

# 长安大学 ESI 月报

(2020 年 7 月 9 日更新数据)

数据统计分析：图书馆参考咨询部

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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：2020.7.13

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2020 年 7 月 9 日，最新一期的 ESI 数据发表，其统计数据覆盖的时间范围为 2010 年 1 月 1 日至 2020 年 4 月 30 日（跨度为十年四个月）。数据显示：本次上榜机构总数为 6612 所，相对于 2020 年 5 月公布的机构总数增加了 157 所；中国上榜机构总数为 577 所（其中大陆 477，台湾 85，香港 13，澳门 2），比 2020 年 5 月公布的数据增加了 6 所。

中国上榜的高校数为 368 所（其中大陆 304，台湾 55，香港 7，澳门 2），比 2020 年 5 月公布的 361 所（大陆 296，台湾 56，香港 7，澳门 2）增加了 7 所。新增上榜高校为：长江大学、四川师范大学、重庆理工大学、西安科技大学、广东海洋大学、南台科技大学、西交利物浦大学、太原理工大学、山西农业大学、东北电力大学。部分机构退出榜单。

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 6612 所，我校位列 2449 位（上期为 2519 位），ESI 全球排位 37.04%；本期共有四个 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 WOS 论文总数为 6,396，总被引频次为 41,950 次，篇均被引频次为 6.56 次，其中 ESI 高被引论文有 112 篇（见表 1，其发表的年代分布见图 1），比上期（96 篇）增加 16 篇。这些 ESI 高被引论文分布在：工程学领域 38 篇，地球科学领域 13 篇，材料科学领域 6 篇，环境/生态科学领域 33 篇；我校作为合作单位发表的 ESI 高被引论文数为 24 篇（见表 2）。本期我校 ESI 热点论文有 7 篇：工程学领域 2 篇，地球科学领域 1 篇，材料科学领域 2 篇，环境/生态科学领域有篇（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）

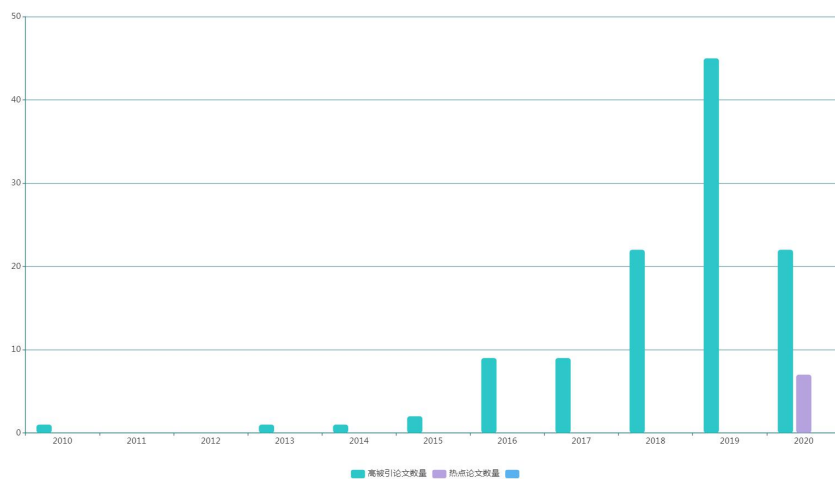


图 1 2020 年 7 月长安大学 ESI 高被引论文、热点论文的年代分布

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	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	184
2	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	184
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	154
4	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	131
5	MICROWAVE SYNTHESIS OF A NOVEL MAGNETIC IMPRINTED TIO2 PHOTOCATALYST WITH EXCELLENT TRANSPARENCY FOR SELECTIVE PHOTODEGRADATION OF ENROFLOXACIN	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	127

	HYDROCHLORIDE RESIDUES SOLUTION					
6	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	126
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/EC OLOGY	118
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	109
9	URANIUM AND MOLYBDENUM ISOTOPE EVIDENCE FOR AN EPISODE OF WIDESPREAD OCEAN OXYGENATION DURING THE LATE EDIACARAN PERIOD	000352192100010	KENDALL, B;KOMIYA, T;LYONS, TW;BATES, SM;GORDON, GW;ROMANIELLO, SJ;JIANG, GQ;CREASER, RA;XIAO, SH;MCFADDEN, K;SAWAKI, Y;TAHATA, M;SHU, DG;HAN, J;LI, Y;CHU, XL;ANBAR, AD	GEOCHIMICA ET COSMOCHIMICA ACTA 156: 173-193 MAY 1 2015	GEOSCIENCES	108
10	HYDROCHEMICAL APPRAISAL OF GROUNDWATER QUALITY FOR DRINKING AND IRRIGATION	000369322200015	LI, PY;WU, JH;QIAN, H	ARABIAN JOURNAL OF GEOSCIENCES 9	GEOSCIENCES	98

	PURPOSES AND THE MAJOR INFLUENCING FACTORS: A CASE STUDY IN AND AROUND HUA COUNTY, CHINA			(1): - JAN 2016		
11	IN SITU SYNTHESIS OF Z-SCHEME AG3PO4/CUBI2O4 PHOTOCATALYSTS AND ENHANCED PHOTOCATALYTIC PERFORMANCE FOR THE DEGRADATION OF TETRACYCLINE UNDER VISIBLE LIGHT IRRADIATION	000400584900073	SHI, WL;GUO, F;YUAN, SL	APPLIED CATALYSIS B-ENVIRONMENTAL 209: 720-728 JUL 15 2017	CHEMISTRY	95
12	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;CHEN, Y;FAN, HB;SU, DW;WANG, GX	JOURNAL OF MATERIALS CHEMISTRY A 6 (6): 2797-2807 FEB 14 2018	MATERIALS SCIENCE	95
13	FOUR STAGES SYMMETRIC TWO-STEP P-STABLE METHOD WITH VANISHED PHASE-LAG AND ITS FIRST, SECOND, THIRD AND FOURTH DERIVATIVES	000378971700008	HUI, F;SIMOS, TE	APPLIED AND COMPUTATIONAL MATHEMATICS 15 (2): 220-238 2016	MATHEMATICS	81
14	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/EC OLOGY	79
15	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	MATHEMATICS	78

				2016		
16	VIBRATION RESPONSE CHARACTERISTICS OF THE CROSS TUNNEL STRUCTURE	000379610300001	LAI, JX;WANG, KY;QIU, JL;NIU, FY;WANG, JB;CHEN, JX	SHOCK AND VIBRATION 2016: - 2016	ENGINEERING	73
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	73
18	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	70
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	69
20	CHARACTERISTICS OF SEISMIC DISASTERS AND ASEISMIC MEASURES OF TUNNELS IN WENCHUAN EARTHQUAKE	000393021400036	LAI, JX;HE, SY;QIU, JL;CHEN, JX;WANG, LX;WANG, K;WANG, JB	ENVIRONMENTAL EARTH SCIENCES 76 (2): - JAN 2017	ENVIRONMENT/EC OLOGY	68
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	65
22	GIS-BASED LANDSLIDE SUSCEPTIBILITY MODELLING: A COMPARATIVE ASSESSMENT OF	000418899200046	CHEN, W;XIE, XS;PENG, JB;WANG, JL;DUAN, Z;HONG,	GEOMATICS NATURAL	GEOSCIENCES	65



	KERNEL LOGISTIC REGRESSION, NAIVE-BAYES TREE, AND ALTERNATING DECISION TREE MODELS		HY	HAZARDS & RISK 8 (2): 950-973 2017		
23	FINDING HARMONY BETWEEN THE ENVIRONMENT AND HUMANITY: AN INTRODUCTION TO THE THEMATIC ISSUE OF THE SILK ROAD	000393021800008	LI, PY;QIAN, H;ZHOU, WF	ENVIRONMENTAL EARTH SCIENCES 76 (3): - FEB 2017	ENVIRONMENT/EC OLOGY	64
24	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	63
25	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	62
26	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	57
27	ON VIBRATIONS OF NONLOCAL RODS: BOUNDARY CONDITIONS, EXACT SOLUTIONS AND THEIR ASYMPTOTICS	000408286000016	XU, XJ;ZHENG, ML;WANG, XC	INTERNATIONAL JOURNAL OF ENGINEERING	ENGINEERING	57

				SCIENCE 119: 217-231 OCT 2017		
28	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	55
29	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	55
30	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	55
31	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	55
32	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	54
33	COO AND G-C3N4 COMPLEMENT EACH OTHER FOR	000425476800043	GUO, F;SHI, WL;ZHU, C;LI,	APPLIED	CHEMISTRY	52

	HIGHLY EFFICIENT OVERALL WATER SPLITTING UNDER VISIBLE LIGHT		H;KANG, ZH	CATALYSIS B-ENVIRONMENTAL 226: 412-420 JUN 15 2018		
34	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	51
35	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	50
36	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	46
37	EXTREME DEFORMATION CHARACTERISTICS AND COUNTERMEASURES FOR A TUNNEL IN DIFFICULT GROUNDS IN SOUTHERN SHAANXI, CHINA	000446842900001	LAI, JX;WANG, XL;QIU, JL;CHEN, JX;HU, ZN;WANG, H	ENVIRONMENTAL EARTH SCIENCES 77 (19): - OCT 2018	ENVIRONMENT/EC OLOGY	46
38	STUDY ON HIGHLY ENHANCED PHOTOCATALYTIC TETRACYCLINE DEGRADATION OF TYPE II AGI/CUBI2O4 AND Z-SCHEME AGR/CUBI2O4	000428101400013	GUO, F;SHI, WL;WANG, HB;HAN, MM;GUAN, WS;HUANG, H;LIU, Y;KANG,	JOURNAL OF HAZARDOUS MATERIALS 349:	ENGINEERING	45

	HETEROJUNCTION PHOTOCATALYSTS		ZH	111-118 MAY 5 2018		
39	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	45
40	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	44
41	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	43
42	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	43
43	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	43
44	IMPACTS ANALYSIS OF CAR FOLLOWING MODELS CONSIDERING VARIABLE VEHICULAR GAP POLICIES	000430027500031	XIN, Q;YANG, N;FU, R;YU, SW;SHI, ZK	PHYSICA A-STATISTICAL MECHANICS AND ITS APPLICATIONS 501: 338-355 JUL 1	PHYSICS	43

				2018		
45	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	42
46	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	42
47	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	35
48	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	34
49	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	33
50	EVALUATION OF GROUNDWATER CONTAMINATION FOR FLUORIDE AND NITRATE IN SEMI-ARID REGION OF NIRMAL PROVINCE, SOUTH	000474494500003	ADIMALLA, N;LI, PY;QIAN, H	HUMAN AND ECOLOGICAL RISK ASSESSMENT 25 (5):	ENVIRONMENT/EC OLOGY	33

	INDIA: A SPECIAL EMPHASIS ON HUMAN HEALTH RISK ASSESSMENT (HHRA)			1107-1124 JUL 4 2019		
51	TRAVEL AND TOURISM COMPETITIVENESS INDEX: THE IMPACT OF AIR TRANSPORTATION, RAILWAYS TRANSPORTATION, TRAVEL AND TRANSPORT SERVICES ON INTERNATIONAL INBOUND AND OUTBOUND TOURISM	000389294200013	KHAN, SAR;DONG, QL;WEI, SB;ZAMAN, K;ZHANG, Y	JOURNAL OF AIR TRANSPORT MANAGEMENT 58: 125-134 JAN 2017	SOCIAL SCIENCES, GENERAL	32
52	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	31
53	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	29
54	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	29
55	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	28
56	INVESTIGATION ON COMBUSTION AND EMISSION CHARACTERISTICS OF A COMMON RAIL DIESEL	000456351800026	CHEN, H;SU, X;HE, JJ;XIE, B	ENERGY 167: 297-311 JAN 15 2019	ENGINEERING	26

	ENGINE FUELED WITH DIESEL/N-PENTANOL/METHANOL BLENDS					
57	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	SCIENCE BULLETIN 64 (13): 926-933 JUL 15 2019	CHEMISTRY	25
58	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	25
59	THE IMPACT OF BIO-OIL AS REJUVENATOR FOR AGED ASPHALT BINDER	000456755400012	ZHANG, R;YOU, ZP;WANG, HN;YE, MX;YAP, YK;SI, CD	CONSTRUCTION AND BUILDING MATERIALS 196: 134-143 JAN 30 2019	MATERIALS SCIENCE	24
60	A NOVEL POROUS C4N4 MONOLAYER AS A POTENTIAL ANCHORING MATERIAL FOR LITHIUM-SULFUR BATTERY DESIGN	000459331600069	LI, TT;HE, C;ZHANG, WX	JOURNAL OF MATERIALS CHEMISTRY A 7 (8): 4134-4144 FEB 28 2019	MATERIALS SCIENCE	24
61	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	23

62	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	23
63	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	22
64	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/EC OLOGY	22
65	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	22
66	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	22
67	ENHANCING DISCHARGE OF SPOIL TO MITIGATE DISTURBANCE INDUCED BY HORIZONTAL JET	000469160500020	WANG, ZF;SHEN, SL;MODONI, G	COMPUTERS AND GEOTECHNICS 111:	COMPUTER SCIENCE	21



	GROUTING IN CLAYEY SOIL: THEORETICAL MODEL AND APPLICATION			222-228 JUL 2019		
68	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 : - MAY 13 2019	ENVIRONMENT/EC OLOGY	20
69	EFFECTS OF THE PREVISION RELATIVE VELOCITY ON TRAFFIC DYNAMICS IN THE ACC STRATEGY	000452941100019	WU, X;ZHAO, XM;SONG, HS;XIN, Q;YU, SW	PHYSICA A-STATISTICAL MECHANICS AND ITS APPLICATIONS 515: 192-198 FEB 1 2019	PHYSICS	19
70	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	19
71	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	19
72	PARTICLE SIZE DISTRIBUTION EFFECTS ON DEFORMATION PROPERTIES OF GRADED	000466179000001	LIN, H;WANG, H;FAN, X;CAO, P;ZHOU, KF	EUROPEAN JOURNAL OF	ENGINEERING	18

	AGGREGATE BASE UNDER CYCLIC LOADING			ENVIRONMENTAL AND CIVIL ENGINEERING 23 (3): 269-286 MAR 4 2019		
73	STATISTICAL ANALYSIS OF FIRE ACCIDENTS IN CHINESE HIGHWAY TUNNELS 2000-2016	000454963800039	REN, R;ZHOU, H;HU, Z;HE, SY;WANG, XL	TUNNELLING AND UNDERGROUND SPACE TECHNOLOGY 83: 452-460 JAN 2019	ENGINEERING	18
74	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	18
75	NUMERICAL ANALYSIS OF THE COMPRESSIVE AND SHEAR FAILURE BEHAVIOR OF ROCK CONTAINING MULTI-INTERMITTENT JOINTS	000455001900003	FAN, X;LIN, H;LAI, HP;CAO, RH;LIU, J	COMPTES RENDUS MECANIQUE 347 (1): 33-48 JAN 2019	ENGINEERING	18
76	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	17
77	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.	ENVIRONMENT/EC OLOGY	17

				SI FEB 17 2019		
78	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	17
79	CALCULATION OF PILE SIDE FRICTION BY MULTIPARAMETER STATISTICAL ANALYSIS	000491920900002	ZHOU, ZJ;DONG, YQ;JIANG, PJ;HAN, DD;LIU, T	ADVANCES IN CIVIL ENGINEERING 2019: - JUN 18 2019	ENGINEERING	17
80	SETTLEMENT CHARACTERISTICS OF JACKED BOX TUNNELING UNDERNEATH A HIGHWAY EMBANKMENT	000482851400010	WANG, ZC;HU, Z;LAI, JX;WANG, H;WANG, K;ZAN, WB	JOURNAL OF PERFORMANCE OF CONSTRUCTED FACILITIES 33 (2): - APR 2019	ENGINEERING	17
81	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	16
82	SET PAIR ANALYSIS-MARKOV CHAIN MODEL FOR GROUNDWATER QUALITY ASSESSMENT AND PREDICTION: A CASE STUDY OF XIAN CITY, CHINA	000473500400009	SU, FM;WU, JH;HE, S	HUMAN AND ECOLOGICAL RISK ASSESSMENT 25 (1-2): 158-175 SP. ISS. SI FEB 17 2019	ENVIRONMENT/EC OLOGY	16
83	GROUNDWATER QUALITY APPRAISAL BY IMPROVED SET PAIR ANALYSIS WITH GAME THEORY WEIGHTAGE AND HEALTH RISK	000473500400008	TIAN, R;WU, JH	HUMAN AND ECOLOGICAL RISK ASSESSMENT 25	ENVIRONMENT/EC OLOGY	15

	ESTIMATION OF CONTAMINANTS FOR XUECHA DRINKING WATER SOURCE IN A LOESS AREA IN NORTHWEST CHINA			(1-2): 132-157 SP. ISS. SI FEB 17 2019		
84	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
85	MODELING OF LOESS SOAKING INDUCED IMPACTS ON A METRO TUNNEL USING A WATER SOAKING SYSTEM IN CENTRIFUGE	000468457700001	ZHANG, YW;WENG, XL;SONG, ZP;SUN, YF	GEOFLUIDS : - 2019	GEOSCIENCES	15
86	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	14
87	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	11
88	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	11

89	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	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	10
91	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	10
92	URBAN TRANSPORT CARBON DIOXIDE (CO2) EMISSIONS BY COMMUTERS IN RAPIDLY DEVELOPING CITIES: THE COMPARATIVE STUDY OF BEIJING AND XIAN IN CHINA	000466455900007	YANG, L;WANG, YQ;HAN, SS;LIU, YY	TRANSPORTATION RESEARCH PART D-TRANSPORT AND ENVIRONMENT 68: 65-83 SP. ISS. SI MAR 2019	SOCIAL SCIENCES, GENERAL	9
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	9
94	MOISTURE ABSORPTION CHARACTERISTICS AND THERMAL INSULATION PERFORMANCE OF	000527320400083	LI, YY;SUN, YM;QIU, JL;LIU, T;YANG, L;SHE, HD	CONSTRUCTION AND BUILDING	MATERIALS SCIENCE	9

	THERMAL INSULATION MATERIALS FOR COLD REGION TUNNELS			MATERIALS 237: - MAR 20 2020		
95	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	9
96	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	8
97	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	8
98	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	8
99	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	7

				- MAR 21 2020		
100	DISPLACEMENT CHARACTERISTICS OF AN URBAN TUNNEL IN SILTY SOIL BY THE SHALLOW TUNNELLING METHOD	000517583800005	ZHANG, SB;HE, SY;QIU, JL;XU, W;GARNES, RS;WANG, LX	ADVANCES IN CIVIL ENGINEERING 2020: - FEB 11 2020	ENGINEERING	7
101	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	7
102	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	7
103	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	6
104	SHIELD-DRIVEN INDUCED GROUND SURFACE AND MING DYNASTY CITY WALL SETTLEMENT OF XIAN METRO	000514214800003	LAI, JX;ZHOU, H;WANG, K;QIU, JL;WANG, LX;WANG, JB;FENG, ZH	TUNNELLING AND UNDERGROUND SPACE TECHNOLOGY 97: - MAR 2020	ENGINEERING	5
105	POOR GROUNDWATER QUALITY AND HIGH	000516648200001	HE, XD;LI, PY;WU, JH;WEI,	ENVIRONMENTAL	ENVIRONMENT/EC	5

	POTENTIAL HEALTH RISKS IN THE DATONG BASIN, NORTHERN CHINA: RESEARCH FROM PUBLISHED DATA		MJ;REN, XF;WANG, D	GEOCHEMISTRY AND HEALTH : - FEB 25 2020	OLOGY	
106	APPLICATION OF THE TWIN-TUBE COMPLEMENTARY VENTILATION SYSTEM IN LARGE-SLOPPING ROAD TUNNELS IN CHINA	000505689600004	WANG, YQ;XU, SS;REN, R;ZHANG, SZ;REN, ZD	INTERNATIONAL JOURNAL OF VENTILATION 19 (1): 63-82 2020	ENGINEERING	5
107	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	5
108	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	4
109	A THEORY-DRIVEN IDENTIFICATION AND RANKING OF THE CRITICAL SUCCESS FACTORS OF SUSTAINABLE SHIPPING MANAGEMENT	000498805600017	TRAN, TMT;YUEN, KF;LI, KX;BALCI, G;MA, F	JOURNAL OF CLEANER PRODUCTION 243: - JAN 10 2020	ENGINEERING	4
110	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: -	MATHEMATICS	4



				FEB 2020		
111	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;VETTRIMURUGAN, E	EXPOSURE AND HEALTH : - FEB 24 2020	ENVIRONMENT/EC OLOGY	4
112	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	4

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-BIVO4 COMPOSITE PHOTOCATALYSTS AND THEIR ENHANCED PHOTOCATALYTIC PERFORMANCE FOR THE DEGRADATION OF CIPROFLOXACIN	000317878400014	YAN, Y;SUN, SF (Sun, Shaofang, 我校); SONG, Y;YAN, X;GUAN, WS (Guan, Weisheng, 我校);LIU, XL;SHI, WD	JOURNAL OF HAZARDOUS MATERIALS 250: 106-114 APR 15 2013	ENGINEERING	131
2	MICROWAVE SYNTHESIS OF A NOVEL MAGNETIC IMPRINTED TIO2 PHOTOCATALYST WITH EXCELLENT TRANSPARENCY FOR SELECTIVE PHOTODEGRADATION OF ENROFLOXACIN HYDROCHLORIDE RESIDUES SOLUTION	000337554100003	LU, ZY;CHEN, F (Chen, Fei, 我校);HE, M;SONG, MS;MA, ZF;SHI, WD;YAN, YS;LAN, JZ;LI, F;XIAO, P	CHEMICAL ENGINEERING JOURNAL 249: 15-26 AUG 1 2014	ENGINEERING	127
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,	GEOCHIMICA ET COSMOCHIMICA ACTA 156: 173-193 MAY 1 2015	GEOSCIENCES	108

			GQ;CREASER, RA;XIAO, SH;MCFADDEN, K;SAWAKI, Y;TAHATA, M;SHU, DG;HAN, J; <b>LI, Y (Li, Yong, 我校)</b> ;CHU, XL;ANBAR, AD			
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; <b>GUO, F (Guo, Feng, 我校)</b> ;YUAN, SL	APPLIED CATALYSIS B-ENVIRONMENTAL 209: 720-728 JUL 15 2017	CHEMISTRY	95
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; <b>ZHANG, WX (Zhang, Wenxue, 我校)</b> ;CHEN, Y;FAN, HB;SU, DW;WANG, GX	JOURNAL OF MATERIALS CHEMISTRY A 6 (6): 2797-2807 FEB 14 2018	MATERIALS SCIENCE	95
6	LANDSLIDE SUSCEPTIBILITY MODELLING USING GIS-BASED MACHINE LEARNING TECHNIQUES FOR CHONGREN COUNTY, JIANGXI PROVINCE, CHINA	000428194000110	CHEN, W; <b>PENG, JB (Peng, Jianbing, 我校)</b> ;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	73
7	PROMOTING LITHIUM POLYSULFIDE/SULFIDE REDOX KINETICS BY THE CATALYZING OF ZINC SULFIDE FOR HIGH PERFORMANCE LITHIUM-SULFUR BATTERY	000440682100009	XU, J; <b>ZHANG, WX (Zhang, Wenxue, 我校)</b> ;FAN, HB;CHENG, FL;SU, DW;WANG, GX	NANO ENERGY 51: 73-82 SEP 2018	MATERIALS SCIENCE	70
8	GIS-BASED LANDSLIDE SUSCEPTIBILITY	000418899200046	CHEN, W;XIE, XS; <b>PENG, JB</b>	GEOMATICS	GEOSCIENCES	65

	MODELLING: A COMPARATIVE ASSESSMENT OF KERNEL LOGISTIC REGRESSION, NAIVE-BAYES TREE, AND ALTERNATING DECISION TREE MODELS		(Peng, Jianbing, 我校);WANG, JL;DUAN, Z;HONG, HY	NATURAL HAZARDS & RISK 8 (2): 950-973 2017		
9	GIS-BASED LANDSLIDE SUSCEPTIBILITY EVALUATION USING A NOVEL HYBRID INTEGRATION APPROACH OF BIVARIATE STATISTICAL BASED RANDOM FOREST METHOD	000430031800015	CHEN, W;XIE, XS;PENG, JB (Peng, Jianbing, 我校);SHAHABI, H;HONG, HY;BUI, DT;DUAN, Z;LI, SJ;ZHU, AX	CATENA 164: 135-149 MAY 2018	AGRICULTURAL SCIENCES	54
10	LANDSLIDE SUSCEPTIBILITY MODELING BASED ON GIS AND NOVEL BAGGING-BASED KERNEL LOGISTIC REGRESSION	000455145000208	CHEN, W;SHAHABI, H;ZHANG, S;KHOSRAVI, K;SHIRZADI, A;CHAPI, K;PHAM, BT;ZHANG, TY (Zhang, Tingyu, 我校);ZHANG, LY;CHAI, HC;MA, JQ;CHEN, YT;WANG, XJ;LI, RW;BIN AHMAD, B	APPLIED SCIENCES-BASEL 8 (12): - DEC 2018	ENGINEERING	50
11	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, 我校)	SCIENCE OF THE TOTAL ENVIRONMENT 684: 31-49 SEP 20 2019	ENVIRONMENT/EC OLOGY	29
12	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, 我校)	SCIENCE BULLETIN 64 (13): 926-933 JUL 15 2019	CHEMISTRY	25
13	A NOVEL POROUS C4N4 MONOLAYER AS A	000459331600069	LI, TT;HE, C;ZHANG, WX	JOURNAL OF	MATERIALS	24

	POTENTIAL ANCHORING MATERIAL FOR LITHIUM-SULFUR BATTERY DESIGN		(Zhang, Wenxue, 我校)	MATERIALS CHEMISTRY A 7 (8): 4134-4144 FEB 28 2019	SCIENCE	
14	PARTICLE SIZE DISTRIBUTION EFFECTS ON DEFORMATION PROPERTIES OF GRADED AGGREGATE BASE UNDER CYCLIC LOADING	000466179000001	LIN, H;WANG, H;FAN, X (Fan, Xiang, 我校);CAO, P;ZHOU, KF	EUROPEAN JOURNAL OF ENVIRONMENTAL AND CIVIL ENGINEERING 23 (3): 269-286 MAR 4 2019	ENGINEERING	18
15	A NEW SOIL-WATER CHARACTERISTIC CURVE MODEL FOR UNSATURATED LOESS BASED ON WETTING-INDUCED PORE DEFORMATION	000466352700001	ZHANG, YW;SONG, ZP;WENG, XL (Weng, Xiaolin, 我校);XIE, YL	GEOFLUIDS : - 2019	GEOSCIENCES	18
16	A THEORY-DRIVEN IDENTIFICATION AND RANKING OF THE CRITICAL SUCCESS FACTORS OF SUSTAINABLE SHIPPING MANAGEMENT	000498805600017	TRAN, TMT;YUEN, KF;LI, KX;BALCI, G;MA, F (Ma, Fei, 我校)	JOURNAL OF CLEANER PRODUCTION 243: - JAN 10 2020	ENGINEERING	4
17	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	17
18	MULTI-CRITERIA USER EQUILIBRIUM MODEL CONSIDERING TRAVEL TIME, TRAVEL TIME RELIABILITY AND DISTANCE	000459368100002	SUN, C;CHENG, L;ZHU, SL;HAN, F(Han, Fei, 我校);CHU, ZM	TRANSPORTATION RESEARCH PART D-TRANSPORT AND ENVIRONMENT 66:	SOCIAL SCIENCES, GENERAL	15

				3-12 SP. ISS. SI JAN 2019		
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, 我校);SONG, ZP;SUN, YF (Sun, Yufeng, 我校)	GEOFLUIDS : - 2019	GEOSCIENCES	15
20	HOW SAFE IS SAFE ENOUGH FOR SELF-DRIVING VEHICLES?	000458171100004	LIU, P;YANG, R;XU, ZG (Xu, Zhigang, 我校)	RISK ANALYSIS 39 (2): 315-325 SP. ISS. SI FEB 2019	SOCIAL SCIENCES, GENERAL	11
21	PERFORMANCE OF A DEEP EXCAVATION IN LANZHOU STRONG PERMEABLE SANDY GRAVEL STRATA	000513943700002	ZHENG, YC;XIONG, J;LIU, T;YUE, XB (Yue, Xiabing, 我校);QIU, JL (Qiu, Junling, 我校)	ARABIAN JOURNAL OF GEOSCIENCES 13 (4): - FEB 5 2020	GEOSCIENCES	11
22	NEW CONSTRUCTION TECHNOLOGY OF A SHALLOW TUNNEL IN BOULDER-COBBLE MIXED GROUNDS	000522931300001	LIU, T;ZHONG, YJ (Zhong, Yujian, 我校);FENG, ZH (Feng, Zhihua, 我校);XU, W (Xu, Wei, 我校);SONG, FT (Song, Feiting, 我校);LI, CH (Li, Chenghan, 我校)	ADVANCES IN CIVIL ENGINEERING 2020: - MAR 21 2020	ENGINEERING	7
23	RECENT MASSIVE INCIDENTS FOR SUBWAY CONSTRUCTION IN SOFT ALLUVIAL DEPOSITS OF TAIWAN: A REVIEW	000509614300004	CHENG, WC;LI, G;LIU, NN (Liu, Nina, 我校);XU, J;HORPIBULSUK, S	TUNNELLING AND UNDERGROUND SPACE TECHNOLOGY 96: - FEB 2020	ENGINEERING	6
24	CHARACTERISTICS OF MICROSEISMICITY DURING BREAKTHROUGH IN DEEP TUNNELS: CASE STUDY	000502794700037	FENG, GL;FENG, XT;CHEN, BR;XIAO, YX;LIU, GF (Liu,	INTERNATIONAL JOURNAL OF	ENGINEERING	4

	OF JINPING-II HYDROPOWER STATION IN CHINA		Guo-Feng, 我校);ZHANG, W;HU, L	GEOMECHANICS 20 (2): - FEB 1 2020		
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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	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	11
2	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	10
3	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	9
4	CONTINUUM ANALYSIS OF THE STRUCTURALLY CONTROLLED DISPLACEMENTS FOR LARGE-SCALE UNDERGROUND CAVERNS IN BEDDED ROCK	000514214800046	LI, A;LIU, Y;DAI, F;LIU, K;WEI, MD	TUNNELLING AND UNDERGROUND SPACE TECHNOLOGY 97: - MAR 2020	ENGINEERING	7

	MASSES					
5	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	7
6	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	5
7	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;VETTRIMURUGAN, E	EXPOSURE AND HEALTH : - FEB 24 2020	ENVIRONMENT/ECOLOGY	4

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	PERFORMANCE OF A DEEP EXCAVATION IN LANZHOU STRONG PERMEABLE SANDY GRAVEL STRATA	000513943700002	ZHENG, YC;XIONG, J;LIU, T;YUE, XB (Yue, Xiabing, 我校);QIU, JL (Qiu, Junling, 我校)	ARABIAN JOURNAL OF GEOSCIENCES 13 (4): - FEB 5 2020	GEOSCIENCES	11
5	NEW CONSTRUCTION TECHNOLOGY OF A SHALLOW TUNNEL IN BOULDER-COBBLE	000522931300001	LIU, T;ZHONG, YJ (Zhong, Yujian, 我校);FENG, ZH (Feng, Zhihua, 我校);XU, W	ADVANCES IN CIVIL ENGINEERING 2020: - MAR 21 2020	ENGINEERING	7

	MIXED GROUNDS		(Xu, Wei, 我校); SONG, FT (Song, Feiting, 我校); LI, CH (Li, Chenghan, 我校)			
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我校发表的 112 篇 ESI 高被引论文的院系分布情况：水利与环境学院 38 篇，比上期增加 3 篇，位居首位；公路学院 36 篇，比上期增加 8 篇；信息工程学院 8 篇，与上期持平；汽车学院 8 篇，与上期持平；地质工程与测绘学院 8 篇，比上期增加 2 篇；理学院 4 篇，比上期增加 1 篇；材料科学与工程学院 3 篇，与上期持平；经济与管理学院 3 篇，比上期增加 2 篇；地球科学与资源学院 2 篇，与上期持平；工程机械学院 2 篇；与上期持平。从本期 ESI 数据可以看出，部分学院表现良好：公路学院 ESI 高被引论文的增幅较大；经济与管理学院在上一期（2020.5）首次出现 ESI 高被引论文以来，本期再次增加 2 篇高被引论文；地质工程与测绘学院本期增加了 2 篇高被引论文；理学院本期也增加了 1 篇高被引论文。表 5 和表 6 分别显示了我校近 10 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 10 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

表 6 近 10 期长安大学 ESI 热点论文院系分布情况

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

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 112 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* 和 *HUMAN AND ECOLOGICAL RISK ASSESSMENT* 是我校 ESI 高被引论文发文量最高的期刊，影响因子分别为 4.762 和 2.3，发表高被引论文均为 10 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《CoO and g-C<sub>3</sub>N<sub>4</sub> complement each other for highly efficient overall water splitting under visible light》和《In situ synthesis of Z-scheme Ag<sub>3</sub>PO<sub>4</sub>/CuBi<sub>2</sub>O<sub>4</sub> photocatalysts and enhanced photocatalytic performance for the degradation of tetracycline under visible light irradiation》，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。基于此，我们建议相关研究人员可以向更高影响力的期刊投稿。图 2 展示了我校 112 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 84%以上，表明我校本期 ESI 高被引论文来源期刊的质量相对较高，这种良好态势应该继续保持下去。

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	10	768	Q1	4.762	5.424
ENVIRONMENTAL EARTH SCIENCES	2	6	447	Q2	2.18	16.723
HUMAN AND ECOLOGICAL RISK ASSESSMENT	3	10	286	Q3	2.3	8.898
ENERGY CONVERSION AND MANAGEMENT	4	1	202	Q1	8.208	5.09
JOURNAL OF HAZARDOUS MATERIALS	5	3	201	Q1	9.038	4.77
APPLIED CATALYSIS B-ENVIRONMENTAL	6	2	162	Q1	16.683	2.17
CHEMICAL ENGINEERING JOURNAL	7	1	134	Q1	10.652	3.61
JOURNAL OF MATERIALS CHEMISTRY A	8	2	130	Q1	11.301	4.91
ARABIAN JOURNAL OF GEOSCIENCES	9	2	120	Q4	1.327	72.94
ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH	10	1	118	Q2	3.056	16.29
GEOCHIMICA ET COSMOCHIMICA ACTA	11	1	115	Q1	4.659	4.41
SCIENCE OF THE TOTAL ENVIRONMENT	12	2	109	Q1	6.551	6.585
APPLIED AND COMPUTATIONAL	13	1	98	Q1	2.354	10.19

MATHEMATICS						
MEDITERRANEAN JOURNAL OF MATHEMATICS	14	1	94	Q1	1.216	21.66
NATURAL HAZARDS	15	2	88	Q2	2.427	4.56
ENERGY	16	3	86	Q1	6.082	6.603
NANO ENERGY	17	1	85	Q1	16.602	3.2
JOURNAL OF PERFORMANCE OF CONSTRUCTED FACILITIES	18	3	84	Q3	1.648	17.497
ENGINEERING GEOLOGY	19	2	83	Q1	4.779	5.035
IEEE TRANSACTIONS ON MULTIMEDIA	20	1	80	Q1	6.051	4.81
SHOCK AND VIBRATION	21	1	73	Q3	1.298	17.03
JOURNAL OF SENSORS	22	1	72	Q3	1.595	13.55
MINE WATER AND THE ENVIRONMENT	23	1	71	Q1	3.184	13.87
GEOFLUIDS	24	3	66	Q2	1.534	18.587
GEOMATICS NATURAL HAZARDS & RISK	24	1	66	Q1	3.333	7.88
PHYSICA A-STATISTICAL MECHANICS AND ITS APPLICATIONS	26	2	64	Q2	2.924	8.605
INTERNATIONAL JOURNAL OF ENGINEERING SCIENCE	27	1	62	Q1	9.219	3.13
INTERNATIONAL JOURNAL OF WATER RESOURCES DEVELOPMENT	28	1	61	Q1	3.136	8.61
CATENA	29	1	58	Q1	4.333	8.49
FILOMAT	30	1	57	Q2	0.848	27.79
APPLIED SCIENCES-BASEL	31	1	56	Q2	2.474	15.78
NONLINEAR DYNAMICS	32	1	55	Q1	4.867	7.11
RENEWABLE & SUSTAINABLE ENERGY REVIEWS	32	1	55	Q1	12.11	2.53
CONSTRUCTION AND BUILDING MATERIALS	34	3	50	Q1	4.419	12.183
APPLIED THERMAL ENGINEERING	35	1	46	Q1	4.725	5.89
MATHEMATICAL PROBLEMS IN ENGINEERING	36	1	45	Q3	1.009	41.04
TUNNELLING AND UNDERGROUND SPACE TECHNOLOGY	37	4	44	Q1	4.45	9.885
JOURNAL OF AIR TRANSPORT MANAGEMENT	38	1	42	Q2	2.811	6.34
ADVANCES IN CIVIL ENGINEERING	38	4	42	Q3	1.176	44.693
INTERNATIONAL JOURNAL OF PAVEMENT ENGINEERING	40	2	37	Q2	2.646	9.61
MATHEMATICAL METHODS IN THE APPLIED SCIENCES	41	1	36	Q2	1.626	6.91
SCIENCE BULLETIN	41	1	36	Q1	9.511	7.32

APPLIED ENERGY	43	1	34	Q1	8.848	6.15
TRANSPORTATION RESEARCH PART D-TRANSPORT AND ENVIRONMENT	43	3	34	Q1	4.577	4.593
JOURNAL OF CLEANER PRODUCTION	45	2	30	Q1	7.246	5.125
RISK ANALYSIS	46	2	29	Q1	3.137	8.58
COMPUTERS AND GEOTECHNICS	47	1	28	Q1	3.818	8.4
INTERNATIONAL JOURNAL OF PRODUCTION RESEARCH	47	1	28	Q1	4.577	8.76
BULLETIN OF ENGINEERING GEOLOGY AND THE ENVIRONMENT	49	1	27	Q2	3.041	6.75
ENVIRONMENTAL GEOCHEMISTRY AND HEALTH	50	2	20	Q1	3.472	17.265
EUROPEAN JOURNAL OF ENVIRONMENTAL AND CIVIL ENGINEERING	51	1	19	Q2	1.832	16.3
COMPTEs RENDUS MECANIQUE	51	1	19	Q3	1.509	11.36
COMMUNICATIONS ON PURE AND APPLIED ANALYSIS	53	2	18	Q2	1.105	27.92
JOURNAL OF ASIAN EARTH SCIENCES	54	1	17	Q2	3.059	9.93
ACCIDENT ANALYSIS AND PREVENTION	55	1	15	Q1	3.655	5.22
ROBOTICS AND COMPUTER-INTEGRATED MANUFACTURING	56	1	11	Q1	5.057	11.1

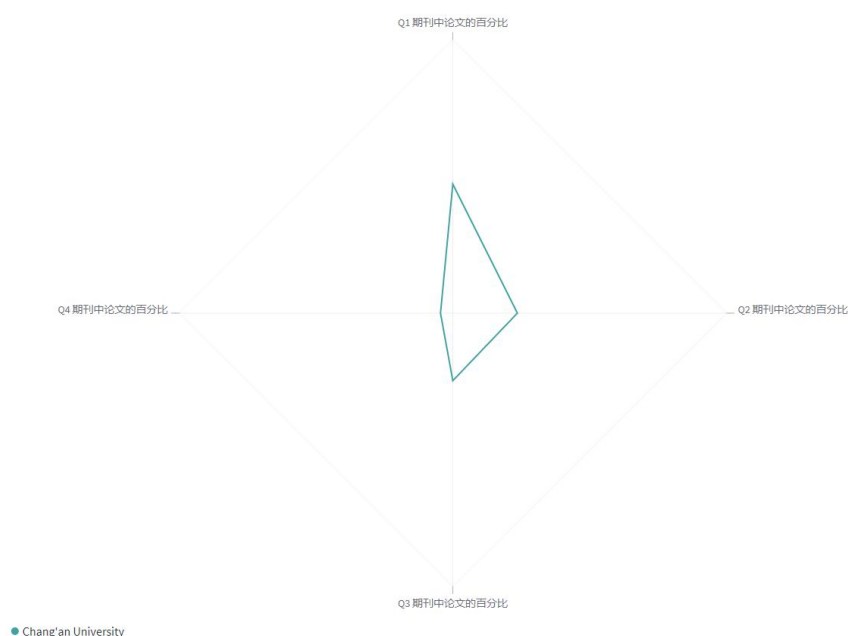


图 2 长安大学 112 篇 ESI 高被引论文来源期刊的分区占比图

## 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 1,917 篇（ESI 高被引论文 38 篇），被引次数为 10,156 次。本期全球有 1,585 所机构（中国机构 290 所）的工程学科进入 ESI 全球排名前 1% 行列，我校位列 608 位（在中国机构中位列 110 位），全球排位 38.36%，**进入全球 ESI 机构排名前千分之五**。表 9 为近 10 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 10 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

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 1,086 篇（ESI 高被引论文 13 篇），被引次数为 8,374 次。本期全球有 744 所机构（中国机构 68 所）的地球科学进入 ESI 全球排名前 1% 行列，我校位列 612 位（中国机构中位列 59 位），全球排位 82.26%。表 10 为近 5 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 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
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	744	1,086	8,374

本期我校在材料科学领域共发表 ESI 论文 1,196 篇（ESI 高被引论文 6 篇），

被引次数为 8,020 次。本期全球有 943 所机构（中国机构 200 所）的材料科学进入 ESI 全球排名前 1% 行列，我校位列 828 位（中国机构中位列 177 位），全球排位 87.8%。表 11 为近 3 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 3 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
2020.3.12	167	921	1,081	7,103
2020.5.14	188	876	1,107	7,117
2020.7.9	177	828	1,196	8,020

本期我校在环境/生态科学领域共发表 ESI 论文 679 篇（ESI 高被引论文 33 篇），被引用 5,615 次。本期全球有 1,111 所机构（中国机构 113 所）的环境/生态科学进入 ESI 全球排名前 1% 行列，我校位列 942 位（中国机构中位列 81 位），全球排位 84.79%。表 12 为近 2 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 2 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

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	2040	1.07	11769	67.01
Geosciences	2	1140	1.04	9169	77.90
Materials Science	3	1286	0.83	9157	74.49
Environment/Ecology	4	715	1.70	6330	68.11
Chemistry	5	609	1.01	5150	78.49
Physics	6	285	0.72	1991	74.74
Computer Science	7	203	0.94	1079	64.04
Social Sciences, general	8	115	1.95	630	73.91
Mathematics	9	131	1.80	575	58.78



Agricultural Sciences	10	49	1.13	267	55.10
Biology & Biochemistry	11	37	0.90	249	70.27
Space Science	12	37	0.54	210	72.97
Plant & Animal Science	13	24	1.09	177	79.17
Pharmacology & Toxicology	14	8	1.02	109	75
Economics & Business	15	17	1.03	108	58.83
Clinical Medicine	16	22	0.45	80	50
Neuroscience & Behavior	17	10	0.30	65	50
Microbiology	18	5	1.21	54	80
Psychiatry/Psychology	19	16	0.330	39	43.75
Molecular Biology & Genetics	20	3	0.34	31	100
Multidisciplinary	21	6	0.54	26	66.67
Immunology	22	4	0.75	22	75

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；材料科学发文量位居第二位，略高于地球科学，但是其被引频次却低于地球科学。

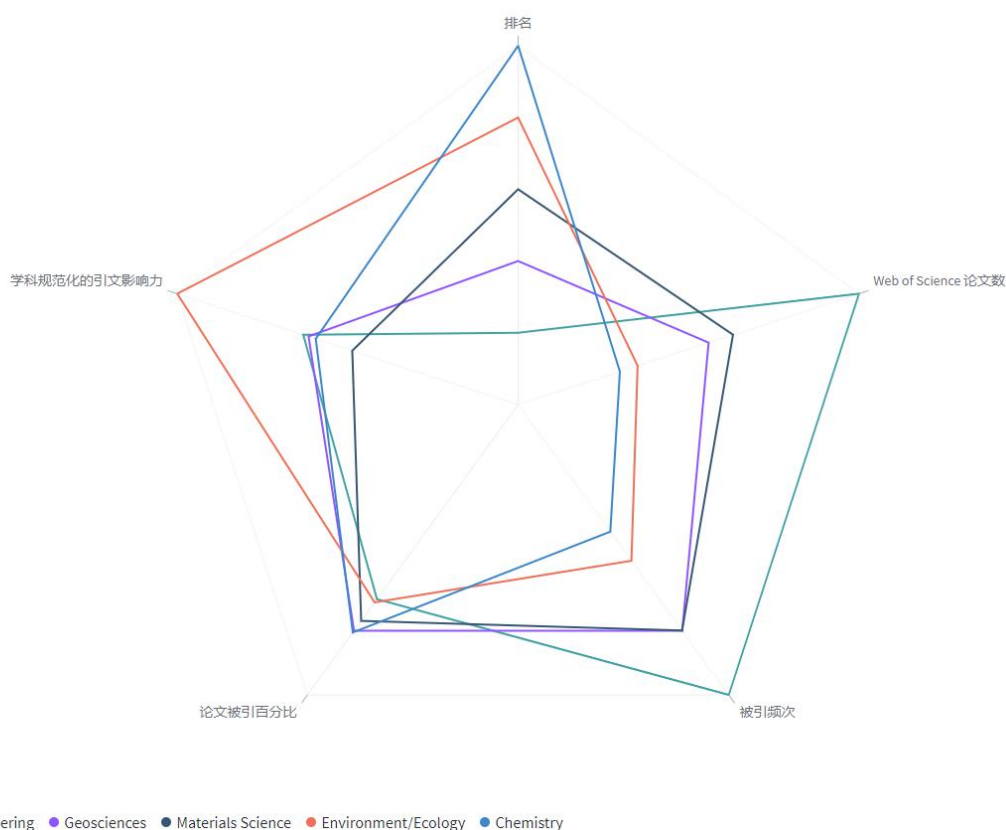


图 3 长安大学发文量前 5 的 ESI 学科发文量、被引频次、CNCI、论文被引百分比的雷达图

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/生态科学和化学的 CNCI 值大于 1，材料

科学的 CNCI 值接近 1，表明我校这几个学科领域的研究已经达到国际水平，其中特别值得关注的是我校环境/生态科学的 CNCI 值为最高，达到了 1.7，说明该学科的研究水平相对比较高；同时，我们还注意到我校化学学科 CNCI 值已达到 1，说明该领域我校研究水平已经有很大提升，但被引频次还比较低，要想实现更大提升仍需一定的努力。

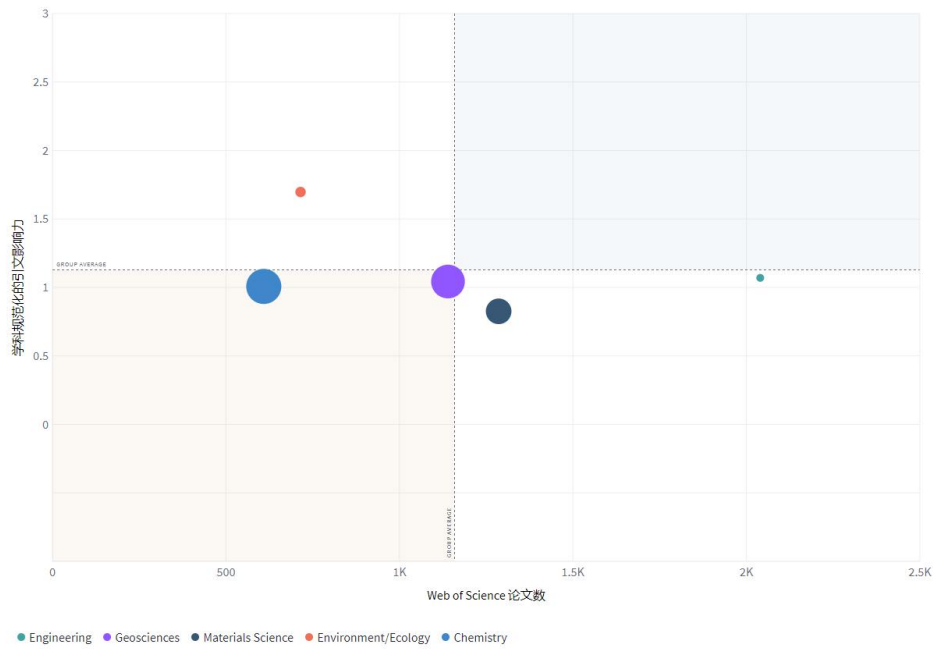


图 4 2010-2020 年长安大学发文量 TOP5 的 ESI 学科 CNCI 值表现情况

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。

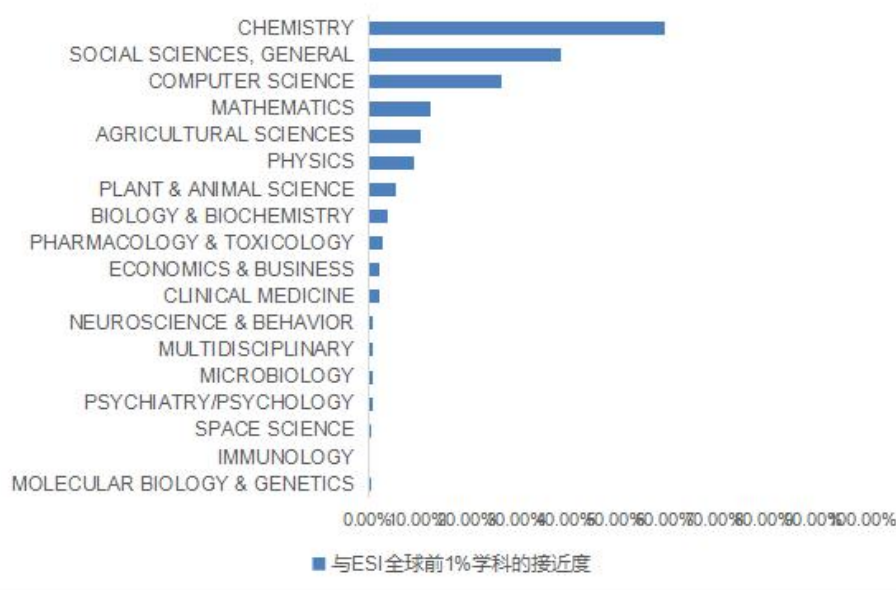


图 5 长安大学具有潜力进入 ESI 全球前 1%的学科预测情况

本期全球有 1327 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 244 所。在对我校和全球化学学科进入 ESI 前 1%排位的末位机构 GUANGZHOU INSTITUTE OF ENERGY CONVERSION, CAS 的 WOS 发文量、被引频次进行对比后发现，我校的化学学科发文量与末位机构的发文量很接近，但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（2010-2020.5.19）

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	609	5,150	8,278
GUANGZHOU INSTITUTE OF ENERGY CONVERSION, CAS	649	8,278	

### 三. 陕西省内高校 ESI 全球前 1%学科对比分析

对陕西省内有学科进入 ESI 全球前 1%的高校进行了对比分析，并统计了进入 ESI 全球前 1%的学科名称、个数、WOS 发文量和被引频次，本期全省有 14 所高校拥有 ESI 排名前 1%的学科（西安科技大学为本期首次进入 ESI 前 1%），其中学科数最多的高校为西安交通大学，为 15 个。我校目前有 4 个学科进入 ESI 全球排名前 1%，仍然需要全校师生的共同努力，以实现更多优势学科的突破发展。图 6 为 14 所高校 2010-2020 年的发文量情况，图 7 为 14 所高校 2010-2020 年发文被引频次情况，图 8 为 14 所高校 2009-2020 年论文发文量、被引频次、

论文被引百分比的雷达图，从这些图中可以看出我校在发文数量、被引频次等方面与排名前列的高校还存在一定的差距，还需要继续努力。

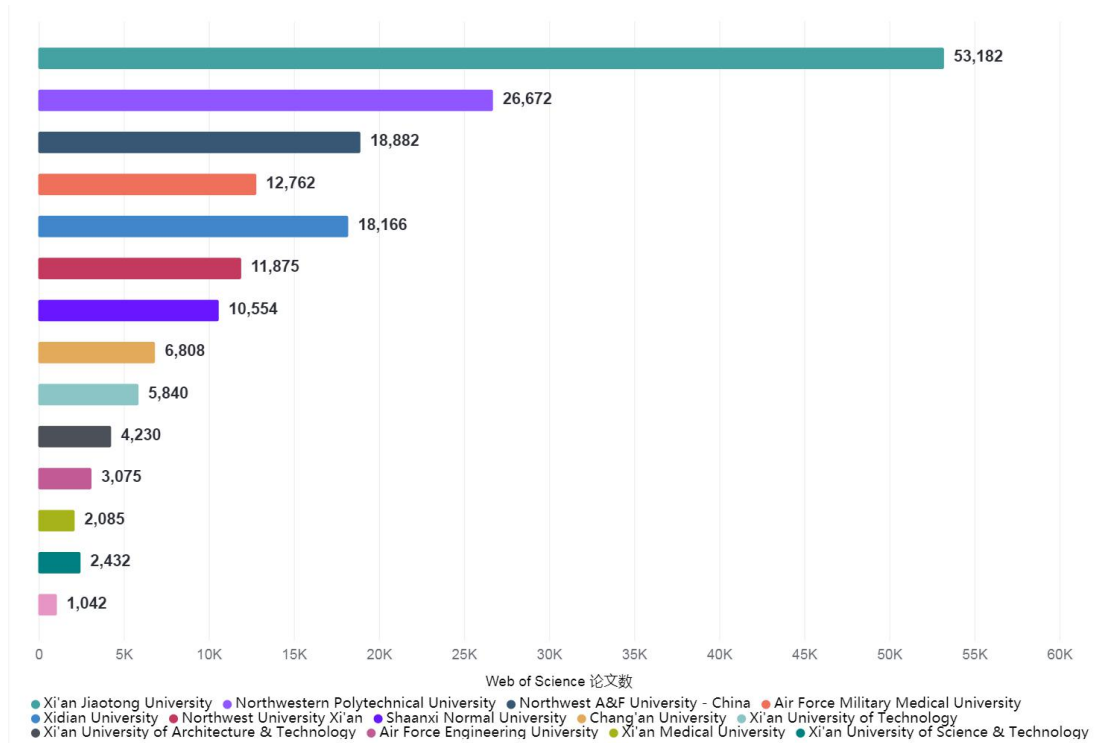


图 6 陕西省 14 所高校的发文量情况（2010-2020）

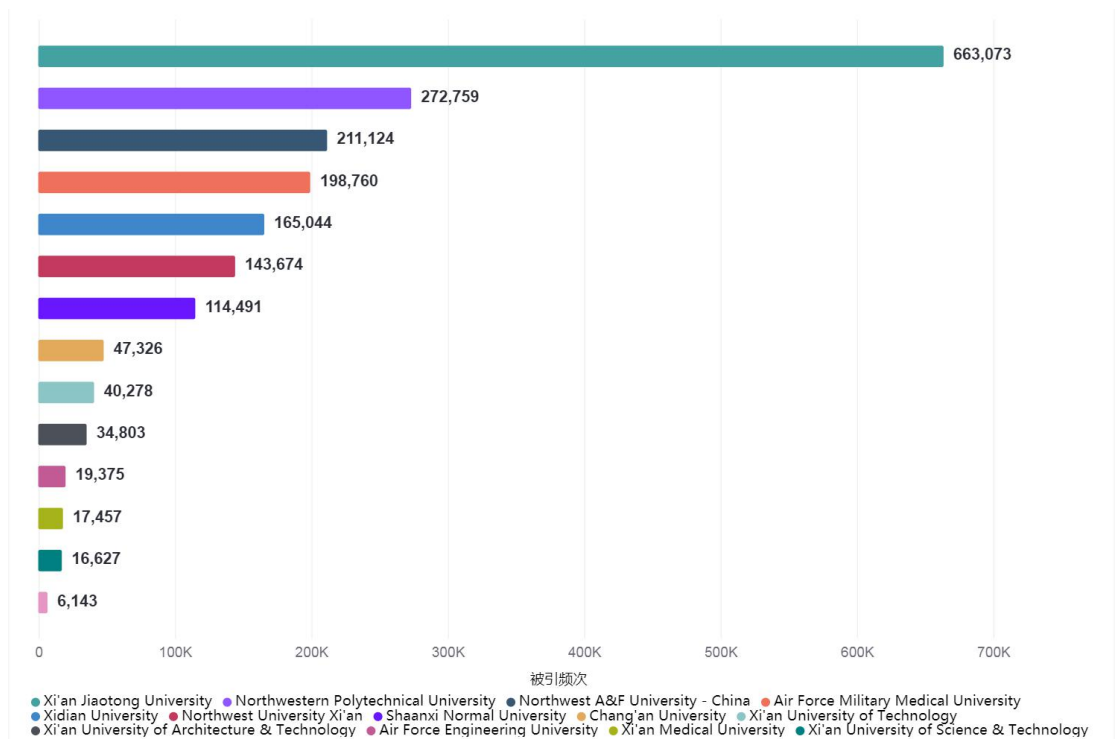


图 7 陕西省 14 所高校的发文被引频次情况（2010-2020）

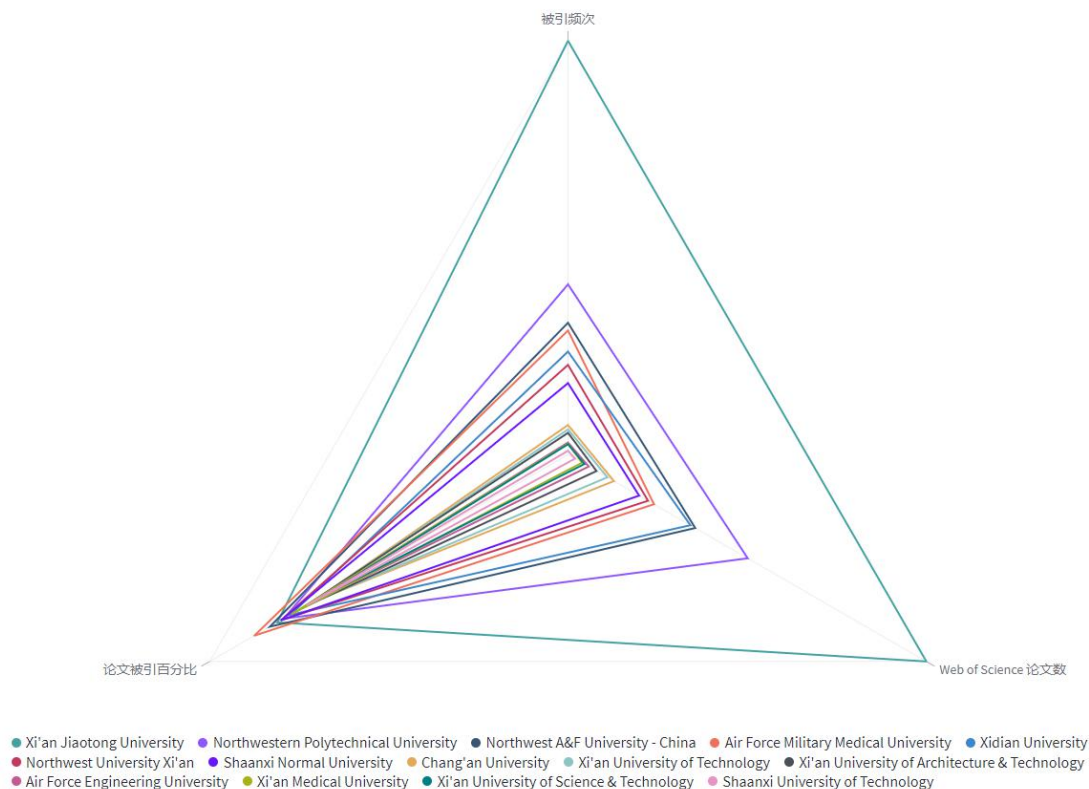


图 8 陕西省 14 所高校的论文发文量、被引频次、论文被引百分比雷达图（2010-2020）

图 9 为 14 所高校的 CNCI 情况，可以看出，我校的 CNCI 刚刚达到全球平均水平，要实现更高水平的突破还需要更大的努力。

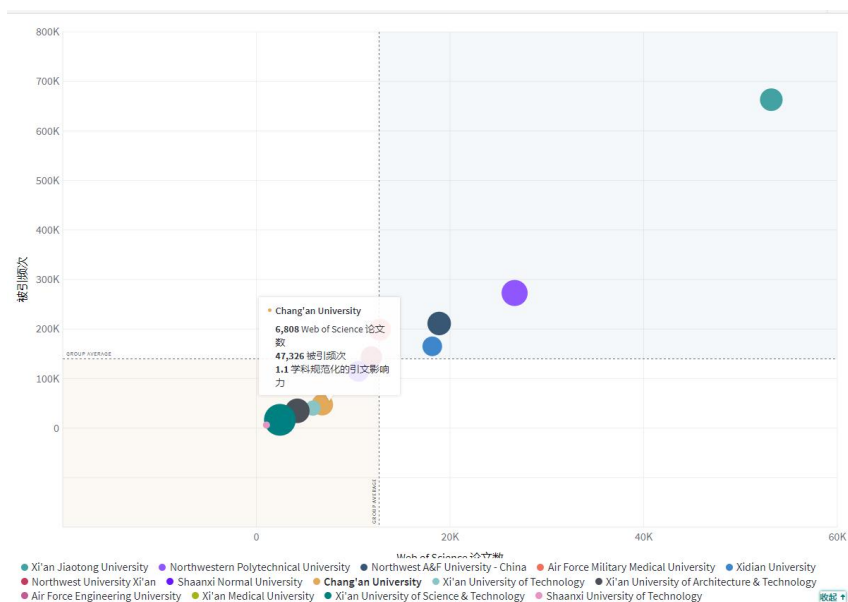


图 9 陕西省 14 所高校学科规范化的引文影响力情况

表 15 陕西省内高校 ESI 全球前 1% 学科概况 (按被引频次排序)

序号	高校名称	论文篇数	总被引频次	进入前 1% 的学科数	学科名称	全球 ESI 排位
1	西安交通大学	51,344	592,627	15	工程学	269
					材料科学	
					经济与商学	
					计算机科学	
					物理学	
					地球科学	
					一般社会科学	
					药理学与毒物学	
					神经科学与行为	
					临床医学	
					分子生物与遗传学	
					数学	
					化学	

					生物与生化	
					环境/生态科学	
2	西北工业大学	25,688	240,241	5	材料科学	662
					工程学	
					计算机科学	
					物理学	
					化学	
3	西北农林科技大学	18,151	193,679	9	农业科学	790
					植物与动物科学	
					环境/生态学	
					生物与生化	
					分子生物与遗传学	
					药理学与毒物学	
					工程学	
					化学	
					微生物学	

4	空军军医大学	12,491	188,123	6	神经科学与行为	805
					临床医学	
					分子生物与遗传学	
					药理学与毒物学	
					生物与生化	
					材料科学	
5	西安电子科技大学	17,603	135,096	4	计算机科学	1074
					工程学	
					地球科学	
					材料科学	
6	西北大学	11,486	132,950	6	地球科学	1084
					化学	
					药理学与毒物学	
					材料科学	
					临床医学	



7	陕西师范大学	10,181	105,158	4	工程学	1275
					农业科学	
					化学	
					材料科学	
					工程学	
8	长安大学	6,396	41,950	4	工程学	2449
					地球科学	
					材料科学	
					环境/生态学	
9	西安理工大学	5,545	34,861	2	工程学	2736
					材料科学	
10	陕西科技大学	4,035	34,246	2	材料科学	2775
					化学	
11	西安建筑科技大学	4,008	30,867	3	环境/生态学	2965
					工程学	

					材料科学	
12	空军工程大学	2,995	16,679	1	工程学	4083
13	西安医学院	2,036	16,359	1	临床医学	4119
14	西安科技大学	2,285	14,660	1	工程学	4300