

# PUBLICATIONS

**Qiang XU**

## BOOKS

- 1) **Qiang Xu** <Editor>, “Nanoporous Materials: Synthesis and Applications”, Taylor and Francis (CRC Press), **2013**, 366 pages.
- 2) **Qiang Xu**, Tetsuhiko Kobayashi <Editors>, “Advanced materials for clean energy”, Taylor and Francis (CRC Press), **2014**, 617 pages.

## EDITED JOURNAL SPECIAL ISSUES

- 1) **Qiang Xu**, Kevin .C-W. Wu, Yusuke Yamauchi <Editors>, “Focus on nanospace materials”, *Science and Technology of Advanced Materials*, Volume 16, Issue 5 (October 2015).
- 2) Roger Guilard, Gerhard Erker, Paul Raithby, **Qiang Xu** <Editors>, “The diversity of coordination chemistry – A special issue in honor of Prof. Pierre Braunstein - Part I”, *Coordination Chemistry Reviews*, Volume 350, Pages 1-340 (1 November 2017).
- 3) Roger Guilard, Gerhard Erker, Paul Raithby, **Qiang Xu** <Editors>, “The diversity of coordination chemistry – A special issue in honor of Prof. Pierre Braunstein - Part II”, *Coordination Chemistry Reviews*, Volume 355, Pages 1-404 (15 January 2018).
- 4) **Qiang Xu** <Editor>, “Coordination Chemistry for Energy”, *Coordination Chemistry Reviews*, Volume 373, Pages 1-356 (15 October 2018).
- 5) **Qiang Xu**, Hiroshi Kitagawa <Editors>, “MOFs: New Useful Materials – A Special Issue in Honor of Prof. Susumu Kitagawa”, *Advanced Materials*, in press (2018).
- 6) Stefan Kaskel, Matthias Beller, Gerhard Erker, **Qiang Xu** <Editors>, “Coordination Chemistry in Germany”, *Coordination Chemistry Reviews*, in edition.
- 7) Masahiro Yamashita, **Qiang Xu** <Editors>, “Special Issue of 43rd International Conference on Coordination Chemistry (ICCC2018)”, *Coordination Chemistry Reviews*, in edition.
- 8) Shane Telfer, **Qiang Xu** <Editors>, “Special Issue of The 6th International Conference on Metal-Organic Frameworks & Open Framework Compounds”, *Coordination Chemistry Reviews*, in edition.

- 9) **Qiang Xu**, Jorge Gascon, Wei Zhang, Hermenegildo Garcia, Guangchen Xu <Editors>, “Nanostructured materials for catalysis”, *Small Methods*, in edition.
- 10) Tetsuhiko Kobayashi, Haruhiko Obara, **Qiang Xu** <Editors>, “Energy Research in AIST”, *Advanced Energy Materials*, in edition.

## JOURNAL PAPERS

1. Chun-Chao Hou, **Qiang Xu**,\* “Metal-Organic Frameworks for Energy”, *Adv. Energy Mater.*, in press.
2. Bingjun Zhu, Ruqiang Zou,\* **Qiang Xu**,\* “Metal–Organic Framework Based Catalysts for Hydrogen Evolution”, *Adv. Energy Mater.*, in press.
3. Xiaxia Li, Shasha Zheng, Ling Jin, Yan Li, Pengbiao Geng, Huaiguo Xue, Huan Pang,\* **Qiang Xu**,\* “Metal-Organic Framework-Derived Carbons for Battery Applications”, *Adv. Energy Mater.*, in press.
4. Zibin Liang, Chong Qu, Dingguo Xia, Ruqiang Zou,\* **Qiang Xu**,\* “Atomically Dispersed Metal Sites in MOF-Based Materials for Electrocatalytic and Photocatalytic Energy Conversion”, *Angew. Chem. Int. Ed.*, in press.
5. Zibin Liang, Chong Qu, Wenhan Guo, Ruqiang Zou,\* **Qiang Xu**,\* “Pristine Metal-organic frameworks and their composites for energy storage and conversion”, *Adv. Mater.*, in press.
6. Long Jiao, Yang Wang, H.-L. Jiang,\* **Qiang Xu**,\* “Metal-Organic Frameworks as Platforms for Catalytic Applications”, *Adv. Mater.*, in press.
7. Qi-Long Zhu, Pradip Pachfule, Patrick Strubel, Zhangpeng Li, Ruqiang Zou,\* Zheng Liu, Stefan Kaskel,\* **Qiang Xu**,\* “Fabrication of Nitrogen and Sulfur Co-Doped Hollow Cellular Carbon Nanocapsules as Efficient Electrode Materials for Energy Storage”, *Energy Storage Mater.*, **13**, 72-79 (2018).
8. Heng Zhong, Masayuki Iguchi, Maya Chatterjee, Takayuki Ishizaka, Mitsunori Kitta, **Qiang Xu**, Hajime Kawanami\*, “Interconversion between CO<sub>2</sub> and HCOOH under Basic Conditions Catalyzed by PdAu Nanoparticles Supported by Amine- Functionalized Reduced Graphene Oxide as a Dual Catalyst”, *ACS Catal.*, **8**(6), 5355–5362 (2018)
9. Xinran Li, Jilei Wei, Qing Li, Shasha Zheng, Yuxia Xu, Pan Du, Changyun Chen, Jiyang Zhao, Huaiguo Xue, **Qiang Xu**,\* and Huan Pang,\* “Nitrogen-Doped Cobalt Oxide Nanostructures Derived from

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10. Qi-Long Zhu, Fu-Zhan Song, Qiu-Ju Wang, Nobuko Tsumori, Yuichiro Himeda, Tom Autrey, **Qiang Xu**,\* “A Solvent-Switched In Situ Confinement Approach for Immobilizing Highly-Active Ultrafine Palladium Nanoparticles: Boosting Catalytic Hydrogen Evolution”, *J. Mater. Chem. A*, **6**(14), 5544–5549 (2018).
11. Nobuko Tsumori,\* Liyu Chen, Qiuju Wang, Qi-Long Zhu, Mitsunori Kitta, **Qiang Xu**,\* “Quasi-MOF: Exposing Inorganic Nodes to Guest Metal Nanoparticles for Drastically Enhanced Catalytic Activity”, *Chem*, **4**(4), 845–856 (2018).
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13. Xinchun Yang, **Qiang Xu**,\* “Ru Nanoparticles Confined within a Coordination Cage”, *Chem*, **4**(3) 403-404 (2018).
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17. Song Dang, Qi-Long Zhu, **Qiang Xu**,\* “Nanomaterials derived from metal-organic frameworks”, *Nat. Rev. Mater.*, **3** (1), 17075 (2018).
18. Lars Borchardt,\* Qi-Long Zhu, Mirian E. Casco, Reinhard Berger, Xiaodong Zhuang, Stefan Kaskel, Xinliang Feng, **Qiang Xu**, “Towards a molecular design of porous carbon materials”, *Mater. Today*, **20** (10), 592–610 (2017).
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