ZHANG, WG;JIA, ZR;ZHANG, YX;HU, K;DING, LT;WANG, F	POLYMERS 11 (1): - JAN 2019	CHEMISTRY	8

	MODIFICATION					
79	INTEGRATED MULTI-OBJECTIVE STOCHASTIC FUZZY PROGRAMMING AND AHP METHOD FOR AGRICULTURAL WATER AND LAND OPTIMIZATION ALLOCATION UNDER MULTIPLE UNCERTAINTIES	000456762600002	REN, CF;LI, ZH;ZHANG, HB	JOURNAL OF CLEANER PRODUCTION 210: 12-24 FEB 10 2019	ENGINEERING	8
80	PHOTOLUMINESCENT LIGNIN HYBRIDIZED CARBON QUANTUM DOTS COMPOSITES FOR BIOIMAGING APPLICATIONS	000456226700105	XUE, BL;YANG, Y;SUN, YC;FAN, JS;LI, XP;ZHANG, Z	INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES 122: 954-961 FEB 1 2019	BIOLOGY & BIOCHEMISTRY	8
81	METHANE EXPLOSION ACCIDENTS OF TUNNELS IN SW CHINA	000456347600001	HE, SY;SU, LJ;FAN, HB;REN, R	GEOMATICS NATURAL HAZARDS & RISK 10 (1): 667-677 JAN 1 2019	GEOSCIENCES	8
82	SETTLEMENT CHARACTERISTICS OF JACKED BOX TUNNELING UNDERNEATH A HIGHWAY EMBANKMENT	000482851400010	WANG, ZC;HU, Z;LAI, JX;WANG, H;WANG, K;ZAN, WB	JOURNAL OF PERFORMANCE OF CONSTRUCTED FACILITIES 33 (2): - APR 2019	ENGINEERING	8
83	SPREADING SPEEDS AND TRAVELING WAVES FOR SPACE-TIME PERIODIC NONLOCAL DISPERSAL COOPERATIVE SYSTEMS	000446348800019	BAO, XX;SHEN, WX;SHEN, ZW	COMMUNICATIONS ON PURE AND APPLIED ANALYSIS	MATHEMATICS	8

				18 (1): 361-396 JAN 2019		
84	NUMERICAL ANALYSIS OF THE COMPRESSIVE AND SHEAR FAILURE BEHAVIOR OF ROCK CONTAINING MULTI-INTERMITTENT JOINTS	000455001900003	FAN, X;LIN, H;LAI, HP;CAO, RH;LIU, J	COMPTES RENDUS MECANIQUE 347 (1): 33-48 JAN 2019	ENGINEERING	8
85	ENHANCING DISCHARGE OF SPOIL TO MITIGATE DISTURBANCE INDUCED BY HORIZONTAL JET GROUTING IN CLAYEY SOIL: THEORETICAL MODEL AND APPLICATION	000469160500020	WANG, ZF;SHEN, SL;MODONI, G	COMPUTERS AND GEOTECHNICS 111: 222-228 JUL 2019	COMPUTER SCIENCE	8
86	CHARACTERIZING HETEROGENEITY OF ASPHALT MIXTURE BASED ON AGGREGATE PARTICLES MOVEMENTS	000464705600009	ZHANG, JP;LI, XQ;MA, WS;PEI, JZ	IRANIAN JOURNAL OF SCIENCE AND TECHNOLOGY-TRANSACTIONS OF CIVIL ENGINEERING 43 (1): 81-91 MAR 2019	ENGINEERING	7
87	CHARACTERISTICS OF DEW FORMATION IN THE SEMI-ARID LOESS PLATEAU OF CENTRAL SHAANXI PROVINCE, CHINA	000459735100124	JIA, ZF;WANG, Z;WANG, H	WATER 11 (1): - JAN 2019	ENVIRONMENT/ECOLOGY	7
88	STATISTICAL ANALYSIS OF INFLUENCE OF COVER DEPTH ON LOESS TUNNEL DEFORMATION IN NW CHINA	000458959700001	HU, Z;DU, K;LAI, JX;XIE, YL	ADVANCES IN CIVIL ENGINEERING : - 2019	ENGINEERING	7
89	FREE VIBRATION OF NONLOCAL TIMOSHENKO BEAMS MADE OF FUNCTIONALLY GRADED	000457206000020	ZHANG, K;GE, MH;ZHAO, C;DENG, ZC;XU, XJ	COMPOSITES PART B-ENGINEERING	MATERIALS SCIENCE	7

	MATERIALS BY SYMPLECTIC METHOD			156: 174-184 JAN 1 2019		
90	STUDY ON COMBUSTION CHARACTERISTICS AND PARTICULATE EMISSIONS OF A COMMON-RAIL DIESEL ENGINE FUELED WITH N-BUTANOL AND WASTE COOKING OIL BLENDS	000469152800004	GENG, LM;CHEN, Y;CHEN, XB;LEE, CFF	JOURNAL OF THE ENERGY INSTITUTE 92 (3): 438-449 JUN 2019	ENGINEERING	7
91	PREDICTIVE VEHICLE-FOLLOWING POWER MANAGEMENT FOR PLUG-IN HYBRID ELECTRIC VEHICLES	000455694300058	XIE, SB;HU, XS;LIU, T;QI, SW;LANG, K;LI, HL	ENERGY 166: 701-714 JAN 1 2019	ENGINEERING	7
92	SUPPORT SYSTEM FOR TUNNELLING IN SQUEEZING GROUND OF QINGLING-DABA MOUNTAINOUS AREA: A CASE STUDY FROM SOFT ROCK TUNNELS	000471865100001	WANG, XL;LAI, JX;GARNES, RS;LUO, YB	ADVANCES IN CIVIL ENGINEERING : - 2019	ENGINEERING	7
93	OPTIMIZATION ANALYSIS OF SETTLEMENT PARAMETERS FOR POSTGROUTING PILES IN LOESS AREA OF SHAANXI, CHINA	000466288900001	ZHOU, ZJ;ZHU, SS;KONG, X;LEI, JT;LIU, T	ADVANCES IN CIVIL ENGINEERING : - 2019	ENGINEERING	7
94	URBAN TRANSPORT CARBON DIOXIDE (CO2) EMISSIONS BY COMMUTERS IN RAPIDLY DEVELOPING CITIES: THE COMPARATIVE STUDY OF BEIJING AND XIAN IN CHINA	000466455900007	YANG, L;WANG, YQ;HAN, SS;LIU, YY	TRANSPORTATION RESEARCH PART D-TRANSPORT AND ENVIRONMENT 68: 65-83 SP. ISS. SI MAR 2019	SOCIAL SCIENCES, GENERAL	6
95	INVESTIGATION ON COMBUSTION AND EMISSION CHARACTERISTICS OF A COMMON RAIL DIESEL	000456351800026	CHEN, H;SU, X;HE, JJ;XIE, B	ENERGY 167: 297-311 JAN 15 2019	ENGINEERING	6

	ENGINE FUELED WITH DIESEL/N-PENTANOL/METHANOL BLENDS					
96	VIBRATION CHARACTERISTIC OF HIGH-VOLTAGE TOWER INFLUENCED BY ADJACENT TUNNEL BLASTING CONSTRUCTION	000470186600001	DUAN, LM;LIN, WS;LAI, JX;ZHANG, P;LUO, YB	SHOCK AND VIBRATION : - 2019	ENGINEERING	6

表 3　长安大学作为合作单位发表的 ESI 高被引论文（按 ESI 被引次数排序）

序号	论文名称	WOS 号	作者	来源期刊	ESI 学科	ESI 被引次数
1	MICROWAVE-ASSISTED IN SITU SYNTHESIS OF REDUCED GRAPHENE OXIDE-BIVO4 COMPOSITE PHOTOCATALYSTS AND THEIR ENHANCED PHOTOCATALYTIC PERFORMANCE FOR THE DEGRADATION OF CIPROFLOXACIN	000317878400014	YAN, Y;**SUN, SF（Sun, Shaofang 我校）**;SONG, Y;YAN, X;GUAN, WS**（ Guan, Weisheng 我校）**;LIU, XL;SHI, WD	JOURNAL OF HAZARDOUS MATERIALS 250: 106-114 APR 15 2013	ENGINEERING	116
2	MICROWAVE SYNTHESIS OF A NOVEL MAGNETIC IMPRINTED TIO2 PHOTOCATALYST WITH EXCELLENT TRANSPARENCY FOR SELECTIVE PHOTODEGRADATION OF ENROFLOXACIN HYDROCHLORIDE RESIDUES SOLUTION	000337554100003	LU, ZY;**CHEN, F（Chen, Fei 我校）**;HE, M;SONG, MS;MA, ZF;SHI, WD;YAN, YS;LAN, JZ;LI, F;XIAO, P	CHEMICAL ENGINEERING JOURNAL 249: 15-26 AUG 1 2014	ENGINEERING	100
3	URANIUM AND MOLYBDENUM ISOTOPE EVIDENCE FOR AN EPISODE OF WIDESPREAD OCEAN OXYGENATION DURING THE LATE EDIACARAN PERIOD	000352192100010	KENDALL, B;KOMIYA, T;LYONS, TW;BATES, SM;GORDON, GW;ROMANIELLO, SJ;JIANG, GQ;CREASER, RA;XIAO, SH;MCFADDEN, K;SAWAKI, Y;TAHATA, M;SHU, DG;HAN, J;**LI, Y（Li,**	GEOCHIMICA ET COSMOCHIMICA ACTA 156: 173-193 MAY 1 2015	GEOSCIENCES	93

			Yong 我校）;CHU, XL;ANBAR, AD			
4	NUTRIENT AND ORGANICS REMOVAL FROM SWINE SLURRY WITH SIMULTANEOUS ELECTRICITY GENERATION IN AN ALUM SLUDGE-BASED CONSTRUCTED WETLAND INCORPORATING MICROBIAL FUEL CELL TECHNOLOGY	000350931600009	DOHERTY, L;**ZHAO, YQ（Zhao, Yaqian 我校）**;ZHAO, XH;WANG, WK	CHEMICAL ENGINEERING JOURNAL 266: 74-81 APR 15 2015	ENGINEERING	63
5	IN SITU SYNTHESIS OF Z-SCHEME AG3PO4/CUBI2O4 PHOTOCATALYSTS AND ENHANCED PHOTOCATALYTIC PERFORMANCE FOR THE DEGRADATION OF TETRACYCLINE UNDER VISIBLE LIGHT IRRADIATION	000400584900073	SHI, WL;**GUO, F（Guo, Feng 我校）**;YUAN, SL	APPLIED CATALYSIS B-ENVIRONMENTAL 209: 720-728 JUL 15 2017	CHEMISTRY	58
6	MOF-DERIVED POROUS N-CO3O4@N-C NANODODECAHEDRA WRAPPED WITH REDUCED GRAPHENE OXIDE AS A HIGH CAPACITY CATHODE FOR LITHIUM-SULFUR BATTERIES	000424466300041	XU, J;**ZHANG, WX（Zhang, Wenxue 我校）**;CHEN, Y;FAN, HB;SU, DW;WANG, GX	JOURNAL OF MATERIALS CHEMISTRY A 6 (6): 2797-2807 FEB 14 2018	MATERIALS SCIENCE	49
7	LANDSLIDE SUSCEPTIBILITY MODELLING USING GIS-BASED MACHINE LEARNING TECHNIQUES FOR CHONGREN COUNTY, JIANGXI PROVINCE, CHINA	000428194000110	CHEN, W;**PENG, JB（Peng, Jianbing 我校）**;HONG, HY;SHAHABI, H;PRADHAN, B;LIU, JZ;ZHU, AX;PEI, XJ;DUAN, Z	SCIENCE OF THE TOTAL ENVIRONMENT 626: 1121-1135 JUN 1 2018	ENVIRONMENT/ECOLOGY	47
8	GIS-BASED LANDSLIDE SUSCEPTIBILITY MODELLING: A COMPARATIVE ASSESSMENT OF	000418899200046	CHEN, W;XIE, XS;**PENG, JB（Peng, Jianbing 我**	GEOMATICS NATURAL	GEOSCIENCES	46

	KERNEL LOGISTIC REGRESSION, NAIVE-BAYES TREE, AND ALTERNATING DECISION TREE MODELS		**校）**;WANG, JL;DUAN, Z;HONG, HY	HAZARDS & RISK 8 (2): 950-973 2017		
9	SINGLE IMAGE SUPER-RESOLUTION VIA LOCALLY REGULARIZED ANCHORED NEIGHBORHOOD REGRESSION AND NONLOCAL MEANS	000391475200002	JIANG, JJ;**MA, X（Ma, Xiang 我校）**;CHEN, C;LU, T;WANG, ZY;MA, JY	IEEE TRANSACTIONS ON MULTIMEDIA 19 (1): 15-26 JAN 2017	COMPUTER SCIENCE	45
10	GIS-BASED LANDSLIDE SUSCEPTIBILITY EVALUATION USING A NOVEL HYBRID INTEGRATION APPROACH OF BIVARIATE STATISTICAL BASED RANDOM FOREST METHOD	000430031800015	CHEN, W;XIE, XS;**PENG, JB（Peng, Jianbing 我校）**;SHAHABI, H;HONG, HY;BUI, DT;DUAN, Z;LI, SJ;ZHU, AX	CATENA 164: 135-149 MAY 2018	AGRICULTURAL SCIENCES	32
11	A STUDY ON THE MECHANICAL BEHAVIOR AND STATISTICAL DAMAGE CONSTITUTIVE MODEL OF SANDSTONE	000443205500012	WANG, JB;SONG, ZP;ZHAO, BY;LIU, XR;LIU, J;**LAI, JX（Lai, Jinxing 我校）**	ARABIAN JOURNAL FOR SCIENCE AND ENGINEERING 43 (10): 5179-5192 OCT 2018	ENGINEERING	28
12	LANDSLIDE SUSCEPTIBILITY MODELING BASED ON GIS AND NOVEL BAGGING-BASED KERNEL LOGISTIC REGRESSION	000455145000208	CHEN, W;SHAHABI, H;ZHANG, S;KHOSRAVI, K;SHIRZADI, A;CHAPI, K;PHAM, BT;**ZHANG, TY（Zhang, Tingyu 我校）**;ZHANG, LY;CHAI, HC;MA, JQ;CHEN, YT;WANG, XJ;LI, RW;BIN	APPLIED SCIENCES-BASEL 8 (12): - DEC 2018	ENGINEERING	20

			AHMAD, B			
13	PARTICLE SIZE DISTRIBUTION EFFECTS ON DEFORMATION PROPERTIES OF GRADED AGGREGATE BASE UNDER CYCLIC LOADING	000466179000001	LIN, H;WANG, H;**FAN, X（Fan, Xiang 我校）**;CAO, P;ZHOU, KF	EUROPEAN JOURNAL OF ENVIRONMENTAL AND CIVIL ENGINEERING 23 (3): 269-286 MAR 4 2019	ENGINEERING	14
14	A NEW SOIL-WATER CHARACTERISTIC CURVE MODEL FOR UNSATURATED LOESS BASED ON WETTING-INDUCED PORE DEFORMATION	000466352700001	ZHANG, YW;SONG, ZP;**WENG, XL（Weng, Xiaolin 我校）;XIE, YL（Xie, Yongli 我校）**	GEOFLUIDS : - 2019	GEOSCIENCES	11
15	PUBLIC ACCEPTANCE OF FULLY AUTOMATED DRIVING: EFFECTS OF SOCIAL TRUST AND RISK/BENEFIT PERCEPTIONS	000458171100005	LIU, P;YANG, R;**XU, ZG（Xu, Zhigang 我校）**	RISK ANALYSIS 39 (2): 326-341 SP. ISS. SI FEB 2019	SOCIAL SCIENCES, GENERAL	10
16	HOW SAFE IS SAFE ENOUGH FOR SELF-DRIVING VEHICLES?	000458171100004	LIU, P;YANG, R;**XU, ZG（Xu, Zhigang 我校）**	RISK ANALYSIS 39 (2): 315-325 SP. ISS. SI FEB 2019	SOCIAL SCIENCES, GENERAL	9
17	MODELING OF LOESS SOAKING INDUCED IMPACTS ON A METRO TUNNEL USING A WATER SOAKING SYSTEM IN CENTRIFUGE	000468457700001	ZHANG, YW;**WENG, XL（Weng, Xiaolin 我校）** SONG, ZP（**Sun, Yufeng 我校**）;SUN, YF	GEOFLUIDS : - 2019	GEOSCIENCES	9
18	THE EFFECT OF DIRECT-TO-PLANT STYRENE-BUTADIENE-STYRENE BLOCK COPOLYMER COMPONENTS ON BITUMEN	000457202000140	ZHANG, WG;JIA, ZR;ZHANG, YX;HU, K;**DING, LT（Ding, Longting**	POLYMERS 11 (1): - JAN 2019	CHEMISTRY	8

	MODIFICATION		**我校**）;WANG, F			
19	PHOTOLUMINESCENT LIGNIN HYBRIDIZED CARBON QUANTUM DOTS COMPOSITES FOR BIOIMAGING APPLICATIONS	000456226700105	XUE, BL;YANG, Y;**SUN, YC（Sun, Yongchang 我校）**;FAN, JS;LI, XP;ZHANG, Z	INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES 122: 954-961 FEB 1 202019	BIOLOGY & BIOCHEMISTRY	8
20	FREE VIBRATION OF NONLOCAL TIMOSHENKO BEAMS MADE OF FUNCTIONALLY GRADED MATERIALS BY SYMPLECTIC METHOD	000457206000020	ZHANG, K;GE, MH;ZHAO, C;DENG, ZC;**XU, XJ（Xu, Xiao-Jian 我校）**	COMPOSITES PART B-ENGINEERING 156: 174-184 JAN 1 2019	MATERIALS SCIENCE	7

表 4　长安大学 ESI 热点论文（按 ESI 被引频次排序）

序号	论文名称	WOS 号	作者	来源期刊	ESI 学科	ESI 被引次数
1	RELATIVE VELOCITY DIFFERENCE MODEL FOR THE CAR-FOLLOWING THEORY	000424037200001	YU, SW;TANG, JJ;XIN, Q	NONLINEAR DYNAMICS 91 (3): 1415-1428 FEB 2018	ENGINEERING	45
2	A REVIEW ON LAND SUBSIDENCE CAUSED BY GROUNDWATER WITHDRAWAL IN XIAN, CHINA	000468075000045	WANG, YQ;WANG, ZF;CHENG, WC	BULLETIN OF ENGINEERING GEOLOGY AND THE ENVIRONMENT 78 (4): 2851-2863 JUN 2019	GEOSCIENCES	13

96 篇高被引论文的分布院系为：公路学院 41 篇，位居首位，比上期增加 4 篇，近 5 期高被引论文一直呈增长趋势；水利与环境学院 29 篇，比上期增加 11 篇，增幅较大；信息工程学院 8 篇，比上期增加 1 篇；汽车学院 8 篇，比上期增加 1 篇；地质工程与测绘学院 5 篇；地球科学与资源学院 2 篇，比上期增加 1 篇；理学院 2 篇，与上期持平；材料科学与工程学院 1 篇。表 5 显示了我校近 6 期 ESI 高被引论文院系分布变化情况。

表 5　近 6 期长安大学 ESI 高被引论文院系分布情况

ESI 更新时间	公路学院	水利与环境学院	汽车学院	信息工程学院	地质工程与测绘学院	材料科学与工程学院	地球科学与资源学院	理学院
2019.1.19	19	10	6	4	3	3	2	1
2019.3.14	15	11	6	4	4	3	1	1
2019.5.9	23	11	6	4	4	3	1	1
2019.7.11	26	10	5	9	6	2	1	1
2019.9.11	37	18	7	7	6	3	1	2
2019.11.15	41	29	8	8	5	1	2	2

表 6 显示了我校近 6 期 ESI 热点论文院系分布变化情况。

表 6　近 6 期长安大学 ESI 热点论文院系分布情况

ESI 更新时间	公路学院	信息工程学院	汽车学院	地质工程与测绘学院	水利与环境学院
2019.1.19	2	2	1	1	
2019.3.14		1		1	
2019.5.9	6			2	
2019.7.11	本期无热点论文				

2019.9.11					4
2019.11.15	1	1			

从本期 ESI 数据可以看出，公路学院保持稳定增长趋势，水利与环境学院本期高被引论文增幅较大，表现较为突出，而汽车学院、材料科学与工程学院、信息学院、地质工程与测绘学院、地球科学与资源学院、理学院近六期表现一直比较稳定。其他尚未有 ESI 高被引论文分布的院系仍需努力。从高被引论文作者分布来看，我校已经涌现出一些发文量、被引频次较高的作者，我们对高被引论文以及热点论文的作者（仅限第一作者身份发表的论文）分布进行了统计分析，详见表 7。

表 7　我校高被引论文、热点论文的作者分布情况（仅统计第一作者署名单位为长安大学的作者）

作者	高被引论文	所属院系
LI, PY（Li, Peiyue）	12	水利与环境学院
LAI, JX（Lai, Jinxing）	6	公路学院
QIU, JL（Qiu, Junling）	5	公路学院
ADIMALLA, N	3	水利与环境学院
QI, DH（Qi,Donghui）	3	公路学院
WANG, ZF（Wang, Zhi-Feng）	3	公路学院
ZHOU, ZJ（Zhou, Zhijun）	3	公路学院
DUAN, LM（Duan, Limin）	2	公路学院
GUO, F（Guo,Feng）	2	水利与环境学院
LUO, XL（Luo, Xianglong）	2	公路学院
REN, R（Ren, Rui）	2	公路学院
XIE, SB（Xie, Shaobo）	2	汽车学院
ZHANG, JP（Zhang,Jiupeng）	2	公路学院
BAO, XX（Bao,Xiongxiong）	1	理学院

CHEN, H（Chen, Hao）	1	汽车学院
CHEN, J（Chen, Jie）	1	水利与环境学院
DONG, M（Dong, Ming）	1	信息工程学院
FAN, X（Fan,Xiang）	1	公路学院
GENG, LM（Geng, Limin）	1	汽车学院
HE, S（He, Song）	1	水利与环境学院
HE, SY（He, Siyue）	1	公路学院
HE, XD（He, Xiaodong）	1	水利与环境学院
HU, Z（Hu, Zhao）	1	公路学院
HUI, F（Hui, Fei）	1	信息工程学院
JIA, ZF（Jia,Zhifeng）	1	水利与环境学院
LI, YY（Li, Youyun）	1	公路学院
QIU, KF（Qiu,Kunfeng）	1	地质工程与测绘学院
REN, CF（Ren,Chongfeng）	1	水利与环境学院
SONG, XL（Song,Xueli）	1	理学院
WANG, XL（Wang, Xiuling）	1	公路学院
WANG, YG（Wang, Yonggang）	1	公路学院
WANG, YQ（Wang,Yaqiong）	1	公路学院
WANG, ZC（Wang, Zhichao）	1	公路学院
WU, JH（Wu,Jianhua）	1	水利与环境学院
WU, X（Wu, Xia）	1	信息工程学院
XIN, Q（Xin,Qi）	1	汽车学院
XU, XJ（Xu,XiaoJian）	1	公路学院
YANG, L（Yang, Liu）	1	公路学院
YU, SW（Yu,Shaowei）	1	信息工程学院

ZHANG, W（Zhang, Wengang）	1	信息工程学院
ZHANG, YT（Zhang, Yuting）	1	水利与环境学院
ZHUANG, JQ（Zhuang,Jianqi）	1	地质工程与测绘学院

对 96 篇高被引论文的来源期刊进行分析后，表 8 列出了 59 种来源期刊的名称、发文数量和影响因子。其中，*EXPOSURE AND HEALTH* 是我校高被引论文发文量最高的期刊，影响因子为 4.532，发表高被引论文 8 篇；影响因子最高的期刊为 *APPLIED CATALYSIS B-ENVIRONMENTAL*，影响因子高达 14.229，发表的两篇高被引论文为《CoO and g-C3N4 complement each other for highly efficient overall water splitting under visible light》和《In situ synthesis of Z-scheme Ag3PO4/CuBi2O4 photocatalysts and enhanced photocatalytic performance for the degradation of tetracycline under visible light irradiation》。通过期刊规范化的引文影响力数值可以看出，我校高被引论文来源期刊的 JNCI 值都大于 1，说明我校高被引论文的影响力均高于这些期刊的平均影响力，因此建议相关研究人员还可以向更高影响力的期刊投稿。图 2 展示了我校 96 篇高被引论文的 59 种来源期刊的分区占比情况，可以看出，我校高被引论文在 Q1 区的占比最高，Q2 区其次，两个区的占比达 50%以上，说明我校高被引论文的来源期刊质量相对较高，这种良好态势应该继续保持下去。

表 8　我校高被引论文的 59 种来源期刊列表

序号	来源出版物	论文数	影响因子	期刊规范化的引文影响力
1	EXPOSURE AND HEALTH	8	4.532	4.84875
2	ENVIRONMENTAL EARTH SCIENCES	5	1.871	17.646
3	HUMAN AND ECOLOGICAL RISK ASSESSMENT	4	2.012	10.715
4	ADVANCES IN CIVIL ENGINEERING	4	1.104	30.515
5	NATURAL HAZARDS	3	2.319	7.746666667
6	SHOCK AND VIBRATION	3	1.628	50.38
7	GEOMATICS NATURAL HAZARDS & RISK	3	2.332	14.72666667
8	GEOFLUIDS	3	1.437	33.79666667
9	CHEMICAL ENGINEERING JOURNAL	2	8.355	2.955
10	APPLIED ENERGY	2	8.426	4.515
11	JOURNAL OF HAZARDOUS MATERIALS	2	7.65	3.615
12	APPLIED CATALYSIS B-ENVIRONMENTAL	2	14.229	2
13	MATHEMATICAL PROBLEMS IN ENGINEERING	2	1.179	32.99
14	JOURNAL OF SENSORS	2	2.024	35.82

15	JOURNAL OF PERFORMANCE OF CONSTRUCTED FACILITIES	2	1.542	31.35
16	INTERNATIONAL JOURNAL OF WATER RESOURCES DEVELOPMENT	2	2.081	6.325
17	PHYSICA A-STATISTICAL MECHANICS AND ITS APPLICATIONS	2	2.5	19.045
18	APPLIED SCIENCES-BASEL	2	2.217	20.06
19	RISK ANALYSIS	2	2.564	13.81
20	ENERGY	2	5.537	9.49
21	RENEWABLE ENERGY	1	5.439	4.63
22	ENERGY CONVERSION AND MANAGEMENT	1	7.181	5.18
23	GEOCHIMICA ET COSMOCHIMICA ACTA	1	4.258	4.55
24	APPLIED AND COMPUTATIONAL MATHEMATICS	1	3.16	11.51
25	MEDITERRANEAN JOURNAL OF MATHEMATICS	1	1.181	24.68
26	ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH	1	2.914	17.53
27	ARABIAN JOURNAL OF GEOSCIENCES	1	1.141	29.65
28	IEEE TRANSACTIONS ON MULTIMEDIA	1	5.452	5.2
29	JOURNAL OF MATERIALS CHEMISTRY A	1	10.733	6.55
30	SCIENCE OF THE TOTAL ENVIRONMENT	1	5.589	8.76
31	NONLINEAR DYNAMICS	1	4.604	12.4
32	FILOMAT	1	0.789	36.07
33	MINE WATER AND THE ENVIRONMENT	1	2.145	16.84
34	INTERNATIONAL JOURNAL OF ENGINEERING SCIENCE	1	9.052	2.9
35	RENEWABLE & SUSTAINABLE ENERGY REVIEWS	1	10.556	3.64
36	CATENA	1	3.851	10.63
37	ARABIAN JOURNAL FOR SCIENCE AND ENGINEERING	1	1.518	26.07
38	MATHEMATICAL METHODS IN THE APPLIED SCIENCES	1	1.533	7.09
39	ENGINEERING GEOLOGY	1	3.909	8.88
40	INTERNATIONAL GEOLOGY REVIEW	1	3	2.42
41	EUROPEAN JOURNAL OF ENVIRONMENTAL AND CIVIL ENGINEERING	1	1.873	31.02
42	CONSTRUCTION AND BUILDING MATERIALS	1	4.046	13.56
43	BULLETIN OF ENGINEERING GEOLOGY AND THE ENVIRONMENT	1	2.138	3
44	TUNNELLING AND UNDERGROUND SPACE TECHNOLOGY	1	3.942	15.25

45	JOURNAL OF CLEANER PRODUCTION	1	6.395	11.07
46	ADVANCES IN MATERIALS SCIENCE AND ENGINEERING	1	1.399	10.91
47	INTERNATIONAL JOURNAL OF PAVEMENT ENGINEERING	1	2.298	6.53
48	POLYMERS	1	3.164	21.34
49	COMPUTERS AND GEOTECHNICS	1	3.345	12.91
50	JOURNAL OF ADVANCED TRANSPORTATION	1	1.983	57.52
51	ACCIDENT ANALYSIS AND PREVENTION	1	3.058	11.81
52	COMPTES RENDUS MECANIQUE	1	0.966	22.2
53	JOURNAL OF THE ENERGY INSTITUTE	1	3.774	6.33
54	COMMUNICATIONS ON PURE AND APPLIED ANALYSIS	1	0.925	20.97
55	INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES	1	4.784	9.05
56	COMPOSITES PART B-ENGINEERING	1	6.864	4.93
57	IRANIAN JOURNAL OF SCIENCE AND TECHNOLOGY-TRANSACTIONS OF CIVIL ENGINEERING	1	0.8	32.33
58	WATER	1	2.524	20.24
59	TRANSPORTATION RESEARCH PART D-TRANSPORT AND ENVIRONMENT	1	4.051	9.19

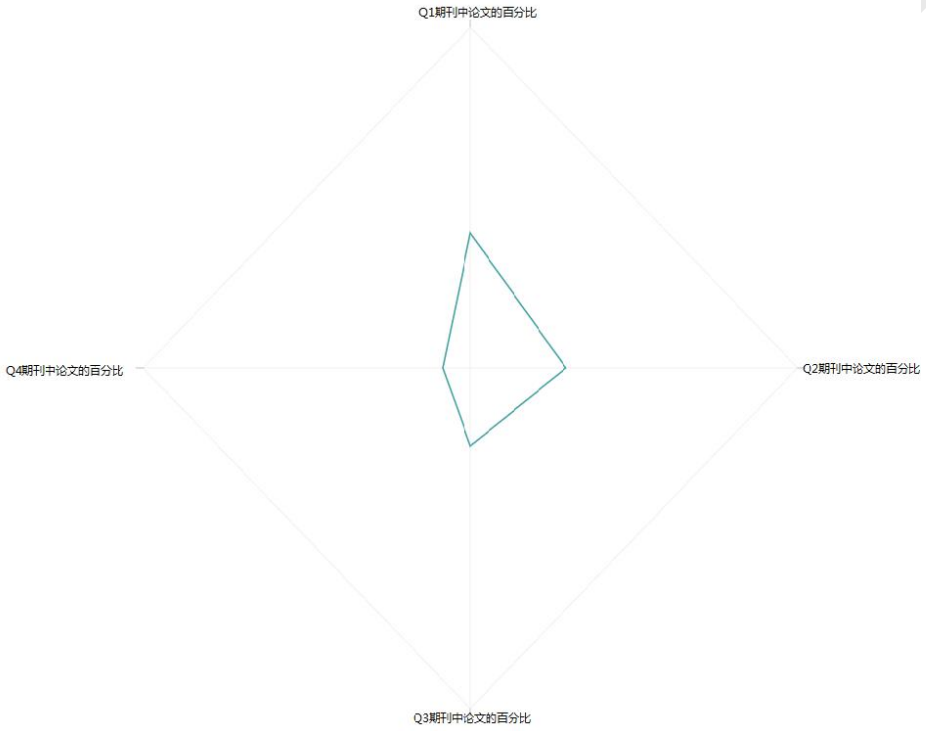

图 2　我校 96 篇高被引论文 59 种来源期刊的分区占比图

二．我校 ESI 前 1%学科概况与预测

本期我校地球科学首次进入 ESI 全球排名前 1%，至此，我校已有两个 ESI 全球前 1%学科（工程学、地球科学）。我校在工程学领域共发表 ESI 论文 1，489 篇，被引用 7，338 次，其中高被引论文 36 篇，本期全球有 1，499 所机构（大陆机构 210 所）的工程学学科进入 ESI 全球排名前 1%行列，我校位列 723 位(大陆机构排名 99 位，排名为前 50%)。表 9 为近 7 期我校工程学 Web of Science 发文量、被引频次以及 ESI 排名情况。

表 9　我校工程学发文量、被引频次以及 ESI 排名情况（近 7 期数据比较）

学科（更新时间）	中国大陆机构排名	ESI 全球排名	论文数	被引频次
工程学（2018.11.16）	92	904	998	4，434
工程学（2019.1.19）	92	879	1，080	4，880
工程学（2019.3.14）	93	863	1，140	5，283
工程学（2019.5.9）	101	790	1，190	5，578
工程学（2019.7.11）	101	769	1，276	6，153
工程学（2019.9.11）	98	747	1，386	6，686
工程学（2019.11.15）	99	723	1，489	7，338

我校在地球科学领域共发表 ESI 论文 897 篇，被引用 6，813 次，其中高被引论文 14 篇，本期全球有 1，683 所机构（大陆机构 227 所）的地球科学进入 ESI 全球排名前 1%行列，我校位列 717 位(大陆机构排名 81 位，排名为前 50%)。表 10 为本期我校地球科学 Web of Science 发文量、被引频次以及 ESI 与排名情况。

表 10　我校地球科学发文量、被引频次以及 ESI 排名情况

学科（更新时间）	中国大陆机构排名	ESI 全球排名	论文数	被引频次
地球科学（2019.11.15）	81	717	897	6，813

除了工程学，我校还有其他学科近期表现良好。选择 2009-2019 年我校 ESI 各学科发文数量前 5 的学科：工程、材料科学、地学、化学和环境\生态学进行了 CNCI 值的分析，详见图 3、表 11。

表 11　我校发文数量前 5 的 ESI 学科的 CNCI 值

学科	WOS 文献数量	CNCI 值	被引次数	被引百分比
工程学	1532	1.101437402	8410	66.19%
地学	911	1.006564874	7149	76.84%
材料科学	989	0.704423054	6469	71.79%

化学	545	1.607261468	3917	65.32%
环境/生态学	523	0.901806883	3883	75.72%

从图 3 可以看出，工程学的发文量、被引频次均为最高；材料科学发文量为第二位，但是被引频次却低于地球科学，地球科学发文量第三位；环境/生态科学、化学发文量、被引频次还有待提高。

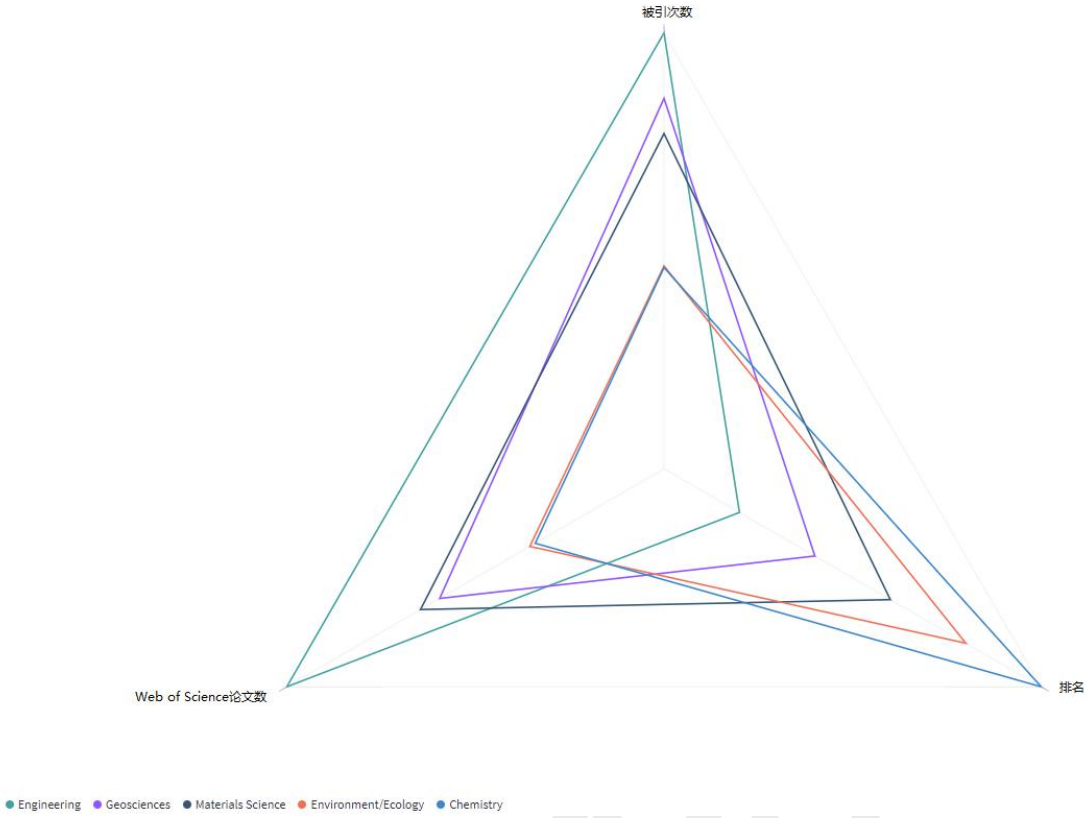

图 3　我校发文数量前 5 的 ESI 学科发文量、被引频次雷达图

从图 4 可以看到，工程学、地球科学、环境/生态科学为长安大学优势学科，其中工程学和环境/生态科学的 CNCI 值大于 1，地球科学的 CNCI 值约等于 1，说明我校在这三个学科领域的研究已经达到或超过了国际水平，其中**特别值得关注的是我校环境/生态科学的 CNCI 值为最高，达到了 1.6，说明该学科的研究水平相对比较高，但是其发文数量却还不是很高，可看作是我校的潜力学科**；而同时注意到我校材料科学发文量比较高，但 CNCI 值低于世界平均水平，还有待进一步提升研究水平；化学学科发文量、CNCI 值都比较低，要实现研究突破仍需一定的努力。通过 CNCI 值的分析可以得知我校环境/生态科学的研究水平已经达到较高的水平，因此在该领域突破 ESI 前 1%是极为有可能的。

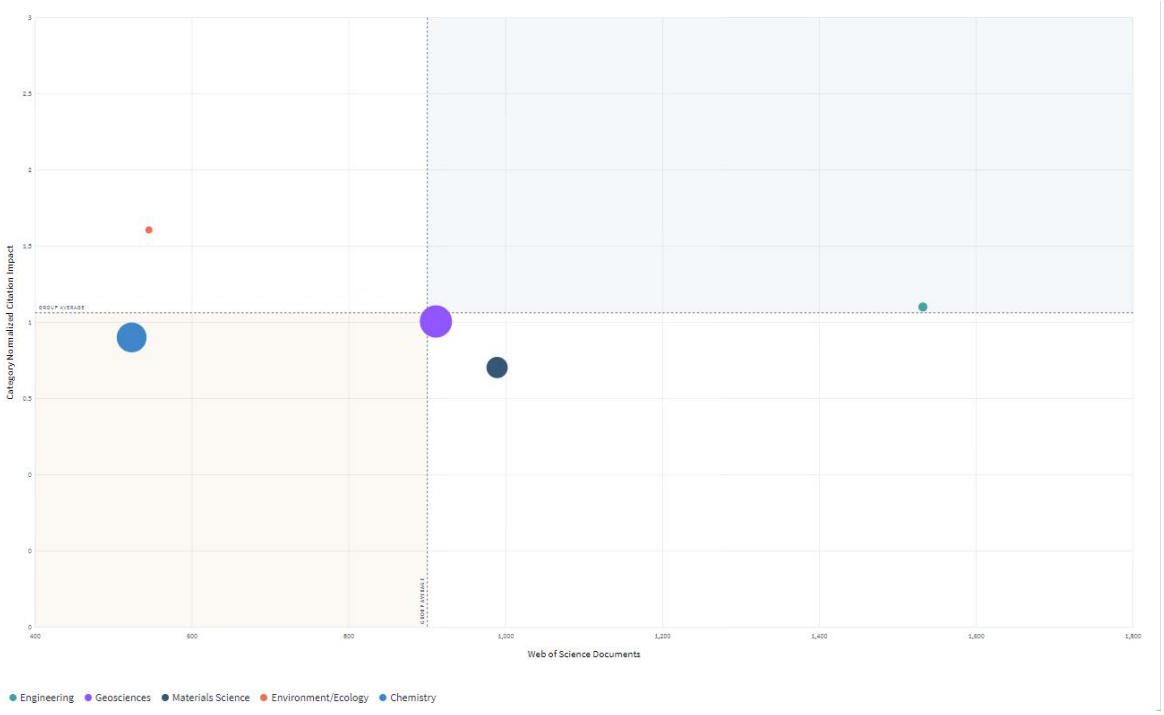

图 4　2009-2019 年我校发文量 TOP5 的 ESI 学科的 CNCI 值表现

图 5 对 22 个 ESI 学科的阈值与我校各学科的被引频次进行了比较之后，进一步对具有潜力进入全球前 1%的学科进行了预测。从本期 ESI 数据可以看出，我校目前最有潜力进入全球前 1%的学科有两个：材料科学、环境/生态科学，接近度非常高，这两个学科有很大潜力，需要全校相关研究领域的科研人员做出更大的努力。而其他学科要有所突破进入全球前 1%，还具有相当大的难度，还需要在发文数量、被引频次上努力。

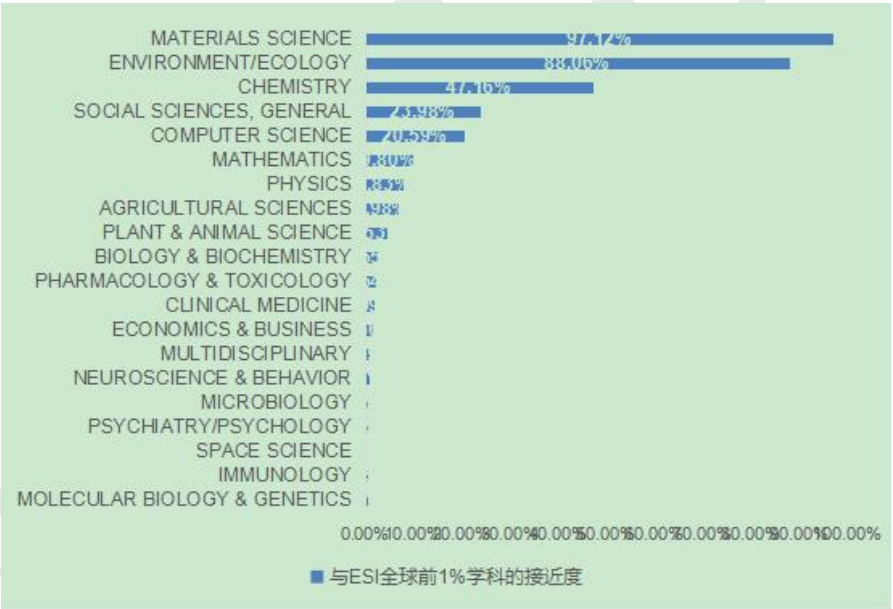

图 5　长安大学具有潜力进入全球前 1%的学科预测

表 12 列出了本期全球进入材料科学全球前 1%的大陆机构。本期全球有 898 所机构的材料科学进入 ESI 全球排名前 1%，中国大陆有 157 所机构的材料科学进入前 1%排位。下表 13 列出了我校与全球进入材料科学 ESI 前 1%排位最后的机构 WOS 发文量、被引频次，参考本期 ESI 材料科学机构被引阈值，进行对比发现，我校材料科学发文量比较高，但是需要进一步提升影响力，以实现突破。

表 12　材料科学学科进入全球前 1%的大陆 157 所机构的论文情况

序号	机构名称	Web of Science 论文数	总被引次数	篇均被引次数	顶尖论文数	全球 ESI 地球科学排位
1	CHINESE ACADEMY OF SCIENCES	47360	1118569	23.62	1302	1
2	UNIVERSITY OF CHINESE ACADEMY OF SCIENCES, CAS	11558	237483	20.55	291	7
3	TSINGHUA UNIVERSITY	10558	232086	21.98	324	9
4	PEKING UNIVERSITY	5303	148532	28.01	190	20
5	ZHEJIANG UNIVERSITY	6966	146622	21.05	160	21
6	SHANGHAI JIAO TONG UNIVERSITY	8098	145168	17.93	128	22
7	FUDAN UNIVERSITY	4279	142275	33.25	150	23
8	UNIVERSITY OF SCIENCE & TECHNOLOGY OF CHINA	6074	134218	22.1	178	28
9	HARBIN INSTITUTE OF TECHNOLOGY	10655	133826	12.56	78	29
10	INSTITUTE OF CHEMISTRY, CAS	3035	128488	42.34	199	31
11	SUZHOU UNIVERSITY	4546	117157	25.77	188	37
12	HUAZHONG UNIVERSITY OF SCIENCE & TECHNOLOGY	5842	110332	18.89	135	40
13	SOUTH CHINA UNIVERSITY OF TECHNOLOGY	6883	108053	15.7	116	44
14	INSTITUTE OF METAL RESEARCH, CAS	5400	106403	19.7	89	46
15	JILIN UNIVERSITY	6033	106069	17.58	90	47
16	CENTRAL SOUTH UNIVERSITY	9372	99596	10.63	91	53
17	CHANGCHUN INSTITUTE OF APPLIED CHEMISTRY, CAS	2686	98758	36.77	114	55
18	UNIVERSITY OF SCIENCE & TECHNOLOGY BEIJING	9710	97606	10.05	64	56
19	TIANJIN UNIVERSITY	6105	93753	15.36	109	60
20	XI'AN JIAOTONG UNIVERSITY	6625	90871	13.72	105	66
21	NANJING UNIVERSITY	4037	87029	21.56	104	69

22	NATIONAL CENTER FOR NANOSCIENCE & TECHNOLOGY - CHINA	2030	83425	41.1	137	72
23	SICHUAN UNIVERSITY	5772	82075	14.22	63	73
24	SHANGHAI INSTITUTE OF CERAMICS, CAS	4112	78197	19.02	59	76
25	NORTHWESTERN POLYTECHNICAL UNIVERSITY	7736	76883	9.94	85	79
26	BEIHANG UNIVERSITY	5407	76575	14.16	68	80
27	DALIAN UNIVERSITY OF TECHNOLOGY	5365	75329	14.04	47	82
28	WUHAN UNIVERSITY OF TECHNOLOGY	4915	74637	15.19	116	83
29	WUHAN UNIVERSITY	3472	73916	21.29	80	85
30	SHANDONG UNIVERSITY	4517	69192	15.32	67	93
31	NANKAI UNIVERSITY	2316	67529	29.16	115	98
32	SUN YAT SEN UNIVERSITY	2882	65398	22.69	82	105
33	BEIJING UNIVERSITY OF CHEMICAL TECHNOLOGY	3009	64028	21.28	60	108
34	INSTITUTE OF PHYSICS, CAS	2026	63027	31.11	87	109
35	BEIJING INSTITUTE OF TECHNOLOGY	3301	62223	18.85	77	110
36	CHONGQING UNIVERSITY	5240	61958	11.82	75	114
37	XIAMEN UNIVERSITY	2734	60904	22.28	66	117
38	TONGJI UNIVERSITY	3814	58040	15.22	64	124
39	SOUTHEAST UNIVERSITY - CHINA	4208	56927	13.53	45	126
40	DONGHUA UNIVERSITY	3606	50473	14	31	148
41	NANJING TECH UNIVERSITY	3495	49409	14.14	50	153
42	EAST CHINA UNIVERSITY OF SCIENCE & TECHNOLOGY	2592	49048	18.92	40	154
43	SHANGHAI UNIVERSITY	3981	48278	12.13	40	159
44	HUNAN UNIVERSITY	3110	48165	15.49	66	160
45	NANJING UNIVERSITY OF AERONAUTICS & ASTRONAUTICS	3156	47203	14.96	54	162
46	NORTHEASTERN UNIVERSITY - CHINA	5937	45256	7.62	14	172
47	NANJING UNIVERSITY OF SCIENCE & TECHNOLOGY	2690	43355	16.12	70	176
48	BEIJING INSTITUTE OF NANOENERGY & NANOSYSTEMS, CAS	975	42739	43.83	91	181
49	LANZHOU UNIVERSITY	2081	42176	20.27	33	182
50	FUZHOU UNIVERSITY	1559	37239	23.89	35	197

51	TECHNICAL INSTITUTE OF PHYSICS & CHEMISTRY, CAS	1504	36324	24.15	43	202
52	HARBIN ENGINEERING UNIVERSITY	1717	36157	21.06	32	204
53	UNIVERSITY OF ELECTRONIC SCIENCE & TECHNOLOGY OF CHINA	2933	33126	11.29	47	227
54	JIANGSU UNIVERSITY	2628	31056	11.82	33	241
55	LANZHOU INSTITUTE OF CHEMICAL PHYSICS, CAS	1556	29977	19.27	17	249
56	NINGBO INSTITUTE OF MATERIALS TECHNOLOGY AND ENGINEERING, CAS	1948	28376	14.57	26	267
57	DALIAN INSTITUTE OF CHEMICAL PHYSICS, CAS	1126	27386	24.32	37	273
58	CHINA UNIVERSITY OF PETROLEUM	1908	27298	14.31	18	276
59	ZHENGZHOU UNIVERSITY	2128	27011	12.69	75	282
60	FUJIAN INSTITUTE OF RESEARCH ON THE STRUCTURE OF MATTER, CAS	1210	26706	22.07	30	283
61	UNIVERSITY TOWN OF SHENZHEN	1564	26274	16.8	39	289
62	BEIJING UNIVERSITY OF TECHNOLOGY	2444	24774	10.14	18	300
63	EAST CHINA NORMAL UNIVERSITY	1331	24461	18.38	20	307
64	HEFEI UNIVERSITY OF TECHNOLOGY	1740	23556	13.54	16	320
65	TAIYUAN UNIVERSITY OF TECHNOLOGY	2611	23336	8.94	15	323
66	NANJING UNIVERSITY OF POSTS & TELECOMMUNICATIONS	880	22983	26.12	34	330
67	SHENZHEN UNIVERSITY	2250	22680	10.08	40	333
68	INSTITUTE OF PROCESS ENGINEERING, CAS	1232	21895	17.77	30	342
69	MINISTRY OF EDUCATION, CHINA	1343	21800	16.23	20	343
70	YANSHAN UNIVERSITY	2268	21382	9.43	24	348
71	CHINA UNIVERSITY OF GEOSCIENCES	1845	21281	11.53	19	352
72	SOUTHWEST JIAOTONG UNIVERSITY	2019	20773	10.29	11	359
73	INSTITUTE OF HIGH ENERGY PHYSICS, CAS	826	20056	24.28	35	369

74	SHANGHAI INSTITUTE OF APPLIED PHYSICS, CAS	866	19333	22.32	25	376
75	XIANGTAN UNIVERSITY	1419	18736	13.2	8	392
76	CENTRAL CHINA NORMAL UNIVERSITY	417	17979	43.12	24	405
77	INSTITUTE OF SEMICONDUCTORS, CAS	835	17730	21.23	31	411
78	JINAN UNIVERSITY	1194	17620	14.76	20	414
79	SHAANXI NORMAL UNIVERSITY	1212	17387	14.35	22	418
80	NORTHEAST NORMAL UNIVERSITY - CHINA	842	17340	20.59	14	422
81	SOUTHWEST UNIVERSITY - CHINA	1286	16802	13.07	12	433
82	UNIVERSITY OF JINAN	1554	16401	10.55	22	439
83	ZHEJIANG UNIVERSITY OF TECHNOLOGY	1318	16024	12.16	24	444
84	HUBEI UNIVERSITY	1095	15786	14.42	14	448
85	BEIJING NORMAL UNIVERSITY	763	15386	20.17	19	458
86	CHINESE ACADEMY OF ENGINEERING PHYSICS	2013	14984	7.44	14	466
87	KUNMING UNIVERSITY OF SCIENCE & TECHNOLOGY	2124	14811	6.97	3	473
88	ANHUI UNIVERSITY	1058	14555	13.76	7	484
89	BEIJING JIAOTONG UNIVERSITY	1114	14521	13.04	20	487
90	CHINA UNIVERSITY OF MINING & TECHNOLOGY	1803	14376	7.97	11	497
91	SOUTH CHINA NORMAL UNIVERSITY	951	14296	15.03	8	500
92	ANHUI UNIVERSITY OF TECHNOLOGY	996	14208	14.27	15	505
93	ZHEJIANG SCI-TECH UNIVERSITY	1191	14087	11.83	11	509
94	ZHEJIANG NORMAL UNIVERSITY	669	13821	20.66	5	514
95	SOUTHERN UNIVERSITY OF SCIENCE & TECHNOLOGY	1003	13537	13.5	27	518
96	INSTITUTE OF COAL CHEMISTRY, CAS	662	13414	20.26	15	523
97	SHENZHEN INSTITUTE OF ADVANCED TECHNOLOGY, CAS	685	13276	19.38	19	530
98	QINGDAO UNIVERSITY OF SCIENCE & TECHNOLOGY	1183	13256	11.21	19	531
99	NANCHANG UNIVERSITY	1228	12930	10.53	11	540
100	QINGDAO UNIVERSITY	1091	12818	11.75	22	545

101	NATIONAL UNIVERSITY OF DEFENSE TECHNOLOGY - CHINA	1323	12792	9.67	5	547
102	OCEAN UNIVERSITY OF CHINA	731	12781	17.48	10	548
103	WUHAN UNIVERSITY OF SCIENCE & TECHNOLOGY	1648	12746	7.73	7	551
104	CHANGCHUN INSTITUTE OF OPTICS, FINE MECHANICS & PHYSICS, CAS	675	12498	18.52	17	558
105	HENAN UNIVERSITY	970	12461	12.85	11	559
106	JIANGNAN UNIVERSITY	1556	12384	7.96	5	564
107	NORTHWEST UNIVERSITY XI'AN	749	12332	16.46	14	565
108	SHAANXI UNIVERSITY OF SCIENCE & TECHNOLOGY	1499	11765	7.85	8	584
109	AIR FORCE MILITARY MEDICAL UNIVERSITY	479	11431	23.86	5	597
110	YANGZHOU UNIVERSITY	889	11385	12.81	16	600
111	HEILONGJIANG UNIVERSITY	609	11362	18.66	12	602
112	CHANGZHOU UNIVERSITY	1241	11299	9.1	2	604
113	GUANGDONG UNIVERSITY OF TECHNOLOGY	1552	11275	7.26	13	606
114	TIANJIN POLYTECHNIC UNIVERSITY	1342	11212	8.35	6	609
115	GUANGXI UNIVERSITY	1387	11160	8.05	10	612
116	HEBEI UNIVERSITY OF TECHNOLOGY	1290	11075	8.59	7	615
117	NINGBO UNIVERSITY	1096	10947	9.99	5	621
118	SHANGHAI NORMAL UNIVERSITY	576	10781	18.72	12	629
119	NANJING NORMAL UNIVERSITY	569	10560	18.56	16	642
120	LANZHOU UNIVERSITY OF TECHNOLOGY	1251	10050	8.03	14	659
121	JIANGSU UNIVERSITY OF SCIENCE & TECHNOLOGY	1098	9955	9.07	42	663
122	INSTITUTE OF MECHANICS, CAS	586	9926	16.94	6	664
123	WUHAN INSTITUTE OF TECHNOLOGY	819	9857	12.04	15	667
124	HOHAI UNIVERSITY	1162	9819	8.45	3	670
125	SHANGHAI INSTITUTE OF MICROSYSTEM & INFORMATION TECHNOLOGY, CAS	755	9809	12.99	5	671
126	NORTH CHINA ELECTRIC POWER UNIVERSITY	777	9561	12.31	15	682
127	UNIVERSITY OF SHANGHAI FOR SCIENCE & TECHNOLOGY	861	9508	11.04	16	686

128	NANCHANG HANGKONG UNIVERSITY	882	9480	10.75	6	689
129	XI'AN UNIVERSITY OF TECHNOLOGY	1266	9102	7.19	8	700
130	HENAN NORMAL UNIVERSITY	625	8967	14.35	6	709
131	QINGDAO INSTITUTE OF BIOMASS ENERGY AND BIOPROCESS TECHNOLOGY, CAS	427	8827	20.67	11	720
132	WENZHOU UNIVERSITY	551	8533	15.49	11	741
133	TIANJIN UNIVERSITY OF TECHNOLOGY	783	8373	10.69	12	753
134	NORTHEAST FORESTRY UNIVERSITY - CHINA	867	8332	9.61	4	757
135	BEIJING FORESTRY UNIVERSITY	851	8155	9.58	7	775
136	SOUTH CHINA AGRICULTURAL UNIVERSITY	431	8146	18.9	18	776
137	HARBIN NORMAL UNIVERSITY	434	7993	18.42	4	785
138	HANGZHOU DIANZI UNIVERSITY	746	7943	10.65	8	789
139	NORTHWEST NORMAL UNIVERSITY - CHINA	480	7930	16.52	8	790
140	CHINESE ACADEMY OF MEDICAL SCIENCES - PEKING UNION MEDICAL COLLEGE	413	7877	19.07	4	795
141	SOUTHWEST UNIVERSITY OF SCIENCE & TECHNOLOGY - CHINA	1019	7801	7.66	23	801
142	QILU UNIVERSITY OF TECHNOLOGY	997	7636	7.66	5	808
143	WENZHOU MEDICAL UNIVERSITY	306	7590	24.8	1	811
144	HUAQIAO UNIVERSITY	603	7506	12.45	4	818
145	CHINA BAOWU STEEL GROUP	891	7485	8.4	0	819
146	NORTH UNIVERSITY OF CHINA	1064	7485	7.03	24	819
147	HUNAN UNIVERSITY OF TECHNOLOGY	507	7426	14.65	15	830
148	CENTRAL IRON & STEEL RESEARCH INSTITUTE	1052	7349	6.99	0	835
149	SHANDONG UNIVERSITY OF SCIENCE & TECHNOLOGY	774	7334	9.48	28	839
150	CHINA JILIANG UNIVERSITY	782	7286	9.32	5	840
151	TIANJIN MEDICAL UNIVERSITY	327	7233	22.12	6	843
152	SHANGHAI INSTITUTE OF TECHNICAL PHYSICS, CAS	493	7187	14.58	11	846
153	HEBEI UNIVERSITY	659	7131	10.82	7	853

154	SHANGHAI INSTITUTE OF OPTICS & FINE MECHANICS	580	7085	12.22	6	856
155	CHANGCHUN UNIVERSITY OF SCIENCE & TECHNOLOGY	728	6992	9.6	2	869
156	SHANXI UNIVERSITY	514	6965	13.55	11	872
157	SHANGHAI INSTITUTE OF MATERIA MEDICA, CAS	160	6900	43.12	11	878

表 13　长安大学材料科学论文情况（2009-2019）

机构名称	Web of Science 论文数	总被引次数	ESI 材料科学 本期机构被引阈值
长安大学	989	6，469	6，661
中国科学院上海药物研究所	160	6，900	

表 14 列出了本期全球进入环境/生态科学全球前 1%的大陆机构。本期全球有 1047 所机构的环境/生态科学进入全球排名前 1%，中国大陆有 84 所机构的环境/生态科学进入前 1%排位。下表 15 列出了我校与全球进入环境/生态科学 ESI 前 1%排位最后的机构 WOS 发文量、被引频次，参考本期 ESI 材料科学机构被引阈值，进行对比发现，我校环境/生态科学发文量虽然比已进入全球前 1%的一些机构多，但是被引频次距离学科机构被引阈值还有一定的差距，需要进一步提升影响力，以实现突破。

表 14　环境/生态科学学科进入全球前 1%的大陆 84 所机构的论文情况

序号	机构名称	Web of Science 论文数	总被引次数	篇均被引次数	顶尖论文数	全球 ESI 环境/生态科学排位
1	CHINESE ACADEMY OF SCIENCES	26795	360330	13.45	313	2
2	UNIVERSITY OF CHINESE ACADEMY OF SCIENCES, CAS	8982	91586	10.2	58	24

3	RESEARCH CENTER FOR ECO-ENVIRONMENTAL SCIENCES (RCEES)	3642	57315	15.74	47	74
4	TSINGHUA UNIVERSITY	3517	53806	15.3	71	83
5	PEKING UNIVERSITY	3062	53230	17.38	50	86
6	BEIJING NORMAL UNIVERSITY	3499	44557	12.73	39	107
7	ZHEJIANG UNIVERSITY	2931	41270	14.08	46	119
8	NANJING UNIVERSITY	2951	40590	13.75	38	124
9	GUANGZHOU INSTITUTE OF GEOCHEMISTRY, CAS	1316	31368	23.84	13	175
10	INSTITUTE OF GEOGRAPHIC SCIENCES & NATURAL RESOURCES RESEARCH, CAS	2646	29636	11.2	46	185
11	TONGJI UNIVERSITY	2282	29586	12.96	23	186
12	HARBIN INSTITUTE OF TECHNOLOGY	1623	23850	14.7	30	250

13	SUN YAT SEN UNIVERSITY	1879	23166	12.33	34	259
14	CHINESE RESEARCH ACADEMY OF ENVIRONMENTAL SCIENCES	1677	21846	13.03	14	274
15	NANKAI UNIVERSITY	1152	20547	17.84	14	290
16	CHINA AGRICULTURAL UNIVERSITY	1640	20229	12.33	22	296
17	SHANGHAI JIAO TONG UNIVERSITY	1350	20200	14.96	31	297
18	FUDAN UNIVERSITY	1226	17696	14.43	19	341
19	INSTITUTE OF SOIL SCIENCE, CAS	1100	17297	15.72	17	348
20	INSTITUTE OF BOTANY, CAS	893	17106	19.16	21	352
21	NANJING AGRICULTURAL UNIVERSITY	1179	16883	14.32	17	355
22	INSTITUTE OF URBAN ENVIRONMENT, CAS	1048	16584	15.82	17	360

23	NORTHWEST A&F UNIVERSITY - CHINA	1690	16461	9.74	24	363
24	OCEAN UNIVERSITY OF CHINA	1564	16313	10.43	17	367
25	CHINA UNIVERSITY OF GEOSCIENCES	1888	15749	8.34	10	384
26	CHINESE ACADEMY OF AGRICULTURAL SCIENCES	1486	15608	10.5	20	389
27	NANJING INSTITUTE OF GEOGRAPHY & LIMNOLOGY, CAS	1193	14799	12.4	11	409
28	EAST CHINA NORMAL UNIVERSITY	1120	14460	12.91	34	422
29	HOHAI UNIVERSITY	2044	14162	6.93	10	444
30	XIAMEN UNIVERSITY	1141	13865	12.15	7	451
31	DALIAN UNIVERSITY OF TECHNOLOGY	991	13669	13.79	8	460
32	HUNAN UNIVERSITY	716	13610	19.01	66	464

33	SHENYANG INSTITUTE OF APPLIED ECOLOGY, CAS	888	13370	15.06	14	481
34	NORTH CHINA ELECTRIC POWER UNIVERSITY	1009	13347	13.23	42	483
35	LANZHOU UNIVERSITY	1160	12723	10.97	12	512
36	SHANDONG UNIVERSITY	1092	11877	10.88	7	538
37	WUHAN UNIVERSITY	1443	11749	8.14	8	542
38	YANTAI INSTITUTE OF COASTAL ZONE RESEARCH, CAS	747	11587	15.51	11	548
39	UNIVERSITY OF SCIENCE & TECHNOLOGY OF CHINA	736	11496	15.62	12	553
40	COLD & ARID REGIONS ENVIRONMENTAL & ENGINEERING RESEARCH INSTITUTE, CAS	888	10757	12.11	5	581
41	BEIJING FORESTRY UNIVERSITY	1178	10558	8.96	8	589

42	INSTITUTE OF TIBETAN PLATEAU RESEARCH, CAS	483	10514	21.77	17	591
43	UNIVERSITY TOWN OF SHENZHEN	701	10086	14.39	8	607
44	INSTITUTE OF HYDROBIOLOGY, CAS	895	9632	10.76	7	630
45	XINJIANG INSTITUTE OF ECOLOGY & GEOGRAPHY, CAS	924	9459	10.24	5	640
46	HUAZHONG UNIVERSITY OF SCIENCE & TECHNOLOGY	955	9451	9.9	12	641
47	INSTITUTE OF ATMOSPHERIC PHYSICS, CAS	595	8993	15.11	12	659
48	SOUTH CHINA UNIVERSITY OF TECHNOLOGY	866	8907	10.29	12	660
49	XISHUANGBANNA TROPICAL BOTANICAL GARDEN, CAS	522	8894	17.04	12	661

50	HUAZHONG AGRICULTURAL UNIVERSITY	932	8698	9.33	3	675
51	TIANJIN UNIVERSITY	995	8459	8.5	18	686
52	SOUTH CHINA BOTANICAL GARDEN, CAS	499	8373	16.78	11	690
53	NANJING UNIVERSITY OF INFORMATION SCIENCE & TECHNOLOGY	964	8205	8.51	8	705
54	CENTRAL SOUTH UNIVERSITY	699	8178	11.7	32	707
55	JINAN UNIVERSITY	948	8030	8.47	13	719
56	ZHEJIANG UNIVERSITY OF TECHNOLOGY	634	7681	12.12	12	737
57	CHINESE CENTER FOR DISEASE CONTROL & PREVENTION	662	7297	11.02	7	755
58	INSTITUTE OF ZOOLOGY, CAS	507	7218	14.24	4	760

59	STATE OCEANIC ADMINISTRATION	827	6945	8.4	5	780
60	CHINA UNIVERSITY OF MINING & TECHNOLOGY	1086	6808	6.27	11	797
61	CHINESE ACADEMY OF FORESTRY	657	6667	10.15	8	806
62	INSTITUTE OF EARTH ENVIRONMENT, CAS	514	6543	12.73	6	816
63	CHONGQING UNIVERSITY	828	6461	7.8	18	822
64	SOUTH CHINA SEA INSTITUTE OF OCEANOLOGY, CAS	553	6330	11.45	2	836
65	INSTITUTE OF SOIL & WATER CONSERVATION (ISWC), CAS	654	6273	9.59	5	842
66	SICHUAN UNIVERSITY	1047	6085	5.81	5	853
67	SHANGHAI UNIVERSITY	488	5827	11.94	8	873
68	XI'AN JIAOTONG UNIVERSITY	554	5658	10.21	7	895

69	INSTITUTE OF OCEANOLOGY, CAS	845	5656	6.69	2	897
70	NANJING NORMAL UNIVERSITY	688	5526	8.03	6	906
71	NORTHEAST INSTITUTE OF GEOGRAPHY & AGROECOLOGY, CAS	748	5436	7.27	3	919
72	INSTITUTE OF MOUNTAIN HAZARDS & ENVIRONMENT, CAS	660	5410	8.2	2	922
73	GUANGDONG UNIVERSITY OF TECHNOLOGY	344	5366	15.6	10	925
74	WUHAN BOTANICAL GARDEN, CAS	347	5347	15.41	9	929
75	CHINA METEOROLOGICAL ADMINISTRATION	469	5219	11.13	6	942
76	BEIJING UNIVERSITY OF TECHNOLOGY	450	5102	11.34	8	950

77	CHINA INSTITUTE OF WATER RESOURCES & HYDROPOWER RESEARCH	773	4971	6.43	4	974
78	NORTHEAST NORMAL UNIVERSITY - CHINA	546	4944	9.05	6	977
79	SOUTHEAST UNIVERSITY - CHINA	738	4883	6.62	5	983
80	ZHEJIANG A&F UNIVERSITY	315	4846	15.38	13	988
81	JILIN UNIVERSITY	796	4580	5.75	3	1025
82	CHINESE ACADEMY OF FISHERY SCIENCES	674	4523	6.71	4	1034
83	UNIVERSITY OF SCIENCE & TECHNOLOGY BEIJING	539	4518	8.38	2	1036
84	KUNMING INSTITUTE OF BOTANY, CAS	345	4448	12.89	3	1046

表 15　长安大学环境/生态科学论文情况（2009-2019）

机构名称	Web of Science 论文数	总被引次数	ESI 环境/生态科学 本期机构被引阈值
长安大学	545	3,917	4,448
MINISTRY OF NATURAL RESOURCES & FORESTRY	347	4，448	

三．陕西省内高校 ESI 全球前 1%学科对比分析

将陕西省内有进入 ESI 全球前 1%学科的高校进行了对比分析。表 16 列出了陕西省内高校进入 ESI 全球前 1%的学科名称、个数、WOS 发文量和被引频次，从中可以看出，全省有 13 所高校拥有 ESI 排名前 1%学科，其中最多的为西安交通大学，有 15 个学科。长安大学相比上一期有很大进步，但仍然需要全校师生的努力，以实现更多优势学科的突破发展。图 6 为 13 所高校 2009-2019 年的发文量图示，图 7 为 13 所高校 2009-2019 年发文被引频次图示，图 8 为 13 所高校 2009-2019 年论文发文量、被引频次、论文被引百分比的雷达图，从图中可以看出我校在发文数量、被引频次等与排名前列高校还存在一定的差距，还需要更加努力。

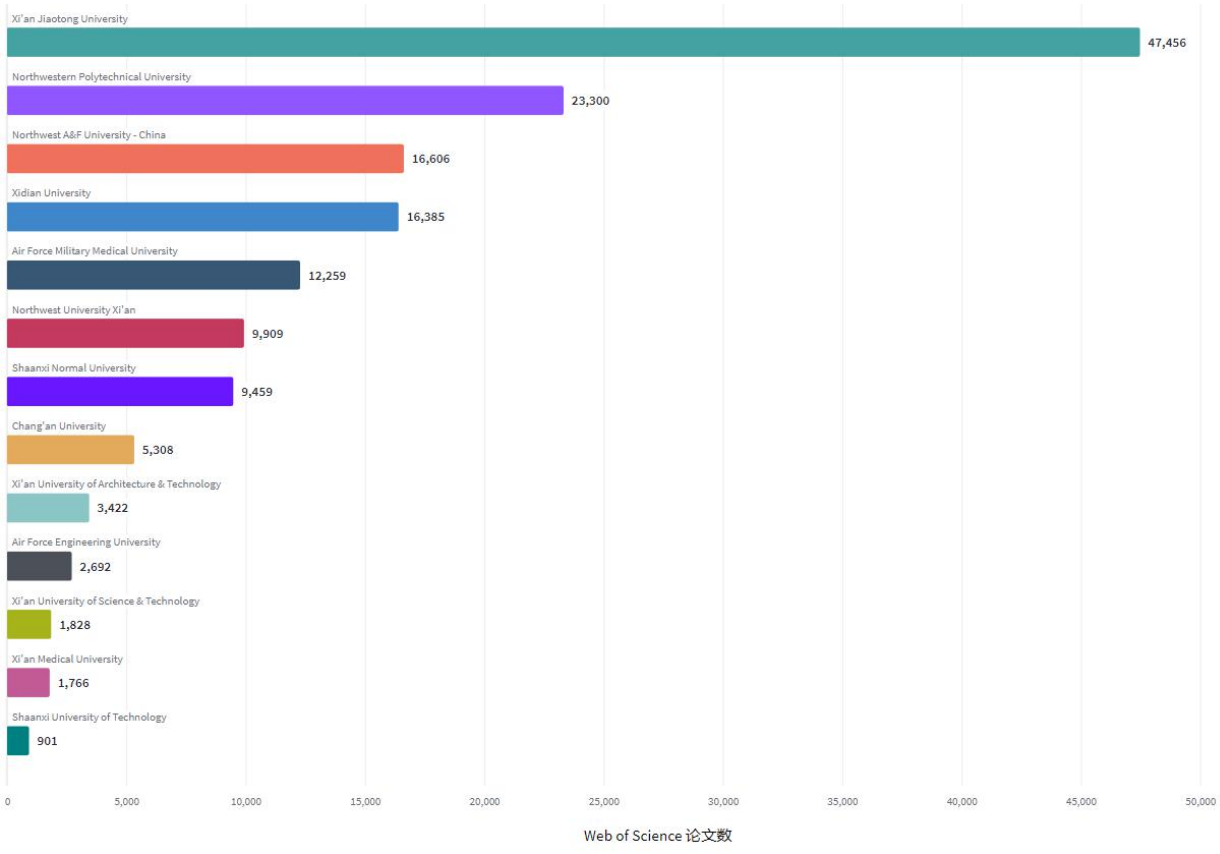

图 6　13 所高校发文量图示（2009-2019）

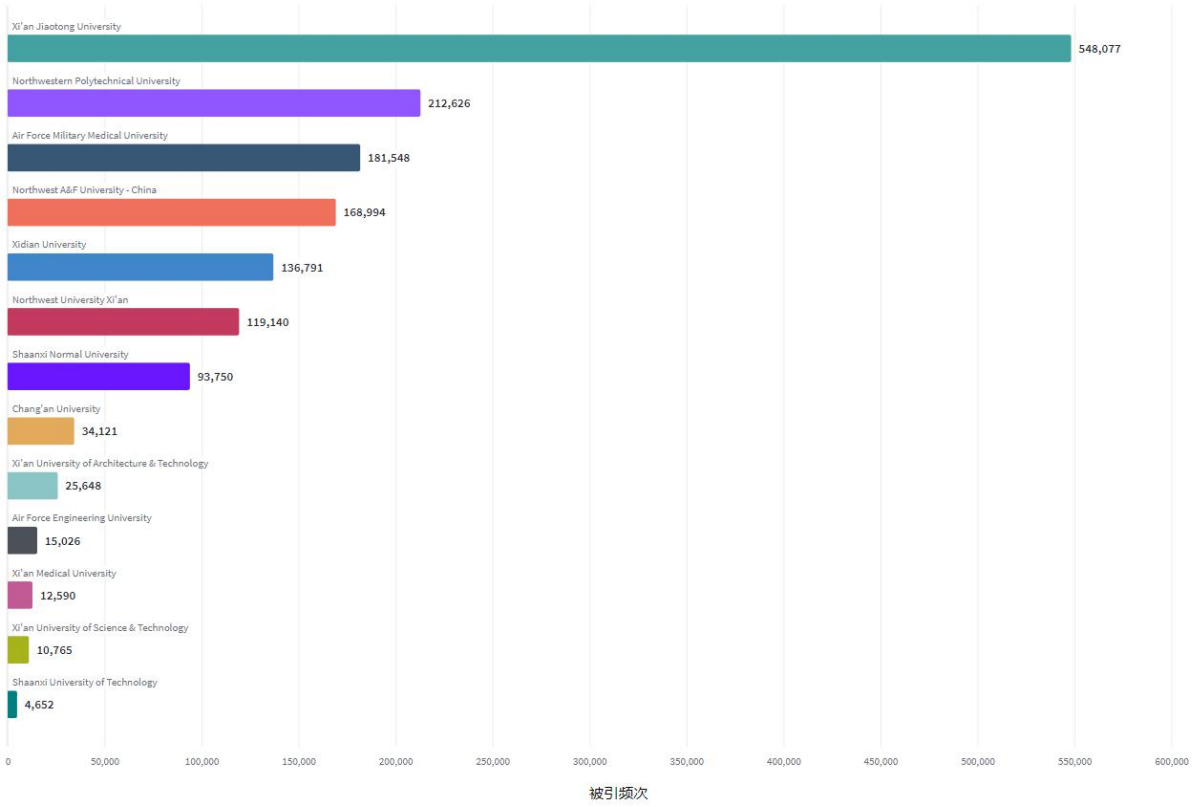

图 7　13 所高校发文被引频次图示（2009-2019）

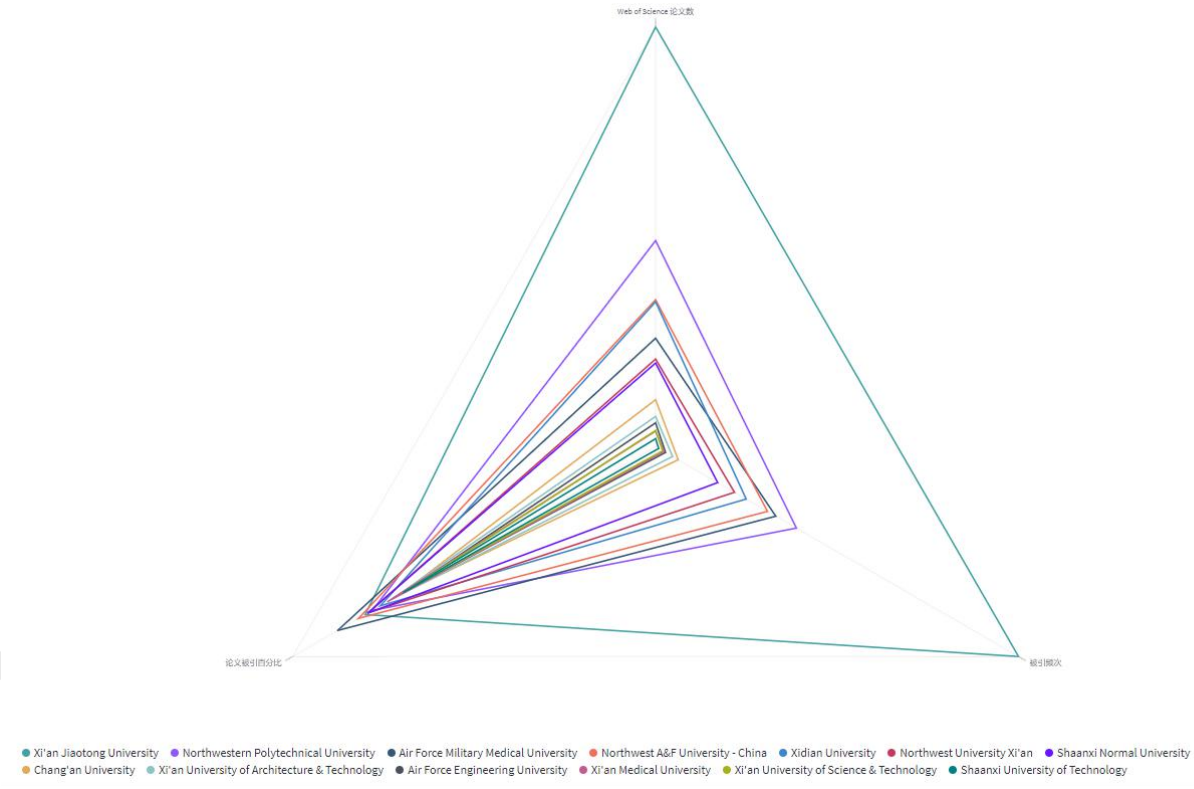

图 8　13 所高校论文发文量、被引频次、论文被引百分比雷达图（2009-2019）

表 16　陕西省内高校 ESI 全球前 1%学科概况

序号	高校名称	论文篇数	总被引频次	进入前 1%的学科数	学科名称	全球 ESI 排位
1	西安交通大学	46702	498669	15	ENGINEERING	316/6214
					MATERIALS SCIENCE	
					CHEMISTRY	
					CLINICAL MEDICINE	
					PHYSICS	
					MOLECULAR BIOLOGY & GENETICS	
					GEOSCIENCES	
					COMPUTER SCIENCE	
					BIOLOGY & BIOCHEMISTRY	
					PHARMACOLOGY & TOXICOLOGY	
					NEUROSCIENCE & BEHAVIOR	
					MATHEMATICS	
					ENVIRONMENT/ECOLOGY	

					ECONOMICS & BUSINESS	
					SOCIAL SCIENCES, GENERAL	
2	第四军医大学	12173	175033	6	CLINICAL MEDICINE	834/6214
					MOLECULAR BIOLOGY & GENETICS	
					NEUROSCIENCE & BEHAVIOR	
					BIOLOGY & BIOCHEMISTRY	
					PHARMACOLOGY & TOXICOLOGY	
					MATERIALS SCIENCE	
3	西北农林科技大学	16337	160184	8	AGRICULTURAL SCIENCES	897/6214
					PLANT & ANIMAL SCIENCE	
					ENVIRONMENT/ECOLOGY	
					CHEMISTRY	
					MOLECULAR BIOLOGY & GENETICS	
					BIOLOGY & BIOCHEMISTRY	

					ENGINEERING	
					PHARMACOLOGY & TOXICOLOGY	
4	西北工业大学	22861	191123	5	MATERIALS SCIENCE	776/6214
					ENGINEERING	
					CHEMISTRY	
					PHYSICS	
					COMPUTER SCIENCE	
5	西北大学	9767	113281	5	CHEMISTRY	1171/6214
					GEOSCIENCES	
					MATERIALS SCIENCE	
					ENGINEERING	
					CLINICAL MEDICINE	
6	陕西师范大学	9332	88364	3	CHEMISTRY	1395/6214
					MATERIALS SCIENCE	
					AGRICULTURAL SCIENCES	

					ENGINEERING	
7	西安电子科技大学	16172	112445	3	ENGINEERING COMPUTER SCIENCE GEOSCIENCES	1177/6214
8	长安大学	5207	31548	2	ENGINEERING GEOSCIENCES	2792/6214
9	陕西科技大学	3408	25157	2	MATERIALS SCIENCE CHEMISTRY	3177/6214
10	西安理工大学	4694	25590	2	MATERIALS SCIENCE ENGINEERING	3146/6214
11	西安建筑科技大学	956	5759	1	ENGNEERING	3311/6214
12	空军工程大学	2660	13156	1	ENGINEERING	4292/6214
13	西安医学院	1736	12182	1	CLINICAL MEDICINE	4429/6214

长安大学一级学科与 ESI 学科的对照：

ESI 是按照 SCI/SSCI 的期刊属性来对学科进行分类，这种分类体系和我校的学科设置不能完全匹配，因此我校如果要在相关学科进入全球前 1%，全校各个学科的师生都需要在该学科领域做出贡献。

表 17　ESI 学科与我校的学科对照表

ESI 学科	对应的我校一级学科	对应的学院
工程学	交通运输工程	公路学院
	材料科学与工程	材料科学与工程学院
	测绘科学与技术	地质工程与测绘学院
	环境科学与工程	水利与环境学院
	水利工程	水利与环境学院
	土木工程	建筑工程学院
	机械工程	汽车学院
地球科学	地质学	地质工程与测绘学院
		地球科学与资源学院
材料科学	材料科学与工程	材料科学与工程学院
		电子与控制工程学院

社会科学	管理科学与工程	经济与管理学院
	地理学	地质工程与测绘工程学院
经济与商业	经济学	经济与管理学院

注：表格中所有统计数据截止到 2019 年 11 月 19 日。