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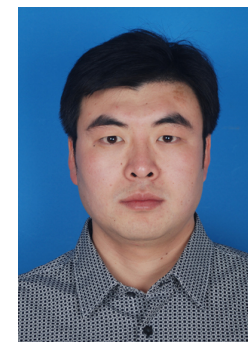
研究队伍

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简历:

2015年于日本京都大学工学院获得博士学位, 导师为Tsunehiro Tanaka教授。博士毕业后在日本东京大学和信州大学进行博士后研究工作, 师从国际著名的光催化分解水制氢专家Kazunari Domen教授, 并在日本新能源产业技术综合开发机构支持的人工光合成核心项目中担任特任研究员。2019年入职中国科学院生态环境研究中心, 主要从事基于光(电/热)催化转化的温室气体资源化利用和分解水制氢研究。近年来, 在*Nature Catalysis*, *Nature Materials*, *Chemical Society Reviews*, *Angewandte Chemie International Edition*等国际知名学术期刊上发表20余篇学术论文, 并获得授权日本专利2项。

研究方向:

基于光(电/热)催化转化的温室气体资源化利用和分解水制氢研究

专家类别:

高级

代表论著:

- [1] **Zheng Wang**, Yasunobu Inoue, Takashi Hisatomi, Ryo Ishikawa, Qian Wang, Tsuyoshi Takata, Shanshan Chen, Naoya Shibata, Yuichi Ikuhara, Kazunari Domen*. Overall Water Splitting by Ta₃N₅ Nanorod Single Crystals Grown on the Edges of KTaO₃ Particles. **Nature Catalysis**, 2018, 1(10), 756-763.
- [2] **Zheng Wang**, Can Li, Kazunari Domen*. Recent Developments in Heterogeneous Photocatalysts for Solar-driven Overall Water Splitting. **Chemical Society Reviews**, 2019, 48(7), 2109-2125.
- [3] **Zheng Wang**, Kentaro Teramura*, Zeai Huang, Saburo Hosokawa, Yoshihisa Sakata, Tsunehiro Tanaka*. Tuning the Selectivity toward CO Evolution in the Photocatalytic Conversion of CO₂ with H₂O through the Modification of Ag-loaded Ga₂O₃ with a ZnGa₂O₄ Layer. **Catalysis Science & Technology**, 2016, 6(4), 1025-1032. (Back Cover)
- [4] **Zheng Wang**, Kentaro Teramura*, Saburo Hosokawa, Tsunehiro Tanaka*. Highly Efficient Photocatalytic Conversion of CO₂ into Solid CO using H₂O as a Reductant over Ag-modified ZnGa₂O₄. **Journal of Materials Chemistry A**, 2015, 3(21), 11313-11319. (2015 Journal of Materials Chemistry A Hot Paper)

- [5] **Zheng Wang**, Kentaro Teramura*, Saburo Hosokawa, Tsunehiro Tanaka*. Photocatalytic Conversion of CO₂ in Water over Ag-modified La₂Ti₂O₇. **Applied Catalysis B: Environmental**, 2015, 163, 241-247.
- [6] Kentaro Teramura*, **Zheng Wang**, Saburo Hosokawa, Yoshihisa Sakata, Tsunehiro Tanaka*. A Doping Technique that Suppresses Undesirable H₂ Evolution Derived from Overall Water Splitting in the Highly Selective Photocatalytic Conversion of CO₂ in and by Water. **Chemistry-A European Journal**, 2014, 20(32), 9906-9909.
- [7] **Zheng Wang**, Kentaro Teramura*, Tetsuya Shishido, Tsunehiro Tanaka*. Characterization of Cu Nanoparticles on TiO₂ Photocatalysts Fabricated by Electroless Plating Method. **Topic in Catalysis**, 2014, 57(10-13), 975-983.
- [8] Qian Wang, Mamiko Nakabayashi, Takashi Hisatomi, Song Sun, Seiji Akiyama, **Zheng Wang**, Zhenhua Pan, Xiong Xiao, Tomoaki Watanabe, Taro Yamada, Naoya Shibata, Tsuyoshi Takata, Kazunari Domen*. Oxysulphide Photocatalyst for Visible-light-driven Overall Water Splitting. **Nature Materials**, 2019, 18(8), 827-832.
- [9] Xin Wang, Takashi Hisatomi, **Zheng Wang**, Jun Song*, Junle Qu, Tsuyoshi Takata, Kazunari Domen*. Core-shell-structured LaTaON₂ Transformed from LaKNaTaO₅ Plates for Enhanced Photocatalytic H₂ Evolution. **Angewandte Chemie International Edition**, 2019, 58(31), 10666-10670.
- [10] Dharmapura Murthy, Hiroyuki Matsuzaki*, **Zheng Wang**, Yohichi Suzuki, Takashi Hisatomi, Kazuhiko Seki, Yasunobu Inoue, Kazunari Domen*, Akihiro Furube*. Origin of the Overall Water Splitting Activity of Ta₃N₅ Revealed by Ultrafast Transient Absorption Spectroscopy. **Chemical Science**, 2019,10(20), 5353-5362. (Selected for an Editor's Choice collection)



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