

长安大学 ESI 月报

(2021 年 1 月 21 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、各院系、教职工参考查阅。

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：2021.1.21

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2021 年 1 月 21 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 10 月 31 日（跨度为十年十个月）。数据显示本次全球上榜机构总数为 7098 所，相对于 2020 年 11 月公布的数据增加了 210 所；中国上榜机构数为 613 所（大陆 513，台湾 85，香港 13，澳门 2），比 2020 年 11 月数据增加了 10 所；中国上榜高校数为 390 所（大陆 325，台湾 56，香港 7，澳门 2），比 2020 年 11 月数据增加了 7 所。新增上榜高校为：云南师范大学、安徽理工大学、黑龙江中医药大学、集美大学、华北水利水电大学、大连海洋大学、湖北理工学院。

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 7098 所，我校位列 2288 位（上期为 2393 位），ESI 全球排位 32.23%（上期为 34.03%）。本期共有四个 ESI 学科进入全球排名前 1%，分别为：**工程学 (Engineering)**、**地球科学 (Geosciences)**、**材料科学 (Materials Science)** 和 **环境/生态科学 (Environment/Ecology)**。本次数据统计覆盖范围内，我校发表的 WOS 论文总数为 7,549，总被引频次为 54,021 次，篇均被引频次为 7.16 次，其中 ESI 高被引论文有 117 篇（见表 1，其发表的年代分布见图 1），比上期（110 篇）增加 7 篇。这些 ESI 高被引论文分布在：工程学领域有 38 篇，环境/生态科学领域有 37 篇，地球科学领域有 15 篇，数学领域 7 篇，材料科学领域有 6 篇，社会科学总论 6 篇，化学领域 4 篇，计算机科学 3 篇，农业科学领域 1 篇；我校作为合作单位发表的 ESI 高被引论文数为 31 篇（见表 2）。本期我校 ESI 热点论文有 3 篇：社会科学总论 2 篇，工程学领域 1 篇（见表 3）；我校作为合作单位发表的 ESI 高被引论文数为 2 篇（见表 4）。

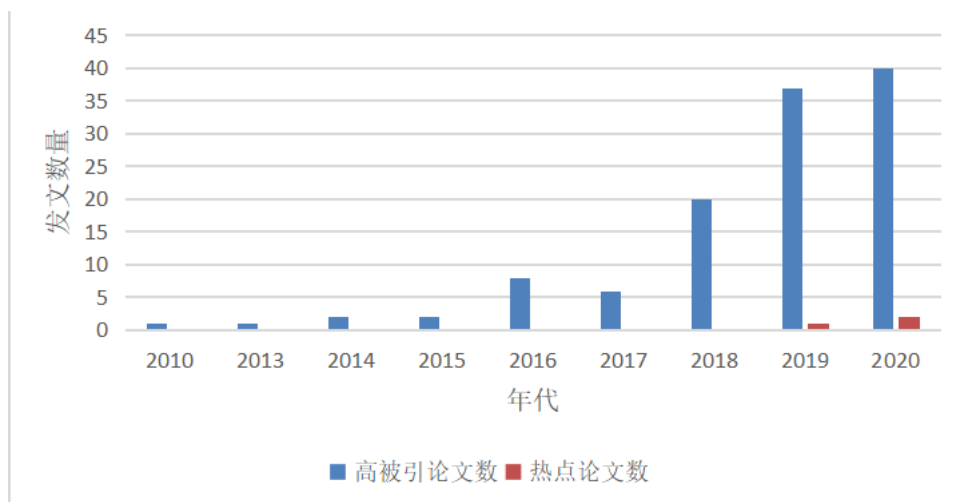


图 1 2021 年 1 月长安大学 ESI 高被引论文、热点论文的年代分布

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	WOS 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/EC OLOGY	216
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	192
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/EC OLOGY	164
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/EC OLOGY	153
5	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;SONG, Y;YAN, X;GUAN, WS;LIU, XL;SHI, WD	JOURNAL OF HAZARDOUS MATERIALS 250: 106-114 APR 15 2013	ENGINEERING	145

序号	论文名称	WOS 号	作者	来源期刊	ESI 学科	ESI 被引次数
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	141
7	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/EC OLOGY	134
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/EC OLOGY	134
9	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	122
10	URANIUM AND MOLYBDENUM ISOTOPE EVIDENCE FOR AN EPISODE OF WIDESPREAD OCEAN OXYGENATION DURING THE LATE	000352192100010	KENDALL, B;KOMIYA, T;LYONS, TW;BATES, SM;GORDON,	GEOCHIMICA ET COSMOCHIMICA ACTA 156: 173-193	GEOSCIENCES	121

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	EDIACARAN PERIOD		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	MAY 1 2015		
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	120
12	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	117
13	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	115
14	OCCURRENCE AND HEALTH IMPLICATION OF FLUORIDE IN GROUNDWATER OF LOESS AQUIFER IN THE CHINESE LOESS PLATEAU: A CASE STUDY	000469217300003	LI, PY;HE, XD;LI, Y;XIANG, G	EXPOSURE AND HEALTH 11 (2): 95-107 SP. ISS. SI	ENVIRONMENT/EC OLOGY	109

序号	论文名称	WOS 号	作者	来源期刊	ESI 学科	ESI 被引次数
	OF TONGCHUAN, NORTHWEST CHINA			JUN 2019		
15	A NEW NEURAL NETWORK MODEL FOR THE STATE-OF-CHARGE ESTIMATION IN THE BATTERY DEGRADATION PROCESS	000335429500003	KANG, LW;ZHAO, X;MA, J	APPLIED ENERGY 121: 20-27 MAY 15 2014	ENGINEERING	107
16	A QUANTITATIVE ANALYSIS OF HYDRAULIC INTERACTION PROCESSES IN STREAM AQUIFER SYSTEMS	000368794100001	WANG, WK;DAI, ZX;ZHAO, YQ;LI, JT;DUAN, L;WANG, ZF;ZHU, L	SCIENTIFIC REPORTS 6: - JAN 28 2016	ENVIRONMENT/EC OLOGY	106
17	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/EC OLOGY	100
18	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/EC OLOGY	93
19	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	85
20	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/EC OLOGY	85

序号	论文名称	WOS 号	作者	来源期刊	ESI 学科	ESI 被引次数
21	GEOCHEMISTRY, HYDRAULIC CONNECTIVITY AND QUALITY APPRAISAL OF MULTILAYERED GROUNDWATER IN THE HONGDUNZI COAL MINE, NORTHWEST CHINA	000431882400002	LI, PY;WU, JH;TIAN, R;HE, S;HE, XD;XUE, CY;ZHANG, K	MINE WATER AND THE ENVIRONMENT 37 (2): 222-237 SP. ISS. SI JUN 2018	ENVIRONMENT/EC OLOGY	83
22	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	81
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/EC OLOGY	79
24	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/EC OLOGY	79
25	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	79

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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	78
27	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	77
28	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/EC OLOGY	70
29	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	66
30	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	66

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31	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	65
32	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	60
33	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/EC OLOGY	58
34	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	58
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/EC OLOGY	58
36	DISTRIBUTION AND CHARACTERISTICS OF LANDSLIDE IN LOESS PLATEAU: A CASE STUDY IN	000430028000010	ZHUANG, JQ;PENG, JB;WANG, GH;JAVED, I;WANG, Y;LI, W	ENGINEERING GEOLOGY 236: 89-96	GEOSCIENCES	57

序号	论文名称	WOS 号	作者	来源期刊	ESI 学科	ESI 被引次数
	SHAANXI PROVINCE			SP. ISS. SI MAR 26 2018		
37	SEASONAL HYDROCHEMICAL CHARACTERIZATION AND GROUNDWATER QUALITY DELINEATION BASED ON MATTER ELEMENT EXTENSION ANALYSIS IN A PAPER WASTEWATER IRRIGATION AREA, NORTHWEST CHINA	000449851900003	LI, PY;HE, S;HE, XD;TIAN, R	EXPOSURE AND HEALTH 10 (4): 241-258 DEC 2018	ENVIRONMENT/EC OLOGY	55
38	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	55
39	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/EC OLOGY	54
40	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	53
41	WHAT DRIVES PEOPLE TO ACCEPT AUTOMATED VEHICLES? FINDINGS FROM A FIELD EXPERIMENT	000447112500017	XU, ZG;ZHANG, KF;MIN, HG;WANG, Z;ZHAO, XM;LIU, P	TRANSPORTATION RESEARCH PART C-EMERGING TECHNOLOGIES 95: 320-334 OCT 2018	ENGINEERING	53

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42	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	52
43	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/EC OLOGY	52
44	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	49
45	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	48
46	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	45
47	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	45
48	IN-SITU INCORPORATION OF COPPER(II)	000483302000011	WANG, L;JIN, PX;DUAN,	SCIENCE BULLETIN	CHEMISTRY	45

序号	论文名称	WOS 号	作者	来源期刊	ESI 学科	ESI 被引次数
	PORPHYRIN FUNCTIONALIZED ZIRCONIUM MOF AND TiO ₂ FOR EFFICIENT PHOTOCATALYTIC CO ₂ REDUCTION		SH;SHE, HD;HUANG, JW;WANG, QZ	64 (13): 926-933 JUL 15 2019		
49	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	44
50	A FLUIDIZED LANDSLIDE OCCURRED IN THE LOESS PLATEAU: A STUDY ON LOESS LANDSLIDE IN SOUTH JINGYANG TABLELAND	000430028000014	LENG, YQ;PENG, JB;WANG, QY;MENG, ZJ;HUANG, WL	ENGINEERING GEOLOGY 236: 129-136 SP. ISS. SI MAR 26 2018	GEOSCIENCES	43
51	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/EC OLOGY	43
52	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-BASE D SYSTEMS 172: 1-14 MAY 15 2019	COMPUTER SCIENCE	42
53	GROUNDWATER QUALITY FOR DRINKING AND IRRIGATION PURPOSES AND POTENTIAL HEALTH RISKS ASSESSMENT: A CASE STUDY FROM	000469217300004	ADIMALLA, N	EXPOSURE AND HEALTH 11 (2): 109-123 SP. ISS. SI	ENVIRONMENT/EC OLOGY	41

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	SEMI-ARID REGION OF SOUTH INDIA			JUN 2019		
54	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	39
55	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/EC OLOGY	39
56	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	38
57	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	36
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/EC OLOGY	35
59	STATISTICAL AND MULTIVARIATE STATISTICAL TECHNIQUES TO TRACE THE SOURCES AND	000470507400001	WU, JH;LI, PY;WANG, D;REN, XF;WEI, MJ	HUMAN AND ECOLOGICAL RISK	ENVIRONMENT/EC OLOGY	34

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	AFFECTING FACTORS OF GROUNDWATER POLLUTION IN A RAPIDLY GROWING CITY ON THE CHINESE LOESS PLATEAU			ASSESSMENT 26 (6): 1603-1621 JUL 2 2020		
60	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	33
61	MISSING VALUE IMPUTATION FOR TRAFFIC-RELATED TIME SERIES DATA BASED ON A MULTI-VIEW LEARNING METHOD	000478948000011	LI, LC;ZHANG, J;WANG, YG;RAN, B	IEEE TRANSACTIONS ON INTELLIGENT TRANSPORTATION SYSTEMS 20 (8): 2933-2943 AUG 2019	ENGINEERING	33
62	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	32
63	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	32
64	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	31
65	EFFECTS OF MATERIAL CHARACTERISTICS ON ASPHALT AND FILLER INTERACTION ABILITY	000468989700007	ZHANG, JP;LI, XQ;LIU, GQ;PEI, JZ	INTERNATIONAL JOURNAL OF	ENGINEERING	31

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				PAVEMENT ENGINEERING 20 (8): 928-937 AUG 3 2019		
66	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	30
67	FINDING HIGH-QUALITY GROUNDWATER RESOURCES TO REDUCE THE HYDATIDOSIS INCIDENCE IN THE SHIQU COUNTY OF SICHUAN PROVINCE, CHINA: ANALYSIS, ASSESSMENT, AND MANAGEMENT	000532189100016	WANG, D;WU, JH;WANG, YH;JI, YJ	EXPOSURE AND HEALTH 12 (2): 307-322 JUN 2020	ENVIRONMENT/EC OLOGY	30
68	SUSTAINABLE LIVING WITH RISKS: MEETING THE CHALLENGES	000469548000001	LI, PY;WU, JH	HUMAN AND ECOLOGICAL RISK ASSESSMENT 25 (1-2): 1-10 SP. ISS. SI FEB 17 2019	ENVIRONMENT/EC OLOGY	30
69	EVALUATING CRACK RESISTANCE OF ASPHALT MIXTURE BASED ON ESSENTIAL FRACTURE ENERGY AND FRACTURE TOUGHNESS	000468544600007	ZHANG, JP;TAN, HQ;PEI, JZ;QU, T;LIU, WL	INTERNATIONAL JOURNAL OF GEOMECHANICS 19 (4): - APR 1 2019	ENGINEERING	30
70	FEMTOSECOND LASER IRRADIATION OF CARBON	000459976200116	CUI, JL;CHENG, Y;ZHANG,	APPLIED	ENGINEERING	29

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	NANOTUBES TO METAL ELECTRODES		JW;MEI, HH;WANG, XW	SCIENCES-BASEL 9 (3): - FEB 1 2019		
71	GROUNDWATER QUALITY EVALUATION USING WATER QUALITY INDEX (WQI) FOR DRINKING PURPOSES AND HUMAN HEALTH RISK (HHR) ASSESSMENT IN AN AGRICULTURAL REGION OF NANGANUR, SOUTH INDIA	000466056800019	ADIMALLA, N;QIAN, H	ECOTOXICOLOGY AND ENVIRONMENTAL SAFETY 176: 153-161 JUL 30 2019	ENVIRONMENT/EC OLOGY	28
72	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;SRINIVASAMOORTHY, K	HUMAN AND ECOLOGICAL RISK ASSESSMENT 25 (1-2): 250-270 SP. ISS. SI FEB 17 2019	ENVIRONMENT/EC OLOGY	27
73	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	27
74	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
75	DISTRIBUTION AND GENETIC TYPES OF LOESS	000460713200024	PENG, JB;WANG, SK;WANG,	JOURNAL OF ASIAN	GEOSCIENCES	24

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	LANDSLIDES IN CHINA		QY;ZHUANG, JQ;HUANG, WL;ZHU, XH;LENG, YQ;MA, PH	EARTH SCIENCES 170: 329-350 FEB 2019		
76	SURFACE WATER POLLUTION IN THE MIDDLE CHINESE LOESS PLATEAU WITH SPECIAL FOCUS ON HEXAVALENT CHROMIUM (CR6+): OCCURRENCE, SOURCES AND HEALTH RISKS	000558514900005	HE, XD;LI, PY	EXPOSURE AND HEALTH 12 (3): 385-401 SP. ISS. SI SEP 2020	ENVIRONMENT/EC OLOGY	22
77	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	20
78	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	20
79	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/EC OLOGY	19
80	RELATIONSHIP BETWEEN THE DEVELOPMENT AND CO2 EMISSIONS OF TRANSPORT SECTOR IN	000486359000001	LI, Y;DU, Q;LU, XR;WU, J;HAN, X	TRANSPORTATION RESEARCH PART	SOCIAL SCIENCES, GENERAL	18

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	CHINA			D-TRANSPORT AND ENVIRONMENT 74: 1-14 SEP 2019		
81	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/EC OLOGY	18
82	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	18
83	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	17
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	17
85	POOR GROUNDWATER QUALITY AND HIGH POTENTIAL HEALTH RISKS IN THE DATONG	000516648200001	HE, XD;LI, PY;WU, JH;WEI, MJ;REN, XF;WANG, D	ENVIRONMENTAL GEOCHEMISTRY	ENVIRONMENT/EC OLOGY	17

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	BASIN, NORTHERN CHINA: RESEARCH FROM PUBLISHED DATA			AND HEALTH : - FEB 25 2020		
86	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	16
87	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 2020	ENGINEERING	16
88	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	16
89	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

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90	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	14
91	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	14
92	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	13
93	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 MANUFACTURING 61: - FEB 2020	ENGINEERING	13
94	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	13
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	ENVIRONMENT/EC OLOGY	13

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				79 (11): - MAY 28 2020		
96	BOOSTING SODIUM STORAGE IN TWO-DIMENSIONAL PHOSPHORENE/TI3C2TX MXENE NANOARCHITECTURES WITH STABLE FLUORINATED INTERPHASE	000526301400098	GUO, X;ZHANG, WX;ZHANG, JQ;ZHOU, D;TANG, X;XU, XF;LI, BH;LIU, H;WANG, GX	ACS NANO 14 (3): 3651-3659 MAR 24 2020	MATERIALS SCIENCE	13
97	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	13
98	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/EC OLOGY	13
99	CE(III) NANOCOMPOSITES BY PARTIAL THERMAL DECOMPOSITION OF CE-MOF FOR EFFECTIVE PHOSPHATE ADSORPTION IN A WIDE PH RANGE	000494799900160	HE, JJ;XU, YH;WANG, W;HU, B;WANG, ZJ;YANG, X;WANG, Y;YANG, LW	CHEMICAL ENGINEERING JOURNAL 379: - JAN 1 2020	ENGINEERING	12
100	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	12
101	HEAVY METALS POLLUTION ASSESSMENT AND ITS ASSOCIATED HUMAN HEALTH RISK EVALUATION OF URBAN SOILS FROM INDIAN	000512034200013	ADIMALLA, N	ENVIRONMENTAL GEOCHEMISTRY AND HEALTH 42 (1):	ENVIRONMENT/EC OLOGY	12

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	CITIES: A REVIEW			173-190 SP. ISS. SI JAN 2020		
102	FLEXURAL BEHAVIOR OF REINFORCED CONCRETE BEAMS STRENGTHENED WITH NEAR-SURFACE MOUNTED 7075 ALUMINUM ALLOY BARS	000541973600002	YU, XG;XING, GH;CHANG, ZQ	JOURNAL OF BUILDING ENGINEERING 31: - SEP 2020	ENGINEERING	12
103	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 239: - APR 10 2020	MATERIALS SCIENCE	11
104	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-ENVIRONMENTA L 266: - JUN 5 2020	CHEMISTRY	11
105	FAILURE BEHAVIOR INVESTIGATION OF LOESS METRO TUNNEL UNDER LOCAL-HIGH-PRESSURE WATER ENVIRONMENT	000554861200005	QIU, JL;LU, YQ;LAI, JX;GUO, CX;WANG, K	ENGINEERING FAILURE ANALYSIS 115: - SEP 2020	ENGINEERING	11
106	LANDSLIDE RECONSTRUCTION USING SEISMIC SIGNAL CHARACTERISTICS AND NUMERICAL SIMULATIONS: CASE STUDY OF THE 2017 6.24 XINMO LANDSLIDE	000530092700011	YAN, Y;CUI, YF;GUO, J;HU, S;WANG, Z;YIN, SY	ENGINEERING GEOLOGY 270: - JUN 5 2020	GEOSCIENCES	11
107	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:	ENGINEERING	10

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				- MAR 21 2020		
108	THE PSYCHOLOGICAL CAUSES OF PANIC BUYING FOLLOWING A HEALTH CRISIS	000539300900170	YUEN, KF;WANG, XQ;MA, F;LI, KX	INTERNATIONAL JOURNAL OF ENVIRONMENTAL RESEARCH AND PUBLIC HEALTH 17 (10): - MAY 2020	ENVIRONMENT/EC OLOGY	10
109	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	10
110	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
111	CONTROLLING FACTORS AND MECHANISM OF GROUNDWATER QUALITY VARIATION IN SEMIARID REGION OF SOUTH INDIA: AN APPROACH OF WATER QUALITY INDEX (WQI) AND HEALTH RISK ASSESSMENT (HRA)	000548696800019	ADIMALLA, N	ENVIRONMENTAL GEOCHEMISTRY AND HEALTH 42 (6): 1725-1752 SP. ISS. SI JUN 2020	ENVIRONMENT/EC OLOGY	10
112	INSIGHTS INTO HYDROLOGICAL AND HYDROCHEMICAL PROCESSES IN RESPONSE TO WATER REPLENISHMENT FOR LAKES IN ARID REGIONS	000514758300042	CHEN, J;QIAN, H;GAO, YY;WANG, HK;ZHANG, MS	JOURNAL OF HYDROLOGY 581: - FEB 2020	ENGINEERING	10

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113	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 & RISK 11 (1): 766-784 2020	GEOSCIENCES	10
114	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	10
115	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	10
116	UNIQUENESS AND STABILITY OF TIME-PERIODIC PYRAMIDAL FRONTS FOR A PERIODIC COMPETITION-DIFFUSION SYSTEM	000475504300014	BAO, XX;LI, WT;WANG, ZC	COMMUNICATIONS ON PURE AND APPLIED ANALYSIS 19 (1): 253-277 JAN 2020	MATHEMATICS	9
117	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	9

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	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-BIVO ₄ COMPOSITE PHOTOCATALYSTS AND THEIR ENHANCED PHOTOCATALYTIC PERFORMANCE FOR THE DEGRADATION OF CIPROFLOXACIN	000317878400014	YAN, Y;SUN, SF (Sun, Shaofang) ;SONG, Y;YAN, X;GUAN, WS (Guan, Weisheng) ;LIU, XL;SHI, WD	JOURNAL OF HAZARDOUS MATERIALS 250: 106-114 APR 15 2013	ENGINEERING	1145
2	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 (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	141
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	121
4	IN SITU SYNTHESIS OF Z-SCHEME Ag ₃ PO ₄ /CuBi ₂ O ₄ PHOTOCATALYSTS AND ENHANCED PHOTOCATALYTIC PERFORMANCE FOR THE DEGRADATION OF TETRACYCLINE	000400584900073	SHI, WL;GUO, F (Guo, Feng) ;YUAN, SL	APPLIED CATALYSIS B-ENVIRONMENTAL 209: 720-728 JUL 15	CHEMISTRY	120

序号	论文名称	WOS 号	作者	来源期刊	ESI 学科	ESI 被引次数
	UNDER VISIBLE LIGHT IRRADIATION			2017		
5	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	117
5	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 (Zhang, Wenxue) ;CHEN, Y;FAN, HB;SU, DW;WANG, GX	JOURNAL OF MATERIALS CHEMISTRY A 6 (6): 2797-2807 FEB 14 2018	MATERIALS SCIENCE	115
6	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 (Guo, Feng) ;YUAN, SL	APPLIED CATALYSIS B-ENVIRONMENTAL 209: 720-728 JUL 15 2017	CHEMISTRY	101
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	100
8	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) ;SHAHABI, H;HONG, HY;BUI, DT;DUAN, Z;LI, SJ;ZHU, AX	CATENA 164: 135-149 MAY 2018	AGRICULTURAL SCIENCES	79
9	SINGLE IMAGE SUPER-RESOLUTION VIA LOCALLY	000391475200002	JIANG, JJ; MA, X (Ma,	IEEE	COMPUTER	78

序号	论文名称	WOS 号	作者	来源期刊	ESI 学科	ESI 被引次数
	REGULARIZED ANCHORED NEIGHBORHOOD REGRESSION AND NONLOCAL MEANS		Xiang);CHEN, C;LU, T;WANG, ZY;MA, JY	TRANSACTIONS ON MULTIMEDIA 19 (1): 15-26 JAN 2017	SCIENCE	
10	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	77
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	66
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	48
13	IN-SITU INCORPORATION OF COPPER(II) PORPHYRIN FUNCTIONALIZED ZIRCONIUM MOF AND TIO2 FOR EFFICIENT PHOTOCATALYTIC CO2 REDUCTION	000483302000011	WANG, L;JIN, PX;DUAN, SH;SHE, HD;HUANG, JW;WANG, QZ (Wang, Qizhao)	SCIENCE BULLETIN 64 (13): 926-933 JUL 15 2019	CHEMISTRY	45
14	DAY-AHEAD TRAFFIC FLOW FORECASTING BASED	000463129500001	LI, LC;QIN, LQ;QU, X;ZHANG,	KNOWLEDGE-BASE	COMPUTER	42

序号	论文名称	WOS 号	作者	来源期刊	ESI 学科	ESI 被引次数
	ON A DEEP BELIEF NETWORK OPTIMIZED BY THE MULTI-OBJECTIVE PARTICLE SWARM ALGORITHM		J;WANG, YG (Wang, Yonggang) ;RAN, B	D SYSTEMS 172: 1-14 MAY 15 2019	SCIENCE	
15	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	39
16	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	33
17	MISSING VALUE IMPUTATION FOR TRAFFIC-RELATED TIME SERIES DATA BASED ON A MULTI-VIEW LEARNING METHOD	000478948000011	LI, LC;ZHANG, J;WANG, YG (Wang, Yonggang) ;RAN, B	IEEE TRANSACTIONS ON INTELLIGENT TRANSPORTATION SYSTEMS 20 (8): 2933-2943 AUG 2019	ENGINEERING	33
18	FEMTOSECOND LASER IRRADIATION OF CARBON NANOTUBES TO METAL ELECTRODES	000459976200116	CUI, JL;CHENG, Y;ZHANG, JW;MEI, HH (Mei, Huanhuan) ;WANG, XW	APPLIED SCIENCES-BASEL 9 (3): - FEB 1 2019	ENGINEERING	29
19	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 (Wu, Jianhua) ;SRINIVASAMOORTHY, K	HUMAN AND ECOLOGICAL RISK ASSESSMENT 25 (1-2): 250-270 SP. ISS. SI FEB 17 2019	ENVIRONMENT/EC OLOGY	27
20	FABRICATION OF BIVO4 PHOTOANODE	000510526000002	SHE, HD;YUE, PF;MA,	APPLIED	CHEMISTRY	18

序号	论文名称	WOS 号	作者	来源期刊	ESI 学科	ESI 被引次数
	COCATALYZED WITH NICO-LAYERED DOUBLE HYDROXIDE FOR ENHANCED PHOTOACTIVITY OF WATER OXIDATION		XY;HUANG, JW;WANG, L;WANG, QZ (Wang, Qizhao)	CATALYSIS B-ENVIRONMENTAL 263: - APR 2020		
21	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	17
22	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	17
23	MEASURING THE IMPACT OF RENEWABLE ENERGY, PUBLIC HEALTH EXPENDITURE, LOGISTICS, AND ENVIRONMENTAL PERFORMANCE ON SUSTAINABLE ECONOMIC GROWTH	000505681000001	KHAN, SAR;ZHANG, Y (Zhang, Yu) ;KUMAR, A;ZAVADSKAS, E;STREIMIKIENE, D	SUSTAINABLE DEVELOPMENT 28 (4): 833-843 JUL 2020	SOCIAL SCIENCES, GENERAL	16
24	A NEW TRANSIT NETWORK DESIGN STUDY IN CONSIDERATION OF TRANSFER TIME COMPOSITION	000459368100009	FENG, XS;ZHU, XJ;QIAN, XP;JIE, YP;MA, F (Ma, Fei) ;NIU, XJ	TRANSPORTATION RESEARCH PART D-TRANSPORT AND ENVIRONMENT 66: 85-94 SP. ISS. SI JAN	SOCIAL SCIENCES, GENERAL	15

序号	论文名称	WOS 号	作者	来源期刊	ESI 学科	ESI 被引次数
				2019		
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 (Liu, Guo-Feng) ;ZHANG, W;HU, L	INTERNATIONAL JOURNAL OF GEOMECHANICS 20 (2): - FEB 1 2020	ENGINEERING	14
26	BOOSTING SODIUM STORAGE IN TWO-DIMENSIONAL PHOSPHORENE/TI3C2TX MXENE NANOARCHITECTURES WITH STABLE FLUORINATED INTERPHASE	000526301400098	GUO, X;ZHANG, WX (Zhang, Wenxue) ;ZHANG, JQ;ZHOU, D;TANG, X;XU, XF;LI, BH;LIU, H;WANG, GX	ACS NANO 14 (3): 3651-3659 MAR 24 2020	MATERIALS SCIENCE	13
27	LANDSLIDE RECONSTRUCTION USING SEISMIC SIGNAL CHARACTERISTICS AND NUMERICAL SIMULATIONS: CASE STUDY OF THE 2017 6.24 XINMO LANDSLIDE	000530092700011	YAN, Y;CUI, YF;GUO, J (Guo, Jian) ;HU, S;WANG, Z;YIN, SY	ENGINEERING GEOLOGY 270: - JUN 5 2020	GEOSCIENCES	11
28	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	10
29	THE PSYCHOLOGICAL CAUSES OF PANIC BUYING FOLLOWING A HEALTH CRISIS	000539300900170	YUEN, KF;WANG, XQ;MA, (Ma, Fei) F;LI, KX	INTERNATIONAL JOURNAL OF ENVIRONMENTAL RESEARCH AND PUBLIC HEALTH 17 (10): - MAY 2020	ENVIRONMENT/EC OLOGY	10

序号	论文名称	WOS 号	作者	来源期刊	ESI 学科	ESI 被引次数
30	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
31	TREATMENT AND EFFECT OF LOESS METRO TUNNEL UNDER SURROUNDING PRESSURE AND WATER IMMERSION ENVIRONMENT	000544663000001	WANG, LX;LI, CH (Li, Chenghan) ; QIU, JL (Qiu, Junling) ;WANG, K;LIU, T;LI, H (Li, Heng)	GEOFLUIDS 2020: - JUN 13 2020	GEOSCIENCES	10

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	WOS 号	作者	来源期刊	ESI 学科	ESI 被引次数
1	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	33
2	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	20
3	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	16

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	WOS 号	作者	来源期刊	ESI 学科	ESI 被引次数
1	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	33
2	MEASURING THE IMPACT OF RENEWABLE ENERGY, PUBLIC HEALTH EXPENDITURE, LOGISTICS, AND ENVIRONMENTAL PERFORMANCE ON SUSTAINABLE ECONOMIC GROWTH	000505681000001	KHAN, SAR; ZHANG, Y (Zhang, Yu, 我校) ;KUMAR, A;ZAVADSKAS, E;STREIMIKIENE, D	SUSTAINABLE DEVELOPMENT 28 (4): 833-843 JUL 2020	SOCIAL SCIENCES, GENERAL	16

我校发表的 117 篇 ESI 高被引论文的院系分布情况：水利与环境学院 43 篇，位居首位；其次是公路学院 31 篇；汽车学院 10 篇；地质工程与测绘学院 9 篇；信息工程学院 6 篇；材料科学与工程学院 4 篇；理学院 4 篇；经济与管理学院 4 篇；工程机械学院 3 篇；地球科学与资源学院 2 篇；建筑工程学院近 12 期首次出现高被引论文 1 篇。从本期 ESI 数据可以看出，水利与环境学院、公路学院、汽车学院表现突出，近几期高被引论文数量相对稳定。表 5 和表 6 分别显示了我校近 12 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	建筑工 程学院
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	
2021.1.21	31	43	10	6	9	4	2	4	3	4	1

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	经济与管理学院
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
2021.1.21		1	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
Li, Peiyue	水环	13
Adimalla, Narsimha	水环	8
Qiu, Junling	公路	6
He, Xiaodong	水环	4
Bao, Xiongxiang	理学院	3

作者	所属院系	高被引论文数
Chen, Hao	汽车	3
Wang, Zhi-Feng	公路	3
Wu, Jianhua	水环	3
Ding Kai	工程机械	2
Lai, Jinxing	公路	2
Wang, Xiuling	公路	2
Xie, Shaobo	汽车	2
Zhang, Jiupeng	公路	2
Chen, Jianxun	公路	1
Chen, Jie	水环	1
Chen, Kaiyi	水环	1
Dong, Ming	信息	1
He, Jiaojie	建工	1
He, Siyue	公路	1
He, Song	水环	1
Hui, Fei	信息	1
Ji, Xiaoping	公路	1
Jiang, Yingjun	公路	1
Kang, LiuWang	汽车	1
Leng, Yanqiu	地测	1
Li, Ang	公路	1
Li, Yi	经管	1
Peng, Jianbing	地测	1
Qi, D. H.	汽车	1
Ren, Chongfeng	水环	1
Song Xueli	理学院	1
Wang, Dan	水环	1
Wang, Liping	水环	1
Wang, Lixin	公路	1
Wang, Wenke	水环	1
Wang, Ya-Qiong	公路	1
Wang, Yonggang	公路	1
Wu, Hao	公路	1
Xu, Zhigang	信息	1
Yu, Shaowei	信息	1
Yu, Xiaoguang	公路	1
Zhang, Wei	信息	1
Zhang, Yuting	水环	1
Zhu, Guohua	汽车	1
Zhuang, Jianqi	地测	1

我们对 117 篇 ESI 高被引论文的来源期刊进行分析后，统计了 66 种来源期刊的名称、发文数量和影响因子（表 8）。其中，*EXPOSURE AND HEALTH* 是我校 ESI 高被引论文发文量最高的期刊，影响因子为 4.762，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 117 篇 ESI 高被引论文的 66 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 90.9%（上期为 87%左右），表明我校本期 ESI 高被引论文来源期刊的质量在不断较高。

表 8 长安大学 ESI 高被引论文的 66 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	1020	Q1	6.88	4.762
ENVIRONMENTAL EARTH SCIENCES	2	5	419	Q2	17.25	2.18
HUMAN AND ECOLOGICAL RISK ASSESSMENT	3	8	377	Q3	10.53	2.3
JOURNAL OF HAZARDOUS MATERIALS	4	3	242	Q1	4.53	9.038
ENERGY CONVERSION AND MANAGEMENT	5	1	211	Q1	5.04	8.208
APPLIED ENERGY	6	2	183	Q1	3.95	8.848
APPLIED CATALYSIS B-ENVIRONMENTAL	7	3	167	Q1	3.5	16.683
CHEMICAL ENGINEERING JOURNAL	8	2	156	Q1	3.53	10.652
SCIENCE OF THE TOTAL ENVIRONMENT	9	2	144	Q1	6.03	6.551
ENVIRONMENTAL SCIENCE AND	10	1	140	Q2	15.85	3.056

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
POLLUTION RESEARCH						
ARABIAN JOURNAL OF GEOSCIENCES	11	2	139	Q4	18.32	1.327
NANO ENERGY	12	1	133	Q1	3.8	16.602
GEOCHIMICA ET COSMOCHIMICA ACTA	13	1	128	Q1	4.42	4.659
ENGINEERING GEOLOGY	14	3	122	Q1	5.85	4.779
JOURNAL OF MATERIALS CHEMISTRY A	15	1	121	Q1	5.21	11.301
SCIENTIFIC REPORTS	16	1	114	Q1	6.1	3.998
ENERGY	17	3	106	Q1	4.84	6.082
NATURAL HAZARDS	18	3	104	Q2	5.58	2.427
APPLIED AND COMPUTATIONAL MATHEMATICS	19	1	102	Q1	9.82	2.354
APPLIED SCIENCES-BASEL	20	2	97	Q2	13.09	2.474
MEDITERRANEAN JOURNAL OF MATHEMATICS	21	1	96	Q1	19.99	1.216
GEOMATICS NATURAL HAZARDS & RISK	22	2	90	Q1	8.69	3.333
IEEE TRANSACTIONS ON MULTIMEDIA	23	1	88	Q1	4.34	6.051
MINE WATER AND THE ENVIRONMENT	24	1	87	Q1	13.15	3.184
INTERNATIONAL JOURNAL OF WATER RESOURCES DEVELOPMENT	25	1	83	Q1	9.42	3.136
CATENA	26	1	81	Q1	8.84	4.333
JOURNAL OF PERFORMANCE OF CONSTRUCTED FACILITIES	27	2	80	Q3	14.82	1.648
ACS NANO	28	2	72	Q1	4.95	14.588
ENVIRONMENTAL GEOCHEMISTRY AND HEALTH	29	4	67	Q1	16.62	3.472
NONLINEAR DYNAMICS	30	1	60	Q1	6.14	4.867
TRANSPORTATION RESEARCH PART C-EMERGING TECHNOLOGIES	30	1	60	Q1	4.17	6.077
RENEWABLE & SUSTAINABLE ENERGY REVIEWS	32	1	59	Q1	2.01	12.11
APPLIED THERMAL ENGINEERING	32	1	59	Q1	5.85	4.725
FILOMAT	32	1	59	Q2	25.06	0.848
MATHEMATICAL PROBLEMS IN	35	1	53	Q3	34.04	1.009

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
ENGINEERING						
SCIENCE BULLETIN	35	1	53	Q1	5.88	9.511
TRANSPORTATION RESEARCH PART D-TRANSPORT AND ENVIRONMENT	37	3	52	Q1	3.83	4.577
INTERNATIONAL JOURNAL OF PAVEMENT ENGINEERING	37	2	52	Q2	9.41	2.646
INTERNATIONAL JOURNAL OF GEOMECHANICS	39	2	51	Q2	11.24	2.589
INTERNATIONAL JOURNAL OF PRODUCTION RESEARCH	39	1	51	Q1	8.81	4.577
TUNNELLING AND UNDERGROUND SPACE TECHNOLOGY	41	2	48	Q1	16.60	4.45
KNOWLEDGE-BASED SYSTEMS	42	1	45	Q1	5.53	5.921
GEOFLUIDS	43	2	43	Q2	13.37	1.534
COMPUTERS AND GEOTECHNICS	44	1	40	Q1	7.53	3.818
RISK ANALYSIS	45	1	38	Q1	11.68	3.137
MATHEMATICAL METHODS IN THE APPLIED SCIENCES	45	1	38	Q2	6.41	1.626
IEEE TRANSACTIONS ON INTELLIGENT TRANSPORTATION SYSTEMS	47	1	34	Q1	5.6	6.319
ECOTOXICOLOGY AND ENVIRONMENTAL SAFETY	48	1	33	Q1	5.44	4.872
JOURNAL OF CLEANER PRODUCTION	49	1	32	Q1	3.64	7.246
BULLETIN OF ENGINEERING GEOLOGY AND THE ENVIRONMENT	50	1	28	Q2	6.05	3.041
JOURNAL OF ASIAN EARTH SCIENCES	51	1	27	Q2	8.86	3.059
COMMUNICATIONS ON PURE AND APPLIED ANALYSIS	52	2	26	Q2	7.99	1.105
ADVANCES IN CIVIL ENGINEERING	53	2	23	Q3	10.72	1.176
INTERNATIONAL JOURNAL OF IMPACT ENGINEERING	54	1	22	Q1	22	3.642
ACCIDENT ANALYSIS AND PREVENTION	55	1	21	Q1	4.05	3.655
SUSTAINABLE DEVELOPMENT	56	1	18	Q1	15.3	4.082
INTERNATIONAL JOURNAL OF ENVIRONMENTAL RESEARCH AND	57	1	15	Q1	13.1	2.849

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
PUBLIC HEALTH						
ROAD MATERIALS AND PAVEMENT DESIGN	57	1	15	Q2	10.81	2.582
JOURNAL OF BUILDING ENGINEERING	59	1	14	Q1	11.1	3.379
ROBOTICS AND COMPUTER-INTEGRATED MANUFACTURING	60	1	13	Q1	5.52	5.057
CONSTRUCTION AND BUILDING MATERIALS	60	1	13	Q1	4.26	4.419
ENGINEERING FAILURE ANALYSIS	60	1	13	Q1	13	2.897
MATERIALS	63	1	12	Q2	7.68	3.057
KSCE JOURNAL OF CIVIL ENGINEERING	64	1	11	Q3	11	1.515
NONLINEAR ANALYSIS-REAL WORLD APPLICATIONS	65	1	10	Q1	10	2.072
JOURNAL OF HYDROLOGY	65	1	10	Q1	7.47	4.5



图 2 长安大学 117 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 2,368 篇（ESI 高被引论文 38 篇），总被引次数为 13,463 次，篇均被引 5.69 次。本期全球有 1,710 所机构（中国机构 314 所）的工程学学科进入 ESI 全球排名前 1% 行列，我校位列 565 位（在中国机构中位列 105 位），全球排位 33.04%，**进入全球 ESI 机构排名前千分之五。**

表 9 为近 14 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 14 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
2021.1.21	105	565	2,368	13,463

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 1,256 篇（ESI 高被引论文 15 篇），总被引次数为 10,371 次，篇均被引 8.26 次。本期全球有 800 所机构（中国机构 74 所）的地球科学进入 ESI 全球排名前 1% 行列，我校位列 596 位（中国机构中位列 45 位），全球排位 74.5%。表 10 为近 8 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 8 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
2021.1.21	45	596	1,256	10,371

本期我校在材料科学领域共发表 ESI 论文 1,396 篇 (ESI 高被引论文 6 篇), 总被引次数为 10,538 次, 篇均被引 7.55 次。本期全球有 1008 所机构 (中国机构 215 所) 的材料科学进入 ESI 全球排名前 1% 行列, 我校位列 772 位 (中国机构中位列 172 位), 全球排位 76.59%。表 11 为近 6 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 6 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
2021.1.21	172	772	1,396	10,538

本期我校在环境/生态科学领域共发表 ESI 论文 816 篇 (ESI 高被引论文 37 篇), 总被引次数为 7,575 次, 篇均被引 9.28 次。本期全球有 1,220 所机构 (中国机构 125 所) 的环境/生态科学进入 ESI 全球排名前 1% 行列, 我校位列 870 位 (中国机构中位列 86 位), 全球排位 78.07%。表 12 为近 5 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 5 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
2021.1.21	86	870	816	7,575

表 13 为 2010-2020 年 (Incites 数据库统计时间为 2020.12.17) 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	2392	1.020246405	14542	68.06020067
Materials Science	2	1423	0.823971609	11187	76.87983134
Geosciences	3	1250	1.02272496	10627	79.68
Environment/Ecology	4	821	1.546421072	7897	69.91473812
Chemistry	5	659	0.942745675	5921	79.21092564
Physics	6	296	0.754901014	2217	79.05405405
Computer Science	7	230	0.911893913	1306	68.69565217
Social Sciences, general	8	132	2.127278788	834	73.48484848
Mathematics	9	141	1.719602128	656	62.41134752
Agricultural Sciences	10	50	1.190856	341	64
Biology & Biochemistry	11	41	0.679770732	287	70.73170732
Space Science	12	38	0.486407895	233	81.57894737
Plant & Animal Science	13	24	0.858954167	186	75
Economics & Business	14	18	1.456638889	129	72.22222222
Pharmacology & Toxicology	15	8	0.97885	116	87.5
Clinical Medicine	16	26	0.486819231	98	53.84615385
Neuroscience & Behavior	17	10	0.29186	72	50
Microbiology	18	5	1.24386	68	80
Psychiatry/Psychology	19	20	0.355855	51	40
Molecular Biology & Genetics	20	3	0.296566667	31	100
Multidisciplinary	21	7	0.360114286	30	71.42857143
Immunology	22	3	0.989033333	28	100

注：选取的是 Article 和 Review 类型的文献做统计

我们对发文量前 8(而且考虑到这几个 ESI 学科涉及到了我校相关研究领域)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。

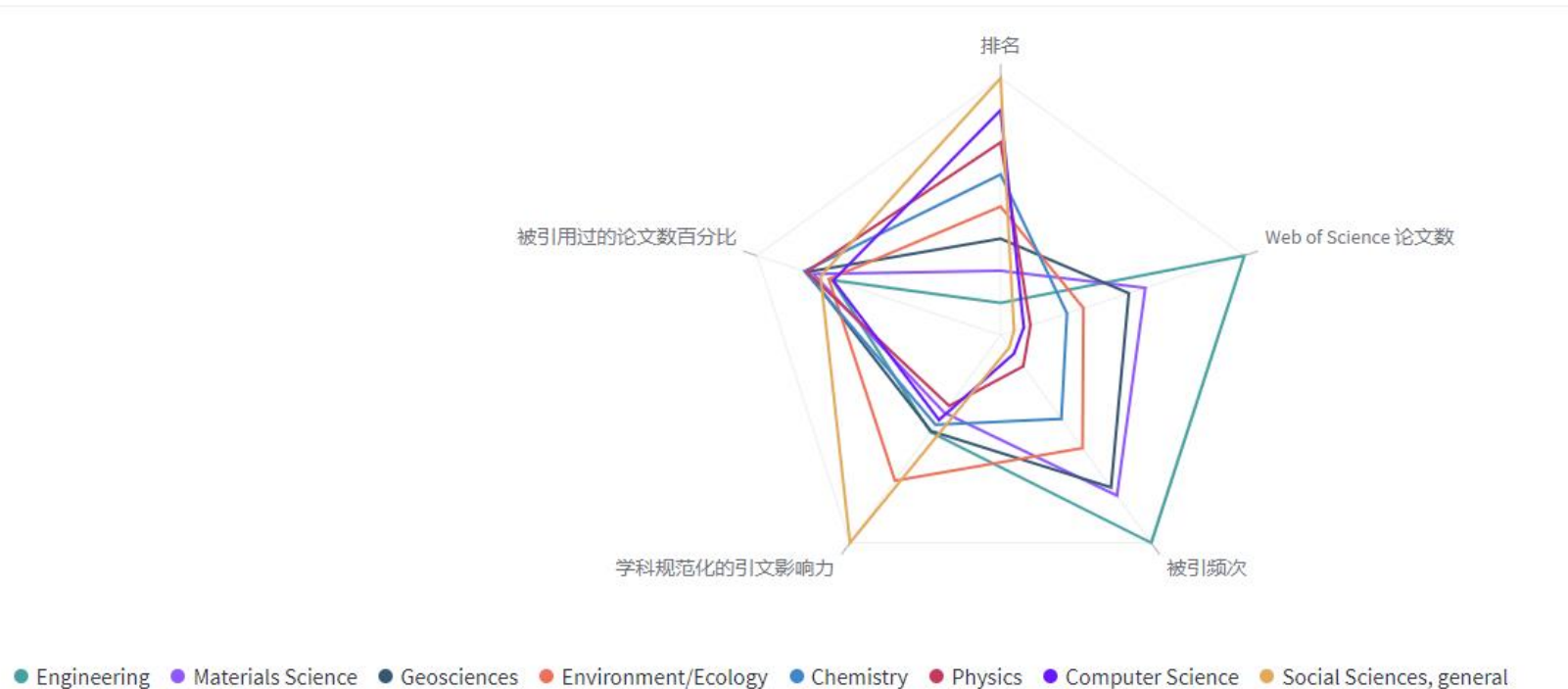
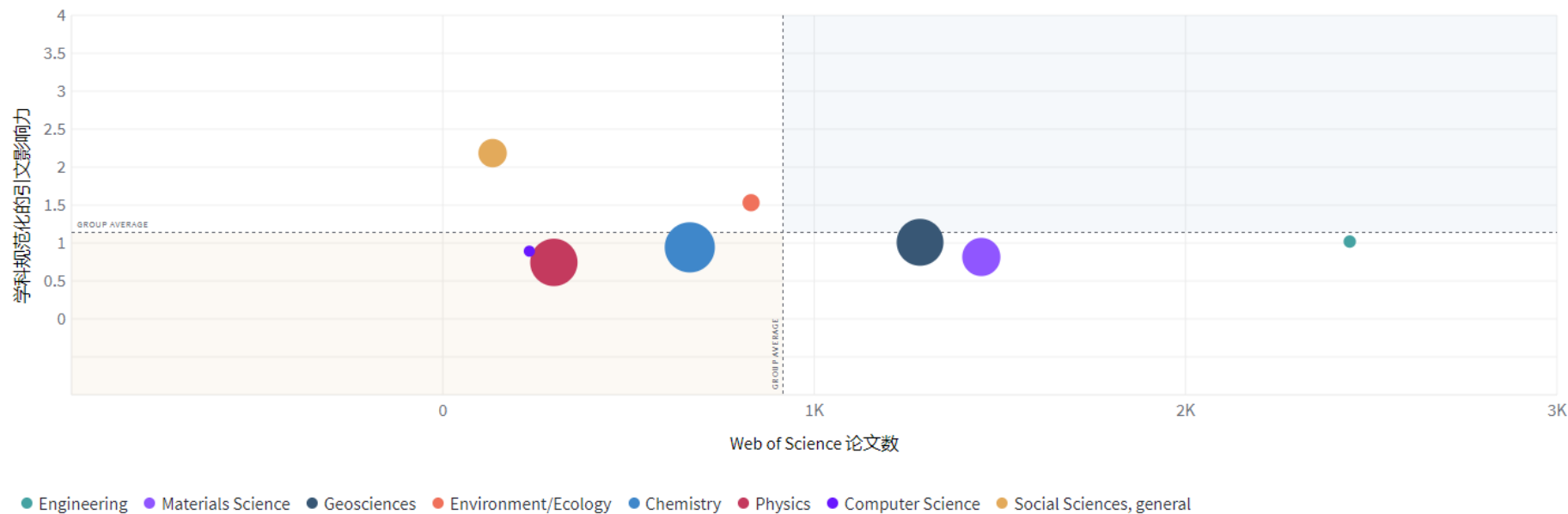


图 3 长安大学发文量前 5 的 ESI 学科发文量、被引频次、CNCI、论文被引百分比的雷达图

从图 4 可以看到，已进入全球排名前 1% 的工程学、地球科学、材料科学、环境/生态科学为我校优势学科，工程学、地球科学、环境/生态科学、社会科学总论的 CNCI 值均大于 1，其中特别值得注意的是：社会科学总论的 CNCI 值为最高，超过了 2，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。



注：图中点的半径表示该领域论文被引的百分比

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。

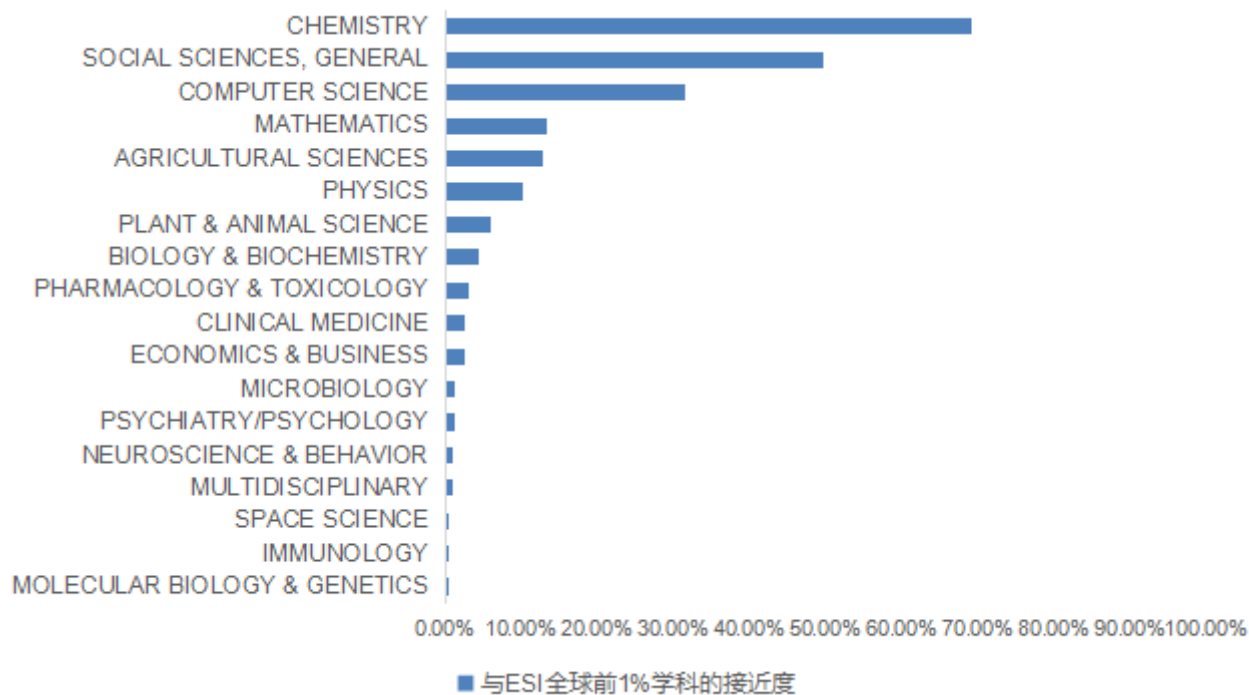


图5 长安大学具有潜力进入 ESI 全球前 1%的学科预测情况

本期全球有 1418 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 259 所。在对我校和全球化学学科进入 ESI 前 1% 排位的末位机构 CENTRE DE RECHERCHE PAUL PASCAL 的 WOS 发文量、被引频次进行对比后发现，我校的化学学科的被引频次与化学学科的 ESI 阈值却相差较多（表 14）。

表 14 长安大学化学学科论文情况 (2010-2020.12.17)

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	659	5921	
CENTRE DE RECHERCHE PAUL PASCAL	390	8577	8,577