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王欢文

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个人简介

Personal Profile

王欢文，中国地质大学（武汉）教授，博士生导师，入选湖北省“楚天学者计划”，1985年10月出生于甘肃省西和县；2008年和2011年于西北师范大学分别获理学学士和硕士学位，2014年于同济大学化学系获博士学位，2013年12月~2014年3月于新加坡南洋理工大学物理系进行短期联合培养（导师：范红金教授），2015年3月~2016年9月于新加坡南洋理工大学材料系和物理系从事博士后研究，2016年9月至今就职于中国地质大学（武汉），主要从事新型电化学储能的研究工作，目前已在*Adv. Mater.*, *Adv. Funct. Mater.*, *Adv. Energy Mater.*, *Nano Energy*, *Energy Storage Materials*, *Small*等期刊发表SCI论文~70篇，其中有12篇入选“ESI高被引论文”，2篇入选“ESI热点论文”，论文总引用3499次，单篇最高引用287次，h-index为32。

研究方向：

超级电容器(supercapacitor)、锂/钠/钾/锌离子电池(Li/Na/K/Zn ion battery)、混合金属离子电容器(hybrid ion supercapacitor)、电催化(HER, OER, ORR)

科研项目：

1. 国家自然科学基金青年基金 [51702295] (2018.1.1~2020.12.31)
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代表性论文：

2019年

[62] Zhifei Mao, Rui Wang, Beibei He, Yansheng Gong, **Huanwen Wang***, Large-Area, Uniform, Aligned Arrays of $\text{Na}_3(\text{VO})_2(\text{PO}_4)_2\text{F}$ on Carbon Nanofiber for Quasi-Solid-State Sodium-Ion Hybrid Capacitors, *Small* 2019, 15, 1902466. (IF=10.856)

[61] Yuzhu Li, **Huanwen Wang***, Libin Wang, Zhifei Mao, Rui Wang, Beibei He, Yansheng Gong, Xianluo Hu*, Mesopore-Induced Ultrafast Na^+ -Storage in T-Nb₂O₅/Carbon Nanofiber Films toward Flexible High-Power Na-Ion Capacitors, *Small* 2019, 1804539. (IF=10.856)

[60] Yuzhu Li, **Huanwen Wang***, Libin Wang, Rui Wang, Beibei He, Yansheng Gong, Xianluo Hu*, Ultrafast Na^+ -Storage in TiO₂-Coated MoS₂@N-doped Carbon for High-Energy Sodium-Ion Hybrid Capacitors, *Energy Storage Materials* 2019, accepted. (Timely IF=15.884)

[59] **Huanwen Wang***, Dongming Xu, Guichong Jia, Zhifei Mao, Yansheng Gong, Beibei He, Rui Wang, Hong Jin Fan*, Suppressing Capacity Decay of MoS₂ by Double Core/Shell Nanofiber Architecture and Flexible Sodium-Ion Hybrid Capacitors, *Energy Storage Materials* 2019. (Timely IF=15.884)

[58] Yuzhu Li, Tian Liang, Rui Wang, Beibei He, Yansheng Gong, **Huanwen Wang***, Encapsulation of Fe₃O₄ between Copper Nanorod and Thin TiO₂ Film by ALD for Lithium-Ion Capacitors, *ACS Appl. Mater. Interfaces* 2019, 1121, 19115. (IF=8.097)

基本信息

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扫描关注

同专业博导

同专业硕导

[57] Tian Liang, **Huanwen Wang**,* Rixin Fei, Rui Wang, Beibei He, Yansheng Gong, Chunjie Yan, A high-power lithium-ion hybrid capacitor based on a hollow N-doped carbon nanobox anode and its porous analogue cathode, *Nanoscale*, 2019, 11, 20715. (IF=7.17)

[56] Dongming Xu, **Huanwen Wang**,* Fuyun Li, Zhecun Guan, Rui Wang, Beibei He, Yansheng Gong, Xianluo Hu*, Conformal Conducting Polymer Shells on V_2O_5 Nanosheet Arrays as a High-Rate and Stable Zinc-Ion Battery Cathode, *Adv. Mater. Interfaces* 2019, 1801506. (IF=4.834)

[55] Ke Liao, **Huanwen Wang**,* Libin Wang, Dongming Xu, Mao Wu, Rui Wang, Beibei He, Yansheng Gong, Xianluo Hu*, A high-energy sodium-ion capacitor enabled by a nitrogen/sulfur co-doped hollow carbon nanofiber anode and an activated carbon cathode, *Nanoscale Adv.*, 2019, 1, 746.

[54] Rui Wang*, Hanxiao Mo, Shuai Li, Yansheng Gong, Beibei He, **Huanwen Wang**, Influence of Conductive additives on the stability of red phosphorus carbon anodes for sodium-ion batteries, *Scientific Reports* 2019, 9, 946. (IF=4.122)

[53] Mao Wu, Yansheng Gong,* Tao Nie, Jin Zhang, Rui Wang, **Huanwen Wang**, Beibei He*, Template-free synthesis of nanocage-like g-C₃N₄ with high surface area and nitrogen defects for enhanced photocatalytic H₂ activity, *J. Mater. Chem. A*, 2019, 7, 5324 (IF=9.931)

[52] Jin Zhang, Mao Wu, Beibei He, Rui Wang, **Huanwen Wang**, Yansheng Gong*, *Applied Surface Science* 2019, 470, 565. (IF=4.439)

[51] Baojun Huang, Rui Wang,* Yansheng Gong, Beibei He,* **Huanwen Wang**, Enhanced Cycling Stability of Cation Disordered Rock-Salt $Li_{1.2}Ti_{0.4}Mn_{0.4}O_2$ Material by Surface Modification With Al_2O_3 , *Front Chem.* 2019; 7: 107. (IF=4.155)

[50] Juan Sun, Zonghuai Zhang, Yansheng Gong, **Huanwen Wang**, Rui Wang, Ling Zhao, Beibei He*, Plasma engraved $Bi_{0.1}(Ba_{0.5}Sr_{0.5})_{0.9}Co_{0.8}Fe_{0.2}O_{3-\delta}$ perovskite for highly active and durable oxygen evolution, *Scientific Reports* 2019, 9, 4210. (IF=4.122)

[49] Peng Sun, Ruijing Wang, Qiang Wang, **Huanwen Wang**, Xuefeng Wang*, Uniform MoS_2 nanolayer with sulfur vacancy on carbon nanotube networks as binder-free electrodes for asymmetrical supercapacitor, *Applied Surface Science* 2019, 475, 793. (IF=4.439)

[48] Mao Wu, Jin Zhang, Beibei He, **Huanwen Wang**, Rui Wang,* Yan-sheng Gong*, *Applied Catalysis B: Environmental* 2019, 241, 159.

[47] Zonghuai Zhang, Kun Tan, Yansheng Gong, **Huanwen Wang**, Rui Wang, Ling Zhao, Beibei He*, An integrated bifunctional catalyst of metal-sulfide/perovskite oxide for lithium-oxygen batteries, *J. Power Sources* 2019, 437, 226908.(IF=7.4)

[46] Rui Wang,* Cong Tang, Ming Zhang, Zhecun Guan, **Huanwen Wang**, Yansheng Gong, Beibei He,* Increased sodium-ion storage performances of uniform TiO_2 /carbon nanofibers by in-situ Fe-doping, *Materials Letters* 2019, 253, 349. (IF=3.019)

[45] Jin Zhang, Yuyang Huang, Tao Nie, Rui Wang, Beibei He, Bo Han, **Huanwen Wang**, Yongshang Tian, Yansheng Gong,* Enhanced visible-light photocatalytic H₂ production of hierarchical g-C₃N₄ hexagon by one-step self-assembly strategy, *Applied Surface Science* 2020, 499, 143942.(IF=4.439)

2018年

[44] Dongming Xu, Dongliang Chao, **Huanwen Wang***, Yansheng Gong, Rui Wang, Beibei He, Xianluo Hu*, Hong Jin Fan*, Flexible Quasi-Solid-State Sodium-Ion Capacitors Developed Using Two-Dimensional Metal-Organic-Framework Array as Reactor, *Adv. Energy Mater.* 2018, 8, 1702769. (IF=21.875)

[43] Yuzhu Li, **Huanwen Wang**,* Baojun Huang, Libin Wang, Rui Wang, Beibei He, Yansheng Gong and Xianluo Hu*, Mo_2C -induced solid-phase synthesis of ultrathin MoS_2 nanosheet arrays on bagasse-derived porous carbon frameworks for high-energy hybrid sodium ion capacitors, *J. Mater. Chem. A*, 2018, 6, 14742. (IF=9.931)

[42] Tian Liang, **Huanwen Wang**,* Dongming Xu, Ke Liao, Rui Wang, Beibei He, Yansheng Gong and Chunjie Yan*, High-energy flexible quasi-solid-state lithium-ion capacitors enabled by a freestanding rGO-encapsulated Fe_3O_4 nanocube anode and a holey rGO film cathode, *Nanoscale* 2018, 10, 17814. (IF=7.233)

[41] Yuanjian Li, **Huanwen Wang***, Yuzhu Li, Qiang Wang*, Debao Li, Rui Wang, Beibei He, Yansheng Gong*, 2D metal-organic-framework array-derived hierarchical network architecture of cobalt oxide flakes with tunable oxygen vacancies towards efficient oxygen evolution reaction, *Journal of Catalysis* 2018, 364, 48. (IF=6.759)

[40] **Huanwen Wang***, Yuanjian Li, Rui Wang, Beibei He, Yansheng Gong*, Metal-organic-framework template-derived hierarchical porous CoP arrays for energy-saving overall water splitting, *Electrochimica Acta* 2018, 284, 504. (IF=5.116)

[39] **Huanwen Wang***, Yuanjian Li, Yuzhu Li, Beibei He, Rui Wang, Yansheng Gong*, MOFs-derived hybrid nanosheet arrays of nitrogen-rich CoS₂ and nitrogen-doped carbon for efficient hydrogen evolution in both alkaline and acidic media, *International Journal of Hydrogen Energy* 2018, 43, 23319. (IF=4.229)

[38] Mao Wu, Jin Zhang, Chunxiao Liu, Yansheng Gong,* Rui Wang, Beibei He, **Huanwen Wang***, Rational design and fabrication of noble-metal-free Ni₃P cocatalyst embedded 3D N-TiO₂/g-C₃N₄ heterojunctions with enhanced photocatalytic hydrogen evolution, *ChemCatChem* 2018, 10, 3069. (IF=4.674)

[37] Shuimei Chen, Daming Ren, Ming Zhang, **Huanwen Wang**, Beibei He, Yansheng Gong*, RuiWang*, Improved sodium storage performances of plasma treated self-supported carbon fibers, *Solid State Ionics* 2018, 327, 52. (IF=2.751)

[36] Zonghuai Zhang, Zonghuai Zhang, Beibei He*, Liangjian Chen, **Huanwen Wang**, Rui Wang, Ling Zhao, Yansheng Gong*, Boosting Overall Water Splitting via FeOOH Nanoflake-Decorated PrBa_{0.5}Sr_{0.5}Co₂O_{5+δ} Nanorods, *ACS Appl. Mater. Interfaces* 2018, 10443, 8032. (IF=8.097)

[35] Cheng Gong, Ling Zhao, Shuai Li, **Huanwen Wang**, Yansheng Gong, Rui Wang,* Beibei He*, Atomic layered deposition iron oxide on perovskite LaNiO₃ as an efficient and robust bi-functional catalyst for lithium oxygen batteries, *Electrochimica Acta* 2018, 281, 338. (IF=5.116)

[34] Ruijing Wang, Peng Sun, **Huanwen Wang**, Xuefeng Wang*, Hierarchical molybdenum carbide/N-doped carbon as efficient electrocatalyst for hydrogen evolution reaction in alkaline solution, *International Journal of Hydrogen Energy* 2018, 43, 17244. (IF=4.229)

2017年

[33] **Huanwen Wang**, Changrong Zhu, Dongliang Chao, Qingyu Yan*, Hong Jin Fan*, Nonaqueous Hybrid Lithium-Ion and Sodium-Ion Capacitors, *Adv. Mater.* 2017, 29, 1702093. (IF=21.95)

[32] Ruijing Wang, Peng Sun, **Huanwen Wang***, Xuefeng Wang*, Pulsed laser deposition of amorphous MoS₂ films for efficient hydrogen evolution reaction, *Electrochimica Acta* 2017. (IF=5.116)

[31] Yuanjian Li, **Huanwen Wang***, Rui Wang, Beibei He, Yansheng Gong*, 3D self-supported Fe-O-P film on nickel foam as a highly active bifunctional electrocatalyst for urea-assisted overall water splitting, *Materials Research Bulletin*, 2017 (IF=2.873)

[30] Peng Sun, Huan Yi, Tianquan Peng, Yuting Jing, Ruijing Wang, **Huanwen Wang**, Xuefeng Wang*, Ultrathin MnO₂ nanoflakes deposited on carbon nanotube networks for symmetrical supercapacitors with enhanced performance, *Journal of Power Sources* 2017, 341, 27. (IF=6.945)

[29] Hongbo Geng, Jun Yang, Zhengfei Dai, Yu Zhang, Yun Zheng, Hong Yu, **Huanwen Wang**, Zhongzhen Luo, Yuanyuan Guo, Yufei Zhang, Haosen Fan, Xinglong Wu, Junwei Zheng, Yonggang Yang, Qingyu Yan*, Hongwei Gu*, *Small* 2017, 13, 1603490. (IF=9.598)

≤2016年

[28] **Huanwen Wang**, Yu Zhang, Huixiang Ang, Yongqi Zhang, Hui Teng Tan, Yufei Zhang, Yuanyuan Guo, Joseph B. Franklin, Xing Long Wu, Madhavi Srinivasan,* Hong Jin Fan,* Qingyu Yan*, A High-Energy Lithium-Ion Capacitor by Integration of a 3D Interconnected Titanium Carbide Nanoparticle Chain Anode with a Pyridine-Derived Porous Nitrogen-Doped Carbon Cathode, *Adv. Funct. Mater.* 2016, 26, 3082. (IF=13.325)

[27] **Huanwen Wang**, Huan Yi, Changrong Zhu, Xuefeng Wang*, Hong Jin Fan*, Functionalized Highly Porous Graphitic Carbon Fibers for High-Rate Supercapacitive Electrodes, *Nano Energy* 2015, 13, 658. (IF=13.12)

[26] **Huanwen Wang**, Zijie Xua, Huan Yi, HuigeWei, Zhanhu Guo*, Xuefeng Wang*. One-step preparation of single-crystalline Fe₂O₃ particles/graphene composite hydrogels as high performance anode materials for supercapacitors, *Nano Energy* 2014, 7, 86. (IF=13.12)

- [25] **Huanwen Wang**, Cao Guan, Xuefeng Wang,* Hong Jin Fan*, A Li-Ion Capacitor based on TiO₂ Nanobelt Array Anode and Graphene Hydrogel Cathode, *Small* 2015, 11, 1470. (IF=9.598)
- [24] **Huanwen Wang**, Guichong Jia, Yuanyuan Guo, Yongqi Zhang, Hongbo Geng, Jing Xu, Wenjie Mai, Qingyu Yan, and Hong Jin Fan*, Atomic Layer Deposition of Amorphous TiO₂ on Carbon Nanotube Networks and Their Superior Li and Na Ion Storage Properties, *Adv. Mater. Interfaces* 2016, 1600375. (IF=4.834)
- [23] **Huanwen Wang**, Huan Yi, Xiao Chen, Xuefeng Wang*. One-step strategy to three-dimensional graphene/VO₂ nanobelt composite hydrogels, *J. Mater. Chem. A*, 2014, 2, 1165. (IF=9.931)
- [22] **Huanwen Wang**, Huan Yi, Xiao Chen, Xuefeng Wang*. Asymmetric supercapacitors based on nano-architected nickel oxide/graphene foam and hierarchical porous nitrogen-doped carbon nanotubes with ultrahigh-rate performance, *J. Mater. Chem. A*, 2014, 2, 3223. (IF=9.931)
- [21] **Huanwen Wang**, Zhong-Ai Hu,* Yan-Qin Chang, Yan-Li Chen, Hong-Ying Wu, Zi-Yu Zhang, Yu-Ying Yang, Design and synthesis of NiCo₂O₄-reduced graphene oxide composites for high performance supercapacitors. *J. Mater. Chem.*, 2011, 21, 10504. (IF=9.931)
- [20] **Huanwen Wang**, Xuefeng Wang*. Growing nickel cobaltite nanowires and nanosheets on carbon cloth with different pseudocapacitive performance, *ACS Appl. Mater. Interfaces* 2013, 5, 6255. (IF=8.097)
- [19] **Huanwen Wang**, Yalan Wang, Zhongai Hu, Xuefeng Wang*. Cutting and unzipping multiwalled carbon nanotubes into curved graphene nanosheets and their enhanced supercapacitor performance. *ACS Appl. Mater. Interfaces* 2012, 4, 6827. (IF=8.097)
- [18] **Huanwen Wang**, Yu Zhang, Wenping Sun, Hui Teng Tan, Joseph B. Franklin, Yuanyuan Guo, Haosen Fan, Mani Ulaganathan, Xing-Long Wu, Zhong-Zhen Luo, Srinivasan Madhavi*, Qingyu Yan*, Conversion of uniform graphene oxide/polypyrrole composites into functionalized 3D carbon nanosheet frameworks, *J. Power Sources* 2016, 307, 17. (IF=6.945)
- [17] **Huanwen Wang**, Yu Zhang, Xing-Long Wu, Haosen Fan, Zhong-Zhen Luo, Srinivasan Madhavi*, Qingyu Yan*, Molten Sodium-Induced Graphitization towards Highly Crystalline and Hierarchical Porous Graphene Frameworks, *2D Materials* 2015, 2, 035016. (IF=7.042)
- [16] Yufei Zhang[+], **Huanwen Wang**[+], Jun Yang, Haosen Fan, Yu Zhang, Zhengfei Dai, Yun Zheng, Wei Huang, Xiaochen Dong,*Qingyu Yan,* *Nano Research* 2017, 10, 4266. (共一) (IF=7.994)
- [15] Huixiang Ang.[+]**Huanwen Wang**[+] Bing Li, Yun Zong, Xuefeng Wang, Qingyu Yan, 3D Hierarchical Porous Mo₂C for Efficient Hydrogen Evolution, *Small*, 2016, 12, 2859. (共一) (IF=9.598)
- [14] Guichong Jia.[+]**Huanwen Wang**[+] Dongliang Chao, Haiyong He, Nguyen Huy Tiep, Yongqi Zhang, Zheng Zhang, Hong Jin Fan,* Ultrathin MoSe₂@N-doped Carbon Composite Nanospheres for Stable Na-Ion Storage, *Nanotechnology* 2017, 28, 42LT01. (共一) (IF=3.404)
- [13] Yu Zhang, **Huanwen Wang**, Zhongzhen Luo, Hui Teng Tan, Bing Li, Shengnan Sun, Zhong Li, Yun Zong, Zhichuan J. Xu, Yanhui Yang, Khiam Aik Khor, Qingyu Yan*, An air-stable densely packed phosphorene-graphene composite, *Advanced Energy Materials* 2016, 6, 1600453. (IF=21.875)
- [12] **Huanwen Wang**, Yalan Wang, Xuefeng Wang*. Pulsed laser deposition of the porous nickel oxide thin film for high-rate pseudocapacitive energy storage, *Electrochem. Commun.* 2012, 18, 92. (IF=4.660)
- [11] **Huanwen Wang**, Huan Yi, Xiao Chen, Xuefeng Wang*. Facile synthesis of a nano-structured nickel oxide electrode with outstanding pseudocapacitive properties, *Electrochimica Acta* 2013, 105, 353. (IF=5.116)
- [10] **Huanwen Wang**, Zhong-Ai Hu*, Yan-Qin Chang, Yan-Li Chen, Zi-Qiang Lei, Zi-Yu Zhang, Yu-Ying Yang. Facile solvothermal synthesis of a graphene nanosheet-bismuth oxide composite and its electrochemical characteristics. *Electrochimica Acta* 2010, 55, 8974. (IF=5.116)
- [9] **Huanwen Wang**, Hui Teng Tan, Huan Yi, Yu Zhang, Guilue Guo, Xuefeng Wang,* Srinivasan Madhavi*, Qingyu Yan, Integrating three-dimensional graphene/Fe₃O₄@C composite and mesoporous Co(OH)₂ nanosheets arrays/graphene
- [8] **Huanwen Wang**, Yalan Wang, Xuefeng Wang*. Pulsed laser deposition of large-area manganese oxide nanosheet arrays for high-rate supercapacitors, *New J. Chem.* 2013, 37, 869. (IF=3.201)

[7] **Huanwen Wang**, Zhong-Ai Hu*, Yan-Qin Chang, Yan-Li Chen, Zi-Yu Zhang, Yu-Ying Yang, Hong-Ying Wu. Preparation of reduced graphene oxide/cobalt oxide composites and their enhanced capacitive behaviors, *Materials Chemistry and Physics* 2011, 130, 672. (IF=2.21)

[6] **Huanwen Wang**, Hong Ying Wu, YanQin Chang, YanLi Chen, ZhongAi Hu*. Tert-butylhydroquinone-decorated graphene nanosheets, *Chinese Sci Bull* 2011, 56, 2092.

[5] Yan-Li Chen, Zhong-Ai Hu,* Yan-Qin Chang, **Huanwen Wang**, Zi-Yu Zhang, Yu-Ying Yang, Hong-Ying Wu, Zinc Oxide/Reduced Graphene Oxide Composites, *J. Phys. Chem. C*, 2011, 115, 2563. (IF=4.484)

[4] Xiao Chen, **Huanwen Wang**, Huan Yi, Xuefeng Wang*, Xingru Yan, Zhanhu Guo*, Anthraquinone on Carbon Nanotubes with Improved Supercapacitor Performance, *J. Phys. Chem. C* 2014, 118, 8262. (IF=4.484)

[3] Huan Yi, **Huanwen Wang**, Yuting Jing, Tianquan Peng, Yiran Wang, Jiang Guo, Qingliang He, Zhanhu Guo*, Xuefeng Wang*, Advanced asymmetric supercapacitors based on CNT@Ni(OH)₂ core-shell composites and 3D graphene networks, *J. Mater. Chem. A*, 2015, 3, 19545. (IF=9.931)

[2] Huan Yi, **Huanwen Wang**, Yuting Jing, Tianquan Peng, Xuefeng Wang*, Asymmetric supercapacitors based on carbon nanotubes@NiO ultrathin nanosheets core-shell composites and MOF-derived porous carbon polyhedrons with super-long cycle life, *Journal of Power Sources* 2015, 285, 281.

[1] Tianquan Peng, Huan Yi, Peng Sun, Yuting Jing, Ruijing Wang, **Huanwen Wang**, Xuefeng Wang*, In-situ Growth of Binder-free CNTs@Ni-Co-S Nanosheet Core/Shell Hybrids on Ni Mesh for High Energy Density Asymmetric Supercapacitors, *J. Mater. Chem. A*, 2016, 4, 8888. (IF=6.945)

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研究方向

Research Focus

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超级电容器(super capacitor)、锂/钠/钾/锌离子电池(Li/Na/K/Zn ion battery)、混合金属离子电容器(hybrid ion super capacitor)、电催化(HER, OER, ORR)

团队介绍

Research Group

能源与环境材料实验室

实验室团队目前有1名教授, 3名副教授, 16名研究生