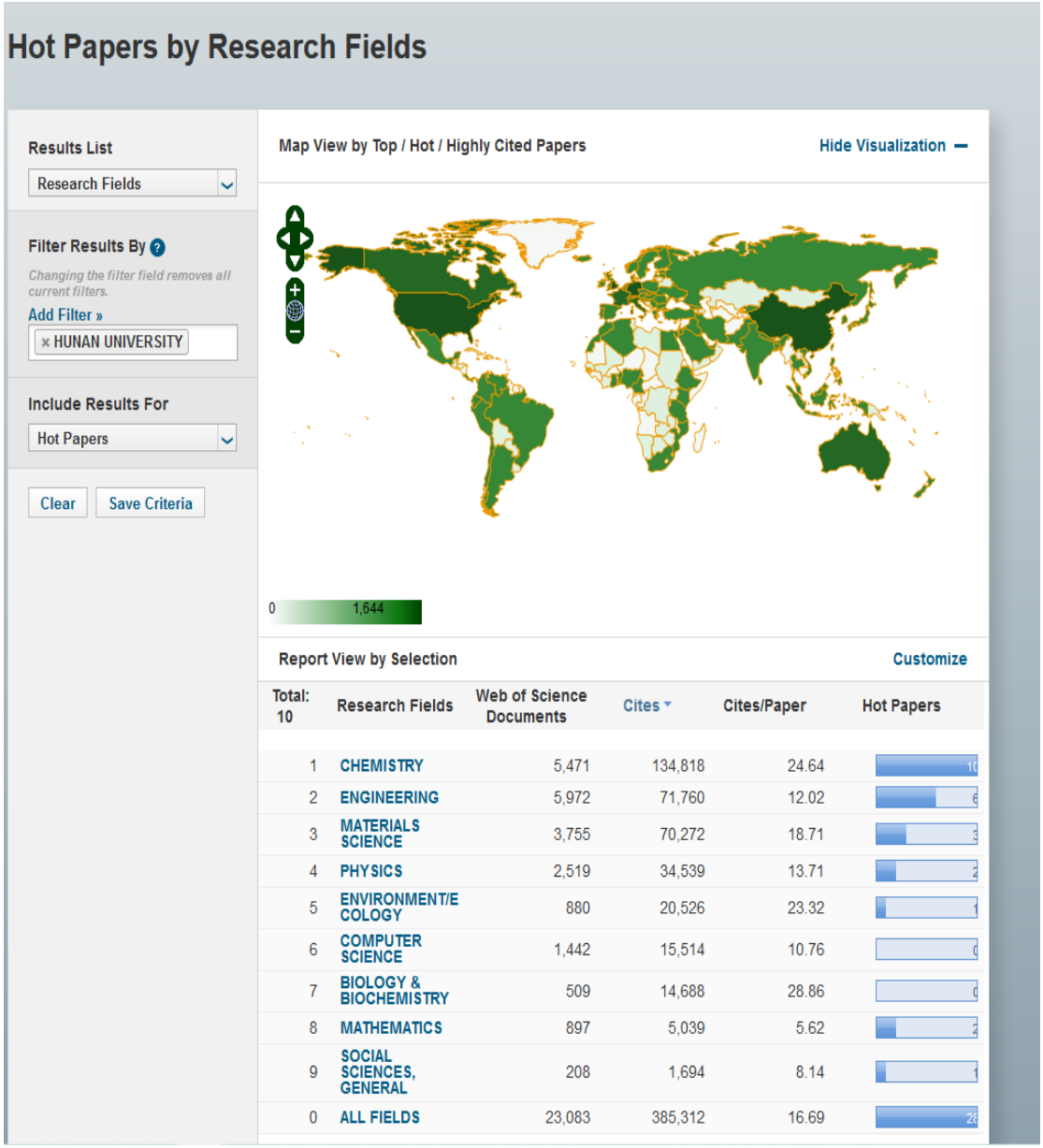
1. Essential Science Indicators for Hot papers for Hunan University on Nov 24, 2020



Total: 10	Research Fields	Web of Science Documents	Cites	Cites/Paper	Hot Papers
1	CHEMISTRY	5,471	134,818	24.64	10
2	ENGINEERING	5,972	71,760	12.02	6
3	MATERIALS SCIENCE	3,755	70,272	18.71	3
4	PHYSICS	2,519	34,539	13.71	2
5	ENVIRONMENT/ECOLOGY	880	20,526	23.32	1
6	COMPUTER SCIENCE	1,442	15,514	10.76	0
7	BIOLOGY & BIOCHEMISTRY	509	14,688	28.86	0
8	MATHEMATICS	897	5,039	5.62	2
9	SOCIAL SCIENCES, GENERAL	208	1,694	8.14	1
0	ALL FIELDS	23,083	385,312	16.69	28

Indicators | Field Baselines | Citation Thresholds

Indicators | Documents

Papers by Research Field

Citation Trends

Documents

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Sort By Citations | Customize Documents | 1 - 10 of 28

1 **BORON NITRIDE QUANTUM DOTS DECORATED ULTRATHIN POROUS G-C3N4: INTENSIFIED EXCITON DISSOCIATION AND CHARGE TRANSFER FOR PROMOTING VISIBLE-LIGHT-DRIVEN MOLECULAR OXYGEN ACTIVATION**
By: YANG, Y; ZHANG, C; HUANG, DL; et.al
Source: APPLIED CATALYSIS B-ENVIRONMENTAL 245: 87-99 MAY 15 2019
Research Fields: CHEMISTRY
Times Cited: 169
ESI Hot
Research Front

2 **SOLUTION-PROCESSABLE 2D SEMICONDUCTORS FOR HIGH-PERFORMANCE LARGE-AREA ELECTRONICS**
By: LIN, ZY; LIU, Y; HALIM, U; et.al
Source: NATURE 562 (7726): 254-+ OCT 11 2018
Research Fields: MATERIALS SCIENCE
Times Cited: 150
ESI Hot

3 **RECENT PROGRESS IN COVALENT ORGANIC FRAMEWORK THIN FILMS: FABRICATIONS, APPLICATIONS AND PERSPECTIVES**
By: WANG, H; ZENG, ZT; XU, P; et.al
Source: CHEMICAL SOCIETY REVIEWS 48 (2): 488-516 JAN 21 2019
Research Fields: CHEMISTRY
Times Cited: 150
ESI Hot
Research Front

4 **FACILE ASSEMBLED BIOCHAR-BASED NANOCOMPOSITE WITH IMPROVED GRAPHITIZATION FOR EFFICIENT PHOTOCATALYTIC ACTIVITY DRIVEN BY VISIBLE LIGHT**
By: YE, SJ; YAN, M; TAN, XF; et.al
Source: APPLIED CATALYSIS B-ENVIRONMENTAL 250: 78-88 AUG 5 2019
Research Fields: CHEMISTRY
Times Cited: 149
ESI Hot
Research Front

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5 **THE EFFECTS OF ACTIVATED BIOCHAR ADDITION ON REMEDIATION EFFICIENCY OF CO-COMPOSTING WITH CONTAMINATED WETLAND SOIL**
By: YE, SJ; ZENG, GM; WU, HP; et.al
Source: RESOURCES CONSERVATION AND RECYCLING 140: 278-285 JAN 2019
Research Fields: ENVIRONMENT/ECOLOGY
Times Cited: 148
ESI Hot
Research Front

6 **VAN DER WAALS INTEGRATION BEFORE AND BEYOND TWO-DIMENSIONAL MATERIALS**
By: LIU, Y; HUANG, Y; DUAN, XF;
Source: NATURE 567 (7748): 323-333 MAR 21 2019
Research Fields: MATERIALS SCIENCE
Times Cited: 136
ESI Hot

7 **PRECISE NANOMEDICINE FOR INTELLIGENT THERAPY OF CANCER**
By: CHEN, HB; GU, ZJ; AN, HW; et.al
Source: SCIENCE CHINA-CHEMISTRY 61 (12): 1503-1552 DEC 2018
Research Fields: CHEMISTRY
Times Cited: 121
ESI Hot

8 **ONE-STEP SYNTHESIS OF CO-DOPED UIO-66 NANOPARTICLE WITH ENHANCED REMOVAL EFFICIENCY OF TETRACYCLINE: SIMULTANEOUS ADSORPTION AND PHOTOCATALYSIS**
By: CAO, J; YANG, ZH; XIONG, WP; et.al
Source: CHEMICAL ENGINEERING JOURNAL 353: 126-137 DEC 1 2018
Research Fields: ENGINEERING
Times Cited: 92
ESI Hot

9 **GRAPHITE ANODE FOR A POTASSIUM-ION BATTERY WITH UNPRECEDENTED PERFORMANCE**
By: FAN, L; MA, RF; ZHANG, QF; et.al
Source: ANGEWANDTE CHEMIE-INTERNATIONAL EDITION 58 (31): 10500-10505 JUL 29 2019
Research Fields: CHEMISTRY
Times Cited: 84
ESI Hot
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10 **LARGE-AREA GRAPHENE-NANOMESH/CARBON-NANOTUBE HYBRID MEMBRANES FOR IONIC AND MOLECULAR NANOFILTRATION**
By: YANG, YB; YANG, XD; LIANG, L; et.al
Source: SCIENCE 364 (6445): 1057-+ SP. ISS. SI JUN 14 2019
Research Fields: MATERIALS SCIENCE
Times Cited: 77
ESI Hot

11 **Ti3C2 MXENE/POROUS G-C3N4 INTERFACIAL SCHOTTKY JUNCTION FOR BOOSTING SPATIAL CHARGE SEPARATION IN PHOTOCATALYTIC H2O2 PRODUCTION**
By: YANG, Y; ZENG, ZT; ZENG, GM; et.al
Source: APPLIED CATALYSIS B-ENVIRONMENTAL 258: - DEC 5 2019
Research Fields: CHEMISTRY
Times Cited: 63
ESI Hot
Research Front

12 **DEEP LEARNING FOR HYPERSPECTRAL IMAGE CLASSIFICATION: AN OVERVIEW**
By: LI, ST; SONG, WW; FANG, LY; et.al
Source: IEEE TRANSACTIONS ON GEOSCIENCE AND REMOTE SENSING 57 (9): 6690-6709 SEP 2019
Research Fields: GEOSCIENCES
Times Cited: 58
ESI Hot
Research Front

13 **CARBON FOAM WITH MICROPOROUS STRUCTURE FOR HIGH PERFORMANCE SYMMETRIC POTASSIUM DUAL-ION CAPACITOR**
By: FENG, YH; CHEN, SH; WANG, J; et.al
Source: JOURNAL OF ENERGY CHEMISTRY 43: 129-138 APR 2020
Research Fields: CHEMISTRY
Times Cited: 54
ESI Hot
Research Front

14 **RECENT ADVANCES IN COVALENT ORGANIC FRAMEWORKS (COFS) AS A SMART SENSING MATERIAL**
By: LIU, XG; HUANG, DL; LAI, C; et.al
Source: CHEMICAL SOCIETY REVIEWS 48 (20): 5266-5302 OCT 21 2019
Research Fields: CHEMISTRY
Times Cited: 48
ESI Hot

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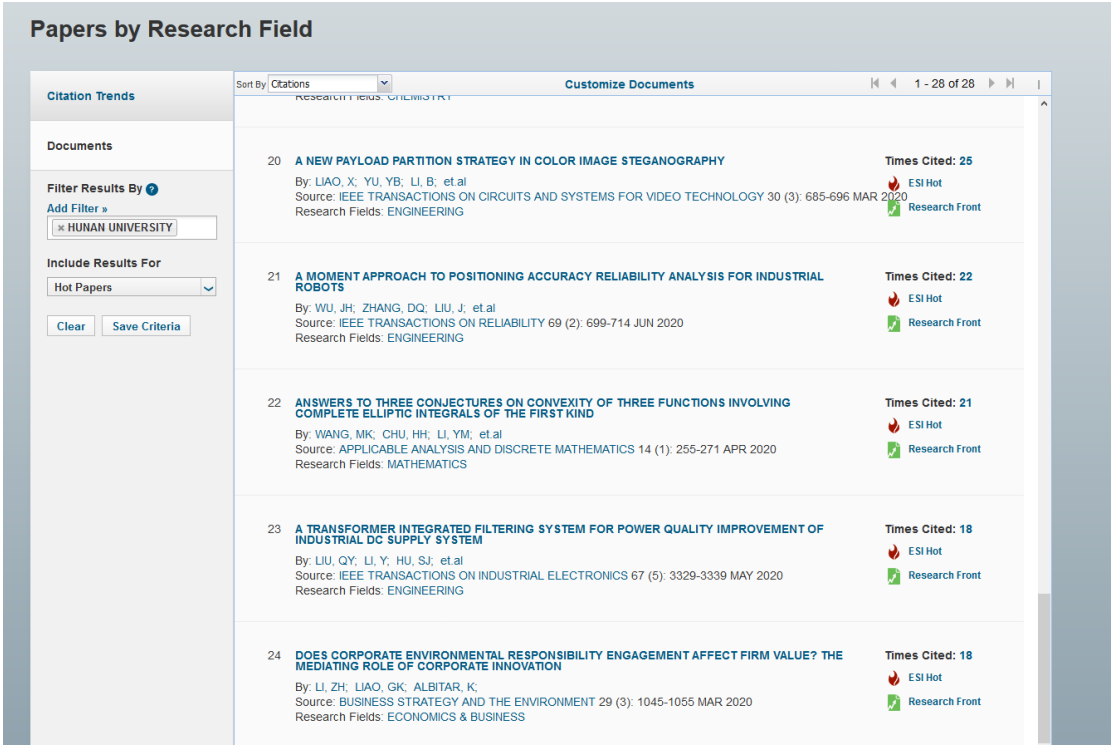
15 **POROUS BOWL-SHAPED VS2 NANOSHEETS/GRAPHENE COMPOSITE FOR HIGH-RATE LITHIUM-ION STORAGE**
By: WU, DX; WANG, CY; WU, MG; et.al
Source: JOURNAL OF ENERGY CHEMISTRY 43: 24-32 APR 2020
Research Fields: CHEMISTRY
Times Cited: 43
ESI Hot
Research Front

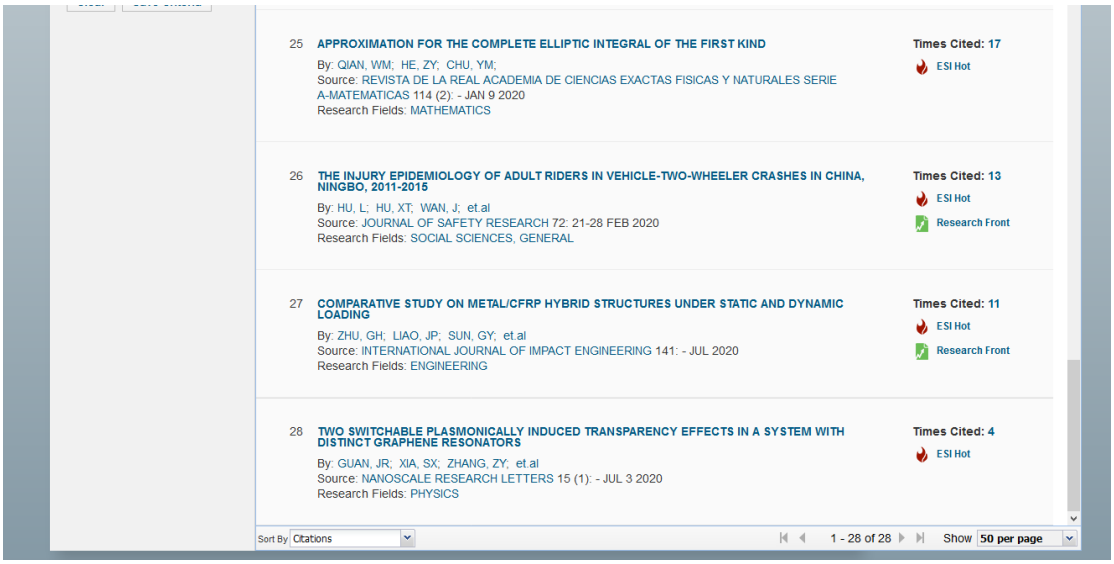
16 **PERSPECTIVES IN EMERGING BISMUTH ELECTROCHEMISTRY**
By: WU, MG; XU, BL; ZHANG, YF; et.al
Source: CHEMICAL ENGINEERING JOURNAL 381: - FEB 1 2020
Research Fields: ENGINEERING
Times Cited: 38
ESI Hot
Research Front

17 **PEDOT:PSS FOR FLEXIBLE AND STRETCHABLE ELECTRONICS: MODIFICATIONS, STRATEGIES, AND APPLICATIONS**
By: FAN, X; NIE, WY; TSAI, SH; et.al
Source: ADVANCED SCIENCE 6 (19): - OCT 2019
Research Fields: PHYSICS
Times Cited: 34
ESI Hot

18 **CRUDE OIL PRICE SHOCKS, MONETARY POLICY, AND CHINAS ECONOMY**
By: WEN, FH; MIN, F; ZHANG, YJ; et.al
Source: INTERNATIONAL JOURNAL OF FINANCE & ECONOMICS 24 (2): 812-827 APR 2019
Research Fields: ECONOMICS & BUSINESS
Times Cited: 34
ESI Hot
Research Front

19 **SINGLE ATOM ELECTROCATALYSTS SUPPORTED ON GRAPHENE OR GRAPHENE-LIKE CARBONS**
By: FEI, HL; DONG, JC; CHEN, DL; et.al
Source: CHEMICAL SOCIETY REVIEWS 48 (20): 5207-5241 OCT 21 2019
Research Fields: CHEMISTRY
Times Cited: 30
ESI Hot





以上 28 篇论文中有 7 篇是环境学院的论文：

1) Yang Yang1, Chen Zhang1, Danlian Huang1, Guangming Zeng*, Jinhui Huang*, Cui Lai, Chengyun Zhou, Wenjun Wang, Hai Guo, Wenjing Xue, Rui Deng, Min Cheng, Weiping Xiong. Boron nitride quantum dots decorated ultrathin porous g-C3N4: Intensified exciton dissociation and charge transfer for promoting visible-light-driven molecular oxygen activation.Applied Catalysis B: Environmental (SCI 2019 IF=16.683), 2019, 245, 87-99 (ESI Highly Cited Paper and Hot Paper and ESI Research Front, ESI Hot Paper 第 7 次上榜).
2) Yang Yang1, Zhuotong Zeng1, Guangming Zeng*, Danlian Huang*, Rong Xiao*, Chen Zhang, Chengyun Zhou, Weiping Xiong, Wenjun Wang, Min

Cheng, Wenjing Xue, Hai Guo, Xiang Tang, Donghui He, Ti_3C_2 Mxene/porous g-C_3N_4 interfacial Schottky junction for boosting spatial charge separation in photocatalytic H2O2 production, Applied Catalysis B: Environmental (SCI 2019 IF=16.683), 2019, 258, 117956 (ESI Hot Paper and ESI Highly Cited Paper and ESI Research Front, ESI Hot Paper 第 3 次上榜，环境学院曾光明教授与中南大学湘雅附二医院的合作成果)

3) Han Wang1, Zhuotong Zeng1, Piao Xu1, Lianshan Li1, Guangming Zeng*, Rong Xiao*, Zhiyong Tang*,Danlian Huang, Lin Tang, Cui Lai, Danni Jiang, Yang Liu, Huan Yi, Lei Qin, Shujing Ye, Xiaoya Ren and Wangwang Tang. Recent progress in covalent organic framework thin films: fabrications, applications and perspectives. Chemical Society Reviews （SCI 2019 IF=42.846，中科院 JCR 1 区，TOP 期刊）. 2019.48：488-516 (ESI Hot Paper and ESI Highly Cited Paper, ESI Hot Paper 第 5 次上榜，环境学院曾光明教授与中南大学湘雅附二医院的合作成果)
4) Shujing Ye1, Min Yan1, Xiaofei Tan1, Jie Liang1, Guangming Zeng*, Haipeng Wu*, Biao Song, Chengyun Zhou, Yang Yang, Han Wang. Facile assembled biochar-based nanocomposite with improved graphitization for efficient photocatalytic activity driven by visible light. Applied Catalysis B: Environmental (SCI 2019 IF=16.683), 2019, 250, 78-88 (ESI Hot Paper and ESI Highly Cited Paper and ESI Research Front, ESI Hot Paper 第 5 次上榜)
5) Shujing Ye, Guangming Zeng*, Haipeng Wu*, Jie Liang, Chang Zhang, Juan Dai, Weiping Xiong, Biao Song, Shaohua Wu, Jiangfang Yu. The effects of activated biochar addition on remediation efficiency of co-composting with contaminated wetland soil. Resources Conservation & Recycling (SCI 2019 IF=8.086).2019.140:278-285 (ESI Hot Paper and ESI Highly Cited Paper and Research Front, ESI Hot Paper 第 5 次上榜)
6) Jiao Cao, Zhao-hui Yang*, Wei-ping Xiong, Yao-yu Zhou, Yan-rong Peng, Xin Li, Cheng-yun Zhou, Rui Xu, Yan-ru Zhang. One-step synthesis of Co-doped UiO-66 nanoparticle with enhanced removal efficiency of tetracycline: Simultaneous adsorption and photocatalysis. Chemical Engineering Journal（SCI 2019 IF=10.652）353 (2018) 126–137 (ESI Hot Paper and ESI Highly Cited Paper, ESI Hot Paper 第 5 次上榜)
7) Xigui Liu, Danlian Huang*, Cui Lai*, Guangming Zeng, Lei Qin, Han Wang, Huan Yi, Bisheng Li, Shiyu Liu, Mingming Zhang, Rui Deng, Yukui Fu, Ling Li, Wenjing Xue, Sha Chen. Recent advances in covalent organic frameworks (COFs) as a smart sensing material. Chemical Society Reviews (SCI 2019 IF=42.846), 2019, 48(20), 5266-5302.(ESI Hot Paper, ESI Hot Paper 第 3 次上榜).