Yanfeng Yue PhD

Assistant Professor of Chemistry
Department of Biology, Geology, and Physical Science
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Work Experiences and Education

Sul Ross State University, Alpine, TX, United States
Assistant Professor — Aug. 2016 – Present
Visiting Assistant Professor — Aug. 2015 – Aug. 2016
Oak Ridge National Laboratory, TN, United States
Postdoctoral Research Associate — Dec. 2011 – Aug. 2015
University of Texas at San Antonio, TX, United States
Postdoctoral Research Associate — Dec. 2010 – Dec. 2011
Capital Medical University (China) — Nov. 2009 – Dec. 2010
Lecturer
University of Liverpool, Liverpool, United Kingdom
Postdoctoral Fellow — July 2008 – Nov. 2009
Peking University, China Ph.D — July 2008
Qufu Normal University, China Master of Science — July 2004
Jining College, China Associate Degree — July 1998

Research Interests --- Functional Porous Materials

- High surface area microporous carbon fiber based supercapacitors
- Nanoporous electrode materials for Li-ion battery
- Microporous carbon nanocomposites for Li-S battery
- Mesoporous metal oxides and sulfides for catalysis
- Mesoporous adsorbents for heavy metal ions adsorption

Courses Teaching

- *Inorganic Chemistry* (Catherine E. Housecroft, 4th Ed.)
- *Analytical Chemistry* (Daniel C. Harris, 9th Ed.)
- *General Chemistry* (Raymond Chang, 6th Ed.)

Publications

(1) Eugene Mamontov, **Yanfeng Yue**, Jitendra Bahadur, Cristian I. Contescu, Nidia C. Gallego and Yuri B. Melnichenko, "Hydration level dependence of the microscopic dynamics of water adsorbed in ultra-microporous carbon", *Carbon*, **2017**, *111*, 705.

(2) **Yanfeng Yue**, Yunchao Li, Craig A. Bridges, Gernot Rother, Jinshui Zhang, Jihua Chen, Dale K. Hensley, Michelle K. Kidder, Bruce C. Richardson, Mariappan Parans Paranthaman, and Sheng Dai, "Hierarchically Superstructured Metal Sulfides: Facile Perturbation-Assisted Nanofusion Synthesis and Visible Light Photocatalytic Characterizations", *ChemNanoMat*, **2016**, *2*, 1104.

(3) **Yanfeng Yue**, Li Zhang, Jihua Chen, Dale K. Hensley, Sheng Dai and Steven H. Overbury, "Mesoporous $xEr_2O_3 \cdot CoTiO_3$ Composite Oxide Catalysts for Low Temperature Dehydrogenation of Ethylbenzene to Styrene by Using CO_2 as a Soft Oxidant", *RSC Adv*., **2016**, *6*, 32989.

(4)**Yanfeng Yue**, Chenxi Zhang, Qing Tang, Richard T Mayes, Wei-Po Liao, Chen Liao, Costas Tsouris, Joseph Stankovich, Jihua Chen, Dale K. Hensley, Carter Abney, De-en Jiang, Suree Brown and Sheng Dai, "A Poly(acrylonitrile)-Functionalized Porous Aromatic Framework

Synthesized by Atom-Transfer Radical Polymerization for Extraction of Uranium from Seawater", *Ind. Eng. Chem. Res*., **2016**, *55*, 4125. Special issue in seawater uranium mining.

(5) Suree Brown, **Yanfeng Yue**, Li-Jung Kuo, Nada Mehio, Meijun Li, Gary Gill, Costas Tsouris, Richard T. Mayes, Tomonori Saito and Sheng Dai, "Uranium Adsorbent Fibers Prepared by Atom-Transfer Radical Polymerization (ATRP) from Poly(vinyl chloride)-co-chlorinated poly(vinyl chloride) (PVC-co-CPVC) Fiber", *Ind. Eng. Chem. Res*., **2016**, *55*, 4139. Special issue in seawater uranium mining.

(6) Suree Brown, Sabornie Chatterjee, Meijun Li, **Yanfeng Yue**, Costas Tsouris, Christopher J. janke, Tomonori Saito and Sheng Dai, "Uranium Adsorbent Fibers Prepared by Atom-Transfer Radical Polymerization from Chlorinated Polypropylene and Polyethylene Trunk Fibers", *Ind. Eng. Chem. Res*., **2016**, *55*, 4130. Special issue in seawater uranium mining.

(7) **Yanfeng Yue**, Zhiyong Zhang, Andrew J. Binder, Jihua Chen, Xianbo Jin, Steven H. Overbury and Sheng Dai, "Hierarchically Superstructured Prussian Blue Analogues: Spontaneous Assembly Synthesis and Applications as Pseudocapacitive Materials", *ChemSusChem*, **2015**, *8*, 177.

(8) **Yanfeng Yue**, Jeremy A. Rabone, Hongjun Liu, Shannon M. Mahurin, Man-Rong Li, Hailong Wang, Zhengliang Lu, Banglin Chen, Jihang Wang, Youxing Fang, and Sheng Dai, "A Flexible Metal-Organic Framework: Guest Molecules Controlled Dynamic Gas Adsorption", *J. Phys. Chem. C*, **2015**, *119*, 9442.

(9) **Yanfeng Yue**, Yunchao Li, Zhonghe Bi, Gabriel M. Veith, Craig A. Bridges, Bingkun Guo, Jihua Chen, David R. Mullins, Sumedh P. Surwade, Shannon M. Mahurin, Hongjun Liu, M. Parans Paranthaman and Sheng Dai, "A POM–Organic Framework Anode for Li-Ion Battery", *J. Mater. Chem. A*, **2015**, *3*, 22989.

(10) **Yanfeng Yue**, Nada Mehio, Andrew J. Binder and Sheng Dai, "Synthesis of Metal-Organic Framework Particles and Thin Films *via* Nanoscopic Metal Oxide Precursors", *CrystEngComm*, **2015**, *17*, 1728. (invited *Highlight* paper).

(11) **Yanfeng Yue**, Pasquale F. Fulvio and Sheng Dai, "Hierarchical Metal-Organic Framework Hybrids: Perturbation-Assisted Nanofusion Synthesis", *Acc. Chem. Res*., **2015**, *48*, 3044.

(12) **Yanfeng Yue,** Richard T. Mayes, Gary Gill, Li-Jung Kuo, Jordana Wood, Andrew Binder, Suree Brown and Sheng Dai, "Macroporous Monoliths for Trace Metal Extraction from Seawater", *RSC Adv.*, **2015**, *5*, 50005.

(13) **Yanfeng Yue**, Andrew J. Binder, Bingkun Guo, Zhiyong Zhang, Zhen-An Qiao, Chengcheng Tian and Sheng Dai, "Mesoporous Prussian Blue Analogues: Template-Free Synthesis and Na-Ion Battery Applications", *Angew. Chem. Int. Ed*., **2014**, *53*, 3134.

(l4) **Yanfeng Yue**, Bingkun Guo, Zhen-An Qiao, Pasquale F. Fulvio, Jihua Chen, Andrew J. Binder, Chengcheng Tian and Sheng Dai, "Multi-Wall Carbon Nanotube@Zeolite Imidazolate Framework Composite from Nanoscale Zinc Oxide Precursor", *Micro. Meso. Mater*., **2014**, *198*, 139.

(15) **Yanfeng Yue**, Andrew J. Binder, Ruijing Song, Yuanjing Cui, Jihua Chen, Dale K. Hensley and Sheng Dai, "Encapsulation of Large Dye Molecules in Hierarchically Superstructured Metal–Organic Frameworks", *Dalton Trans.,* **2014***, 43*, 17893. Highlighted: "Hierarchical Functionality in MOF Structures" by Editor, *Dalton Trans.*, **2014**.

(16) **Yanfeng Yue**, Richard T. Mayes, Jungseung Kim, Pasquale F. Fulvio, Xiao-Guang Sun, Costas Tsouris, Jihua Chen, Suree Brown and Sheng Dai, "Seawater Uranium Sorbents: Preparation from Mesoporous Copolymer Initiator Based on Atom Transfer Radical Polymerization", *Angew. Chem. Int. Ed.*, **2013**, *52*, 13458. Highlighted: "Coordination Chemistry in Ocean." Yi Lu. *Nature Chemistry*, **2014**, *6*, 175.

(17) **Yanfeng Yue**, Xiao-Guang Sun, Richard T. Mayes, Jungseung Kim, Pasquale F. Fulvio, Zhen-An Qiao, Suree Brown, Costas Tsouris, Yatsandra Oyola and Sheng Dai, " Polymer-Coated Nanoporous Carbons for Trace Seawater Uranium Adsorption", *Sci. China Chem.*, **2013**, *56*, 1510.

(18) **Yanfeng Yue**, Zhen-An Qiao, Pasquale F. Fulvio, Andrew J. Binder, Chengcheng Tian, Jihua Chen, Kimberly M. Nelson, Xiang Zhu and Sheng Dai, "Template-Free Synthesis of

Hierarchical Porous Metal–Organic Frameworks", *J. Am. Chem. Soc.*, **2013**, *135*, 9572.
(19) **Yanfeng Yue**, Zhen-An Qiao, Xufan Li, Andrew J. Binder, Eric Formo, Zhengwei Pan, Chengcheng Tian, Zhonghe Bi and Sheng Dai, "Nanostructured Zeolitic Imidazolate Frameworks Derived from Nanosized Zinc Oxide Precursors", *Cryst. Growth & Des.,* **2013***, 13*, 1002.
(20) Yuanjing Cui, **Yanfeng Yue**, Guodong Qian and Banglin Chen, "Luminesent Functional Metal-Organic Frameworks", *Chem. Rev*., **2012**, *112*, 1126.
(21) Yun-Shan Xue, Yabing He, Shi-Bin Ren, **Yanfeng Yue**, Le Zhou, Jun Zhang, Yi-Zhi Li, Hong-Bin Du, Xiao-Zeng You and Banglin Chen, "A Robust Microporous Metal–Organic Framework Constructed from a Flexible Organic Linker for Acetylene Storage at Ambient Temperature", *J. Mater. Chem*., **2012**, *22*, 10195.
(22) Yuanjing Cui, Hui Xu, **Yanfeng Yue**, Zhiyong Guo, Jiancan Yu, Zhenxia Chen, Junkuo Gao, Yu Yang, Guodong Qian, Banglin Chen, "A Luminescent Mixed-Lanthanide Metal-Organic Framework Thermometer", *J. Am. Chem. Soc.*, **2012**, *134*, 3979.
(23) Madhab C. Das, Hui Xu, Zhiyu Wang, Gadipelli Srinivas, Wei Zhou, **Yan-Feng Yue**, Vladimir N. Nesterov, Guodong Qian and Banglin Chen, "A Zn4O-Containing Doubly Interpenetrated Porous Metal–Organic Framework for Photocatalytic Decomposition of Methyl Orange" *Chem. Comm.*, **2011**, *47*, 11715.
(24) Ning Li, Guifeng Kang, Lin Gui, Ming Zhao, Wenjing Wang, Jianwei Zhang, **Yan-Feng Yue**, Shiqi Peng, "Novel Cu(II)-RGD-octapeptides: Synthesis, Coordination Mode, *in vitro* Anti-Platelet Aggregation/*in vivo* Anti-Thrombotic Evaluation and Correlation of Sequence with Nano-Structure" *Nanomedicine*, **2011**, *7*, 403.
(25) J. Rabone, **Yan-Feng Yue**, S. Y. Chong, K. C. Stylianou, J. Bacsa, D. Bradshaw, G. R. Darling, N. G. Berry, Y. Z. Khimyak, A. Y. Ganin, P. Wiper, J. B. Claridge, M. J. Rosseinsky, "An Adaptable Peptide-Based Porous Material", *Science*, **2010**, *329*, 1053.
(26) Xiao-Fei Fu, **Yan-Feng Yue**, Rui Guo, Le-Le Li, Wei Sun, Chen-Jie Fang, Chun-Hu Xu and Chun-Hua Yan, "An Enhanced Fluorescence in a Tunable Face-To-Face Stacking Assembly Directed by the H-Bonding", *CrystEngComm*, **2009**, *11*, 2268.
(27) **Yan-Feng Yue**, Jue Liang, En-Qing Gao, Chen-Jie Fang, Zheng-Guang Yan and Chun-Hua Yan, "Supramolecular Engineering of 2D Kagomé Lattice: Synthesis, Structures and Magnetic Properties", *Inorg. Chem.,* **2008***, 47*, 6115.
(28) **Yan-Feng Yue**, Chen-Jie Fang, En-Qing Gao, Cheng He, Shi-Qiang Bai, Sheng Xu and Chun-Hua Yan, "Four Thiocyanato-Bridged Cadmium(II) Polymeric Complexes Based on Open Chain Diazine Ligands", *J. Mol. Struct.*, **2008**, *875*, 80.
(29) **Yan-Feng Yue**, En-Qing Gao, Chen-Jie Fang, Tao Zheng, Jue Liang and Chun-Hua Yan, "Three Azido-Bridged Mn(II) Complexes Based on Open-Chain Diazine Schiff-Base Ligands: Crystal Structures and Magnetic Properties", *Cryst. Growth & Des*., **2008**, *8*, 3295.
(30) **Yan-Feng Yue**, Chen-Jie Fang, En-Qing Gao, Tao Zheng and Chun-Hua Yan, "The Crystal Structures of Four Azido-Bridged Zn(II) Complexes Based on Bis(bidentate) Diazine Ligands", *CrystEngComm*, **2008**, *10*, 614.
(31) **Yan-Feng Yue**, Wei Sun, En-Qing Gao, Chen-Jie Fang, Sheng Xu and Chun-Hua Yan, "Syntheses and Crystal Structures of Three Mn(II) Complexes with 2-Hydroxynicotinate", *Inorg. Chim. Acta*, **2007**, *360*, 1466.
(32) Ai-Ling Cheng, Na Liu, **Yan-Feng Yue**, Yong-Wen Jiang, En-Qing Gao, Chun-Hua Yan and Ming-Yuan He, "Unprecedented 3D Entanglement of 1D Zigzag Coordination Polymers Leading to a Robust Microporous Framework", *Chem. Comm.*, **2007**, 407.
(33) **Yan-Feng Yue**, En-Qing Gao, Chen-Jie Fang, Sheng Xu and Chun-Hua Yan, "Structures and/or Mmagnetic Properties of Three 1D Ladder-Type Manganic and Cadmium Compounds with Bis(bidentate) Open Chain Diazine Schiff-base Ligands", *J. Mol. Struct.*, **2007**, *841*, 67.
(34) Zhan-Xian Li, Wei Sun, **Yan-Feng Yue**, Ming-Hua Zheng, Chun-Hu Xu, Jing-Yi Jin, Chen-Jie Fang and Chun-Hua Yan, "Synthesis of a Solvent-Sensitive Highly Fluorescent Derivative of

Perfluorocyclopentene", *Tetra. Lett.*, **2007**, *48*, 7675.

(35) **Yan-Feng Yue**, Bing-Wu Wang, En-Qing Gao, Chen-Jie Fang, Cheng He and Chun-Hua Yan, "A Novel Three-Dimensional Heterometallic Compound: Templated Assembly of the Unprecedented Planar "Na⊂[Cu4]" Metalloporphyrin-Like Subunits", *Chem. Comm.*, **2007**, 2034.

(36) **Yan-Feng Yue**, En-Qing Gao, Chen-Jie Fang, Zheng He, Shi-Qiang Bai and Chun-Hua Yan, "Crystal Structures and Magnetic Properties of Triple Helical Binuclear Complexes with Bis(bidentate) Diazine Ligands", *Polyhedron*, **2006**, *25*, 2778.

(37) Shi-Qiang Bai, En-Qing Gao, Zheng He, Chen-Jie Fang, **Yan-Feng Yue** and Chun-Hua Yan, "Manganese-Azides Based on Flexible Tail Co-ligands: Diverse Structural and Magnetic Properties", *Eur. J. Inorg. Chem.*, **2006**, 407.

(38) En-Qing Gao, **Yan-Feng Yue**, Shi-Qiang Bai, Zheng He and Chun-Hua Yan, "One-Dimensional Copper(II) Complexes Containing Only Single End-On Azido Bridges: Crystal Structures and Magnetic Properties", *Cryst. Growth & Des.*, **2005**, *5*, 1119.

(39) En-Qing Gao, **Yan-Feng Yue**, Shi-Qiang Bai, Zheng He, Shi-Wei Zhang and Chun-Hua Yan, "New Two-Dimensional Manganese(II)-Azido Polymers with Bidentate Coligands: Structure and Magnetic Properties", *Chem. Mater.*, **2004**, *16*, 1590.

(40) En-Qing Gao, **Yan-Feng Yue**, Shi-Qiang Bai, Zheng He and Chun-Hua Yan, "From Achiral Ligands to Chiral Coordination Polymers: Spontaneous Resolution, Weak Ferromagnetism, and Topological Ferrimagnetism", *J. Am. Chem. Soc.*, **2004**, *126*, 1419.

(41) **Yan-Feng Yue**, En-Qing Gao, Shi-Qiang Bai, Zheng He and Chun-Hua Yan, "High-Dimensional Azido-Bridged Cadmium(II) Polymeric Complexes with Bis(bidentate) Diazine Ligands", *CrystEngComm*, **2004**, *6*, 549.

(42) En-Qing Gao, Shi-Qiang Bai, Chuan-Feng Wang, **Yan-Feng Yue** and Chun-Hua Yan, "Structural and Magnetic Properties of Three One-Dimensional Azido-Bridged Copper(II) and Manganese(II) Coordination Polymers", *Inorg. Chem.*, **2003**, *42*, 8456.

(43) En-Qing Gao, Shi-Qiang Bai, **Yan-Feng Yue**, Zhe-Ming Wang and Chun-Hua Yan, "New One-Dimensional Azido-Bridged Manganese(II) Coordination Polymers Exhibiting Alternating Ferromagnetic-Antiferromagnetic Interactions: Structural and Magnetic Studies", *Inorg. Chem.*, **2003**, *42*, 3642.

Book Chapters

(1) "*General Chemistry*," Chapter 13, *Chemistry of Coordination Compounds*, Ed., Ming Zhao, Higher Education Press, Beijing, 2012.

(2) "*Coordination Chemistry—Principles and Applications*," Chapter 5, *Molecular Magnetism*, Ed., Hui Zhang, Chemical Industrial Press, Beijing, 2009.

Conference Proceedings

(1) **Yanfeng Yue**, Bruce C. Richardson, Jesus Guerrero, "*CuO@HKUST-1: facile one-pot synthesis and applications as pseudocapacitive materials*", ACS 51st Midwest Regional Meeting, Manhattan, KS, October 26–28, 2016.

(2) Nidia C. Gallego, Cristian I. Contescu, Daniel C Webb, **Yanfeng Yue**, Pasquale F Fulvio, "*Production and characterization of lignin-based activated carbon fibers*", Carbon 2016 – The World Conference on Carbon, State College, PA, July 10–15, 2016.

(3) **Yanfeng Yue**, Nidia C. Gallego, Cristian I. Contescu, "*High yield process for Lignin-based activated carbon fibers*", American Carbon Society's Workshop on Carbon Fibers and Their Composites, Oak Ridge, TN, April 16–17, 2015.

(4) **Yanfeng Yue**, Richard T. Mayes, Jungseung Kim, Costas Tsouris, Suree Brown, Sheng Dai, "*Porous polymeric adsorbents for the recovery of uranium from seawater*", the 249th ACS National Meeting & Exposition in Denver, CO, March 22–26, 2015.

(5) **Yanfeng Yue**, Pasquale F. Fulvio, Suree Brown, Richard T. Mayes, Xiao-Guang Sun, Sheng Dai,

"*Isolating trace seawater uranium with polymer functionalized porous carbon*", the 244th ACS National Meeting, Philadelphia, PA, August 19–23, 2012.

(6) **Yanfeng Yue**, Jue Liang, Chen-Jie Fang, En-Qing Gao, Chun-Hua Yan, "*Crystal structures of two three-dimensional coordination polymers*", the 25th Annual Meeting of the Chinese Chemical Society, Changchun, P. R. China, July 11–15, 2006.

(7) **Yanfeng Yue**, Sheng Xu, Chen-Jie Fang, En-Qing Gao, Chun-Hua Yan, "*Crystal Structures of Three-dimensional thiocyanat-bridged cadmium(II) polymeric complexes based on open chain diazine ligands*", the 8th National Conference of Bioinorganic Chemistry, Guangzhou, P. R. China, November 18–22, 2005.

Professional Affiliations

(1) American Chemical Society	2012 – Present
(2) The American Carbon Society	2015 – Present
(3) Royal Society of Chemistry	2015 – Present
(4) Sigma Xi Scientific Research Society	2016 – Present