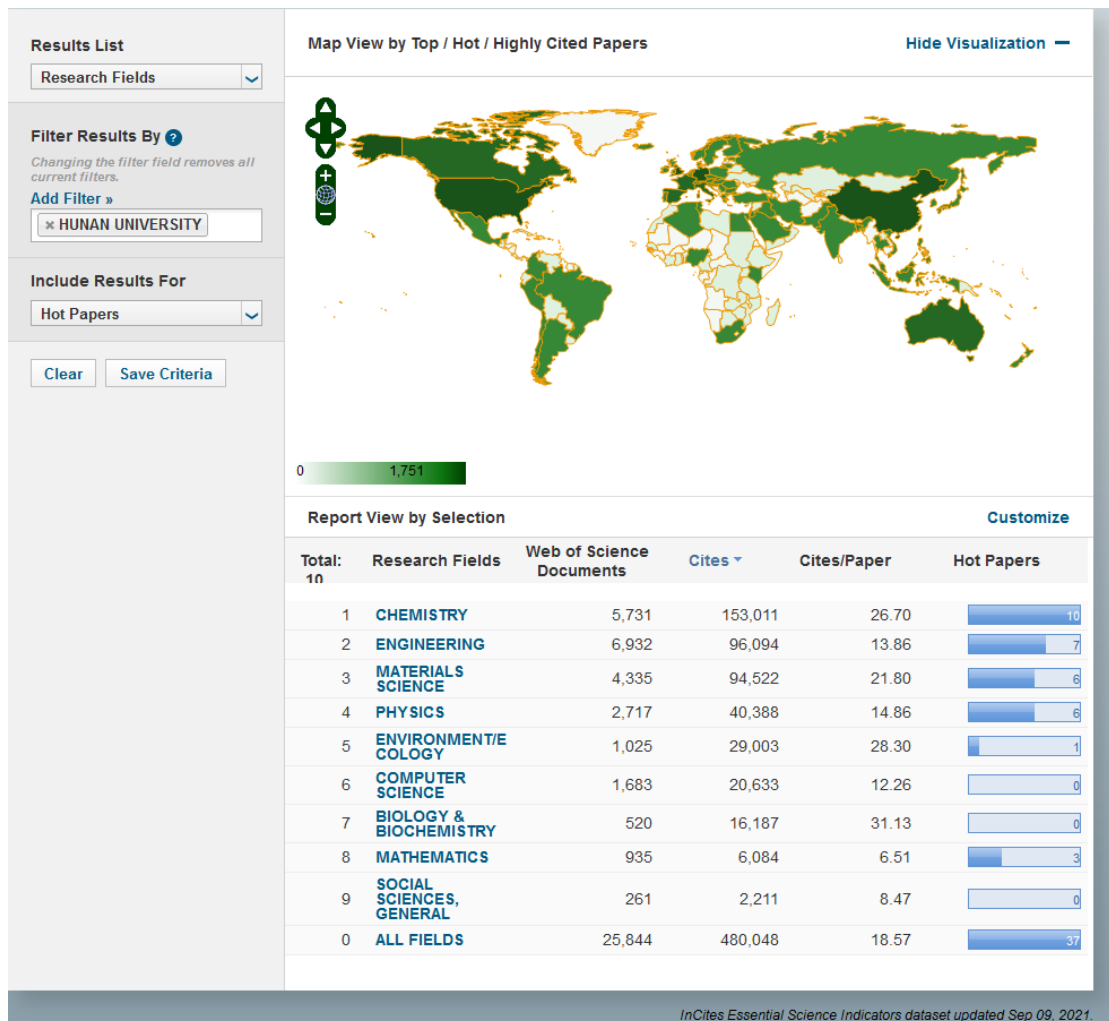


# 1. Essential Science Indicators for Hot papers for Hunan University on Sep 09, 2021.



## Papers by Research Field

Citation Trends		
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Documents	1	<b>FACILE ASSEMBLED BIOCHAR-BASED NANOCOMPOSITE WITH IMPROVED GRAPHITIZATION FOR EFFICIENT PHOTOCATALYTIC ACTIVITY DRIVEN BY VISIBLE LIGHT</b> By: YE, SJ; YAN, M; TAN, XF; et al Source: APPLIED CATALYSIS B-ENVIRONMENTAL 250: 78-88 AUG 5 2019 Research Fields: CHEMISTRY
	2	<b>GRAPHITE ANODE FOR A POTASSIUM-ION BATTERY WITH UNPRECEDENTED PERFORMANCE</b> By: FAN, L; MA, RF; ZHANG, QF; et al Source: ANGEWANDTE CHEMIE-INTERNATIONAL EDITION 58 (31): 10500-10505 JUL 29 2019 Research Fields: CHEMISTRY
	3	<b>DEEP LEARNING FOR HYPERSPECTRAL IMAGE CLASSIFICATION: AN OVERVIEW</b> 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
	4	<b>RECENT ADVANCES IN COVALENT ORGANIC FRAMEWORKS (COFs) AS A SMART SENSING MATERIAL</b> By: LIU, XG; HUANG, DL; LAI, C; et al Source: CHEMICAL SOCIETY REVIEWS 48 (20): 5266-5302 OCT 21 2019 Research Fields: CHEMISTRY
	5	<b>TRACE DOPING OF MULTIPLE ELEMENTS ENABLES STABLE BATTERY CYCLING OF LICOO2 AT 4.6V</b> By: ZHANG, JN; LI, QH; OUYANG, CY; et al Source: NATURE ENERGY 4 (7): 594-603 JUL 2019 Research Fields: ENGINEERING
Times Cited: 266 ESI Hot Research Front		
Times Cited: 217 ESI Hot Research Front		
Times Cited: 162 ESI Hot Research Front		
Times Cited: 153 ESI Hot		
Times Cited: 153 ESI Hot Research Front		

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6

**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

7

**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

8

**SULFUR DOPED CARBON QUANTUM DOTS LOADED HOLLOW TUBULAR G-C3N4 AS NOVEL PHOTOCATALYST FOR DESTRUCTION OF ESCHERICHIA COLI AND TETRACYCLINE DEGRADATION UNDER VISIBLE LIGHT**

By: WANG, WJ; ZENG, ZT; ZENG, GM; et al

Source: CHEMICAL ENGINEERING JOURNAL 378: - DEC 15 2019

Research Fields: ENGINEERING

9

**A REVIEW OF DEEP LEARNING FOR RENEWABLE ENERGY FORECASTING**

By: WANG, HZ; LEI, ZX; ZHANG, X; et al

Source: ENERGY CONVERSION AND MANAGEMENT 198: - OCT 15 2019

Research Fields: ENGINEERING

10

**DEFECT ENGINEERING ON ELECTRODE MATERIALS FOR RECHARGEABLE BATTERIES**

By: ZHANG, YQ; TAO, L; XIE, C; et al

Source: ADVANCED MATERIALS 32 (7): - FEB 2020

Research Fields: MATERIALS SCIENCE

Research Front

Times Cited: 147

ESI Hot

Times Cited: 139

ESI Hot

Times Cited: 131

ESI Hot

Times Cited: 128

ESI Hot

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11	<b>SINGLE ATOM ELECTROCATALYSTS SUPPORTED ON GRAPHENE OR GRAPHENE-LIKE CARBONS</b> 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: 108 ESI Hot
12	<b>ASSEMBLY OF AGI NANOPARTICLES AND ULTRATHIN G-C3N4 NANOSHEETS CODECORATED Bi2WO6 DIRECT DUAL Z-SCHEME PHOTOCATALYST: AN EFFICIENT, SUSTAINABLE AND HETEROGENEOUS CATALYST WITH ENHANCED PHOTOCATALYTIC PERFORMANCE</b> By: XUE, WJ; HUANG, DL; LI, J; et.al Source: CHEMICAL ENGINEERING JOURNAL 373: 1144-1157 OCT 1 2019 Research Fields: ENGINEERING	Times Cited: 79 ESI Hot
13	<b>IRON-MEDIATED ACTIVATION OF PERSULFATE AND PEROXYMONOSULFATE IN BOTH HOMOGENEOUS AND HETEROGENEOUS WAYS: A REVIEW</b> By: XIAO, S; CHENG, M; ZHONG, H; et.al Source: CHEMICAL ENGINEERING JOURNAL 384: - MAR 15 2020 Research Fields: ENGINEERING	Times Cited: 78 ESI Hot
14	<b>FUTURE PHYSICS PROGRAMME OF BESIII</b> By: ABLIKIM, M; ACHASOV, MN; ADLARSON, P; et.al Source: CHINESE PHYSICS C 44 (4): - APR 2020 Research Fields: PHYSICS	Times Cited: 76 ESI Hot
15	<b>RECENT ADVANCES IN PHOTO-ACTIVATED SULFATE RADICAL-ADVANCED OXIDATION PROCESS (SR-AOP) FOR REFRACTORY ORGANIC POLLUTANTS REMOVAL IN WATER</b> By: YANG, Q; MA, YH; CHEN, F; et.al Source: CHEMICAL ENGINEERING JOURNAL 378: - DEC 15 2019 Research Fields: ENGINEERING	Times Cited: 73 ESI Hot

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16	<b>NITROGEN-DOPED BIOCHAR FIBER WITH GRAPHITIZATION FROM BOEHMERIA NIVEA FOR PROMOTED PEROXYMONOSULFATE ACTIVATION AND NON-RADICAL DEGRADATION PATHWAYS WITH ENHANCING ELECTRON TRANSFER</b> By: YE, SJ; ZENG, GM; TAN, XF; et.al Source: APPLIED CATALYSIS B-ENVIRONMENTAL 269: - JUL 15 2020 Research Fields: CHEMISTRY	Times Cited: 72 ESI Hot Research Front
17	<b>OPERANDO IDENTIFICATION OF THE DYNAMIC BEHAVIOR OF OXYGEN VACANCY-RICH CO3O4 FOR OXYGEN EVOLUTION REACTION</b> By: XIAO, Zh; HUANG, YC; DONG, CL; et.al Source: JOURNAL OF THE AMERICAN CHEMICAL SOCIETY 142 (28): 12087-12095 JUL 15 2020 Research Fields: CHEMISTRY	Times Cited: 64 ESI Hot
18	<b>HARMONIZING SELF-SUPPORTIVE VN/MOS2 PSEUDOCAPACITANCE CORE-SHELL ELECTRODES FOR BOOSTING THE AREAL CAPACITY OF LITHIUM STORAGE</b> By: XIONG, T; SU, H; YANG, F; et.al Source: MATERIALS TODAY ENERGY 17: - SEP 2020 Research Fields: MATERIALS SCIENCE	Times Cited: 52 ESI Hot Research Front
19	<b>FEATURE EXTRACTION FOR HYPERSPECTRAL IMAGERY: THE EVOLUTION FROM SHALLOW TO DEEP: OVERVIEW AND TOOLBOX</b> By: RASTI, B; HONG, DF; HANG, RL; et.al Source: IEEE GEOSCIENCE AND REMOTE SENSING MAGAZINE 8 (4): 60-88 DEC 2020 Research Fields: GEOSCIENCES	Times Cited: 46 ESI Hot Research Front
20	<b>DOES CORPORATE ENVIRONMENTAL RESPONSIBILITY ENGAGEMENT AFFECT FIRM VALUE? THE MEDIATING ROLE OF CORPORATE INNOVATION</b> By: LI, Zh; LIAO, GK; ALBITAR, K; Source: BUSINESS STRATEGY AND THE ENVIRONMENT 29 (3): 1045-1055 MAR 2020 Research Fields: ECONOMICS & BUSINESS	Times Cited: 41 ESI Hot Research Front

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21	ANALYSIS AND FPGA REALIZATION OF A NOVEL 5D HYPERCHAOTIC FOUR-WING MEMRISTIVE SYSTEM, ACTIVE CONTROL SYNCHRONIZATION, AND SECURE COMMUNICATION APPLICATION By: YU, F; LIU, L; HE, BY; et.al Source: COMPLEXITY 2019; - NOV 28 2019 Research Fields: MATHEMATICS	Times Cited: 39	ESI Hot	Research Front
22	ENHANCED PHOTORESPONSIVITY OF A GAAS NANOWIRE METAL-SEMICONDUCTOR-METAL PHOTODETECTOR BY ADJUSTING THE FERMI LEVEL By: CHEN, X; WANG, DK; WANG, T; et.al Source: ACS APPLIED MATERIALS & INTERFACES 11 (36): 33188-33193 SEP 11 2019 Research Fields: MATERIALS SCIENCE	Times Cited: 38	ESI Hot	
23	NOVEL CIRCOVIRUS SPECIES IDENTIFIED IN FARMED PIGS DESIGNATED AS PORCINE CIRCOVIRUS 4, HUNAN PROVINCE, CHINA By: ZHANG, HH; HU, WQ; LI, JY; et.al Source: TRANSBOUNDARY AND EMERGING DISEASES 67 (3): 1057-1061 MAY 2020 Research Fields: PLANT & ANIMAL SCIENCE	Times Cited: 37	ESI Hot	Research Front
24	A NEW 4D FOUR-WING MEMRISTIVE HYPERCHAOTIC SYSTEM: DYNAMICAL ANALYSIS, ELECTRONIC CIRCUIT DESIGN, SHAPE SYNCHRONIZATION AND SECURE COMMUNICATION By: YU, F; QIAN, S; CHEN, X; et.al Source: INTERNATIONAL JOURNAL OF BIFURCATION AND CHAOS 30 (10): - AUG 2020 Research Fields: MATHEMATICS	Times Cited: 35	ESI Hot	Research Front
25	OBSERVATION OF STRUCTURE IN THE J/PSI-PAIR MASS SPECTRUM By: AAU, R; BETETA, CA; ADEVA, B; et.al Source: SCIENCE BULLETIN 65 (23): 1983-1993 DEC 15 2020 Research Fields: PHYSICS	Times Cited: 34	ESI Hot	Research Front

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26	ENHANCING PERFORMANCE OF A GAAS/ALGAAS/GAAS NANOWIRE PHOTODETECTOR BASED ON THE TWO-DIMENSIONAL ELECTRON-HOLE TUBE STRUCTURE By: ZHU, XT; LIN, FY; ZHANG, ZH; et.al Source: NANO LETTERS 20 (4): 2654-2659 APR 8 2020 Research Fields: MATERIALS SCIENCE	Times Cited: 31	ESI Hot	Research Front
27	SULFUR-ASSISTED LARGE-SCALE SYNTHESIS OF GRAPHENE MICROSPHERES FOR SUPERIOR POTASSIUM-ION BATTERIES By: ZHANG, QF; CHENG, XL; WANG, CX; et.al Source: ENERGY & ENVIRONMENTAL SCIENCE 14 (2): 965-974 FEB 1 2021 Research Fields: ENVIRONMENT/ECOLOGY	Times Cited: 27	ESI Hot	Research Front
28	PHYSICAL UNCLONABLE FUNCTION-BASED KEY SHARING VIA MACHINE LEARNING FOR IOT SECURITY By: ZHANG, JL; QU, G; Source: IEEE TRANSACTIONS ON INDUSTRIAL ELECTRONICS 67 (8): 7025-7033 AUG 2020 Research Fields: ENGINEERING	Times Cited: 25	ESI Hot	
29	EVENT-BASED SLIDING-MODE SYNCHRONIZATION OF DELAYED MEMRISTIVE NEURAL NETWORKS VIA CONTINUOUS/PERIODIC SAMPLING ALGORITHM By: WANG, YX; CAO, YT; GUO, ZY; et.al Source: APPLIED MATHEMATICS AND COMPUTATION 383: - OCT 15 2020 Research Fields: MATHEMATICS	Times Cited: 19	ESI Hot	Research Front
30	ELECTROLYTES ENRICHED BY POTASSIUM PERFLUORINATED SULFONATES FOR LITHIUM METAL BATTERIES By: QI, SH; WANG, HP; HE, J; et.al Source: SCIENCE BULLETIN 66 (7): 685-693 APR 15 2021 Research Fields: MATERIALS SCIENCE	Times Cited: 19	ESI Hot	Research Front

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31	GRADIENT SOLID ELECTROLYTE INTERPHASE AND LITHIUM-ION SOLVATION REGULATED BY BISFLUOROACETAMIDE FOR STABLE LITHIUM METAL BATTERIES	By: LI, F.; HE, J.; LIU, J.D.; et al Source: ANGEWANDTE CHEMIE-INTERNATIONAL EDITION 60 (12): 6600-6608 MAR 15 2021 Research Fields: CHEMISTRY	Times Cited: 16 ESI Hot Research Front	
32	THE 2021 BATTERY TECHNOLOGY ROADMAP	By: MA, J.M.; LI, Y.T.; GRUNDISH, N.S.; et al Source: JOURNAL OF PHYSICS D-APPLIED PHYSICS 54 (18): - APR 29 2021 Research Fields: PHYSICS	Times Cited: 13 ESI Hot Research Front	
33	PHOTORESPONSE IMPROVEMENT OF MIXED-DIMENSIONAL 1D-2D GAAS PHOTODETECTORS BY INCORPORATING CONSTRUCTIVE INTERFACE STATES	By: WANG, D.K.; CHEN, X.; FANG, X.; et al Source: NANOSCALE 13 (2): 1086-1092 JAN 14 2021 Research Fields: PHYSICS	Times Cited: 11 ESI Hot Research Front	
34	ARTIFICIAL SEI FOR SUPERHIGH-PERFORMANCE K-GRAPHITE ANODE	By: LIU, Q.; RAO, A.M.; HAN, X.; et al Source: ADVANCED SCIENCE 8 (9): - MAY 2021 Research Fields: PHYSICS	Times Cited: 10 ESI Hot Research Front	
35	SULFUR VACANCY-RICH MOS <sub>2</sub> AS A CATALYST FOR THE HYDROGENATION OF CO <sub>2</sub> TO METHANOL	By: HU, J.T.; YU, L.; DENG, J.; et al Source: NATURE CATALYSIS 4 (3): 242-+ MAR 2021 Research Fields: CHEMISTRY	Times Cited: 9 ESI Hot	

36	AN ALL-ORGANIC AQUEOUS POTASSIUM DUAL-ION BATTERY	By: GE, J.M.; YI, X.H.; FAN, L.; et al Source: JOURNAL OF ENERGY CHEMISTRY 57: 28-33 JUN 2021 Research Fields: CHEMISTRY	Times Cited: 8 ESI Hot	
37	DEFECT-ENGINEERED 2D/2D HBN/G-C <sub>3</sub> N <sub>4</sub> Z-SCHEME HETEROJUNCTIONS WITH FULL VISIBLE-LIGHT ABSORPTION: EFFICIENT METAL-FREE PHOTOCATALYSTS FOR HYDROGEN EVOLUTION	By: XU, L.; ZENG, J.; LI, Q.; et al Source: APPLIED SURFACE SCIENCE 547: - MAY 1 2021 Research Fields: MATERIALS SCIENCE	Times Cited: 5 ESI Hot	

以上 37 篇论文中有 8 篇是环境学院的论文:

- 1) Shujing Ye<sup>1</sup>, Min Yan<sup>1</sup>, Xiaofei Tan<sup>1</sup>, Jie Liang<sup>1</sup>, 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 2020 IF=19.503), 2019, 250, 78-88 (ESI Hot Paper and ESI Highly Cited Paper and ESI Research Front, ESI Hot Paper 第 9 次上榜)
- 2) 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 2020 IF=54.564), 2019, 48(20), 5266-5302.(ESI Hot Paper, ESI Hot Paper 第 8 次上榜).
- 3) Yang Yang<sup>1</sup>, Zhuotong Zeng<sup>1</sup>, 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<sub>3</sub>C<sub>2</sub> Mxene/porous g-C<sub>3</sub>N<sub>4</sub> interfacial Schottky junction for boosting spatial charge separation in photocatalytic H<sub>2</sub>O<sub>2</sub> production, Applied Catalysis B: Environmental (SCI 2020 IF=19.503), 2019, 258, 117956 (ESI Hot Paper and ESI Highly Cited Paper and ESI Research Front, ESI Hot Paper 第 7 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) Wenjun Wang<sup>1</sup>, Zhuotong Zeng<sup>1</sup>, Guangming Zeng\*, Chen Zhang\*, Rong Xiao\*, Chengyun Zhou, Weiping Xiong, Yang Yang, Lei Lei, Yang Liu, Danlian Huang, Min Cheng, YayaYang, Yukui

Fu, Hanzhuo Luo, Yin Zhou, Sulfur doped carbon quantum dots loaded hollow tubular g-C<sub>3</sub>N<sub>4</sub> as novel photocatalyst for destruction of Escherichia coli and tetracycline degradation under visible light, Chemical Engineering Journal (SCI 2020 IF=13.273), 2019, 378, 122132 (ESI Hot Paper and ESI Highly Cited Paper and ESI Research Front, ESI Hot Paper 第 7 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)

5) Wenjing Xue, Danlian Huang, Jing Li, Guangming Zeng, Rui Deng, Yang Yang, Sha Chen, Zhihao Li, Xiaomin Gong, Bo Li. Assembly of AgI nanoparticles and ultrathin g-C<sub>3</sub>N<sub>4</sub> nanosheets codecorated Bi<sub>2</sub>WO<sub>6</sub> direct dual Z-scheme photocatalyst: An efficient, sustainable and heterogeneous catalyst with enhanced photocatalytic performance. Chemical Engineering Journal (SCI 2020 IF=13.273), 2019, 373, 1144-1157.(ESI Hot Paper and ESI Highly Cited Paper, ESI Hot Paper 第 2 次上榜).

6) Sa Xiao<sup>1</sup>, Min Cheng<sup>1</sup>, Hua Zhong\*, Zhifeng Liu\*, Yang Liu, Xin Yang, Qinghua Liang. Iron-mediated activation of persulfate and peroxymonosulfate in both homogeneous and heterogeneous ways: A review. Chemical Engineering Journal (SCI 2020 IF=13.273), 2020, 384:123265 (ESI Hot Paper, ESI Hot Paper 第 2 次上榜).

7) Qi Yang\*, Yinghao Ma, Fei Chen, Fubing Yao, Jian Sun, Shana Wang, Kaixin Yi, Lihua Hou, Xiaoming Li, Dongbo Wang\*, Recent advances in photo-activated sulfate radical-advanced oxidation process (SR-AOP) for refractory organic pollutants removal in water, Chemical Engineering Journal, (SCI 2020 IF=13.273) 2019, 378:122149 (ESI Hot Paper, ESI Hot Paper 第 2 次上榜).

8) Shujing Ye, Guangming Zeng\*, Xiaofei Tan\*, Haipeng Wu\*, Jie Liang, Biao Song, Ning Tang, Peng Zhang, Yuanyuan Yang, Qiang Chen, Xiaopei Li. Nitrogen-doped biochar fiber with graphitization from Boehmeria nivea for promoted peroxymonosulfate activation and non-radical degradation pathways with enhancing electron transfer. Applied Catalysis B: Environmental (SCI 2020 IF=19.503).2020.269 (118850) :1-11 (ESI Hot Paper, ESI Hot Paper 第 2 次上榜).