

# Jun Zhang

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## Education

2016 – 2019	Ph.D. Chemistry,	Tohoku University (Japan),	Advisor: Hitoshi Miyasaka
2014 – 2016	M.S. Chemistry,	Tohoku University (Japan),	Advisor: Hitoshi Miyasaka
2009 – 2013	B.S. Applied Chemistry,	Nanjing University of Aeronautics and Astronautics (China)	

## Professional Appointments

2023/02 – present,	Professor,	Wuhan University
2021/01 – 2023/01,	Assistant Professor,	Tohoku University
2019/10 – 2020/12,	Postdoctoral Fellow,	Tohoku University

## Research Experience

2021/01 – 2023/01	Assistant Professor	Tohoku University, Miyasaka Laboratory
2019/10 – 2020/12	Postdoctoral Fellow	Tohoku University, Miyasaka Laboratory
2016/10 – 2019/09	Ph.D. Dissertation	Tohoku University, Miyasaka Laboratory
2014/10 – 2016/09	Master Degree Thesis	Tohoku University, Miyasaka Laboratory

## Honors and Awards

### Distinguished Research Fellow of Tohoku University

Tohoku University, 2021, Sendai, Japan

### Best Poster Award

International Symposium on Materials Science and Spintronics, 2021, Sendai, Japan

### Chinese Government Award for Outstanding Self-financed Students Abroad

The Chinese Government, 2019, Tokyo, Japan

**Student Speech Award**  
The 68th Conference of Japan Society of Coordination Chemistry, 2018, Sendai, Japan

### Rising Star Award

The 43th International Conference of Coordination Chemistry, 2018, Sendai, Japan

### Student Speech Award

The 98th Annual Meeting of the Chemical Society of Japan, 2018, Chiba, Japan

### JSPS Fellowship

Japan Society for the Promotion of Science, 2017, Sendai, Japan

### Tohoku University President Fellowship

## Selected Publications

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1. Jun Zhang, Wataru Kosaka, Qingxin Liu, Naoka Amamizu, Yasutaka Kitagawa, and Hitoshi Miyasaka\*. "CO<sub>2</sub>-Sensitive Porous Magnet: Antiferromagnet Creation from a Paramagnetic Charge-Transfer Layered Metal-Organic Framework", **Journal of the American Chemical Society**, 2023, 145, 48, 26179–26189.
2. Wataru Kosaka, Yoshie Hiwatashi, Naoka Amamizu, Yasutaka Kitagawa, Jun Zhang, and Hitoshi Miyasaka\*. "Densely Packed CO<sub>2</sub> Aids Charge, Spin, and Lattice Ordering Partially Fluctuated in a Porous Metal-Organic Framework Magnet", **Angewandte Chemie International Edition**, 2023, e202312205.  
[Selected as Hot Paper](#)
3. Jun Zhang, Wataru Kosaka, Yasutaka Kitagawa, Hitoshi Miyasaka\*. "A Host-Guest Electron Transfer Mechanism for Magnetic and Electronic Modifications in a Redox - Active Metal-Organic Framework", **Angewandte Chemie International Edition**, 2022, 134 (18), e202115976.  
[Selected as Back Cover](#)
4. Jun Zhang, Wataru Kosaka, Hiroyasu Sato, Hitoshi Miyasaka\*. "Magnet Creation by Guest Insertion into a Paramagnetic Charge-Flexible Layered Metal-Organic Framework", **Journal of the American Chemical Society**, 2021, 143 (18), 7021-7031.  
[Selected as Supplementary Cover](#)
5. Jun Zhang, Wataru Kosaka, Yasutaka Kitagawa, Hitoshi Miyasaka\*. "A metal-organic framework that exhibits CO<sub>2</sub>-induced transitions between paramagnetism and ferrimagnetism", **Nature Chemistry**, 2021, 13, 191–199.
6. Jun Zhang, Wataru Kosaka, Hitoshi Miyasaka\*. "Control of gas sorption gate-opening in solid solutions of one-dimensional coordination polymers", **Chemistry Letters**, 2019, 48, 1308–1311.  
[Selected as Editor's Choice and Inside Cover](#)
7. Jun Zhang, Wataru Kosaka, Yasutaka Kitagawa, Hitoshi Miyasaka\*. "Host-Guest Hydrogen Bonding Varies the Charge-State Behavior of Magnetic Sponges", **Angewandte Chemie International Edition**, 2019, 58, 7351–7356.  
[Highlighted as Hot Topic: Magnetic Materials in Wiley-VCH](#)
8. Jun Zhang, Wataru Kosaka, Susumu Kitagawa, Makaki Takata, Hitoshi Miyasaka\*. "In Situ Tracking of Dynamical NO Capture through a Crystal-to-Crystal Transformation from a Gate-Open-Type Chain Porous Coordination Polymer to an NO-Adducted Discrete Isomer", **Chemistry—A European Journal**, 2019, 25 (12), 3020–3031.  
[Selected as Very Important Paper \(VIP\) and Frontispiece](#)
9. Jun Zhang, Wataru Kosaka, Kuniyoshi Sugimoto, Hitoshi Miyasaka\*. "Magnetic Sponge Behavior via Electronic State Modulations", **Journal of the American Chemical Society**, 2018, 140 (16), 5644–5652.
10. Jun Zhang, Wataru Kosaka, Hiroki Fukunaga, Susumu Kitagawa, Masaki Takata, Hitoshi Miyasaka\*. "Regulation of NO Uptake in Flexible Ru Dimer Chain Compounds with Highly Electron Donating Dopants", **Inorganic Chemistry**, 2016, 55 (22), 12085–12092.
11. Jun Zhang, Mohammed A Gondal, Wei Wei, Taona Zhang, Qingyu Xu\*, Kai Shen\*. "Preparation of Room Temperature Ferromagnetic BiFeO<sub>3</sub> and its Application as a Highly Efficient Magnetic Separable Adsorbent for Removal of Rhodamine B from Aqueous Solution", **Journal of Alloys and Compounds**, 2012, 530 (9), 107–110.