

长安大学 ESI 月报

(2020 年 11 月 24 日更新数据)

数据统计分析：图书馆参考咨询部

联系电话：029-82339986

自 2018 年 5 月起，根据 ESI 数据库的更新时间，长安大学图书馆参考咨询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和教职工查阅。

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，它可以确定出在某个研究领域有影响力的国家、机构、论文、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、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，用户可以通过它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 能够提供 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）是指将最近十年发表的论文按照同一年、同一 ESI 学科论文的被引频次由高到低进行排序，排在世界前 1% 的论文。从理论上讲，如果一篇论文被引频次达到前 1% 则表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）是指最近 2 年内发表的论文且该论文在最近 2 个月内被引次数排在全球相应学科领域的前 1% 以内。

本次数据统计分析时间：2020.11.25

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2020 年 11 月 25 日，最新一期的 ESI 数据更新，其统计数据覆盖的时间范围为 2010 年 1 月 1 日至 2020 年 8 月 31 日（跨度为十年八个月）。数据显示：本次上榜机构总数为 6888 所，相对于 2020 年 9 月公布的机构总数增加了 143 所；中国上榜机构总数为 603 所（其中大陆 503，台湾 85，香港 12，澳门 2），比 2020 年 9 月公布的数据增加了 15 所。

本期数据显示，中国大陆发表约 311 万篇文章，比上期公布多 9 万篇（时间多了 7、8 两个月）；被引 3798 万次，比上期公布多 192 万次。文章数及文章被引排名均为全球第二；篇均被引 12.20 次，篇均被引稳步提升。

中国大陆一共 318 所高校有学科进入全球前 1%，新增 5 所，退出 0 所。新增上榜高校为：中南林业科技大学、武汉纺织大学、湖州师范学院、辽宁石油化工大学、石家庄铁道大学。

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

本次 ESI 统计数据显示，全球位列 ESI 高水平研究机构总数为 6888 所，我校位列 2344 位（上期为 2393 位），ESI 全球排位 34.03%（上期排位 35.48%）；本期我校共有四个 ESI 学科进入全球排名前 1%，分别为：工程学、地球科学、材料科学和环境/生态科学。本次数据统计覆盖范围内，我校发表的论文总数为 7,139，总被引频次为 49,565 次，篇均被引频次为 6.94 次，其中 ESI 高被引论文有 110 篇，（见表 1，其发表的年代分布见图 1），比上期（115 篇）减少 5 篇。这些 ESI 高被引论文分布在：工程学领域 32 篇，地球科学领域 14 篇，材料科学领域 7 篇，环境/生态科学领域 35 篇。在所有 ESI 高被引论文中，我校教师、学生作为第一作者发文 84 篇，其中作为第一通讯作者发文 4 篇（表 1 中高亮显示），作为合作单位发表的高被引论文数为 25 篇（见表 2）。本期我校 ESI 热点论文有 4 篇：全部分布在工程学领域（见表 3）；我校作为合作单位发表的 ESI 高被引论文数为 1 篇（见表 4）。

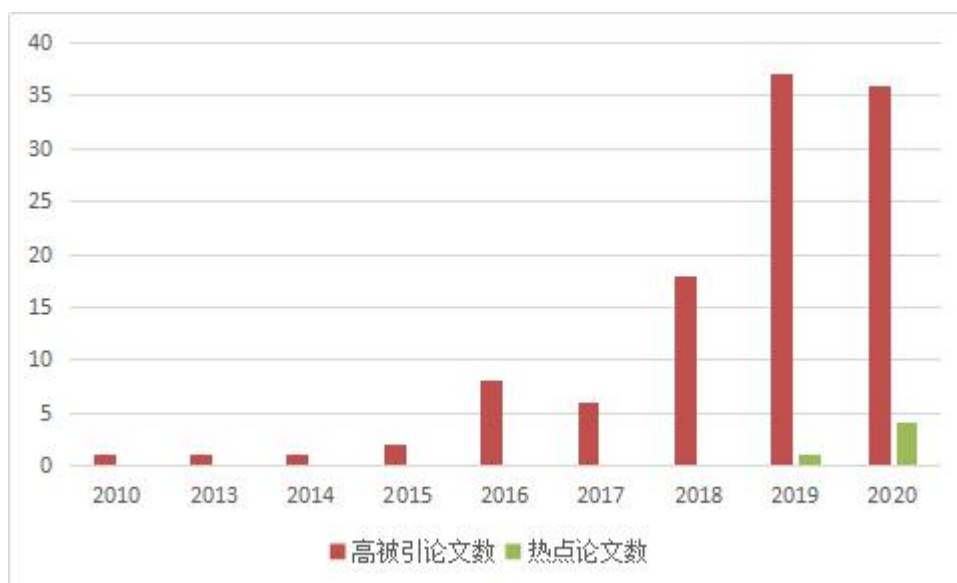


图1 2020年11月长安大学ESI高被引论文、热点论文的年代分布

表 1 长安大学 ESI 高被引论文简况（按 ESI 被引次数排序）

序号	论文名称	号	作者	来源期刊	ESI 学科	ESI 被引次数
1	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	203
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	191
3	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	160
4	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	143
5	MICROWAVE-ASSISTED IN SITU SYNTHESIS OF REDUCED GRAPHENE OXIDE-BIVO4 COMPOSITE PHOTOCATALYSTS AND THEIR ENHANCED PHOTOCATALYTIC PERFORMANCE FOR THE	000317878400014	YAN, Y;SUN, SF;SONG, Y;YAN, X;GUAN, WS;LIU, XL;SHI, WD	JOURNAL OF HAZARDOUS MATERIALS 250 106-114 APR 15	ENGINEERING	141

	DEGRADATION OF CIPROFLOXACIN			2013		
6	MICROWAVE SYNTHESIS OF A NOVEL MAGNETIC IMPRINTED TIO ₂ 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	137
7	HYDROGEOCHEMICAL CHARACTERIZATION OF GROUNDWATER IN AND AROUND A WASTEWATER IRRIGATED FOREST IN THE SOUTHEASTERN EDGE OF THE TENGER 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	129
8	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	125
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,	GEOCHIMICA ET COSMOCHIMICA ACTA 156 173-193 MAY 1 2015	GEOSCIENCES	114

			M;SHU, DG;HAN, J;LI, Y;CHU, XL;ANBAR, AD			
10	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	113
11	IN SITU SYNTHESIS OF Z-SCHEME AG ₃ PO ₄ /CUBI ₂ O ₄ 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	107
12	MOF-DERIVED POROUS N-CO ₃ O ₄ @N-C NANODODECAHEDRA WRAPPED WITH REDUCED GRAPHENE OXIDE AS A HIGH CAPACITY CATHODE FOR LITHIUM-SULFUR BATTERIES	000424466300041	XU, J;ZHANG, WX;CHEN, Y;FAN, HB;SU, DW;WANG, GX	JOURNAL OF MATERIALS CHEMISTRY A 6 (6) 2797-2807 FEB 14 2018	MATERIALS SCIENCE	105
13	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	102
14	PROMOTING LITHIUM POLYSULFIDE/SULFIDE REDOX KINETICS BY THE CATALYZING OF ZINC SULFIDE FOR HIGH PERFORMANCE LITHIUM-SULFUR BATTERY	000440682100009	XU, J;ZHANG, WX;FAN, HB;CHENG, FL;SU, DW;WANG, GX	NANO ENERGY 51 73-82 SEP 2018	MATERIALS SCIENCE	98

15	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	90
16	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	87
17	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	84
18	A HIGH-ORDER TWO-STEP PHASE-FITTED METHOD FOR THE NUMERICAL SOLUTION OF THE SCHRÖDINGER EQUATION	000387090000085	ZHANG, W;SIMOS, TE	MEDITERRANEAN JOURNAL OF MATHEMATICS 13 (6) 5177-5194 DEC 2016	MATHEMATICS	80
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 - 2016	ENGINEERING	79
20	GEOCHEMISTRY, HYDRAULIC CONNECTIVITY AND QUALITY APPRAISAL OF MULTILAYERED	000431882400002	LI, PY;WU, JH;TIAN, R;HE, S;HE, XD;XUE,	MINE WATER AND THE	ENVIRONMENT/ ECOLOGY	79

	GROUNDWATER IN THE HONGDUNZI COAL MINE, NORTHWEST CHINA		CY;ZHANG, K	ENVIRONMENT 37 (2) 222-237 SP. ISS. SI JUN 2018		
21	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	75
22	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	74
23	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	73
24	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	72
25	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	ENVIRONMENT/ ECOLOGY	71

				RESOURCES DEVELOPMENT 34 (3) 337-353 SP. ISS. SI 2018		
26	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	69
27	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	64
28	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-BASE L 8 (12) - DEC 2018	ENGINEERING	62
29	INVESTIGATING THE LONG-TERM SETTLEMENT OF A TUNNEL BUILT OVER IMPROVED LOESSIAL	000441684700001	QIU, JL;LIU, HQ;LAI, JX;LAI, HP;CHEN,	JOURNAL OF PERFORMANCE	ENGINEERING	59

	FOUNDATION SOIL USING JET GROUTING TECHNIQUE		JX;WANG, K	OF CONSTRUCTED FACILITIES 32 (5) - OCT 2018		
30	STUDY ON HIGHLY ENHANCED PHOTOCATALYTIC TETRACYCLINE DEGRADATION OF TYPE II AGI/CUBI2O4 AND Z-SCHEME AGR/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	59
31	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	58
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	ENGINEERING	57
33	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	57
34	SEASONAL HYDROCHEMICAL CHARACTERIZATION AND GROUNDWATER	000449851900003	LI, PY;HE, S;HE, XD;TIAN, R	EXPOSURE AND HEALTH 10 (4)	ENVIRONMENT/ ECOLOGY	53

	QUALITY DELINEATION BASED ON MATTER ELEMENT EXTENSION ANALYSIS IN A PAPER WASTEWATER IRRIGATION AREA, NORTHWEST CHINA			241-258 DEC 2018		
35	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	52
36	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	52
37	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	52
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 - 2018	ENGINEERING	49
39	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	GEOSCIENCES	48

				2018		
40	NOX EMISSION OF BIODIESEL COMPARED TO DIESEL HIGHER OR LOWER?	000434491500058	CHEN, H;XIE, B;MA, JQ;CHEN, YS	APPLIED THERMAL ENGINEERING 137 584-593 JUN 5 2018	ENGINEERING	47
41	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	43
42	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	43
43	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	43
44	PONTRYAGINS MINIMUM PRINCIPLE BASED MODEL PREDICTIVE CONTROL OF ENERGY	000458712500069	XIE, SB;HU, XS;XIN, ZK;BRIGHTON, J	APPLIED ENERGY 236	ENGINEERING	40

	MANAGEMENT FOR A PLUG-IN HYBRID ELECTRIC BUS			893-905 FEB 15 2019		
45	IN-SITU INCORPORATION OF COPPER(II) PORPHYRIN FUNCTIONALIZED ZIRCONIUM MOF AND TiO ₂ FOR EFFICIENT PHOTOCATALYTIC CO ₂ REDUCTION	000483302000011	WANG, L;JIN, PX;DUAN, SH;SHE, HD;HUANG, JW;WANG, QZ	SCIENCE BULLETIN 64 (13) 926-933 JUL 15 2019	CHEMISTRY	38
46	CO-Fe MIXED METAL PHOSPHIDE NANOCUBES WITH HIGHLY INTERCONNECTED-PORE ARCHITECTURE AS AN EFFICIENT POLYSULFIDE MEDIATOR FOR LITHIUM-SULFUR BATTERIES	000466052900099	CHEN, Y;ZHANG, WX;ZHOU, D;TIAN, HJ;SU, DW;WANG, CY;STOCKDALE, D;KANG, FY;LI, BH;WANG, GX	ACS NANO 13 (4) 4731-4741 APR 2019	MATERIALS SCIENCE	38
47	COMPREHENSIVE UNDERSTANDING OF GROUNDWATER QUALITY FOR DOMESTIC AND AGRICULTURAL PURPOSES IN TERMS OF HEALTH RISKS IN A COAL MINE AREA OF THE ORDOS BASIN, NORTH OF THE CHINESE LOESS PLATEAU	000476489300015	WU, JH;ZHOU, H;HE, S;ZHANG, YX	ENVIRONMENTAL EARTH SCIENCES 78 (15) - AUG 2019	ENVIRONMENT/ ECOLOGY	37
48	DEFINING A DIGITAL TWIN-BASED CYBER-PHYSICAL PRODUCTION SYSTEM FOR AUTONOMOUS MANUFACTURING IN SMART SHOP FLOORS	000487303600005	DING, K;CHAN, FTS;ZHANG, XD;ZHOU, GH;ZHANG, FQ	INTERNATIONAL JOURNAL OF PRODUCTION RESEARCH 57 (20) 6315-6334 OCT 18 2019	ENGINEERING	37
49	GLOBAL ASYMPTOTIC STABILITY OF CNNs WITH IMPULSES AND MULTI-PROPORTIONAL DELAYS	000370234600010	SONG, XL;ZHAO, P;XING, ZW;PENG, JG	MATHEMATICAL METHODS IN	MATHEMATICS	37

				THE APPLIED SCIENCES 39 (4) 722-733 MAR 2016		
50	GROUNDWATER QUALITY FOR DRINKING AND IRRIGATION PURPOSES AND POTENTIAL HEALTH RISKS ASSESSMENT A CASE STUDY FROM SEMI-ARID REGION OF SOUTH INDIA	000469217300004	ADIMALLA, N	EXPOSURE AND HEALTH 11 (2) 109-123 SP. ISS. SI JUN 2019	ENVIRONMENT/ ECOLOGY	34
51	GROUNDWATER SPRING POTENTIAL MAPPING USING POPULATION-BASED EVOLUTIONARY ALGORITHMS AND DATA MINING METHODS	000472024300004	CHEN, W;TSANGARATOS, P;ILIA, I;DUAN, Z;CHEN, XJ	SCIENCE OF THE TOTAL ENVIRONMENT 684 31-49 SEP 20 2019	ENVIRONMENT/ ECOLOGY	34
52	STATISTICAL AND MULTIVARIATE STATISTICAL TECHNIQUES TO TRACE THE SOURCES AND AFFECTING FACTORS OF GROUNDWATER POLLUTION IN A RAPIDLY GROWING CITY ON THE CHINESE LOESS PLATEAU	000470507400001	WU, JH;LI, PY;WANG, D;REN, XF;WEI, MJ	HUMAN AND ECOLOGICAL RISK ASSESSMENT 26 (6) 1603-1621 JUL 2 2020	ENVIRONMENT/ ECOLOGY	33
53	DAY-AHEAD TRAFFIC FLOW FORECASTING BASED ON A DEEP BELIEF NETWORK OPTIMIZED BY THE MULTI-OBJECTIVE PARTICLE SWARM ALGORITHM	000463129500001	LI, LC;QIN, LQ;QU, X;ZHANG, J;WANG, YG;RAN, B	KNOWLEDGE-BASED SYSTEMS 172 1-14 MAY 15 2019	COMPUTER SCIENCE	33
54	ENHANCING DISCHARGE OF SPOIL TO MITIGATE DISTURBANCE INDUCED BY HORIZONTAL JET GROUTING IN CLAYEY SOIL THEORETICAL	000469160500020	WANG, ZF;SHEN, SL;MODONI, G	COMPUTERS AND GEOTECHNICS	COMPUTER SCIENCE	32

	MODEL AND APPLICATION			111 222-228 JUL 2019		
55	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	31
56	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	30
57	INVESTIGATION ON COMBUSTION AND EMISSION CHARACTERISTICS OF A COMMON RAIL DIESEL ENGINE FUELED WITH DIESEL/N-PENTANOL/METHANOL BLENDS	000456351800026	CHEN, H;SU, X;HE, JJ;XIE, B	ENERGY 167 297-311 JAN 15 2019	ENGINEERING	30
58	DRINKING WATER QUALITY AND PUBLIC HEALTH	000469217300001	LI, PY;WU, JH	EXPOSURE AND HEALTH 11 (2) 73-79 SP. ISS. SI JUN 2019	ENVIRONMENT/ ECOLOGY	30
59	FEMTOSECOND LASER IRRADIATION OF CARBON NANOTUBES TO METAL ELECTRODES	000459976200116	CUI, JL;CHENG, Y;ZHANG, JW;MEI, HH;WANG, XW	APPLIED SCIENCES-BASE L 9 (3) - FEB 1 2019	ENGINEERING	29
60	EFFECTS OF GASOLINE AND POLYOXYMETHYLENE DIMETHYL ETHERS BLENDING IN DIESEL ON THE COMBUSTION AND EMISSION OF A COMMON RAIL DIESEL ENGINE	000461534400077	CHEN, H;SU, X;LI, JH;ZHONG, XL	ENERGY 171 981-999 MAR 15 2019	ENGINEERING	29

61	SUSTAINABLE LIVING WITH RISKS MEETING THE CHALLENGES	00046954800001	LI, PY;WU, JH	HUMAN AND ECOLOGICAL RISK ASSESSMENT 25 (1-2) 1-10 SP. ISS. SI FEB 17 2019	ENVIRONMENT/ ECOLOGY	28
62	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	27
63	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	27
64	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	25
65	FINDING HIGH-QUALITY GROUNDWATER	000532189100016	WANG, D;WU,	EXPOSURE AND	ENVIRONMENT/	25

	RESOURCES TO REDUCE THE HYDATIDOSIS INCIDENCE IN THE SHIQU COUNTY OF SICHUAN PROVINCE, CHINA ANALYSIS, ASSESSMENT, AND MANAGEMENT		JH;WANG, YH;JI, YJ	HEALTH 12 (2) 307-322 JUN 2020	ECOLOGY	
66	CONTINUUM ANALYSIS OF THE STRUCTURALLY CONTROLLED DISPLACEMENTS FOR LARGE-SCALE UNDERGROUND CAVERNS IN BEDDED ROCK MASSES	000514214800046	LI, A;LIU, Y;DAI, F;LIU, K;WEI, MD	TUNNELLING AND UNDERGROUND SPACE TECHNOLOGY 97 - MAR 2020	ENGINEERING	23
67	RELATIONSHIPS OF GROUNDWATER QUALITY AND ASSOCIATED HEALTH RISKS WITH LAND USE/LAND COVER PATTERNS A CASE STUDY IN A LOESS AREA, NORTHWEST CHINA	000473500400019	HE, S;WU, JH	HUMAN AND ECOLOGICAL RISK ASSESSMENT 25 (1-2) 354-373 SP. ISS. SI FEB 17 2019	ENVIRONMENT/ ECOLOGY	23
68	POTENTIAL HEALTH RISK ASSESSMENT FOR FLUORIDE AND NITRATE CONTAMINATION IN HARD ROCK AQUIFERS OF SHANMUGANADHI RIVER BASIN, SOUTH INDIA	000473500400014	KARUNANIDHI, D;ARAVINTHASAMY, P;SUBRAMANI, T;WU, JH;SRINIVASAMOORTH Y, K	HUMAN AND ECOLOGICAL RISK ASSESSMENT 25 (1-2) 250-270 SP. ISS. SI FEB 17 2019	ENVIRONMENT/ ECOLOGY	23
69	PUBLIC ACCEPTANCE OF FULLY AUTOMATED	000458171100005	LIU, P;YANG, R;XU, ZG	RISK ANALYSIS	SOCIAL	22

	DRIVING EFFECTS OF SOCIAL TRUST AND RISK/BENEFIT PERCEPTIONS			39 (2) 326-341 SP. ISS. SI FEB 2019	SCIENCES, GENERAL	
70	DISTRIBUTION AND GENETIC TYPES OF LOESS LANDSLIDES IN CHINA	000460713200024	PENG, JB;WANG, SK;WANG, QY;ZHUANG, JQ;HUANG, WL;ZHU, XH;LENG, YQ;MA, PH	JOURNAL OF ASIAN EARTH SCIENCES 170 329-350 FEB 2019	GEOSCIENCES	21
71	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	21
72	HEAVY METALS CONTAMINATION IN URBAN SURFACE SOILS OF MEDAK PROVINCE, INDIA, AND ITS RISK ASSESSMENT AND SPATIAL DISTRIBUTION	000512034200005	ADIMALLA, N	ENVIRONMENTAL GEOCHEMISTRY AND HEALTH 42 (1) 59-75 SP. ISS. SI JAN 2020	ENVIRONMENT/ ECOLOGY	18
73	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	16
74	POOR GROUNDWATER QUALITY AND HIGH POTENTIAL HEALTH RISKS IN THE DATONG BASIN, NORTHERN CHINA RESEARCH FROM PUBLISHED DATA	000516648200001	HE, XD;LI, PY;WU, JH;WEI, MJ;REN, XF;WANG, D	ENVIRONMENTAL GEOCHEMISTRY AND HEALTH - FEB 25 2020	ENVIRONMENT/ ECOLOGY	16

75	MULTI-CRITERIA USER EQUILIBRIUM MODEL CONSIDERING TRAVEL TIME, TRAVEL TIME RELIABILITY AND DISTANCE	000459368100002	SUN, C;CHENG, L;ZHU, SL;HAN, F;CHU, ZM	TRANSPORTATION RESEARCH PART D-TRANSPORT AND ENVIRONMENT 66 3-12 SP. ISS. SI JAN 2019	SOCIAL SCIENCES, GENERAL	15
76	FABRICATION OF BIVO4 PHOTOANODE COCATALYZED WITH NICO-LAYERED DOUBLE HYDROXIDE FOR ENHANCED PHOTOACTIVITY OF WATER OXIDATION	000510526000002	SHE, HD;YUE, PF;MA, XY;HUANG, JW;WANG, L;WANG, QZ	APPLIED CATALYSIS B-ENVIRONMENTAL 263 - APR 2020	CHEMISTRY	15
77	A NEW TRANSIT NETWORK DESIGN STUDY IN CONSIDERATION OF TRANSFER TIME COMPOSITION	000459368100009	FENG, XS;ZHU, XJ;QIAN, XP;JIE, YP;MA, F;NIU, XJ	TRANSPORTATION RESEARCH PART D-TRANSPORT AND ENVIRONMENT 66 85-94 SP. ISS. SI JAN 2019	SOCIAL SCIENCES, GENERAL	15
78	APPLICATION OF NUMERICAL SIMULATION METHOD TO IMPROVE SHEAR STRENGTH AND RUTTING RESISTANCE OF ASPHALT MIXTURE	000495795100011	JI, XP;JIANG, YJ;ZOU, HW;CAO, F;HOU, YQ	INTERNATIONAL JOURNAL OF PAVEMENT ENGINEERING 21 (1) 112-121 JAN 2	ENGINEERING	14

				2020		
79	RELATIONSHIP BETWEEN THE DEVELOPMENT AND CO2 EMISSIONS OF TRANSPORT SECTOR IN CHINA	000486359000001	LI, Y;DU, Q;LU, XR;WU, J;HAN, X	TRANSPORTATION RESEARCH PART D-TRANSPORT AND ENVIRONMENT 74 1-14 SEP 2019	SOCIAL SCIENCES, GENERAL	14
80	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 18 (1) 361-396 JAN 2019	MATHEMATICS	14
81	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	13
82	SPATIAL DISTRIBUTION, EXPOSURE, AND POTENTIAL HEALTH RISK ASSESSMENT FROM NITRATE IN DRINKING WATER FROM SEMI-ARID REGION OF SOUTH INDIA	000521279900003	ADIMALLA, N	HUMAN AND ECOLOGICAL RISK ASSESSMENT 26 (2) 310-334 FEB 7 2020	ENVIRONMENT/ ECOLOGY	12
83	HIDDEN MARKOV MODEL-BASED AUTONOMOUS MANUFACTURING TASK ORCHESTRATION IN SMART SHOP FLOORS	000496834800034	DING, K;LEI, JY;FELIX, TSC;HUI, JZ;ZHANG, FQ;WANG, Y	ROBOTICS AND COMPUTER-INTEGRATED	ENGINEERING	12

				MANUFACTURING 61 - FEB 2020		
84	RECENT MASSIVE INCIDENTS FOR SUBWAY CONSTRUCTION IN SOFT ALLUVIAL DEPOSITS OF TAIWAN A REVIEW	000509614300004	CHENG, WC;LI, G;LIU, NN;XU, J;HORPIBULSUK, S	TUNNELLING AND UNDERGROUND SPACE TECHNOLOGY 96 - FEB 2020	ENGINEERING	11
85	THE PRECURSOR-GUIDED HYDROTHERMAL SYNTHESIS OF CUBI2O4/WO3 HETEROSTRUCTURE WITH ENHANCED PHOTOACTIVITY UNDER SIMULATED SOLAR LIGHT IRRADIATION AND MECHANISM INSIGHT	000504778400029	WANG, LP;HUANG, TT;YANG, GP;LU, CY;DONG, FL;LI, YL;GUAN, WS	JOURNAL OF HAZARDOUS MATERIALS 381 - JAN 5 2020	ENGINEERING	11
86	AUTOMATIC MONITORING SYSTEM IN UNDERGROUND ENGINEERING CONSTRUCTION REVIEW AND PROSPECT	000546138000001	WANG, LX;XU, SS;QIU, JL;WANG, K;MA, EL;LI, CJ;GUO, CX	ADVANCES IN CIVIL ENGINEERING 2020 - JUN 19 2020	ENGINEERING	11
87	COMPARATIVE STUDY ON METAL/CFRP HYBRID STRUCTURES UNDER STATIC AND DYNAMIC LOADING	000528193000006	ZHU, GH;LIAO, JP;SUN, GY;LI, Q	INTERNATIONAL JOURNAL OF IMPACT ENGINEERING 141 - JUL 2020	ENGINEERING	11
88	A LITERATURE REVIEW ON PROPERTIES AND APPLICATIONS OF GROUTS FOR SHIELD TUNNEL	000521514300003	HE, SY;LAI, JX;WANG, LX;WANG, K	CONSTRUCTION AND BUILDING	MATERIALS SCIENCE	11

				MATERIALS 239 - APR 10 2020		
89	GROUNDWATER ARSENIC AND FLUORIDE AND ASSOCIATED ARSENICOSIS AND FLUOROSIS IN CHINA OCCURRENCE, DISTRIBUTION AND MANAGEMENT	000516430700001	HE, XD;LI, PY;JI, YJ;WANG, YH;SU, ZM;VETRIMURUGAN, E	EXPOSURE AND HEALTH 12 (3) 355-368 SP. ISS. SI SEP 2020	ENVIRONMENT/ ECOLOGY	11
90	SAFETY RISKS AND PROTECTION MEASURES FOR CITY WALL DURING CONSTRUCTION AND OPERATION OF XIAN METRO	000515519500017	QIU, JL;QIN, YW;FENG, ZH;WANG, LX;WANG, K	JOURNAL OF PERFORMANCE OF CONSTRUCTED FACILITIES 34 (2) - APR 1 2020	ENGINEERING	11
91	MOISTURE ABSORPTION CHARACTERISTICS AND THERMAL INSULATION PERFORMANCE OF THERMAL INSULATION MATERIALS FOR COLD REGION TUNNELS	000527320400083	LI, YY;SUN, YM;QIU, JL;LIU, T;YANG, L;SHE, HD	CONSTRUCTION AND BUILDING MATERIALS 237 - MAR 20 2020	MATERIALS SCIENCE	10
92	PERFORMANCE OF A DEEP EXCAVATION IN LANZHOU STRONG PERMEABLE SANDY GRAVEL STRATA	000513943700002	ZHENG, YC;XIONG, J;LIU, T;YUE, XB;QIU, JL	ARABIAN JOURNAL OF GEOSCIENCES 13 (4) - FEB 5 2020	GEOSCIENCES	10
93	REVIEW OF APPLICATION AND INNOVATION OF GEOTEXTILES IN GEOTECHNICAL ENGINEERING	000529875600292	WU, H;YAO, CK;LI, CH;MIAO, M;ZHONG, YJ;LU, YQ;LIU, T	MATERIALS 13 (7) - APR 2020	MATERIALS SCIENCE	10
94	INVESTIGATION OF THE FATIGUE PROPERTIES OF ASPHALT MIXTURE DESIGNED USING VERTICAL	000544423100016	JIANG, YJ;DENG, CQ;XUE, JS;LIU,	ROAD MATERIALS	ENGINEERING	10

	VIBRATION METHOD		HP;CHEN, ZJ	AND PAVEMENT DESIGN 21 (5) 1454-1469 JUL 3 2020		
95	EXPERIMENTAL STUDY ON THE EFFECT OF WATER GUSHING ON LOESS METRO TUNNEL	000540526400002	QIU, JL;LU, YQ;LAI, JX;ZHANG, YW;YANG, T;WANG, K	ENVIRONMENTAL EARTH SCIENCES 79 (11) - MAY 28 2020	ENVIRONMENT/ ECOLOGY	10
96	NEW CONSTRUCTION TECHNOLOGY OF A SHALLOW TUNNEL IN BOULDER-COBBLE MIXED GROUNDS	000522931300001	LIU, T;ZHONG, YJ;FENG, ZH;XU, W;SONG, FT;LI, CH	ADVANCES IN CIVIL ENGINEERING 2020 - MAR 21 2020	ENGINEERING	9
97	A COMPARATIVE STUDY OF PROTECTIVE SCHEMES FOR SHIELD TUNNELING ADJACENT TO PILE GROUPS	000510884200002	LI, PL;LU, YQ;LAI, JX;LIU, HQ;WANG, K	ADVANCES IN CIVIL ENGINEERING 2020 - JAN 21 2020	ENGINEERING	9
98	GRAPHENE/TOURMALINE COMPOSITES AS A FILLER OF HOT MIX ASPHALT MIXTURE PREPARATION AND PROPERTIES	000521514300047	CHEN, Q;WANG, CH;QIAO, Z;GUO, TT	CONSTRUCTION AND BUILDING MATERIALS 239 - APR 10 2020	MATERIALS SCIENCE	9
99	GEOHAZARDS, REFLECTION AND CHALLENGES IN MOUNTAIN TUNNEL CONSTRUCTION OF CHINA A DATA COLLECTION FROM 2002 TO 2018	000527111000001	WANG, XL;LAI, JX;QIU, JL;XU, W;WANG, LX;LUO, YB	GEOMATICS NATURAL HAZARDS &	GEOSCIENCES	8

				RISK 11 (1) 766-784 2020		
100	TREATMENT AND EFFECT OF LOESS METRO TUNNEL UNDER SURROUNDING PRESSURE AND WATER IMMERSION ENVIRONMENT	000544663000001	WANG, LX;LI, CH;QIU, JL;WANG, K;LIU, T;LI, H	GEOFLUIDS 2020 - JUN 13 2020	GEOSCIENCES	8
101	FAILURE MECHANISMS AND MODES OF TUNNELS IN MONOCLINIC AND SOFT-HARD INTERBEDDED ROCKS A CASE STUDY	000519927100029	CHEN, JX;LIU, WW;CHEN, LJ;LUO, YB;LI, Y;GAO, HJ;ZHONG, DC	KSCE JOURNAL OF CIVIL ENGINEERING 24 (4) 1357-1373 APR 2020	ENGINEERING	8
102	PROPAGATION PHENOMENA FOR PARTIALLY DEGENERATE NONLOCAL DISPERSAL MODELS IN TIME AND SPACE PERIODIC HABITATS	000488994500012	BAO, XX;LI, WT	NONLINEAR ANALYSIS-REAL WORLD APPLICATIONS 51 - FEB 2020	MATHEMATICS	8
103	MEASURING THE IMPACT OF RENEWABLE ENERGY, PUBLIC HEALTH EXPENDITURE, LOGISTICS, AND ENVIRONMENTAL PERFORMANCE ON SUSTAINABLE ECONOMIC GROWTH	000505681000001	KHAN, SAR;ZHANG, Y;KUMAR, A;ZAVADSKAS, E;STREIMIKIENE, D	SUSTAINABLE DEVELOPMENT 28 (4) 833-843 JUL 2020	SOCIAL SCIENCES, GENERAL	8
104	CHARACTERISTICS OF MICROSEISMICITY DURING BREAKTHROUGH IN DEEP TUNNELS CASE STUDY OF JINPING-II HYDROPOWER STATION IN CHINA	000502794700037	FENG, GL;FENG, XT;CHEN, BR;XIAO, YX;LIU, GF;ZHANG, W;HU, L	INTERNATIONAL JOURNAL OF GEOMECHANICS 20 (2) - FEB 1 2020	ENGINEERING	8
105	UNIQUENESS AND STABILITY OF TIME-PERIODIC	000475504300014	BAO, XX;LI, WT;WANG,	COMMUNICATIO	MATHEMATICS	7

	PYRAMIDAL FRONTS FOR A PERIODIC COMPETITION-DIFFUSION SYSTEM		ZC	NS ON PURE AND APPLIED ANALYSIS 19 (1) 253-277 JAN 2020		
106	KARST GEOLOGY AND MITIGATION MEASURES FOR HAZARDS DURING METRO SYSTEM CONSTRUCTION IN WUHAN, CHINA	000541003300001	WANG, XL;LAI, JX;HE, SY;GARNES, RS;ZHANG, YW	NATURAL HAZARDS 103 (3) 2905-2927 SEP 2020	GEOSCIENCES	7
107	PREPARATION OF HETEROMETALLIC CONI-MOFS-MODIFIED BIVO4 A STEADY PHOTOANODE FOR IMPROVED PERFORMANCE IN PHOTOELECTROCHEMICAL WATER SPLITTING	000517665200001	ZHOU, SQ;CHEN, KY;HUANG, JW;WANG, L;ZHANG, MY;BAI, B;LIU, H;WANG, QZ	APPLIED CATALYSIS B-ENVIRONMEN TAL 266 - JUN 5 2020	CHEMISTRY	7
108	HEAVY METALS POLLUTION ASSESSMENT AND ITS ASSOCIATED HUMAN HEALTH RISK EVALUATION OF URBAN SOILS FROM INDIAN CITIES A REVIEW	000512034200013	ADIMALLA, N	ENVIRONMENTAL GEOCHEMISTRY AND HEALTH 42 (1) 173-190 SP. ISS. SI JAN 2020	ENVIRONMENT/ ECOLOGY	7
109	SEASONAL VARIATION OF DRINKING WATER QUALITY AND HUMAN HEALTH RISK ASSESSMENT IN HANCHENG CITY OF GUANZHONG PLAIN, CHINA	000524920400001	JI, YJ;WU, JH;WANG, YH;ELUMALAI, V;SUBRAMANI, T	EXPOSURE AND HEALTH 12 (3) 469-485 SP. ISS. SI SEP 2020	ENVIRONMENT/ ECOLOGY	7
110	CONTROLLING FACTORS AND MECHANISM OF GROUNDWATER QUALITY VARIATION IN	000548696800019	ADIMALLA, N	ENVIRONMENTAL	ENVIRONMENT/ ECOLOGY	6

	SEMIARID REGION OF SOUTH INDIA AN APPROACH OF WATER QUALITY INDEX (WQI) AND HEALTH RISK ASSESSMENT (HRA)			GEOCHEMISTRY AND HEALTH 42 (6) 1725-1752 SP. ISS. SI JUN 2020		
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表 2 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	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);LIU, XL;SHI, WD	JOURNAL OF HAZARDOUS MATERIALS 250 106-114 APR 15 2013	ENGINEERING	141
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);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	137
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, Yong);CHU, XL;ANBAR, AD	GEOCHIMICA ET COSMOCHIMICA ACTA 156 173-193 MAY 1 2015	GEOSCIENCES	114

4	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) ;YUAN, SL	APPLIED CATALYSIS B-ENVIRONMENTAL 209 720-728 JUL 15 2017	CHEMISTRY	107
5	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) ;CHEN, Y;FAN, HB;SU, DW;WANG, GX	JOURNAL OF MATERIALS CHEMISTRY A 6 (6) 2797-2807 FEB 14 2018	MATERIALS SCIENCE	105
6	PROMOTING LITHIUM POLYSULFIDE/SULFIDE REDOX KINETICS BY THE CATALYZING OF ZINC SULFIDE FOR HIGH PERFORMANCE LITHIUM-SULFUR BATTERY	000440682100009	XU, J; ZHANG, WX (Zhang, Wenxue) ;FAN, HB;CHENG, FL;SU, DW;WANG, GX	NANO ENERGY 51 73-82 SEP 2018	MATERIALS SCIENCE	98
7	LANDSLIDE SUSCEPTIBILITY MODELLING USING GIS-BASED MACHINE LEARNING TECHNIQUES FOR CHONGREN COUNTY, JIANGXI PROVINCE, CHINA	000428194000110	CHEN, W; PENG, JB (Peng, Jianbing) ;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/EC OLOGY	90
8	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 (Peng, Jianbing) ;WANG, JL;DUAN, Z;HONG, HY	GEOMATICS NATURAL HAZARDS & RISK 8 (2) 950-973 2017	GEOSCIENCES	72
9	GIS-BASED LANDSLIDE SUSCEPTIBILITY EVALUATION USING A NOVEL HYBRID	000430031800015	CHEN, W;XIE, XS; PENG, JB (Peng, Jianbing) ;SHAHABI,	CATENA 164 135-149 MAY 2018	AGRICULTURAL SCIENCES	69

	INTEGRATION APPROACH OF BIVARIATE STATISTICAL BASED RANDOM FOREST METHOD		H;HONG, HY;BUI, DT;DUAN, Z;LI, SJ;ZHU, AX			
11	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) ;ZHANG, LY;CHAI, HC;MA, JQ;CHEN, YT;WANG, XJ;LI, RW;BIN AHMAD, B	APPLIED SCIENCES-BASEL 8 (12) - DEC 2018	ENGINEERING	62
12	CO-FE MIXED METAL PHOSPHIDE NANOCUBES WITH HIGHLY INTERCONNECTED-PORE ARCHITECTURE AS AN EFFICIENT POLYSULFIDE MEDIATOR FOR LITHIUM-SULFUR BATTERIES	000466052900099	CHEN, Y; ZHANG, WX (Zhang, Wenxue) ;ZHOU, D;TIAN, HJ;SU, DW;WANG, CY;STOCKDALE, D;KANG, FY;LI, BH;WANG, GX	ACS NANO 13 (4) 4731-4741 APR 2019	MATERIALS SCIENCE	38
13	GROUNDWATER SPRING POTENTIAL MAPPING USING POPULATION-BASED EVOLUTIONARY ALGORITHMS AND DATA MINING METHODS	000472024300004	CHEN, W;TSANGARATOS, P;ILIA, I;DUAN, Z; CHEN, XJ (Chen, Xinjian)	SCIENCE OF THE TOTAL ENVIRONMENT 684 31-49 SEP 20 2019	ENVIRONMENT/EC OLOGY	34
14	DAY-AHEAD TRAFFIC FLOW FORECASTING BASED ON A DEEP BELIEF NETWORK OPTIMIZED BY THE MULTI-OBJECTIVE PARTICLE SWARM ALGORITHM	000463129500001	LI, LC;QIN, LQ;QU, X; ZHANG, J;WANG, YG (Wang, Yonggang) ;RAN, B	KNOWLEDGE-BASED SYSTEMS 172 1-14 MAY 15 2019	COMPUTER SCIENCE	33
15	FEMTOSECOND LASER IRRADIATION OF CARBON NANOTUBES TO METAL ELECTRODES	000459976200116	CUI, JL;CHENG, Y;ZHANG, JW;MEI, HH;WANG, XW	APPLIED SCIENCES-BASEL 9 (3): - FEB 1 2019	ENGINEERING	29
16	POTENTIAL HEALTH RISK ASSESSMENT FOR FLUORIDE AND NITRATE CONTAMINATION IN	000473500400014	KARUNANIDHI, D;ARAVINTHASAMY,	HUMAN AND ECOLOGICAL RISK	ENVIRONMENT/EC OLOGY	23

	HARD ROCK AQUIFERS OF SHANMUGANADHI RIVER BASIN, SOUTH INDIA		P;SUBRAMANI, T; WU, JH (Wu, Jianhua) ;SRINIVASAMOORTHY, K	ASSESSMENT 25 (1-2) 250-270 SP. ISS. SI FEB 17 2019		
17	PUBLIC ACCEPTANCE OF FULLY AUTOMATED DRIVING EFFECTS OF SOCIAL TRUST AND RISK/BENEFIT PERCEPTIONS	000458171100005	LIU, P;YANG, R; XU, ZG (Xu, Zhigang)	RISK ANALYSIS 39 (2) 326-341 SP. ISS. SI FEB 2019	SOCIAL SCIENCES, GENERAL	22
18	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) ; XIE, YL (Xie, Yongli)	GEOFLUIDS - 2019	GEOSCIENCES	21
18						19
19	MODELING OF LOESS SOAKING INDUCED IMPACTS ON A METRO TUNNEL USING A WATER SOAKING SYSTEM IN CENTRIFUGE	000468457700001	ZHANG, YW; WENG, XL (Weng, Xiaolin) ;SONG, ZP; SUN, YF (Sun, Yufeng)	GEOFLUIDS - 2019	GEOSCIENCES	18
20	MULTI-CRITERIA USER EQUILIBRIUM MODEL CONSIDERING TRAVEL TIME, TRAVEL TIME RELIABILITY AND DISTANCE	000459368100002	SUN, C;CHENG, L;ZHU, SL; HAN, F (Han, Fei) ;CHU, ZM	TRANSPORTATION RESEARCH PART D-TRANSPORT AND ENVIRONMENT 66 3-12 SP. ISS. SI JAN 2019	SOCIAL SCIENCES, GENERAL	15
21	A NEW TRANSIT NETWORK DESIGN STUDY IN CONSIDERATION OF TRANSFER TIME COMPOSITION	000459368100009	FENG, XS;ZHU, XJ;QIAN, XP;JIE, YP;MA, F;NIU, XJ	TRANSPORTATION RESEARCH PART D-TRANSPORT AND ENVIRONMENT 66: 85-94 SP. ISS. SI JAN 2019	SOCIAL SCIENCES, GENERAL	15

22	HOW SAFE IS SAFE ENOUGH FOR SELF-DRIVING VEHICLES?	000458171100004	LIU, P (Xu, Zhigang) ;YANG, R;XU, ZG	RISK ANALYSIS 39 (2) 315-325 SP. ISS. SI FEB 2019	SOCIAL SCIENCES, GENERAL	13
23	RECENT MASSIVE INCIDENTS FOR SUBWAY CONSTRUCTION IN SOFT ALLUVIAL DEPOSITS OF TAIWAN A REVIEW	000509614300004	CHENG, WC;LI, G;LIU, NN (Liu, Nina) ;XU, J;HORPIBULSUK, S	TUNNELLING AND UNDERGROUND SPACE TECHNOLOGY 96 - FEB 2020	ENGINEERING	11
24	PERFORMANCE OF A DEEP EXCAVATION IN LANZHOU STRONG PERMEABLE SANDY GRAVEL STRATA	000513943700002	ZHENG, YC;XIONG, J;LIU, T;YUE, XB (Yue, Xiabing) ;QIU, JL (Qiu, Junling)	ARABIAN JOURNAL OF GEOSCIENCES 13 (4) - FEB 5 2020	GEOSCIENCES	10
25	NEW CONSTRUCTION TECHNOLOGY OF A SHALLOW TUNNEL IN BOULDER-COBBLE MIXED GROUNDS	000522931300001	LIU, T; ZHONG, YJ (Zhong, Yujian) ; Li, Chenghan) ;FENG, ZH (Feng, Zhihua) ;XU, W (Xu, Wei) ;SONG, FT (Song, Feiting) ;LI, CH	ADVANCES IN CIVIL ENGINEERING 2020 - MAR 21 2020	ENGINEERING	9
24	MEASURING THE IMPACT OF RENEWABLE ENERGY, PUBLIC HEALTH EXPENDITURE, LOGISTICS, AND ENVIRONMENTAL PERFORMANCE ON SUSTAINABLE ECONOMIC GROWTH	000505681000001	KHAN, SAR;ZHANG, Y;KUMAR, A;ZAVADSKAS, E;STREIMIKIENE, D	SUSTAINABLE DEVELOPMENT 28 (4): 833-843 JUL 2020	SOCIAL SCIENCES, GENERAL	8
25	CHARACTERISTICS OF MICROSEISMICITY DURING BREAKTHROUGH IN DEEP TUNNELS: CASE STUDY OF JINPING-II HYDROPOWER STATION IN CHINA	000502794700037	FENG, GL;FENG, XT;CHEN, BR;XIAO, YX;LIU, GF;ZHANG, W;HU, L	INTERNATIONAL JOURNAL OF GEOMECHANICS 20 (2): - FEB 1 2020	ENGINEERING	8

表 3 长安大学 ESI 热点论文 (按 ESI 被引频次排序)

序号	论文名称	号	作者	来源期刊	ESI 学科	ESI 被引次数
1	FEMTOSECOND LASER IRRADIATION OF CARBON NANOTUBES TO METAL ELECTRODES	000459976200116	CUI, JL;CHENG, Y;ZHANG, JW;MEI, HH;WANG, XW	APPLIED SCIENCES-BASEL 9 (3): - FEB 1 2019	ENGINEERING	29
2	CONTINUUM ANALYSIS OF THE STRUCTURALLY CONTROLLED DISPLACEMENTS FOR LARGE-SCALE UNDERGROUND CAVERNS IN BEDDED ROCK MASSES	000514214800046	LI, A;LIU, Y;DAI, F;LIU, K;WEI, MD	TUNNELLING AND UNDERGROUND SPACE TECHNOLOGY 97: - MAR 2020	ENGINEERING	23
3	COMPARATIVE STUDY ON METAL/CFRP HYBRID STRUCTURES UNDER STATIC AND DYNAMIC LOADING	000528193000006	ZHU, GH;LIAO, JP;SUN, GY;LI, Q	INTERNATIONAL JOURNAL OF IMPACT ENGINEERING 141: - JUL 2020	ENGINEERING	11
4	INVESTIGATION OF THE FATIGUE PROPERTIES OF ASPHALT MIXTURE DESIGNED USING VERTICAL VIBRATION METHOD	000544423100016	JIANG, YJ;DENG, CQ;XUE, JS;LIU, HP;CHEN, ZJ	ROAD MATERIALS AND PAVEMENT DESIGN 21 (5): 1454-1469 JUL 3 2020	ENGINEERING	10

表 4 长安大学作为合作单位发表的 ESI 热点论文 (按 ESI 被引次数排序)

序号	论文名称	号	作者	来源期刊	ESI 学科	ESI 被引次数
1	FEMTOSECOND LASER	000459976200116	CUI, JL;CHENG, Y;ZHANG,	APPLIED	ENGINEERING	29

	IRRADIATION OF CARBON NANOTUBES TO METAL ELECTRODES		JW;MEI, HH (Mei, Huanhuan, Changan Univ, Sch Construct Machinery 我 校);WANG, XW	SCIENCES-BASEL 9 (3): - FEB 1 2019		
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我校发表的 110 篇 ESI 高被引论文的院系分布情况：水利与环境学院 42 篇，位居首位；其次是公路学院 31 篇；汽车学院 9 篇；地质工程与测绘学院 7 篇；信息工程学 6 篇；理学院 4 篇；材料科学与工程学院 3 篇，工程机械学院 3 篇；经济与管理学院 3 篇；地球科学与资源学院 2 篇。从本期 ESI 数据可以看出，部分学院表现良好：水利与环境学院、公路学院是我校高被引论文最为集中的两个院系，并且其高被引论文基本维持比较稳定的发展趋势，其他学院也在不断地提升发展；本期工程机械学院近 12 期以来首次出现热点论文（为我校参与合作发表的论文）。表 5 和表 6 分别显示了我校近 11 期 ESI 高被引论文和 ESI 热点论文的院系分布变化情况。

表 5 近 12 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	工程机 械学院	经济管 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		
2020.1.9	39	28	12	6	6	2	2	2	1	
2020.3.12	36	25	9	8	6	2	2	2	1	
2020.5.14	28	35	8	8	6	3	2	3	2	1
2020.7.9	36	38	8	8	8	3	2	4	2	3
2020.9.10	35	43	10	7	7	4	3	4	2	

2020.11.24	31	42	9	6	7	3	2	4	3	3
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统计方法：（1）所有作者院系归属统计均按照发表该论文时署名的院系进行统计；（2）如果第一作者单位为长安大学，则按第一作者发表该论文时署名的院系进行归属统计；如果论文的第一通讯作者单位为长安大学，则按第一通讯作者发表该论文时署名的院系进行归属统计；如果论文为合作论文，则按照我校合作作者发表该论文时署名的院系进行归属统计。

表 6 近 12 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	工程机械学院
2019.1.19	2	2	1	1		
2019.3.14		1		1		
2019.5.9	6			2		
2019.7.11	本期我校无 ESI 热点论文					
2019.9.11					4	
2019.11.15	1	1				
2020.1.9				1		
2020.3.12					1	
2020.5.14					7	
2020.7.9	5				2	
2020.9.10	1				7	
2020.11.24	2		1			1

从 ESI 高被引论文的作者分布来看，我校已经涌现出一批发文量、被引频次较高的作者，我们对其院系分布、高被引论文数量（仅限第一作者署名单位为长安大学）进行了统计分析，详见表 7。

表 7 长安大学 ESI 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	所属院系	高被引论文数
Adimalla, Narsimha	水利与环境学院	5
Bao, Xiongxiang	理学院	3
Chen, Hao	汽车学院	3
Ding, Kai	工程机械学院	2
Dong, Ming	信息学院	1
Fan, Xiang	公路学院	1
Guo, Feng	水利与环境学院	2
He, Siyue	公路学院	1
He, Song	水利与环境学院	2
He, Xiaodong	水利与环境学院	3
Hui, Fei	信息工程学院	1
Ji, Xiaoping	公路学院	1
Jiang, Junjun	信息工程学院	1
Khan, Syed Abdul Rehman	经济与管理学院	1
Lai, Jinxing	公路学院	6
Leng, Yanqiu	地质工程与测绘学院	1
Li, Ang	公路学院	1
Li, Peiyue	水利与环境学院	14
Li, Penglin	公路学院	1
Li, Yi	经济与管理学院	1
Li, Youyun	公路学院	1
Peng, Jianbing	地质工程与测绘学院	1
Qi, D. H.	汽车学院	1
Qiu, Junling	公路学院	4
Ren, Chongfeng	水利与环境学院	1
Ren, Rui	公路学院	1
Song Xueli	理学院	1
Su, Fengmei	水利与环境学院	1
Tian, Rui	水利与环境学院	1
Wang, Liping	水利与环境学院	1
Wang, Ya-qiong	公路学院	2
Wang, Yonggang	公路学院	1
Wang, Zhichao	公路学院	1
Wang, Zhi-Feng	公路学院	3
Wu, Jianhua	水利与环境学院	3
Wu, Xia	信息工程学院	1
Xie, Shaobo	汽车学院	2

Xin, Qi	汽车学院	1
Xu, Xiao-Jian	公路学院	1
Yang, Liu	公路学院	1
Yu, Shaowei	信息	1
Zhang, Jiupeng	公路学院	1
Zhang, Ran	公路学院	1
Zhang, Shaobing	公路学院	1
Zhang, Wei	信息工程学院	1
Zhang, Yuting	水利与环境学院	1
Zhou, Zhijun	公路学院	1
Zhuang, Jianqi	地质工程与测绘学院	1

我们对 110 篇 ESI 高被引论文的来源期刊进行分析后，统计了 59 种来源期刊的名称、发文数量和影响因子（表 8）。其中，*EXPOSURE AND HEALTH* 是本期我校 ESI 高被引论文发文量最高的期刊，影响因子为 4.762，不含自引的期刊影响因子为 4.31，发表高被引论文为 12 篇；影响因子最高的期刊为 *APPLIED CATALYSIS B-ENVIRONMENTAL*，影响因子高达 16.683，发表的高被引论文为《In situ synthesis of Z-scheme Ag₃PO₄/CuBi₂O₄ photocatalysts and enhanced photocatalytic performance for the degradation of tetracycline under visible light irradiation》、《Preparation of heterometallic CoNi-MOFs-modified BiVO₄ a steady photoanode for improved performance in photoelectrochemical water splitting》、《Fabrication of BiVO₄ photoanode cocatalyzed with NiCo-layered double hydroxide for enhanced photoactivity of water oxidation》，来自于水利与环境学院。通过期刊规范化的引文影响力（Journal Normalized Citation Impact, JNCI）数值可以看到，我校 ESI 高被引论文来源期刊的 JNCI 值都大于 1，表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。图 2 展示了我校 110 篇 ESI 高被引论文的 59 种来源期刊的分区占比情况，其中 Q1 区的占比最高，Q2 区其次，两个区的占比达 75.67%，表明我校本期 ESI 高被引论文来源期刊的质量相对较高。

表 8 长安大学 ESI 高被引论文的 59 种来源期刊列表（按被引频次排序）

期刊名称	排名	Web of Science 论文数	被引频次	分区	期刊影响因子	期刊规范化的引文影响力
EXPOSURE AND HEALTH	1	12	912	Q1	4.762	6.41
ENVIRONMENTAL EARTH SCIENCES	2	5	385	Q2	2.18	17.13
HUMAN AND ECOLOGICAL RISK	3	9	339	Q3	2.3	8.92

ASSESSMENT						
JOURNAL OF HAZARDOUS MATERIALS	4	3	228	Q1	9.038	4.82
ENERGY CONVERSION AND MANAGEMENT	5	1	208	Q1	8.208	5.08
APPLIED CATALYSIS B-ENVIRONMENTAL	6	3	151	Q1	16.683	4.42
CHEMICAL ENGINEERING JOURNAL	7	1	140	Q1	10.652	3.6
SCIENCE OF THE TOTAL ENVIRONMENT	8	2	133	Q1	6.551	6.46
ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH	9	1	130	Q2	3.056	15.98
ARABIAN JOURNAL OF GEOSCIENCES	10	2	127	Q4	1.327	18.25
GEOCHIMICA ET COSMOCHIMICA ACTA	11	1	123	Q1	4.659	4.45
JOURNAL OF MATERIALS CHEMISTRY A	12	1	111	Q1	11.301	5.36
NANO ENERGY	13	1	105	Q1	16.602	3.39
APPLIED AND COMPUTATIONAL MATHEMATICS	14	1	101	Q1	2.354	9.91
NATURAL HAZARDS	15	3	100	Q2	2.427	5.47
ENERGY	16	3	99	Q1	6.082	5.51
MEDITERRANEAN JOURNAL OF MATHEMATICS	17	1	95	Q1	1.216	20.67
APPLIED SCIENCES-BASEL	18	2	93	Q2	2.474	15.13
IEEE TRANSACTIONS ON MULTIMEDIA	19	1	83	Q1	6.051	4.4
GEOMATICS NATURAL HAZARDS & RISK	20	2	82	Q1	3.333	8.22
JOURNAL OF SENSORS	21	1	80	Q3	1.595	13.6
MINE WATER AND THE ENVIRONMENT	22	1	79	Q1	3.184	13.28
INTERNATIONAL JOURNAL OF WATER RESOURCES DEVELOPMENT	23	1	75	Q1	3.136	9.42
JOURNAL OF PERFORMANCE OF CONSTRUCTED FACILITIES	24	2	74	Q3	1.648	14.65
CATENA	25	1	71	Q1	4.333	8.83
GEOFLUIDS	26	3	63	Q2	1.534	14.78
RENEWABLE & SUSTAINABLE ENERGY REVIEWS	27	1	58	Q1	12.11	2.25
NONLINEAR DYNAMICS	27	1	58	Q1	4.867	6.53

FILOMAT	27	1	58	Q2	0.848	26.1
ENGINEERING GEOLOGY	30	1	54	Q1	4.779	5.45
ENVIRONMENTAL GEOCHEMISTRY AND HEALTH	31	4	53	Q1	3.472	13.25
APPLIED THERMAL ENGINEERING	32	1	51	Q1	4.725	5.62
MATHEMATICAL PROBLEMS IN ENGINEERING	33	1	50	Q3	1.009	37.34
TRANSPORTATION RESEARCH PART D-TRANSPORT AND ENVIRONMENT	34	3	47	Q1	4.577	4.43
APPLIED ENERGY	35	1	46	Q1	8.848	6.14
ACS NANO	36	1	43	Q1	14.588	4.14
SCIENCE BULLETIN	36	1	43	Q1	9.511	6.17
INTERNATIONAL JOURNAL OF PRODUCTION RESEARCH	36	1	43	Q1	4.577	9.45
INTERNATIONAL JOURNAL OF PAVEMENT ENGINEERING	36	2	43	Q2	2.646	9.78
RISK ANALYSIS	40	2	38	Q1	3.137	7.44
KNOWLEDGE-BASED SYSTEMS	41	1	37	Q1	5.921	5.48
MATHEMATICAL METHODS IN THE APPLIED SCIENCES	41	1	37	Q2	1.626	6.54
TUNNELLING AND UNDERGROUND SPACE TECHNOLOGY	43	2	36	Q1	4.45	16.27
COMPUTERS AND GEOTECHNICS	44	1	34	Q1	3.818	7.65
CONSTRUCTION AND BUILDING MATERIALS	45	3	30	Q1	4.419	8.04
JOURNAL OF CLEANER PRODUCTION	46	1	29	Q1	7.246	4.11
ADVANCES IN CIVIL ENGINEERING	46	3	29	Q3	1.176	9.42
BULLETIN OF ENGINEERING GEOLOGY AND THE ENVIRONMENT	48	1	27	Q2	3.041	6.3
JOURNAL OF ASIAN EARTH SCIENCES	49	1	23	Q2	3.059	9.77
COMMUNICATIONS ON PURE AND APPLIED ANALYSIS	50	2	22	Q2	1.105	6.63
ACCIDENT ANALYSIS AND PREVENTION	51	1	17	Q1	3.655	4.17
INTERNATIONAL JOURNAL OF IMPACT ENGINEERING	52	1	16	Q1	3.642	16
ROBOTICS AND COMPUTER-INTEGRATED MANUFACTURING	53	1	12	Q1	5.057	7.68
MATERIALS	53	1	12	Q2	3.057	11.44

ROAD MATERIALS AND PAVEMENT DESIGN	55	1	10	Q2	2.582	8
SUSTAINABLE DEVELOPMENT	56	1	9	Q1	4.082	9
INTERNATIONAL JOURNAL OF GEOMECHANICS	57	1	9	Q2	2.589	9
NONLINEAR ANALYSIS-REAL WORLD APPLICATIONS	58	1	9	Q1	2.072	9
KSCE JOURNAL OF CIVIL ENGINEERING	59	1	9	Q3	1.515	9



图 2 长安大学 110 篇 ESI 高被引论文来源期刊的分区占比图

二. 我校 ESI 前 1% 学科概况与优势学科预测

本期我校有四个学科进入 ESI 全球前 1%：工程学、地球科学、材料科学和环境/生态科学。

本期我校在工程学领域共发表 ESI 论文 2,207 篇（ESI 高被引论文 32 篇），被引次数为 12,192 次。本期全球有 1,661 所机构（中国机构 304 所）的工程学学科进入 ESI 全球排名前 1% 行列，我校位列 587 位（在中国机构中位列 110 位），全球排位 35.34%，**进入全球 ESI 机构排名前千分之五**。表 9 为近 12 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 长安大学工程学发文量、被引频次以及 ESI 排名情况（近 12 期数据比较）

更新时间	中国机构排名	ESI 全球排名	论文数	被引频次
2018.11.16	122	904	998	4,434
2019.1.19	121	879	1,080	4,880
2019.3.14	122	863	1,140	5,283
2019.5.9	120	790	1,190	5,578
2019.7.11	126	769	1,276	6,153
2019.9.11	122	747	1,386	6,686
2019.11.15	120	723	1,489	7,338
2020.1.9	119	714	1,576	8,011
2020.3.12	118	701	1,680	8,799
2020.5.14	113	635	1,772	9,127
2020.7.9	110	608	1,917	10,156
2020.9.10	110	599	2,048	11,098
2020.11.24	110	587	2,207	12,192

注：中国机构包括了中国大陆机构和港、澳、台地区机构。下同。

本期我校在地球科学领域共发表 ESI 论文 1,194 篇（ESI 高被引论文 14 篇），被引次数为 9,589 次。本期全球有 776 所机构（中

国机构 71 所) 的地球科学进入 ESI 全球排名前 1% 行列, 我校位列 605 位 (中国机构中位列 51 位), 全球排位 77.96%。表 10 为近 7 期我校地球科学学 Web of Science 发文量、被引频次以及 ESI 排名情况。

表 10 长安大学地球科学发文量、被引频次以及 ESI 排名情况 (近 7 期数据比较)

更新时间	中国机构排名	ESI 全球排名	论文数	被引频次
2019.11.15	98	717	897	6,813
2020.1.9	61	672	950	7,295
2020.3.12	61	665	1,003	7,802
2020.5.14	56	617	1,035	7,830
2020.7.9	59	612	1,086	8,374
2020.9.10	57	605	1,151	8,970
2020.11.24	57	605	1,194	9,589

本期我校在材料科学领域共发表 ESI 论文 1,326 篇 (ESI 高被引论文 7 篇), 被引次数为 9,625 次。本期全球有 979 所机构 (中国机构 210 所) 的材料科学进入 ESI 全球排名前 1% 行列, 我校位列 790 位 (中国机构中位列 173 位), 全球排位 80.69%。表 11 为近 5 期我校材料科学 Web of Science 发文量、被引频次以及 ESI 排名情况。

表 11 长安大学材料科学发文量、被引频次以及 ESI 排名情况 (近 5 期数据比较)

更新时间	中国机构排名	ESI 全球排名	论文数	被引频次
2020.3.12	167	921	1,081	7,103
2020.5.14	188	876	1,107	7,117
2020.7.9	177	828	1,196	8,020
2020.9.10	176	808	1,258	8,797
2020.11.24	173	790	1,326	9,625

本期我校在环境/生态科学领域共发表 ESI 论文 773 篇 (ESI 高被引论文 35 篇), 被引用 6,920 次。本期全球有 1,180 所机构 (中

国机构 119 所) 的环境/生态科学进入 ESI 全球排名前 1% 行列, 我校位列 887 位 (中国机构中位列 88 位), 全球排位 75.17%。表 12 为近 4 期我校环境/生态科学 Web of Science 发文量、被引频次以及 ESI 排名情况。

表 12 长安大学环境/生态科学发文量、被引频次以及 ESI 排名情况 (近 4 期数据比较)

更新时间	中国大陆机构排名	ESI 全球排名	论文数	被引频次
2020.5.14	92	971	632	5,085
2020.7.9	81	942	679	5,615
2020.9.10	89	897	728	6,347
2020.11.24	88	887	773	6,920

表 13 为 2010-2020 年 (Incites 数据库统计时间为 2020.8.27) 我校 ESI 各学科的发文情况, 可以看到工程学、材料科学、地球科学和环境/生态科学为我校的优势学科, 其在发文数量、被引频次和学科规范化的引文影响力 (Category Normalized Citation Impact, CNCI) 值上均具有一定的影响力; 化学学科为我校的潜力发展学科, 要实现突破仍需要一定的努力。

表 13 长安大学 2010-2020 年 ESI 各学科发文概况

学科名称	排名	Web of Science 论文数	学科规范化的引文影响力	被引频次	论文被引百分比
Engineering	1	2267	1.034230701	13515	67.35774151
Materials Science	2	1360	0.831947794	10335	76.47058824
Geosciences	3	1209	1.047299917	10111	79.07361456
Environment/Ecology	4	785	1.613047643	7338	68.91719745
Chemistry	5	647	0.968242504	5633	78.51622875
Physics	6	290	0.75787931	2143	78.62068966
Computer Science	7	219	0.931498174	1221	67.57990868
Social Sciences, general	8	125	2.1290912	759	76

Mathematics	9	137	1.699093431	623	59.8540146
Agricultural Sciences	10	48	1.21793125	313	64.58333333
Biology & Biochemistry	11	41	0.732212195	274	70.73170732
Space Science	12	38	0.522863158	228	76.31578947
Plant & Animal Science	13	23	0.94073913	182	73.91304348
Economics & Business	14	18	1.407516667	120	72.22222222
Pharmacology & Toxicology	15	8	0.9399125	110	75
Clinical Medicine	16	25	0.448164	91	52
Neuroscience & Behavior	17	10	0.30095	71	50
Microbiology	18	5	1.27244	65	80
Psychiatry/Psychology	19	19	0.361142105	46	42.10526316
Molecular Biology & Genetics	20	3	0.3149	31	100
Multidisciplinary	21	7	0.411657143	30	71.42857143
Immunology	22	3	0.901333333	24	100

注：选取的是 Article 和 Review 类型的文献做统计

我们还对发文量前 5 的 ESI 学科进行了分析，发现工程学的发文量、被引频次均为最高；材料科学发文量、被引频次次之。

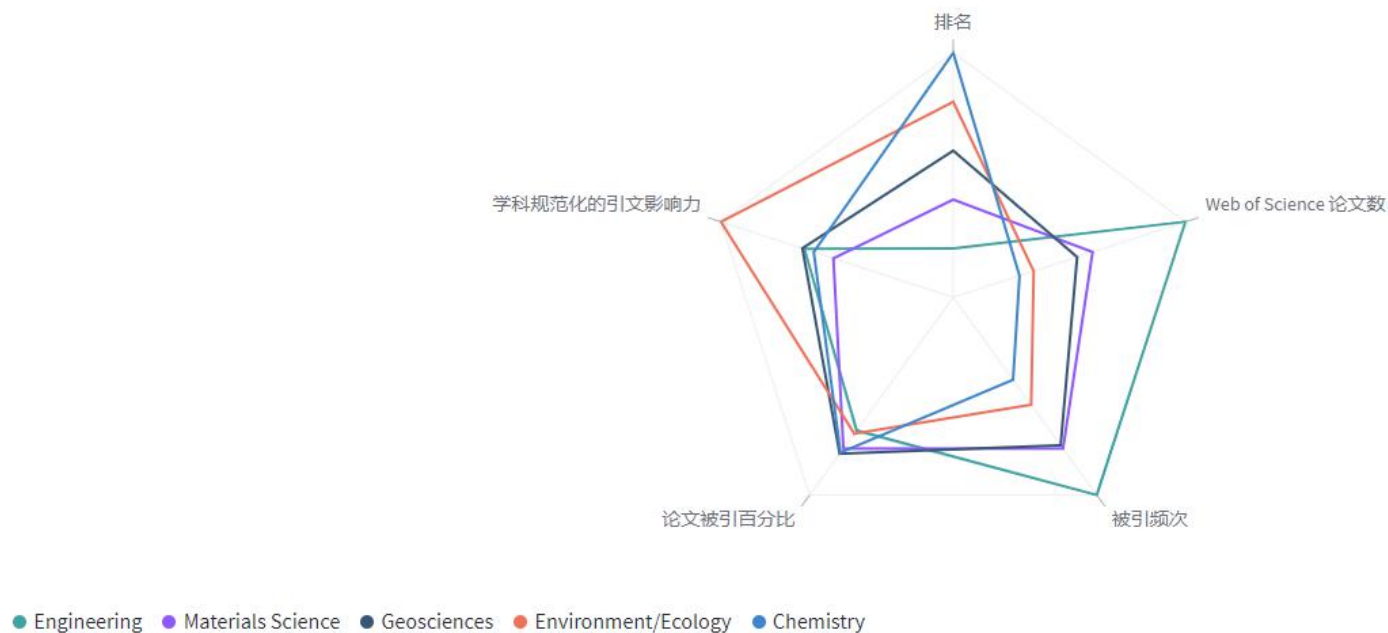


图3 长安大学发文量前5的ESI学科发文量、被引频次、CNCI、论文被引百分比的雷达图

从图4可以看到，工程学、地球科学、材料科学、环境/生态科学为我校优势学科，其中工程学、地球科学、环境/生态科学的CNCI值大于1，材料科学、化学的CNCI值接近1，表明我校这几个学科领域的研究已经达到或接近国际水平。

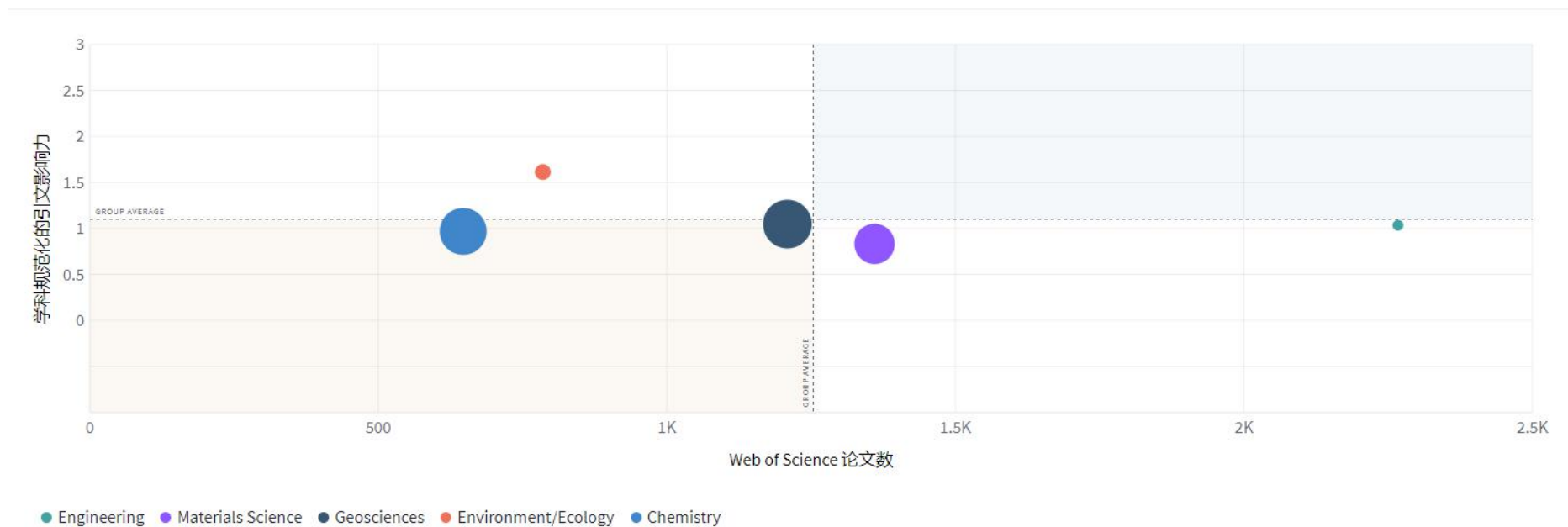


图 4 2010-2020 年长安大学发文量 TOP5 的 ESI 学科的 CNCI 值表现情况

在对 22 个 ESI 学科的阈值与我校各学科的被引频次进行比较后，我们进一步对具有进入全球前 1%潜力的学科进行了预测（图 5），化学学科是我校下一个有望突破 ESI 全球前 1%的学科，不过其接近度还存在一定的差距，需要全校相关研究领域的科研人员继续努力，以提高发文数量和被引频次。

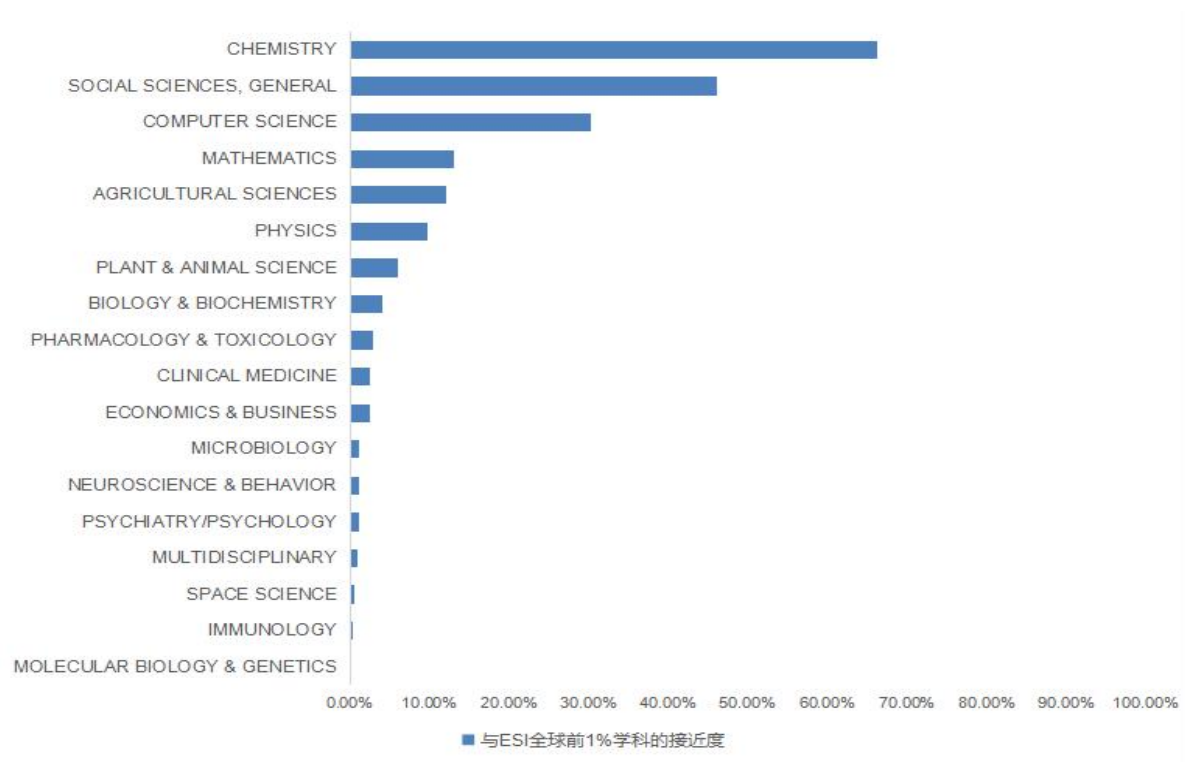


图 5 长安大学具有潜力进入 ESI 全球前 1%的学科预测情况

本期全球有 1383 所机构的化学学科进入 ESI 全球排名前 1%，其中中国机构数为 254 所。在对我校和全球化学学科进入 ESI 前 1% 排位的末位机构 UNIVERSIDADE FEDERAL DE UBERLANDIA 和 UNIV MARAGHEH 的发文量、被引频次进行对比后发现，我校的化学学科被引频次与化学学科的 ESI 阈值有一定的差距（表 14）。

表 14 长安大学化学学科论文情况（2010-2020.5.19）

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	647	5633	8,519
UNIV MARAGHEH	575	8519	
UNIVERSIDADE FEDERAL DE UBERLANDIA	822	8519	