

长安大学 ESI 月报

(2020 年 3 月 12 日更新数据)

数据统计：图书馆信息部

联系电话：82334377



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

数据源简介：

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

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

本次数据统计分析时间：2020.3.12

联系电话：029-82334377

2020 年 3 月 12 日，最新一期 ESI 数据更新发表，统计数据覆盖时间范围为 10 年 12 个月（2009.1.1-2019.12.31），本期长安大学材料科学首次进入 ESI 排名前 1%。下面对长安大学在本次统计数据覆盖时间范围内的表现进行分析。

一. 长安大学 ESI 高被引论文情况

在本次 ESI 统计数据覆盖时间范围内，全球位列 ESI 高水平研究机构总数 6581 所，比上期（2020 年 1 月）增加 201 所（上期 6581 所），我校 ESI 排名 2691 位（上期 2753 位）。本期我校有三个 ESI 学科进入全球排名前 1%：工程学、地球科学和材料科学，其中材料科学为首次进入 ESI 全球排名前 1%。2009 年 1 月 1 日至 2019 年 12 月 31 日，长安大学的 WOS 论文总数为 5,777，总被引频次为 36,837 次。本期我校 ESI 高被引论文有 91 篇（见表 1），比上期（2020 年 1 月更新数据为 98 篇）减少 7 篇，其中工程学领域高被引论文 34 篇，地球科学领域高被引论文 14 篇，材料科学领域高被引论文 4 篇；长安大学作为合作单位发表的高被引论文有 19 篇（见表 2）；本期我校热点论文 1 篇，来自于环境/生态科学领域（见表 3）。我校 91 篇高被引论文的年代分布见图 1，被引频次按年份分布图见图 2。

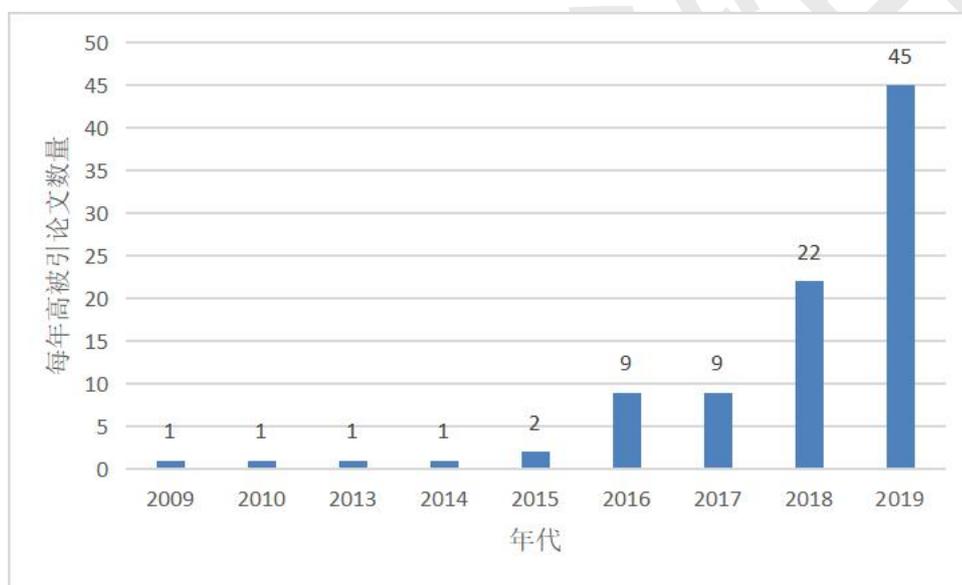


图 1 我校 91 篇高被引论文的年代分布

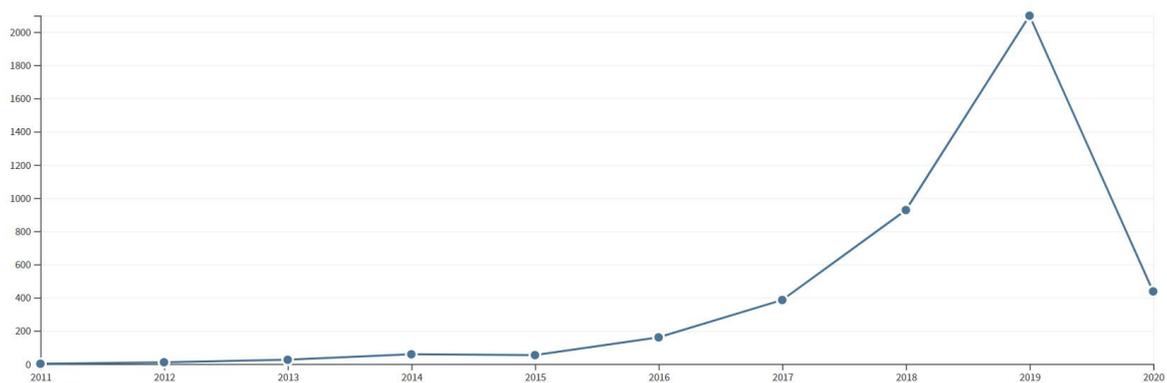


图 2 91 篇高被引论文按年份的被引频次

长安大学图书馆

表 1 长安大学 ESI 高被引论文简况 (按 ESI 被引频次排序)

| 序号 | 论文名称 | WOS 号 | 作者 | 来源期刊 | ESI 学科 | ESI 被引次数 |
|----|--|-----------------|--|--|----------------------|----------|
| 1 | COMBUSTION AND PERFORMANCE EVALUATION OF A DIESEL ENGINE FUELED WITH BIODIESEL PRODUCED FROM SOYBEAN CRUDE OIL | 000269711300022 | QI, DH;GENG, LM;CHEN, H;BIAN, YZ;LIU, J;REN, XC | RENEWABLE ENERGY 34 (12): 2706-2713 DEC 2009 | ENGINEERING | 188 |
| 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 | 173 |
| 3 | EVALUATION OF SHALLOW GROUNDWATER CONTAMINATION AND ASSOCIATED HUMAN HEALTH RISK IN AN ALLUVIAL PLAIN IMPACTED BY AGRICULTURAL AND INDUSTRIAL ACTIVITIES, MID-WEST CHINA | 000381997600002 | WU, JH;SUN, ZC | EXPOSURE AND HEALTH 8 (3): 311-329 SEP 2016 | ENVIRONMENT/EC OLOGY | 152 |
| 4 | 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 | 138 |
| 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 | 124 |
| 6 | MICROWAVE SYNTHESIS OF A NOVEL MAGNETIC | 000337554100003 | LU, ZY;CHEN, F;HE, | CHEMICAL | ENGINEERING | 112 |

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| | IMPRINTED TiO ₂ PHOTOCATALYST WITH EXCELLENT TRANSPARENCY FOR SELECTIVE PHOTODEGRADATION OF ENROFLOXACIN HYDROCHLORIDE RESIDUES SOLUTION | | M;SONG, MS;MA, ZF;SHI, WD;YAN, YS;LAN, JZ;LI, F;XIAO, P | ENGINEERING JOURNAL 249: 15-26 AUG 1 2014 | | |
| 7 | 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 | 101 |
| 8 | HYDROGEOCHEMICAL CHARACTERIZATION OF GROUNDWATER IN AND AROUND A WASTEWATER IRRIGATED FOREST IN THE SOUTHEASTERN EDGE OF THE TENGGER DESERT, NORTHWEST CHINA | 000381997600003 | LI, PY;WU, JH;QIAN, H;ZHANG, YT;YANG, NA;JING, LJ;YU, PY | EXPOSURE AND HEALTH 8 (3): 331-348 SEP 2016 | ENVIRONMENT/EC OLOGY | 99 |
| 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 | 99 |
| 10 | 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): | ENVIRONMENT/EC OLOGY | 90 |

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| | | | | 13224-13234 MAY 2017 | | |
| 11 | HYDROCHEMICAL APPRAISAL OF GROUNDWATER QUALITY FOR DRINKING AND IRRIGATION PURPOSES AND THE MAJOR INFLUENCING FACTORS: A CASE STUDY IN AND AROUND HUA COUNTY, CHINA | 000369322200015 | LI, PY;WU, JH;QIAN, H | ARABIAN JOURNAL OF GEOSCIENCES 9 (1): - JAN 2016 | GEOSCIENCES | 88 |
| 12 | 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 | 75 |
| 13 | 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 | 74 |
| 14 | 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 | 73 |
| 15 | 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 | MATERIALS SCIENCE | 71 |

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| | | | | 2018 | | |
| 16 | VIBRATION RESPONSE CHARACTERISTICS OF THE CROSS TUNNEL STRUCTURE | 000379610300001 | LAI, JX;WANG, KY;QIU, JL;NIU, FY;WANG, JB;CHEN, JX | SHOCK AND VIBRATION : - 2016 | ENGINEERING | 65 |
| 17 | FIBER BRAGG GRATING SENSORS-BASED IN SITU MONITORING AND SAFETY ASSESSMENT OF LOESS TUNNEL | 000385100600001 | LAI, JX;QIU, JL;FAN, HB;ZHANG, Q;HU, ZN;WANG, JB;CHEN, JX | JOURNAL OF SENSORS : - 2016 | ENGINEERING | 63 |
| 18 | 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 | 59 |
| 19 | 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 | 58 |
| 20 | 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 | 56 |
| 21 | 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 | 55 |
| 22 | SINGLE IMAGE SUPER-RESOLUTION VIA LOCALLY REGULARIZED ANCHORED NEIGHBORHOOD | 000391475200002 | JIANG, JJ;MA, X;CHEN, C;LU, T;WANG, ZY;MA, JY | IEEE TRANSACTIONS ON | COMPUTER SCIENCE | 54 |

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| | REGRESSION AND NONLOCAL MEANS | | | MULTIMEDIA 19 (1): 15-26 JAN 2017 | | |
| 23 | 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 | 52 |
| 24 | 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 | 50 |
| 25 | ON VIBRATIONS OF NONLOCAL RODS: BOUNDARY CONDITIONS, EXACT SOLUTIONS AND THEIR ASYMPTOTICS | 000408286000016 | XU, XJ;ZHENG, ML;WANG, XC | INTERNATIONAL JOURNAL OF ENGINEERING SCIENCE 119: 217-231 OCT 2017 | ENGINEERING | 49 |
| 26 | 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 | 49 |
| 27 | 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 | 49 |
| 28 | THE CATASTROPHIC LANDSIDE IN MAOXIAN | 000415325500026 | QIU, JL;WANG, XL;HE, | NATURAL | GEOSCIENCES | 48 |

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| | COUNTY, SICHUAN, SW CHINA, ON JUNE 24, 2017 | | SY;LIU, HQ;LAI, JX;WANG, LX | HAZARDS 89 (3): 1485-1493 DEC 2017 | | |
| 29 | A NEW HIGH ALGEBRAIC ORDER EFFICIENT FINITE DIFFERENCE METHOD FOR THE SOLUTION OF THE SCHRODINGER EQUATION | 000416115500029 | DONG, M;SIMOS, TE | FILOMAT 31 (15): 4999-5012 2017 | MATHEMATICS | 47 |
| 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 | 45 |
| 31 | CONJUNCTIVE USE OF GROUNDWATER AND SURFACE WATER TO REDUCE SOIL SALINIZATION IN THE YINCHUAN PLAIN, NORTH-WEST CHINA | 000430045800002 | LI, PY;QIAN, H;WU, JH | INTERNATIONAL JOURNAL OF WATER RESOURCES DEVELOPMENT 34 (3): 337-353 SP. ISS. SI 2018 | ENVIRONMENT/EC OLOGY | 42 |
| 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 | 41 |
| 33 | 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 | 41 |
| 34 | IMPACTS ANALYSIS OF CAR FOLLOWING MODELS | 000430027500031 | XIN, Q;YANG, N;FU, R;YU, | PHYSICA | PHYSICS | 41 |

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|----|--|-----------------|---|---|----------------------|----|
| | CONSIDERING VARIABLE VEHICULAR GAP POLICIES | | SW;SHI, ZK | A-STATISTICAL MECHANICS AND ITS APPLICATIONS 501: 338-355 JUL 1 2018 | | |
| 35 | 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 | 39 |
| 36 | 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 | 39 |
| 37 | SIMPLE METHOD TO PREDICT GROUND DISPLACEMENTS CAUSED BY INSTALLING HORIZONTAL JET-GROUTING COLUMNS | 000424800500001 | WANG, ZF;SHEN, JS;CHENG, WC | MATHEMATICAL PROBLEMS IN ENGINEERING : - 2018 | ENGINEERING | 37 |
| 38 | 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 | 34 |
| 39 | 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, | APPLIED SCIENCES-BASEL 8 (12): - DEC 2018 | ENGINEERING | 34 |

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| | | | YT;WANG, XJ;LI, RW;BIN AHMAD, B | | | |
| 40 | 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 | 33 |
| 41 | GLOBAL ASYMPTOTIC STABILITY OF CNNs WITH IMPULSES AND MULTI-PROPORTIONAL DELAYS | 000370234600010 | SONG, XL;ZHAO, P;XING, ZW;PENG, JG | MATHEMATICAL METHODS IN THE APPLIED SCIENCES 39 (4): 722-733 MAR 2016 | MATHEMATICS | 33 |
| 42 | 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 | 33 |
| 43 | 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 | 33 |
| 44 | 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 | 33 |

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| 45 | 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 | 32 |
| 46 | 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 | 30 |
| 47 | A STUDY ON THE MECHANICAL BEHAVIOR AND STATISTICAL DAMAGE CONSTITUTIVE MODEL OF SANDSTONE | 000443205500012 | WANG, JB;SONG, ZP;ZHAO, BY;LIU, XR;LIU, J;LAI, JX | ARABIAN JOURNAL FOR SCIENCE AND ENGINEERING 43 (10): 5179-5192 OCT 2018 | ENGINEERING | 30 |
| 48 | 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 | 26 |
| 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 | 26 |
| 50 | 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 | 25 |
| 51 | HYDROCHEMICAL CHARACTERISTICS AND | 000473500400003 | HE, XD;WU, JH;HE, S | HUMAN AND | ENVIRONMENT/EC | 21 |

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|----|---|-----------------|---------------------------------------|--|----------------------|----|
| | QUALITY EVALUATION OF GROUNDWATER IN TERMS OF HEALTH RISKS IN LUOHE AQUIFER IN WUQI COUNTY OF THE CHINESE LOESS PLATEAU, NORTHWEST CHINA | | | ECOLOGICAL RISK ASSESSMENT 25 (1-2): 32-51 SP. ISS. SI FEB 17 2019 | OLOGY | |
| 52 | 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 | 21 |
| 53 | PARTICLE SIZE DISTRIBUTION EFFECTS ON DEFORMATION PROPERTIES OF GRADED AGGREGATE BASE UNDER CYCLIC LOADING | 000466179000001 | LIN, H;WANG, H;FAN, X;CAO, P;ZHOU, KF | EUROPEAN JOURNAL OF ENVIRONMENTAL AND CIVIL ENGINEERING 23 (3): 269-286 MAR 4 2019 | ENGINEERING | 17 |
| 54 | 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 | 17 |
| 55 | 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 | GEOSCIENCES | 17 |

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|----|---|-----------------|--|---|----------------------|----|
| | | | | (4): 2851-2863 JUN 2019 | | |
| 56 | 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 | 16 |
| 57 | 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 | 16 |
| 58 | 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 | 15 |
| 59 | REVIEW OF THE FLAME RETARDANCY ON HIGHWAY TUNNEL ASPHALT PAVEMENT | 000457659600044 | QIU, JL;YANG, T;WANG, XL;WANG, LX;ZHANG, GL | CONSTRUCTION AND BUILDING MATERIALS 195: 468-482 JAN 20 2019 | MATERIALS SCIENCE | 15 |
| 60 | 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 | 15 |

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|----|---|-----------------|---|--|----------------------|----|
| 61 | 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 | 14 |
| 62 | 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 | 14 |
| 63 | A NEW SOIL-WATER CHARACTERISTIC CURVE MODEL FOR UNSATURATED LOESS BASED ON WETTING-INDUCED PORE DEFORMATION | 000466352700001 | ZHANG, YW;SONG, ZP;WENG, XL;XIE, YL | GEOFLUIDS : - 2019 | GEOSCIENCES | 14 |
| 64 | EFFECTS OF THE PREVISION RELATIVE VELOCITY ON TRAFFIC DYNAMICS IN THE ACC STRATEGY | 000452941100019 | WU, X;ZHAO, XM;SONG, HS;XIN, Q;YU, SW | PHYSICA A-STATISTICAL MECHANICS AND ITS APPLICATIONS 515: 192-198 FEB 1 2019 | PHYSICS | 14 |
| 65 | 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 | 14 |
| 66 | 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 | 14 |

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|----|--|-----------------|---|--|--------------------------|----|
| 67 | 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 | 13 |
| 68 | 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 | 13 |
| 69 | DYNAMIC FAILURE MODE AND DYNAMIC RESPONSE OF HIGH SLOPE USING SHAKING TABLE TEST | 000464817300001 | ZHOU, ZJ;REN, CN;XU, GJ;ZHAN, HC;LIU, T | SHOCK AND VIBRATION : - 2019 | ENGINEERING | 13 |
| 70 | 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 | 13 |
| 71 | TRAFFIC FLOW PREDICTION DURING THE HOLIDAYS BASED ON DFT AND SVR | 000469291700001 | LUO, XL;LI, DY;ZHANG, SR | JOURNAL OF SENSORS : - 2019 | ENGINEERING | 13 |
| 72 | 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 | 13 |
| 73 | THE RELATION BETWEEN WORKING CONDITIONS, ABERRANT DRIVING BEHAVIOUR AND CRASH PROPENSITY AMONG TAXI DRIVERS IN CHINA | 000466830500004 | WANG, YG;LI, LC;PRATO, CG | ACCIDENT ANALYSIS AND PREVENTION 126: 17-24 SP. ISS. SI | SOCIAL SCIENCES, GENERAL | 12 |

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|----|--|-----------------|--|--|--------------------------|----|
| | | | | MAY 2019 | | |
| 74 | 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 | 12 |
| 75 | 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 | 12 |
| 76 | 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 | 11 |
| 77 | 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 | 11 |
| 78 | 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 | 11 |
| 79 | SEISMIC RESPONSE OF AEOLIAN SAND HIGH EMBANKMENT SLOPES IN SHAKING TABLE TESTS | 000467316400162 | ZHOU, ZJ;LEI, JT;SHI, SB;LIU, T | APPLIED SCIENCES-BASEL 9 (8): - APR 2 2019 | ENGINEERING | 10 |

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|----|---|-----------------|--|--|----------------------|----|
| 80 | VIBRATION CHARACTERISTIC OF HIGH-VOLTAGE TOWER INFLUENCED BY ADJACENT TUNNEL BLASTING CONSTRUCTION | 000470186600001 | DUAN, LM;LIN, WS;LAI, JX;ZHANG, P;LUO, YB | SHOCK AND VIBRATION : - 2019 | ENGINEERING | 10 |
| 81 | OPTIMIZATION ANALYSIS OF SETTLEMENT PARAMETERS FOR POSTGROUTING PILES IN LOESS AREA OF SHAANXI, CHINA | 000466288900001 | ZHOU, ZJ;ZHU, SS;KONG, X;LEI, JT;LIU, T | ADVANCES IN CIVIL ENGINEERING : - 2019 | ENGINEERING | 10 |
| 82 | MECHANICAL PROPERTIES AND STRENGTH CRITERIA OF CEMENT-STABILISED RECYCLED CONCRETE AGGREGATE | 000455852600007 | HOU, YQ;JI, XP;SU, XL | INTERNATIONAL JOURNAL OF PAVEMENT ENGINEERING 20 (3): 339-348 MAR 4 2019 | ENGINEERING | 10 |
| 83 | MICROWAVE DEICING FOR ASPHALT MIXTURE CONTAINING STEEL WOOL FIBERS | 000449449100092 | GAO, J;GUO, HY;WANG, XF;WANG, P;WEI, YF;WANG, ZJ;HUANG, Y;YANG, B | JOURNAL OF CLEANER PRODUCTION 206: 1110-1122 JAN 1 2019 | ENGINEERING | 10 |
| 84 | REVEGETATION HAS INCREASED ECOSYSTEM WATER-USE EFFICIENCY DURING 2000-2014 IN THE CHINESE LOESS PLATEAU: EVIDENCE FROM SATELLITE DATA | 000470964500050 | ZHENG, H;LIN, H;ZHOU, WJ;BAO, H;ZHU, XJ;JIN, Z;SONG, Y;WANG, YQ;LIU, WZ;TANG, YK | ECOLOGICAL INDICATORS 102: 507-518 JUL 2019 | ENVIRONMENT/EC OLOGY | 10 |
| 85 | SPATIOTEMPORAL TRAFFIC FLOW PREDICTION WITH KNN AND LSTM | 000460891500001 | LUO, XL;LI, DY;YANG, Y;ZHANG, SR | JOURNAL OF ADVANCED TRANSPORTATION : - 2019 | ENGINEERING | 10 |

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|----|---|-----------------|---|--|--------------------------|---|
| 86 | HOW SAFE IS SAFE ENOUGH FOR SELF-DRIVING VEHICLES? | 000458171100004 | LIU, P;YANG, R;XU, ZG | RISK ANALYSIS 39 (2): 315-325 SP. ISS. SI FEB 2019 | SOCIAL SCIENCES, GENERAL | 9 |
| 87 | METHANE EXPLOSION ACCIDENTS OF TUNNELS IN SW CHINA | 000456347600001 | HE, SY;SU, LJ;FAN, HB;REN, R | GEOMATICS NATURAL HAZARDS & RISK 10 (1): 667-677 JAN 1 2019 | GEOSCIENCES | 8 |
| 88 | TYPHOON TRIGGERED OPERATION TUNNEL DEBRIS FLOW DISASTER IN COASTAL AREAS OF SE CHINA | 000455439200001 | REN, R;YU, DQ;WANG, LX;WANG, K;WANG, H;HE, SY | GEOMATICS NATURAL HAZARDS & RISK 10 (1): 562-575 JAN 1 2019 | GEOSCIENCES | 8 |
| 89 | 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 | 8 |
| 90 | 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 | 8 |
| 91 | URBAN TRANSPORT CARBON DIOXIDE (CO2) | 000466455900007 | YANG, L;WANG, YQ;HAN, | TRANSPORTATION | SOCIAL SCIENCES, | 7 |

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|--|---|--|------------|--|---------|--|
| | EMISSIONS BY COMMUTERS IN RAPIDLY DEVELOPING CITIES: THE COMPARATIVE STUDY OF BEIJING AND XIAN IN CHINA | | SS;LIU, YY | RESEARCH PART D-TRANSPORT AND ENVIRONMENT 68: 65-83 SP. ISS. SI MAR 2019 | GENERAL | |
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表 2 长安大学作为合作单位发表的 ESI 高被引论文 (按 ESI 被引次数排序)

| 序号 | 论文名称 | 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;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 | 124 |
| 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 | 112 |
| 3 | URANIUM AND MOLYBDENUM ISOTOPE EVIDENCE FOR AN EPISODE OF WIDESPREAD OCEAN OXYGENATION DURING THE LATE EDIACARAN PERIOD | 000352192100010 | KENDALL, B;KOMIYA, T;LYONS, TW;BATES, SM;GORDON, GW;ROMANIELLO, SJ;JIANG, GQ;CREASER, RA;XIAO, SH;MCFADDEN, K;SAWAKI, Y;TAHATA, M;SHU, DG;HAN, J;LI, Y (Li, | GEOCHIMICA ET COSMOCHIMICA ACTA 156: 173-193 MAY 1 2015 | GEOSCIENCES | 99 |

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|---|---|-----------------|--|---|----------------------|----|
| | | | Yong, 我校);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;GUO, F (Guo, Feng, 我校);YUAN, SL | APPLIED CATALYSIS B-ENVIRONMENTAL 209: 720-728 JUL 15 2017 | CHEMISTRY | 73 |
| 5 | MOF-DERIVED POROUS N-CO3O4@N-C NANODODECAHEDRA WRAPPED WITH REDUCED GRAPHENE OXIDE AS A HIGH CAPACITY CATHODE FOR LITHIUM-SULFUR BATTERIES | 000424466300041 | XU, J;ZHANG, WX (Zhang, Wenxue, 我校);CHEN, Y;FAN, HB;SU, DW;WANG, GX | JOURNAL OF MATERIALS CHEMISTRY A 6 (6): 2797-2807 FEB 14 2018 | MATERIALS SCIENCE | 71 |
| 6 | LANDSLIDE SUSCEPTIBILITY MODELLING USING GIS-BASED MACHINE LEARNING TECHNIQUES FOR CHONGREN COUNTY, JIANGXI PROVINCE, CHINA | 000428194000110 | CHEN, W;PENG, JB (Peng, Jianbing, 我校);HONG, HY;SHAHABI, H;PRADHAN, B;LIU, JZ;ZHU, AX;PEI, XJ;DUAN, Z | SCIENCE OF THE TOTAL ENVIRONMENT 626: 1121-1135 JUN 1 2018 | ENVIRONMENT/EC OLOGY | 59 |
| 7 | 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, 我校);WANG, JL;DUAN, Z;HONG, HY | GEOMATICS NATURAL HAZARDS & RISK 8 (2): 950-973 2017 | GEOSCIENCES | 55 |
| 8 | SINGLE IMAGE SUPER-RESOLUTION VIA LOCALLY REGULARIZED ANCHORED NEIGHBORHOOD REGRESSION AND NONLOCAL MEANS | 000391475200002 | JIANG, JJ;MA, X (Ma, Xiang, 我校);CHEN, C;LU, T;WANG, ZY;MA, JY | IEEE TRANSACTIONS ON MULTIMEDIA 19 (1): | COMPUTER SCIENCE | 54 |

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|----|---|-----------------|--|---|-----------------------|----|
| | | | | 15-26 JAN 2017 | | |
| 9 | 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, 我校) ;FAN, HB;CHENG, FL;SU, DW;WANG, GX | NANO ENERGY 51: 73-82 SEP 2018 | MATERIALS SCIENCE | 49 |
| 10 | GIS-BASED LANDSLIDE SUSCEPTIBILITY EVALUATION USING A NOVEL HYBRID INTEGRATION APPROACH OF BIVARIATE STATISTICAL BASED RANDOM FOREST METHOD | 000430031800015 | CHEN, W;XIE, XS; PENG, JB (Peng, Jianbing, 我校) ;SHAHABI, H;HONG, HY;BUI, DT;DUAN, Z;LI, SJ;ZHU, AX | CATENA 164: 135-149 MAY 2018 | AGRICULTURAL SCIENCES | 41 |
| 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, 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 | 34 |
| 12 | A STUDY ON THE MECHANICAL BEHAVIOR AND STATISTICAL DAMAGE CONSTITUTIVE MODEL OF SANDSTONE | 000443205500012 | WANG, JB;SONG, ZP;ZHAO, BY;LIU, XR;LIU, J; LAI, JX (Lai, Jinxing, 我校) | ARABIAN JOURNAL FOR SCIENCE AND ENGINEERING 43 (10): 5179-5192 OCT 2018 | ENGINEERING | 30 |
| 13 | PARTICLE SIZE DISTRIBUTION EFFECTS ON | 000466179000001 | LIN, H;WANG, H; FAN, X | EUROPEAN | ENGINEERING | 17 |

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|----|---|-----------------|--|---|--------------------------|----|
| | DEFORMATION PROPERTIES OF GRADED AGGREGATE BASE UNDER CYCLIC LOADING | | (Fan, Xiang, 我校);CAO, P;ZHOU, KF | JOURNAL OF ENVIRONMENTAL AND CIVIL ENGINEERING 23 (3): 269-286 MAR 4 2019 | | |
| 14 | A NEW SOIL-WATER CHARACTERISTIC CURVE MODEL FOR UNSATURATED LOESS BASED ON WETTING-INDUCED PORE DEFORMATION | 000466352700001 | ZHANG, YW;SONG, ZP;WENG, XL (Weng, Xiaolin, 我校);XIE, YL(Xie, Yongli, 我校) | GEOFLUIDS : - 2019 | GEOSCIENCES | 14 |
| 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, 我校) | SCIENCE OF THE TOTAL ENVIRONMENT 684: 31-49 SEP 20 2019 | ENVIRONMENT/EC OLOGY | 13 |
| 16 | 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 | 12 |
| 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 | 11 |
| 18 | HOW SAFE IS SAFE ENOUGH FOR SELF-DRIVING VEHICLES? | 000458171100004 | LIU, P;YANG, R;XU, ZG (Xu, Zhigang, 我校) | RISK ANALYSIS 39 (2): 315-325 SP. ISS. SI FEB 2019 | SOCIAL SCIENCES, GENERAL | 9 |
| 19 | MULTI-CRITERIA USER EQUILIBRIUM MODEL | 000459368100002 | SUN, C;CHENG, L;ZHU, | TRANSPORTATION | SOCIAL SCIENCES, | 8 |

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| | CONSIDERING TRAVEL TIME, TRAVEL TIME RELIABILITY AND DISTANCE | | SL;HAN, F (Han, Fei, 我 校);CHU, ZM | RESEARCH PART D-TRANSPORT AND ENVIRONMENT 66: 3-12 SP. ISS. SI JAN 2019 | GENERAL | |
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表 3 长安大学 ESI 热点论文

| 序号 | 论文名称 | WOS 号 | 作者 | 来源期刊 | ESI 学科 | ESI 被引次数 |
|----|--|---------------------|---------------------------------|---|---------------------|----------|
| 1 | OCCURRENCE AND HEALTH IMPLICATION OF FLUORIDE IN GROUNDWATER OF LOESS AQUIFER IN THE CHINESE LOESS PLATEAU: A CASE STUDY OF TONGCHUAN, NORTHWEST CHINA | WOS:000469217300003 | LI, PY;HE, XD;LI, Y;XIANG, G | EXPOSURE AND HEALTH 11 (2): 95-107 SP. ISS. SI JUN 2019 | ENVIRONMENT/ECOLOGY | 33 |

91 篇高被引论文的分布院系为：公路学院 36 篇，位居首位；水利与环境学院 25 篇；汽车学院 9 篇；信息工程学院 8 篇，比上期增加 2 篇；地质工程与测绘学院 6 篇；地球科学与资源学院 2 篇；理学院 2 篇；材料科学与工程学院 2 篇；工程机械学院 1 篇。表 4 显示了我校近 8 期 ESI 高被引论文院系分布变化情况。

表 4 近 8 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 |
|-------------|------|-------------|------|------------|-------------------|-------------------|-------------------|-----|------------|
| 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 |
|-----------|----|----|---|---|---|---|---|---|---|

表 5 显示了我校近 8 期 ESI 热点论文院系分布变化情况。

表 5 近 8 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 | 本期我校无热点论文 | | | | |
| 2019.9.11 | | | | | 4 |
| 2019.11.15 | 1 | 1 | | | |
| 2020.1.9 | | | | 1 | |
| 2010.3.12 | | | | | 1 |

从本期 ESI 数据可以看出，除信息工程学院高被引论文比上期增加 2 篇外，其他院系高被引论文较上期基本持平或减少。从高被引论文作者分布来看，我校已经涌现出一些发文量、被引频次较高的作者，我们对高被引论文以及热点论文的作者（仅限第一作者身份发表的论文）分布进行了统计分析，详见表 6。

表 6 我校高被引论文、热点论文的作者分布情况（仅统计第一作者署名单位为长安大学的作者）

| 序号 | 作者 | 论文数 | 序号 | 作者 | 论文数 |
|----|--------------------|-----|----|----------------|-----|
| 1 | Li, Peiyue | 12 | 24 | Hui, Fei | 1 |
| 2 | Chen, Wei | 5 | 25 | Leng, Yanqiu | 1 |
| 3 | Lai, Jinxing | 5 | 26 | Qi, D H | 1 |
| 4 | Qiu, Junling | 5 | 27 | Ren, Chongfeng | 1 |
| 5 | Adimalla, Narsimha | 3 | 28 | Shi, Weilong | 1 |
| 6 | Chen, Hao | 3 | 29 | Song Xueli | 1 |
| 7 | Wang, Zhi-Feng | 3 | 30 | Wang, Junbao | 1 |
| 8 | Zhou, Zhijun | 3 | 31 | Wang, Ya-Qiong | 1 |
| 9 | Luo, Xianglong | 2 | 32 | Wang, Yonggang | 1 |
| 10 | Ren, Rui | 2 | 33 | Wang, Zhichao | 1 |
| 11 | Xie, Shaobo | 2 | 34 | Wu, Jianhua | 1 |
| 12 | Xu, Jing | 2 | 35 | Wu, Xia | 1 |
| 13 | Bao, Xiongxiang | 1 | 36 | Xin, Qi | 1 |
| 14 | Ding, Kai | 1 | 37 | Xu, Xiao-Jian | 1 |
| 15 | Dong, Ming | 1 | 38 | Yan, Yan | 1 |
| 16 | Duan, Limin | 1 | 39 | Yang, Liu | 1 |
| 17 | Fan, Xiang | 1 | 40 | Yu, Shaowei | 1 |

| | | | | | |
|----|--------------|---|----|----------------|---|
| 18 | Gao, Jie | 1 | 41 | Zhang, Jiupeng | 1 |
| 19 | Guo, Feng | 1 | 42 | Zhang, Ran | 1 |
| 20 | He, Siyue | 1 | 43 | Zhang, Wei | 1 |
| 21 | He, Song | 1 | 44 | Zhang, Yuting | 1 |
| 22 | He, Xiaodong | 1 | 45 | Zheng, Han | 1 |
| 23 | Hou, Yueqin | 1 | 46 | Zhuang, Jianqi | 1 |

对 91 篇高被引论文的来源期刊进行分析后，表 7 列出了 54 种来源期刊的名称、发文数量和影响因子。其中，*EXPOSURE AND HEALTH* 是我校高被引论文发文量最高的期刊，影响因子为 4.532，发表高被引论文 8 篇；影响因子最高的期刊为 *NANO ENERGY*，影响因子高达 15.548，发表的高被引论文为《Promoting lithium polysulfide/sulfide redox kinetics by the catalyzing of zinc sulfide for high performance lithium-sulfur battery》，是我校参与合作发表的论文。通过期刊规范化的引文影响力数值可以看出，我校高被引论文来源期刊的 JNCI 值都大于 1，说明我校高被引论文的影响力均高于这些期刊的平均影响力，因此建议相关研究人员还可以向更高影响力的期刊投稿。图 3 展示了我校 91 篇高被引论文的 54 种来源期刊的分区占比情况，可以看出，我校高被引论文在 Q1 区的占比最高，Q2 区其次，两个区的占比达 69% 以上，说明我校本期高被引论文的来源期刊质量相对较高，这种良好态势应该继续保持下去。

表 7 我校高被引论文的 54 种来源期刊列表

| 序号 | 来源出版物 | 论文数 | 被引频次 | 影响因子 | 期刊规范化的引文影响力 |
|----|----------------------------------|-----|------|-------|-------------|
| 1 | EXPOSURE AND HEALTH | 8 | 525 | 4.532 | 6.145 |
| 2 | ENVIRONMENTAL EARTH SCIENCES | 5 | 360 | 1.871 | 17.514 |
| 3 | ENERGY CONVERSION AND MANAGEMENT | 1 | 188 | 7.181 | 5.02 |
| 4 | JOURNAL OF HAZARDOUS | 2 | 165 | 7.65 | 3.565 |

| | | | | | |
|----|--|---|-----|--------|--------|
| | MATERIALS | | | | |
| 5 | NATURAL HAZARDS | 3 | 124 | 2.319 | 6.92 |
| 6 | CHEMICAL ENGINEERING JOURNAL | 1 | 118 | 8.355 | 3.47 |
| 7 | GEOCHIMICA ET COSMOCHIMICA ACTA | 1 | 105 | 4.258 | 4.42 |
| 8 | ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH | 1 | 95 | 2.914 | 16.79 |
| 9 | SHOCK AND VIBRATION | 3 | 91 | 1.628 | 37.71 |
| 10 | APPLIED AND COMPUTATIONAL MATHEMATICS | 1 | 90 | 3.16 | 10.88 |
| 11 | ARABIAN JOURNAL OF GEOSCIENCES | 1 | 89 | 1.141 | 27.66 |
| 12 | MEDITERRANEAN JOURNAL OF MATHEMATICS | 1 | 87 | 1.181 | 23.07 |
| 13 | HUMAN AND ECOLOGICAL RISK ASSESSMENT | 4 | 87 | 2.012 | 11.48 |
| 14 | APPLIED CATALYSIS B-ENVIRONMENTAL | 1 | 82 | 14.229 | 2.32 |
| 15 | JOURNAL OF MATERIALS CHEMISTRY A | 1 | 78 | 10.733 | 6.24 |
| 16 | JOURNAL OF SENSORS | 2 | 76 | 2.024 | 29.575 |
| 17 | SCIENCE OF THE TOTAL ENVIRONMENT | 2 | 75 | 5.589 | 7.08 |
| 18 | GEOMATICS NATURAL HAZARDS | 3 | 72 | 2.332 | 8.83 |

| | | | | | |
|----|--|---|----|--------|-------------|
| | & RISK | | | | |
| 19 | JOURNAL OF PERFORMANCE OF CONSTRUCTED FACILITIES | 2 | 68 | 1.542 | 23.28 |
| 20 | IEEE TRANSACTIONS ON MULTIMEDIA | 1 | 64 | 5.452 | 5.07 |
| 21 | ENGINEERING GEOLOGY | 2 | 61 | 3.909 | 6 |
| 22 | PHYSICA A-STATISTICAL MECHANICS AND ITS APPLICATIONS | 2 | 58 | 2.5 | 13.545 |
| 23 | NANO ENERGY | 1 | 57 | 15.548 | 3.02 |
| 24 | MINE WATER AND THE ENVIRONMENT | 1 | 55 | 2.145 | 15.89 |
| 25 | GEOFLUIDS | 3 | 53 | 1.437 | 28.36333333 |
| 26 | FILOMAT | 1 | 52 | 0.789 | 30.68 |
| 27 | NONLINEAR DYNAMICS | 1 | 49 | 4.604 | 9.13 |
| 28 | INTERNATIONAL JOURNAL OF ENGINEERING SCIENCE | 1 | 49 | 9.052 | 2.98 |
| 29 | INTERNATIONAL JOURNAL OF WATER RESOURCES DEVELOPMENT | 1 | 48 | 2.081 | 8.52 |
| 30 | APPLIED SCIENCES-BASEL | 2 | 47 | 2.217 | 16.595 |
| 31 | RENEWABLE & SUSTAINABLE ENERGY REVIEWS | 1 | 46 | 10.556 | 3.07 |
| 32 | ENERGY | 3 | 43 | 5.537 | 8.24 |
| 33 | CATENA | 1 | 42 | 3.851 | 9.34 |

| | | | | | |
|----|--|---|----|-------|--------|
| 34 | MATHEMATICAL PROBLEMS IN ENGINEERING | 1 | 38 | 1.179 | 53.59 |
| 35 | APPLIED THERMAL ENGINEERING | 1 | 37 | 4.026 | 6.67 |
| 36 | MATHEMATICAL METHODS IN THE APPLIED SCIENCES | 1 | 34 | 1.533 | 7.58 |
| 37 | CONSTRUCTION AND BUILDING MATERIALS | 2 | 32 | 4.046 | 10.43 |
| 38 | ARABIAN JOURNAL FOR SCIENCE AND ENGINEERING | 1 | 30 | 1.518 | 17.66 |
| 39 | JOURNAL OF CLEANER PRODUCTION | 2 | 29 | 6.395 | 6.385 |
| 40 | INTERNATIONAL JOURNAL OF PAVEMENT ENGINEERING | 2 | 24 | 2.298 | 6.515 |
| 41 | RISK ANALYSIS | 2 | 20 | 2.564 | 11.345 |
| 42 | APPLIED ENERGY | 1 | 18 | 8.426 | 7.84 |
| 43 | EUROPEAN JOURNAL OF ENVIRONMENTAL AND CIVIL ENGINEERING | 1 | 17 | 1.873 | 25.44 |
| 44 | BULLETIN OF ENGINEERING GEOLOGY AND THE ENVIRONMENT | 1 | 17 | 2.138 | 7 |
| 45 | TRANSPORTATION RESEARCH PART D-TRANSPORT AND ENVIRONMENT | 2 | 16 | 4.051 | 7.91 |
| 46 | TUNNELLING AND | 1 | 15 | 3.942 | 9.44 |

| | | | | | |
|----|--|---|----|-------|-------|
| | UNDERGROUND SPACE TECHNOLOGY | | | | |
| 47 | COMPUTERS AND GEOTECHNICS | 1 | 14 | 3.345 | 9.85 |
| 48 | INTERNATIONAL JOURNAL OF PRODUCTION RESEARCH | 1 | 14 | 3.199 | 8.55 |
| 49 | COMPTEs RENDUS MECANIQUE | 1 | 13 | 0.966 | 22.34 |
| 50 | ACCIDENT ANALYSIS AND PREVENTION | 1 | 12 | 3.058 | 8.85 |
| 51 | COMMUNICATIONS ON PURE AND APPLIED ANALYSIS | 1 | 10 | 0.925 | 11.09 |
| 52 | ECOLOGICAL INDICATORS | 1 | 10 | 4.49 | 7.95 |
| 53 | JOURNAL OF ADVANCED TRANSPORTATION | 1 | 10 | 1.983 | 30.48 |
| 54 | ADVANCES IN CIVIL ENGINEERING | 1 | 10 | 1.104 | 25.99 |

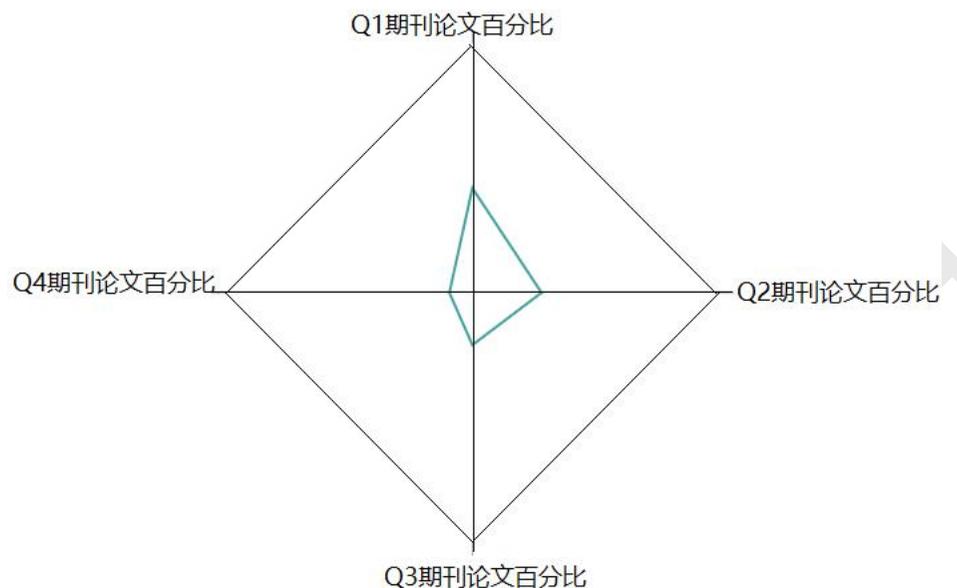


图3 我校96篇高被引论文54种来源期刊的分区占比图

二. 我校 ESI 前 1% 学科概况与预测

本期我校有三个 ESI 学科进入全球前 1%：工程学、地球科学和材料科学，其中材料科学为首次进入全球排名前 1%。我校在工程学领域共发表 ESI 论文 1,680 篇，被引用 8,799 次，其中高被引论文 34 篇，本期全球有 1,576 所机构（大陆机构 228 所）的工程学学科进入 ESI 全球排名前 1% 行列，我校位列 701 位（大陆机构排名 98 位，排名为前 50%）。表 8 为近 8 期我校工程学 Web of Science 发文量、被引频次以及 ESI 排名情况。

表 8 我校工程学发文量、被引频次以及 ESI 排名情况（近 8 期数据比较）

| 学科（更新时间） | 中国大陆机构排名 | ESI 全球排名 | 论文数 | 被引频次 |
|-----------------|----------|----------|--------|--------|
| 工程学（2018.11.16） | 92 | 904 | 998 | 4, 434 |
| 工程学（2019.1.19） | 92 | 879 | 1, 080 | 4, 880 |
| 工程学（2019.3.14） | 93 | 863 | 1, 140 | 5, 283 |
| 工程学（2019.5.9） | 101 | 790 | 1, 190 | 5, 578 |
| 工程学（2019.7.11） | 101 | 769 | 1, 276 | 6, 153 |
| 工程学（2019.9.11） | 98 | 747 | 1, 386 | 6, 686 |
| 工程学（2019.11.15） | 99 | 723 | 1, 489 | 7, 338 |
| 工程学（2020.1.9） | 99 | 714 | 1, 576 | 8, 011 |
| 工程学（2020.3.12） | 98 | 701 | 1, 680 | 8, 799 |

我校在地球科学领域共发表 ESI 论文 1, 003 篇，被引用 7, 802 次，其中高被引论文 14 篇，本期全球有 742 所机构（大陆机构 55 所）的地球科学进入 ESI 全球排名前 1% 行列，我校位列 665 位（大陆机构排名 52 位）。表 9 为近 3 期我校地球科学 Web of Science 发文量、被引频次以及 ESI 与排名情况。

表 9 我校地球科学发文量、被引频次以及 ESI 排名情况（近 3 期数据比较）

| 学科（更新时间） | 中国大陆机构排名 | ESI 全球排名 | 论文数 | 被引频次 |
|------------------|----------|----------|-------|--------|
| 地球科学（2019.11.15） | 81 | 717 | 897 | 6, 813 |
| 地球科学（2020.1.9） | 52 | 722 | 950 | 7, 295 |
| 2020. 03. 12 | 52 | 665 | 1,003 | 7,802 |

我校在材料科学领域共发表 ESI 论文 1, 081 篇，被引用 7, 102 次，其中高被引论文 4 篇，本期全球有 941 所机构（大陆机构 170 所）的材料科学进入 ESI 全球排名前 1% 行列，我校位列 921 位（大陆机构排名 167 位）。表 10 为本期我校材料科学 Web of Science 发文量、被引频次以及 ESI 与排名情况。

表 10 我校材料科学发文量、被引频次以及 ESI 排名情况

| 学科（更新时间） | 中国大陆机构排名 | ESI 全球排名 | 论文数 | 被引频次 |
|-----------------|----------|----------|--------|--------|
| 材料科学（2020.3.12） | 167 | 921 | 1, 081 | 7, 103 |

除了工程学、地球科学、材料科学，我校还有其他学科表现良好。选择 2009-2019 年我校 ESI 各学科发文数量前 5 的学科：工程学、材料科学、地球科学、环境\生态学和化学进行了 CNCI 值的分析，详见图 4、表 11。

表 11 我校发文数量前 5 的 ESI 学科 CNCI 值

| 学科 | WOS 文献数量 | CNCI 值 | 被引次数 | 被引百分比 |
|---------------------|----------|-------------|------|-------|
| Engineering | 1684 | 1.035817043 | 9856 | 67.87 |
| Geosciences | 1003 | 0.940795912 | 8149 | 77.37 |
| Materials Science | 1081 | 0.702615079 | 7624 | 74.38 |
| Environment/Ecology | 593 | 1.570764755 | 4719 | 68.30 |
| Chemistry | 558 | 0.911170789 | 4450 | 77.24 |

从图 4 可以看出，工程学的发文量、被引频次均为最高；材料科学发文量为第二位，略高于地球科学，但是被引频次却低于地球科学，地球科学发文量第三位；环境/生态科学、化学发文量、被引频次还有待提高。

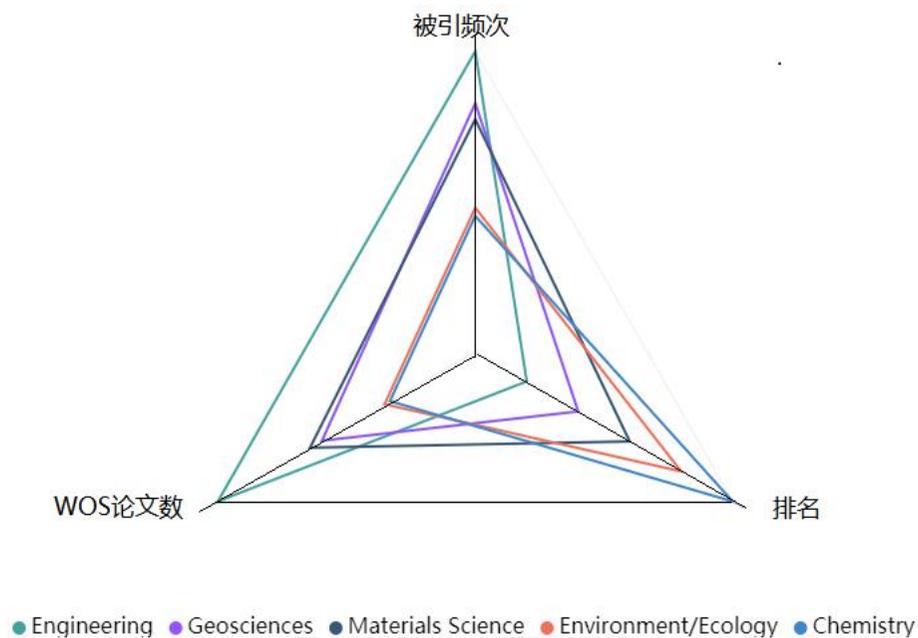


图 4 我校发文数量前 5 的 ESI 学科发文量、被引频次雷达图

从图 5 可以看到，工程学、地球科学、环境/生态科学为长安大学优势学科，其中工程学和环境/生态科学的 CNCI 值大于 1，地球科学的 CNCI 值约接近 1，说明我校在这三个学科领域的研究已经达到或超过了国际水平，其中特别值得关注的是我校环境/生态科学的 CNCI 值为最高，达到了 1.57，说明该学科的研究水平相对比较高，可看作是我校实力较强的潜力学科；而同时注意到我校材料科学发文量比较高，但 CNCI 值低于世界平均水平，还有待进一步提升研究水平；化学学科发文量、CNCI 值都比较低，要实现研究突破仍需一定的努力。通过 CNCI 值的分析可以得知我校环境/生态科学的研究水平已经达到较高的水平，因此在该领域突破 ESI 前 1% 是极为有可能的。

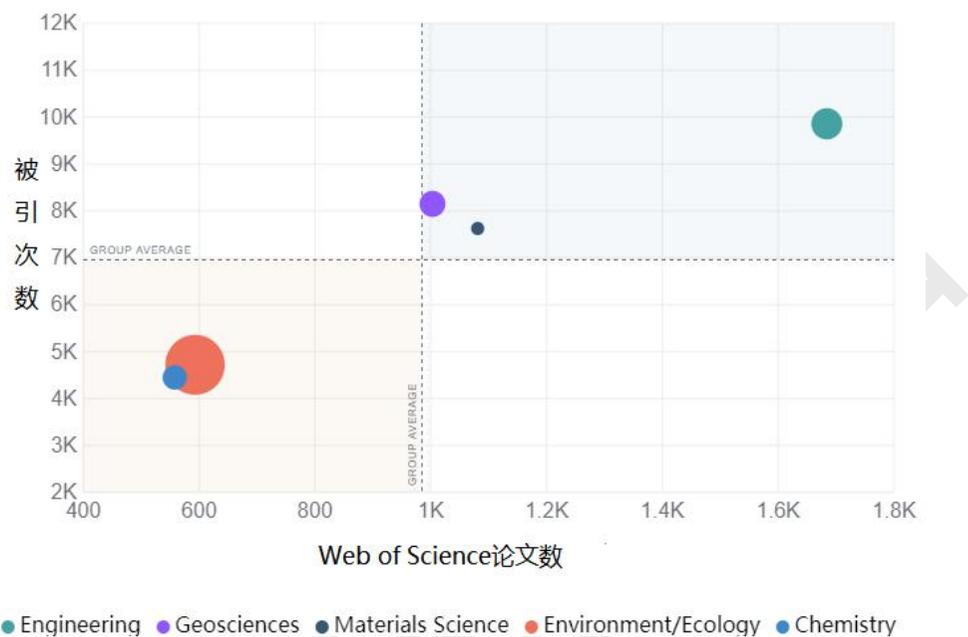


图 5 2009-2019 年我校发文量 TOP5 的 ESI 学科的 CNCI 值表现

图 6 对 22 个 ESI 学科的阈值与我校各学科的被引频次进行了比较之后，进一步对具有潜力进入全球前 1%的学科进行了预测。从本期 ESI 数据可以看出，我校目前最有潜力进入全球前 1%的学科为环境/生态科学，该学科有很大潜力，接近度非常高。而其他学科要有所突破进入全球前 1%，还具有一定的难度，还需要在发文数量、被引频次上努力。

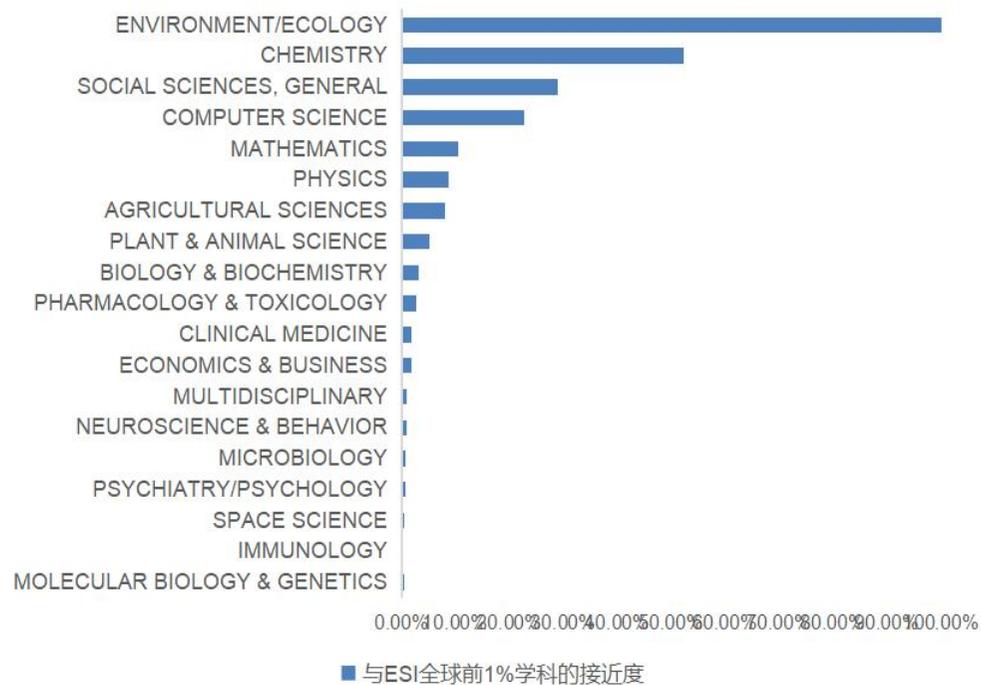


图6 长安大学具有潜力进入全球前1%的学科预测

注：由于 ESI 与 Incites 在数据更新时间、被引频次统计、时间跨度等的差别，导致计算出来的接近度会有一些的误差，所以图中环境/生态科学的接近度虽然已经超过 100%，但实际上是还没有进入 ESI 前 1%排名的。

表 12 列出了本期环境/生态科学进入全球前 1%排名的机构。本期全球有 1093 所机构的环境/生态科学进入 ESI 全球排名前 1%，中国大陆有 89 所机构的环境/生态科学进入前 1%排位。下表 13 列出了我校与全球进入环境/生态科学 ESI 前 1%排位最后的机构 WOS

发文量、被引频次，参考本期 ESI 环境/生态科学机构被引阈值，进行对比发现，由于 Incites 与 ESI 在数据时间跨度上、更新时间上有差别，因此表中显示的我校环境/生态科学 2009-2019 年的被引频次超过了本期 ESI 环境/生态科学的阈值，但并不代表我校环境/生态科学已进入 ESI 全球前 1% 排名，只能说明我校环境/生态科学已经很接近全球环境/生态科学阈值。

表 12 环境/生态科学进入全球前 1% 的大陆 89 所机构的论文情况

| 序号 | 机构名称 | Web of Science 论文数 | 总被引次数 | 篇均被引次数 | 高被引论文数 | 全球 ESI 材料科学排位 |
|----|--|--------------------|--------|--------|--------|---------------|
| 1 | CHINESE ACADEMY OF SCIENCES | 28328 | 401867 | 14.19 | 385 | 2 |
| 2 | UNIVERSITY OF CHINESE ACADEMY OF SCIENCES, CAS | 9682 | 104271 | 10.77 | 84 | 23 |
| 3 | RESEARCH CENTER FOR ECO-ENVIRONMENTAL SCIENCES (RCEES) | 3868 | 64644 | 16.71 | 61 | 70 |
| 4 | PEKING UNIVERSITY | 3230 | 61197 | 18.95 | 69 | 78 |
| 5 | TSINGHUA UNIVERSITY | 3738 | 58282 | 15.59 | 95 | 86 |
| 6 | BEIJING NORMAL UNIVERSITY | 3687 | 49758 | 13.50 | 54 | 105 |
| 7 | ZHEJIANG UNIVERSITY | 3159 | 45586 | 14.43 | 54 | 117 |
| 8 | NANJING UNIVERSITY | 3127 | 45427 | 14.53 | 46 | 120 |
| 9 | GUANGZHOU INSTITUTE OF GEOCHEMISTRY, CAS | 1357 | 33916 | 24.99 | 17 | 177 |
| 10 | INSTITUTE OF GEOGRAPHIC SCIENCES & NATURAL RESOURCES RESEARCH, | 2834 | 33173 | 11.71 | 49 | 182 |

| | | | | | | |
|----|--|------|-------|-------|----|-----|
| | CAS | | | | | |
| 11 | TONGJI UNIVERSITY | 2461 | 33040 | 13.43 | 32 | 183 |
| 12 | SUN YAT SEN UNIVERSITY | 2065 | 26487 | 12.83 | 38 | 235 |
| 13 | HARBIN INSTITUTE OF TECHNOLOGY | 1749 | 26284 | 15.03 | 32 | 240 |
| 14 | CHINESE RESEARCH ACADEMY OF ENVIRONMENTAL SCIENCES | 1777 | 24422 | 13.74 | 17 | 268 |
| 15 | NANKAI UNIVERSITY | 1236 | 22890 | 18.52 | 17 | 285 |
| 16 | CHINA AGRICULTURAL UNIVERSITY | 1763 | 22361 | 12.68 | 19 | 292 |
| 17 | INSTITUTE OF BOTANY, CAS | 938 | 21348 | 22.76 | 25 | 303 |
| 18 | FUDAN UNIVERSITY | 1327 | 19995 | 15.07 | 22 | 331 |
| 19 | INSTITUTE OF SOIL SCIENCE, CAS | 1165 | 19619 | 16.84 | 21 | 336 |
| 20 | SHANGHAI JIAO TONG UNIVERSITY | 1378 | 19083 | 13.85 | 34 | 344 |
| 21 | INSTITUTE OF URBAN ENVIRONMENT, CAS | 1130 | 18895 | 16.72 | 19 | 348 |
| 22 | NORTHWEST A&F UNIVERSITY - CHINA | 1820 | 18643 | 10.24 | 26 | 352 |
| 23 | NANJING AGRICULTURAL UNIVERSITY | 1274 | 18546 | 14.56 | 19 | 353 |
| 24 | CHINESE ACADEMY OF AGRICULTURAL SCIENCES | 1633 | 18240 | 11.17 | 24 | 357 |
| 25 | OCEAN UNIVERSITY OF CHINA | 1658 | 18086 | 10.91 | 19 | 362 |

| | | | | | | |
|----|---|------|-------|-------|----|-----|
| 26 | CHINA UNIVERSITY OF GEOSCIENCES | 2033 | 17845 | 8.78 | 12 | 367 |
| 27 | NANJING INSTITUTE OF GEOGRAPHY & LIMNOLOGY, CAS | 1271 | 16792 | 13.21 | 12 | 393 |
| 28 | HOHAI UNIVERSITY | 2239 | 16490 | 7.36 | 13 | 400 |
| 29 | EAST CHINA NORMAL UNIVERSITY | 1236 | 16259 | 13.15 | 40 | 406 |
| 30 | HUNAN UNIVERSITY | 763 | 15298 | 20.05 | 71 | 443 |
| 31 | DALIAN UNIVERSITY OF TECHNOLOGY | 1054 | 14758 | 14.00 | 11 | 465 |
| 32 | SHENYANG INSTITUTE OF APPLIED ECOLOGY, CAS | 940 | 14715 | 15.65 | 16 | 467 |
| 33 | LANZHOU UNIVERSITY | 1252 | 14023 | 11.20 | 14 | 496 |
| 34 | SHANDONG UNIVERSITY | 1253 | 13720 | 10.95 | 8 | 512 |
| 35 | XIAMEN UNIVERSITY | 1184 | 13716 | 11.58 | 5 | 513 |
| 36 | WUHAN UNIVERSITY | 1610 | 13450 | 8.35 | 12 | 522 |
| 37 | YANTAI INSTITUTE OF COASTAL ZONE RESEARCH, CAS | 776 | 12893 | 16.61 | 11 | 533 |
| 38 | UNIVERSITY OF SCIENCE & TECHNOLOGY OF CHINA | 775 | 12463 | 16.08 | 16 | 547 |
| 39 | BEIJING FORESTRY UNIVERSITY | 1318 | 12090 | 9.17 | 10 | 555 |
| 40 | INSTITUTE OF TIBETAN PLATEAU RESEARCH, CAS | 512 | 11786 | 23.02 | 21 | 566 |
| 41 | COLD & ARID REGIONS ENVIRONMENTAL & ENGINEERING | 895 | 11608 | 12.97 | 5 | 573 |

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|----|--|------|-------|-------|----|-----|
| | RESEARCH INSTITUTE, CAS | | | | | |
| 42 | UNIVERSITY TOWN OF SHENZHEN | 736 | 11077 | 15.05 | 9 | 593 |
| 43 | INSTITUTE OF HYDROBIOLOGY, CAS | 948 | 10789 | 11.38 | 9 | 609 |
| 44 | NORTH CHINA ELECTRIC POWER UNIVERSITY | 947 | 10672 | 11.27 | 42 | 615 |
| 45 | HUAZHONG AGRICULTURAL UNIVERSITY | 1039 | 10139 | 9.76 | 4 | 636 |
| 46 | XINJIANG INSTITUTE OF ECOLOGY & GEOGRAPHY, CAS | 987 | 10048 | 10.18 | 5 | 642 |
| 47 | INSTITUTE OF ATMOSPHERIC PHYSICS, CAS | 630 | 9972 | 15.83 | 14 | 643 |
| 48 | HUAZHONG UNIVERSITY OF SCIENCE & TECHNOLOGY | 1009 | 9846 | 9.76 | 17 | 646 |
| 49 | XISHUANGBANNA TROPICAL BOTANICAL GARDEN, CAS | 540 | 9828 | 18.20 | 13 | 647 |
| 50 | JINAN UNIVERSITY | 1044 | 9620 | 9.21 | 16 | 662 |
| 51 | NANJING UNIVERSITY OF INFORMATION SCIENCE & TECHNOLOGY | 1045 | 9554 | 9.14 | 13 | 663 |
| 52 | CENTRAL SOUTH UNIVERSITY | 791 | 9399 | 11.88 | 36 | 669 |
| 53 | SOUTH CHINA BOTANICAL GARDEN, CAS | 524 | 9186 | 17.53 | 10 | 675 |

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|----|--|------|------|-------|----|-----|
| 54 | SOUTH CHINA UNIVERSITY OF TECHNOLOGY | 930 | 9155 | 9.84 | 8 | 679 |
| 55 | ZHEJIANG UNIVERSITY OF TECHNOLOGY | 710 | 8753 | 12.33 | 17 | 704 |
| 56 | CHINESE CENTER FOR DISEASE CONTROL & PREVENTION | 703 | 7955 | 11.32 | 6 | 744 |
| 57 | TIANJIN UNIVERSITY | 1061 | 7924 | 7.47 | 16 | 745 |
| 58 | STATE OCEANIC ADMINISTRATION | 864 | 7887 | 9.13 | 8 | 747 |
| 59 | INSTITUTE OF ZOOLOGY, CAS | 524 | 7884 | 15.05 | 8 | 748 |
| 60 | CHINA UNIVERSITY OF MINING & TECHNOLOGY | 1208 | 7828 | 6.48 | 12 | 750 |
| 61 | CHINESE ACADEMY OF FORESTRY | 710 | 7607 | 10.71 | 10 | 770 |
| 62 | INSTITUTE OF EARTH ENVIRONMENT, CAS | 564 | 7524 | 13.34 | 11 | 774 |
| 63 | INSTITUTE OF SOIL & WATER CONSERVATION (ISWC), CAS | 697 | 7232 | 10.38 | 7 | 796 |
| 64 | CHONGQING UNIVERSITY | 887 | 7062 | 7.96 | 19 | 806 |
| 65 | SICHUAN UNIVERSITY | 1151 | 7056 | 6.13 | 6 | 807 |
| 66 | SOUTH CHINA SEA INSTITUTE OF OCEANOLOGY, CAS | 573 | 7017 | 12.25 | 5 | 811 |

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|----|--|-----|------|-------|----|-----|
| 67 | SHANGHAI UNIVERSITY | 533 | 6583 | 12.35 | 12 | 842 |
| 68 | NANJING NORMAL UNIVERSITY | 764 | 6357 | 8.32 | 8 | 861 |
| 69 | GUANGDONG UNIVERSITY OF TECHNOLOGY | 412 | 6267 | 15.21 | 16 | 873 |
| 70 | NORTHEAST INSTITUTE OF GEOGRAPHY & AGROECOLOGY, CAS | 799 | 6251 | 7.82 | 3 | 876 |
| 71 | INSTITUTE OF OCEANOLOGY, CAS | 883 | 6199 | 7.02 | 2 | 882 |
| 72 | CHINA METEOROLOGICAL ADMINISTRATION | 517 | 6040 | 11.68 | 9 | 895 |
| 73 | INSTITUTE OF MOUNTAIN HAZARDS & ENVIRONMENT, CAS | 706 | 6004 | 8.50 | 3 | 902 |
| 74 | WUHAN BOTANICAL GARDEN, CAS | 366 | 5992 | 16.37 | 11 | 904 |
| 75 | BEIJING UNIVERSITY OF TECHNOLOGY | 489 | 5740 | 11.74 | 8 | 925 |
| 76 | CHINA INSTITUTE OF WATER RESOURCES & HYDROPOWER RESEARCH | 846 | 5724 | 6.77 | 7 | 929 |
| 77 | NORTHEAST NORMAL UNIVERSITY - CHINA | 611 | 5706 | 9.34 | 8 | 932 |
| 78 | ZHEJIANG A&F UNIVERSITY | 343 | 5441 | 15.86 | 15 | 960 |
| 79 | SOUTHEAST UNIVERSITY - CHINA | 830 | 5261 | 6.34 | 5 | 980 |
| 80 | XI'AN JIAOTONG UNIVERSITY | 594 | 5184 | 8.73 | 5 | 990 |

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|----|---|-----|------|-------|----|------|
| 81 | JILIN UNIVERSITY | 877 | 5182 | 5.91 | 4 | 991 |
| 82 | SOUTH CHINA AGRICULTURAL UNIVERSITY | 668 | 5160 | 7.72 | 5 | 997 |
| 83 | CHINESE ACADEMY OF FISHERY SCIENCES | 714 | 5146 | 7.21 | 7 | 999 |
| 84 | KUNMING INSTITUTE OF BOTANY, CAS | 359 | 5059 | 14.09 | 5 | 1009 |
| 85 | INSTITUTE OF AGRICULTURAL RESOURCES & REGIONAL PLANNING (IARRP) | 374 | 4934 | 13.19 | 8 | 1024 |
| 86 | SOUTHWEST UNIVERSITY - CHINA | 623 | 4801 | 7.71 | 5 | 1050 |
| 87 | UNIVERSITY OF SCIENCE & TECHNOLOGY BEIJING | 574 | 4736 | 8.25 | 3 | 1058 |
| 88 | THE INSTITUTE OF REMOTE SENSING & DIGITAL EARTH, CAS | 388 | 4603 | 11.86 | 11 | 1082 |
| 89 | XI'AN UNIVERSITY OF ARCHITECTURE & TECHNOLOGY | 492 | 4596 | 9.34 | 10 | 1083 |

表 13 长安大学环境/生态科学论文与已进入 ESI 前 1% 最后一名机构的对比 (2009-2019)

| 机构名称 | Web of Science 论文数 | 总被引次数 | ESI 环境/生态科学 本期机构被引阈值 |
|---------------------------|--------------------|--------|-------------------------|
| 长安大学 | 593 | 4, 719 | 4,544 |
| UNIVERSIDAD DE VALLADOLID | 326 | 4, 544 | |

长安大学一级学科与 ESI 学科的对照：

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

表 14 ESI 学科与我校的学科对照表

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

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

注：表格中所有统计数据截止到 2020 年 3 月 12 日。