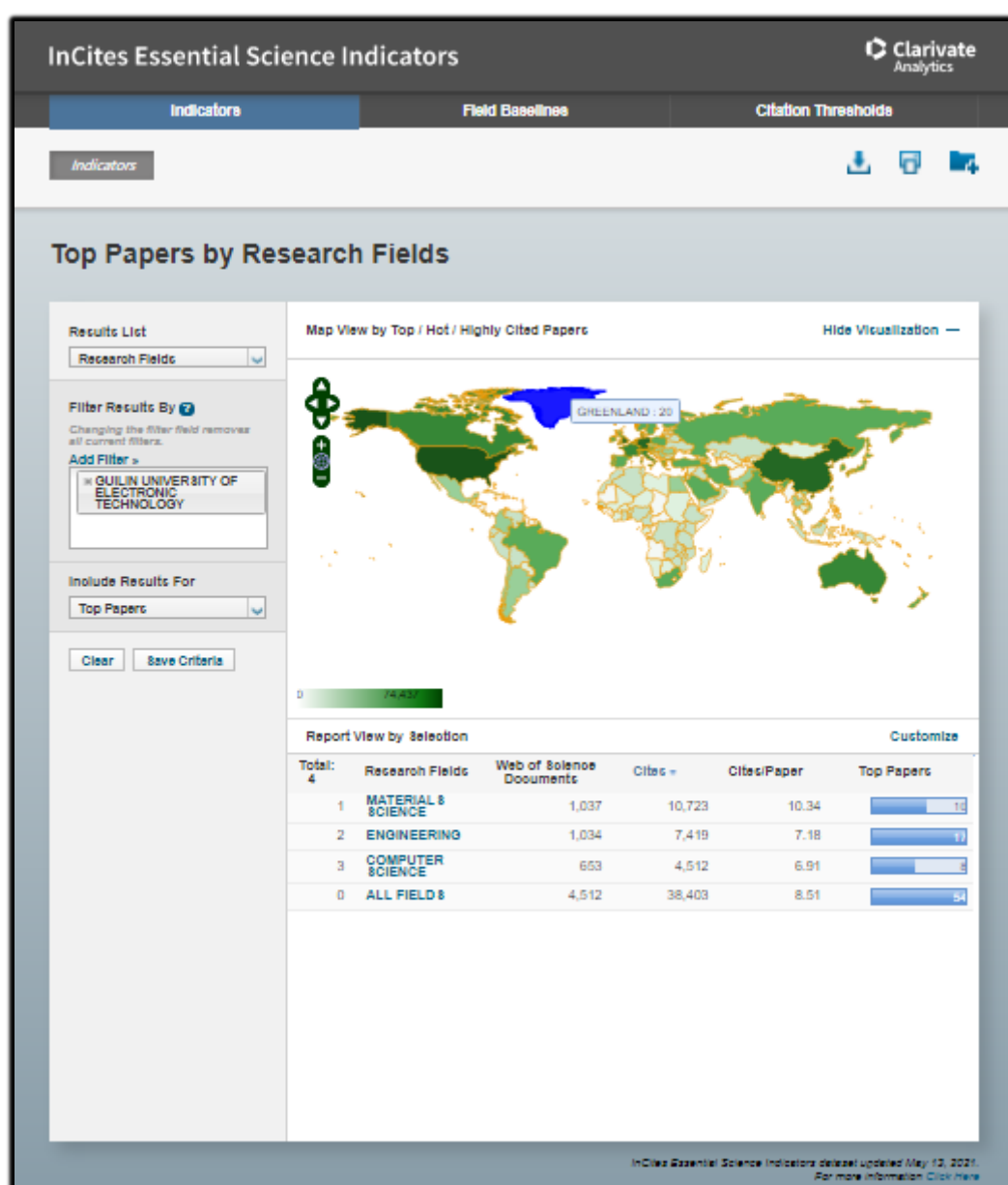


# 2021 年 5 月桂电 ESI 高被引论文&热点论文 ESI 数据库截图

2021 年 5 月 13 日, ESI 数据库进行了更新, 本期桂林电子科技大学有 54 篇 Top Papers, 其中 Highly Cited Papers 53 篇, Hot Papers 2 篇, ResearchFront(研究前沿论文) 25 篇。




## 桂林电子科技大学 ESI 高被引论文 53 篇截图

- 1 MULTI-MESSENGER OBSERVATIONS OF A BINARY NEUTRON STAR MERGER**

By: ABBOTT, BP; ABBOTT, R; ABBOTT, TD; et.al  
Source: ASTROPHYSICAL JOURNAL LETTERS 848 (2): - OCT 20 2017  
Research Fields: SPACE SCIENCE

**Times Cited: 1,292**

 Research Front
- 2 HELICITY MULTIPLEXED BROADBAND METASURFACE HOLOGRAMS**

By: WEN, DD; YUE, FY; LI, GX; et.al  
Source: NATURE COMMUNICATIONS 6: - SEP 2015  
Research Fields: PHYSICS

**Times Cited: 403**
- 3 VERSATILE TERNARY ORGANIC SOLAR CELLS: A CRITICAL REVIEW**

By: AN, QS; ZHANG, FJ; ZHANG, J; et.al  
Source: ENERGY & ENVIRONMENTAL SCIENCE 9 (2): 281-322 2016  
Research Fields: CHEMISTRY

**Times Cited: 400**
- 4 NANOWIRE-BASED GAS SENSORS**

By: CHEN, XP; WONG, CKY; YUAN, CA; et.al  
Source: SENSORS AND ACTUATORS B-CHEMICAL 177: 178-195 FEB 2013  
Research Fields: CHEMISTRY

**Times Cited: 227**
- 5 RESEARCH ON VARIATIONAL MODE DECOMPOSITION AND ITS APPLICATION IN DETECTING RUB-IMPACT FAULT OF THE ROTOR SYSTEM**

By: WANG, YX; MARKERT, R; XIANG, JW; et.al  
Source: MECHANICAL SYSTEMS AND SIGNAL PROCESSING 60-61: 243-251 AUG 2015  
Research Fields: ENGINEERING

**Times Cited: 212**
- 6 CARBON NANOTUBE BASED BIOSENSORS**

By: YANG, N; CHEN, XP; REN, TL; et.al  
Source: SENSORS AND ACTUATORS B-CHEMICAL 207: 690-715 PART A FEB 2015  
Research Fields: CHEMISTRY


**Times Cited: 209**
- 7 SODIUM-ION BATTERIES: FROM ACADEMIC RESEARCH TO PRACTICAL COMMERCIALIZATION**

By: DENG, JQ; LUO, WB; CHOU, SL; et.al  
Source: ADVANCED ENERGY MATERIALS 8 (4): - FEB 5 2018  
Research Fields: MATERIALS SCIENCE

**Times Cited: 208**
- 8 SPECTRAL KURTOSIS FOR FAULT DETECTION, DIAGNOSIS AND PROGNOSTICS OF ROTATING MACHINES: A REVIEW WITH APPLICATIONS**

By: WANG, YX; XIANG, JW; MARKERT, R; et.al  
Source: MECHANICAL SYSTEMS AND SIGNAL PROCESSING 66-67: 679-698 JAN 2016  
Research Fields: ENGINEERING

**Times Cited: 186**


 Research Front
- 9 ULTRAWIDEBAND AND HIGH-EFFICIENCY LINEAR POLARIZATION CONVERTER BASED ON DOUBLE V-SHAPED METASURFACE**







By: GAO, X; HAN, X; CAO, WP; et.al  
Source: IEEE TRANSACTIONS ON ANTENNAS AND PROPAGATION 63 (8): 3522-3530 AUG 2015  
Research Fields: ENGINEERING




**Times Cited: 183**
- 10 ANONYMOUS AUTHENTICATION FOR WIRELESS BODY AREA NETWORKS WITH PROVABLE SECURITY**

By: HE, DB; ZEDADALLY, S; KUMAR, N; et.al  
Source: IEEE SYSTEMS JOURNAL 11 (4): 2590-2601 DEC 2017  
Research Fields: COMPUTER SCIENCE








**Times Cited: 175**





 Research Front

11	<b>EFFICIENT TERNARY NON-FULLERENE POLYMER SOLAR CELLS WITH PCE OF 11.92% AND FF OF 76.5%+</b>	Times Cited: 165
	By: ZHANG, M; GAO, W; ZHANG, FJ; et.al Source: ENERGY & ENVIRONMENTAL SCIENCE 11 (4): 841-849 APR 1 2018 Research Fields: CHEMISTRY	 Research Front
12	<b>ENERGY-EFFICIENT RESOURCE ALLOCATION FOR WIRELESS POWERED COMMUNICATION NETWORKS</b>	Times Cited: 152
	By: WU, QQ; TAO, MX; NG, DWK; et.al Source: IEEE TRANSACTIONS ON WIRELESS COMMUNICATIONS 15 (3): 2312-2327 MAR 2016 Research Fields: COMPUTER SCIENCE	
13	<b>EFFICIENT TERNARY POLYMER SOLAR CELLS WITH TWO WELL-COMPATIBLE DONORS AND ONE ULTRANARROW BANDGAP NONFULLERENE ACCEPTOR</b>	Times Cited: 145
	By: MA, XL; MI, Y; ZHANG, FJ; et.al Source: ADVANCED ENERGY MATERIALS 8 (11): - APR 16 2018 Research Fields: MATERIALS SCIENCE	 Research Front
14	<b>A SECURE AUTHENTICATION PROTOCOL FOR INTERNET OF VEHICLES</b>	Times Cited: 120
	By: CHEN, CM; XIANG, B; LIU, YN; et.al Source: IEEE ACCESS 7: 12047-12057 2019 Research Fields: ENGINEERING	 Research Front
15	<b>HIGH-EFFICIENCY AND AIR STABLE FULLERENE-FREE TERNARY ORGANIC SOLAR CELLS</b>	Times Cited: 118
	By: AN, QS; ZHANG, FJ; GAO, W; et.al Source: NANO ENERGY 45: 177-183 MAR 2018 Research Fields: MATERIALS SCIENCE	 Research Front
16	<b>TERNARY NONFULLERENE POLYMER SOLAR CELLS WITH A POWER CONVERSION EFFICIENCY OF 11.6% BY INHERITING THE ADVANTAGES OF BINARY CELLS</b>	Times Cited: 114
	By: HU, ZH; ZHANG, FJ; AN, QS; et.al Source: ACS ENERGY LETTERS 3 (3): 555-561 MAR 2018 Research Fields: MATERIALS SCIENCE	 Research Front
17	<b>A SURVEY OF MULTI-OBJECTIVE OPTIMIZATION IN WIRELESS SENSOR NETWORKS: METRICS, ALGORITHMS, AND OPEN PROBLEMS</b>	Times Cited: 108
	By: FEI, ZS; LI, B; YANG, SS; et.al Source: IEEE COMMUNICATIONS SURVEYS AND TUTORIALS 19 (1): 550-586 2017 Research Fields: COMPUTER SCIENCE	
18	<b>ROBUST H-INFINITY OUTPUT-FEEDBACK CONTROL FOR PATH FOLLOWING OF AUTONOMOUS GROUND VEHICLES</b>	Times Cited: 100
	By: HU, CA; JING, H; WANG, RR; et.al Source: MECHANICAL SYSTEMS AND SIGNAL PROCESSING 70-71: 414-427 MAR 2016 Research Fields: ENGINEERING	
19	<b>SIMPLE SYNTHESIS OF CORE-SHELL STRUCTURE OF CO-CO3O4 @ CARBON-NANOTUBE-INCORPORATED NITROGEN-DOPED CARBON FOR HIGH-PERFORMANCE SUPERCAPACITOR</b>	Times Cited: 96
	By: ZOU, YJ; CAI, CL; XIANG, CL; et.al Source: ELECTROCHIMICA ACTA 261: 537-547 JAN 20 2018 Research Fields: CHEMISTRY	 Research Front
20	<b>SUPERIOR STABILITY FOR PEROVSKITE SOLAR CELLS WITH 20% EFFICIENCY USING VACUUM CO-EVAPORATION</b>	Times Cited: 89
	By: ZHU, XJ; YANG, D; YANG, RX; et.al Source: NANOSCALE 9 (34): 12316-12323 SEP 14 2017 Research Fields: PHYSICS	

21	<b>AN ENERGY EFFICIENT ANT COLONY SYSTEM FOR VIRTUAL MACHINE PLACEMENT IN CLOUD COMPUTING</b>	Times Cited: 76
By: LIU, XF; ZHAN, ZH; DENG, JD; et.al Source: IEEE TRANSACTIONS ON EVOLUTIONARY COMPUTATION 22 (1): 113-128 SP. ISS. SI FEB 2018 Research Fields: COMPUTER SCIENCE		
22	<b>INTEGRATED CHAOTIC SYSTEMS FOR IMAGE ENCRYPTION</b>	Times Cited: 74
By: LAN, RS; HE, JW; WANG, SH; et.al Source: SIGNAL PROCESSING 147: 133-145 JUN 2018 Research Fields: ENGINEERING		
23	<b>HIGH-PERFORMANCE FLEXIBLE QUASI-SOLID-STATE SUPERCAPACITORS REALIZED BY MOLYBDENUM DIOXIDE@NITROGEN-DOPED CARBON AND COPPER COBALT SULFIDE TUBULAR NANOSTRUCTURES</b>	Times Cited: 71
By: LIU, S; YIN, Y; HUI, KS; et.al Source: ADVANCED SCIENCE 5 (10): - OCT 2018 Research Fields: PHYSICS		
24	<b>FINE-TUNING ENERGY LEVELS VIA ASYMMETRIC END GROUPS ENABLES POLYMER SOLAR CELLS WITH EFFICIENCIES OVER 17%</b>	Times Cited: 69
By: LUO, ZH; MA, RJ; LIU, T; et.al Source: JOULE 4 (6): 1236-1247 JUN 17 2020 Research Fields: ENGINEERING		
		 ESI Hot  Research Front
25	<b>ON A NOVEL MULTI-SWARM FRUIT FLY OPTIMIZATION ALGORITHM AND ITS APPLICATION</b>	Times Cited: 68
By: YUAN, XF; DAI, XS; ZHAO, JY; et.al Source: APPLIED MATHEMATICS AND COMPUTATION 233: 260-271 MAY 1 2014 Research Fields: MATHEMATICS		
26	<b>HAST-IDS: LEARNING HIERARCHICAL SPATIAL-TEMPORAL FEATURES USING DEEP NEURAL NETWORKS TO IMPROVE INTRUSION DETECTION</b>	Times Cited: 66
By: WANG, W; SHENG, YQ; WANG, JL; et.al Source: IEEE ACCESS 6: 1792-1806 2018 Research Fields: ENGINEERING		
27	<b>BLOCKCHAIN AND DEEP REINFORCEMENT LEARNING EMPOWERED INTELLIGENT 5G BEYOND</b>	Times Cited: 63
By: DAI, YY; XU, D; MAHARJAN, S; et.al Source: IEEE NETWORK 33 (3): 10-17 MAY-JUN 2019 Research Fields: COMPUTER SCIENCE		
28	<b>EFFECTIVE THERMAL CONDUCTIVITY OF POLYMER COMPOSITES: THEORETICAL MODELS AND SIMULATION MODELS</b>	Times Cited: 62
By: ZHAI, SP; ZHANG, P; XIAN, YQ; et.al Source: INTERNATIONAL JOURNAL OF HEAT AND MASS TRANSFER 117: 358-374 FEB 2018 Research Fields: ENGINEERING		
29	<b>MEASURING THE MATURITY OF CARBON MARKET IN CHINA: AN ENTROPY-BASED TOPSIS APPROACH</b>	Times Cited: 61
By: LIU, XF; ZHOU, XX; ZHU, BZ; et.al Source: JOURNAL OF CLEANER PRODUCTION 229: 94-103 AUG 20 2019 Research Fields: ENGINEERING		
		 Research Front
30	<b>MICROPLASTICS IN SURFACE WATERS AND SEDIMENTS OF THE WEI RIVER, IN THE NORTHWEST OF CHINA</b>	Times Cited: 58
By: DING, L; MAO, RF; GUO, XT; et.al Source: SCIENCE OF THE TOTAL ENVIRONMENT 667: 427-434 JUN 1 2019 Research Fields: ENVIRONMENT/ECOLOGY		

31	<b>A THREE-TERMS POLAK-RIBIERE-POLYAK CONJUGATE GRADIENT ALGORITHM FOR LARGE-SCALE NONLINEAR EQUATIONS</b>	Times Cited: 54
By: YUAN, GL; ZHANG, MJ; Source: JOURNAL OF COMPUTATIONAL AND APPLIED MATHEMATICS 286: 186-195 OCT 1 2015 Research Fields: MATHEMATICS		
32	<b>A PRACTICAL PRIVACY-PRESERVING DATA AGGREGATION (3PDA) SCHEME FOR SMART GRID</b>	Times Cited: 47
By: LIU, YN; GUO, W; FAN, CI; et.al Source: IEEE TRANSACTIONS ON INDUSTRIAL INFORMATICS 15 (3): 1767-1774 MAR 2019 Research Fields: ENGINEERING		
33	<b>PERFORMANCE LIMITS OF COGNITIVE-ULINK FSS AND TERRESTRIAL FS FOR KA-BAND</b>	Times Cited: 43
By: AN, K; LIANG, T; ZHENG, G; et.al Source: IEEE TRANSACTIONS ON AEROSPACE AND ELECTRONIC SYSTEMS 55 (5): 2604-2611 OCT 2019 Research Fields: ENGINEERING		
34	<b>FEATURE TREND EXTRACTION AND ADAPTIVE DENSITY PEAKS SEARCH FOR INTELLIGENT FAULT DIAGNOSIS OF MACHINES</b>	Times Cited: 39
By: WANG, YX; WEI, ZX; YANG, JW; Source: IEEE TRANSACTIONS ON INDUSTRIAL INFORMATICS 15 (1): 105-115 JAN 2019 Research Fields: ENGINEERING		
35	<b>ADSORPTION ENERGY ENGINEERING OF NICKEL OXIDE HYBRID NANOSHEETS FOR HIGH AREAL CAPACITY FLEXIBLE LITHIUM-ION BATTERIES</b>	Times Cited: 39
By: HUANG, YC; YANG, H; XIONG, TZ; et.al Source: ENERGY STORAGE MATERIALS 25: 41-51 MAR 2020 Research Fields: MATERIALS SCIENCE		
36	<b>A DYNAMIC MEMBERSHIP DATA AGGREGATION (DMA) PROTOCOL FOR SMART GRID</b>	Times Cited: 32
By: SONG, JC; LIU, YN; SHAO, J; et.al Source: IEEE SYSTEMS JOURNAL 14 (1): 900-908 MAR 2020 Research Fields: COMPUTER SCIENCE		
37	<b>AN EFFICIENT VISUALLY MEANINGFUL IMAGE COMPRESSION AND ENCRYPTION SCHEME BASED ON COMPRESSIVE SENSING AND DYNAMIC LSB EMBEDDING</b>	Times Cited: 29
By: CHAI, XL; WU, HY; GAN, ZH; et.al Source: OPTICS AND LASERS IN ENGINEERING 124: - JAN 2020 Research Fields: ENGINEERING		
38	<b>AN IMPROVED RSU-BASED AUTHENTICATION SCHEME FOR VANET</b>	Times Cited: 28
By: CHENG, HY; LIU, YN; Source: JOURNAL OF INTERNET TECHNOLOGY 21 (4): 1137-1150 2020 Research Fields: COMPUTER SCIENCE		
39	<b>EXPLORING THE RISK SPILLOVER EFFECTS AMONG CHINAS PILOT CARBON MARKETS: A REGULAR VINE COPULA-COES APPROACH</b>	Times Cited: 28
By: ZHU, BZ; ZHOU, XX; LIU, XF; et.al Source: JOURNAL OF CLEANER PRODUCTION 242: - JAN 1 2020 Research Fields: ENGINEERING		
40	<b>HIGHLY EFFICIENT MESOPOROUS MNO2 CATALYSTS FOR THE TOTAL TOLUENE OXIDATION: OXYGEN-VACANCY DEFECT ENGINEERING AND INVOLVED INTERMEDIATES USING IN SITU DRIFTS</b>	Times Cited: 27
By: MO, SP; ZHANG, Q; LI, JQ; et.al Source: APPLIED CATALYSIS B-ENVIRONMENTAL 264: - MAY 5 2020 Research Fields: CHEMISTRY		
41	<b>BINARY CO-NI OXIDE NANOPARTICLE-LOADED HIERARCHICAL GRAPHITIC POROUS CARBON FOR HIGH-PERFORMANCE SUPERCAPACITORS</b>	Times Cited: 25
By: LIU, Y; XIANG, CL; CHU, HL; et.al Source: JOURNAL OF MATERIALS SCIENCE & TECHNOLOGY 37: 135-142 JAN 15 2020 Research Fields: MATERIALS SCIENCE		

42	<b>HIGHLY EFFICIENT BLUE EMISSION FROM SELF-TRAPPED EXCITONS IN STABLE SB3+-DOPED CS2NAINCL6 DOUBLE PEROVSKITES</b>	Times Cited: 23
	By: ZENG, RS; ZHANG, LL; XUE, Y; et.al Source: JOURNAL OF PHYSICAL CHEMISTRY LETTERS 11 (6): 2053-2061 MAR 19 2020 Research Fields: CHEMISTRY	
43	<b>PW12/CN@BI2WO6 COMPOSITE PHOTOCATALYST PREPARED BASED ON ORGANIC-INORGANIC HYBRID SYSTEM FOR REMOVING POLLUTANTS IN WATER</b>	Times Cited: 22  Research Front
	By: YANG, RX; ZHONG, S; ZHANG, LS; et.al Source: SEPARATION AND PURIFICATION TECHNOLOGY 235: - MAR 18 2020 Research Fields: CHEMISTRY	
44	<b>MAGNESIUM -BASED HYDROGEN STORAGE COMPOUNDS: A REVIEW</b>	Times Cited: 22  Research Front
	By: OUYANG, LZ; LIU, F; WANG, H; et.al Source: JOURNAL OF ALLOYS AND COMPOUNDS 832: - AUG 15 2020 Research Fields: MATERIALS SCIENCE	
45	<b>A NOVEL HIERARCHICAL SECRET IMAGE SHARING SCHEME WITH MULTI-GROUP JOINT MANAGEMENT</b>	Times Cited: 21  Research Front
	By: WU, Z; LIU, YN; JIA, XX; Source: MATHEMATICS 8 (3): - MAR 2020 Research Fields: MATHEMATICS	
46	<b>PRIOR KNOWLEDGE-BASED PROBABILISTIC COLLABORATIVE REPRESENTATION FOR VISUAL RECOGNITION</b>	Times Cited: 20
	By: LAN, RS; ZHOU, YC; LIU, ZB; et.al Source: IEEE TRANSACTIONS ON CYBERNETICS 50 (4): 1498-1508 APR 2020 Research Fields: COMPUTER SCIENCE	
47	<b>16.5% EFFICIENCY TERNARY ORGANIC PHOTOVOLTAICS WITH TWO POLYMER DONORS BY OPTIMIZING MOLECULAR ARRANGEMENT AND PHASE SEPARATION</b>	Times Cited: 20
	By: XIE, GS; ZHANG, ZL; SU, ZY; et.al Source: NANO ENERGY 69: - MAR 2020 Research Fields: MATERIALS SCIENCE	
48	<b>DISTRIBUTION OF MICROPLASTICS IN SURFACE WATER AND SEDIMENTS OF QIN RIVER IN BEIBU GULF, CHINA</b>	Times Cited: 19
	By: ZHANG, LS; LIU, JY; XIE, YS; et.al Source: SCIENCE OF THE TOTAL ENVIRONMENT 708: - MAR 15 2020 Research Fields: ENVIRONMENT/ECOLOGY	
49	<b>A NEW 4D FOUR-WING MEMRISTIVE HYPERCHAOTIC SYSTEM: DYNAMICAL ANALYSIS, ELECTRONIC CIRCUIT DESIGN, SHAPE SYNCHRONIZATION AND SECURE COMMUNICATION</b>	Times Cited: 19  Research Front
	By: YU, F; QIAN, S; CHEN, X; et.al Source: INTERNATIONAL JOURNAL OF BIFURCATION AND CHAOS 30 (10): - AUG 2020 Research Fields: MATHEMATICS	
50	<b>HARMONIZING SELF-SUPPORTIVE VN/MOS2 PSEUDOCAPACITANCE CORE-SHELL ELECTRODES FOR BOOSTING THE AREAL CAPACITY OF LITHIUM STORAGE</b>	Times Cited: 19  Research Front
	By: XIONG, T; SU, H; YANG, F; et.al Source: MATERIALS TODAY ENERGY 17: - SEP 2020 Research Fields: MATERIALS SCIENCE	
51	<b>ONE-STEP PREPARATION (3D/2D/2D) BIVO4/FEVO4@RGO HETEROJUNCTION COMPOSITE PHOTOCATALYST FOR THE REMOVAL OF TETRACYCLINE AND HEXAVALENT CHROMIUM IONS IN WATER</b>	Times Cited: 17  Research Front
	By: YANG, RX; ZHU, ZJ; HU, CY; et.al Source: CHEMICAL ENGINEERING JOURNAL 390: - JUN 15 2020 Research Fields: ENGINEERING	
52	<b>A NOVEL HEAT PIPE ASSISTED SEPARATION TYPE BATTERY THERMAL MANAGEMENT SYSTEM BASED ON PHASE CHANGE MATERIAL</b>	Times Cited: 17  Research Front
	By: ZHANG, WC; QIU, JY; YIN, XX; et.al Source: APPLIED THERMAL ENGINEERING 165: - JAN 25 2020 Research Fields: ENGINEERING	

53	<b>LEAST SQUARES SOLUTION OF THE QUATERNION SYLVESTER TENSOR EQUATION</b> By: WANG, QW; XU, XJ; DUAN, XF; Source: LINEAR & MULTILINEAR ALGEBRA 69 (1): 104-130 JAN 2 2021 Research Fields: MATHEMATICS	Times Cited: 3  Research Front
桂林电子科技大学 ESI 热点论文 2 篇截图		
1	<b>FINE-TUNING ENERGY LEVELS VIA ASYMMETRIC END GROUPS ENABLES POLYMER SOLAR CELLS WITH EFFICIENCIES OVER 17%</b> By: LUO, ZH; MA, RJ; LIU, T; et.al Source: JOULE 4 (6): 1236-1247 JUN 17 2020 Research Fields: ENGINEERING	Times Cited: 69  ESI Hot  Research Front
2	<b>A CRITICAL REVIEW ON SEMITRANSSPARENT ORGANIC SOLAR CELLS</b> By: HU, ZH; WANG, J; MA, XL; et.al Source: NANO ENERGY 78: - DEC 2020 Research Fields: MATERIALS SCIENCE	Times Cited: 10  ESI Hot

InCites Essential Science Indicators dataset updated May 13, 2021.