

Chuanyao Zhou

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

44
papers

1,784
citations

18
h-index

42
g-index

47
ext. papers

2,286
ext. citations

8.8
avg, IF

5.15
L-index

| # | Paper | IF | Citations |
|----|---|------|-----------|
| 44 | Valence Band of Rutile TiO(110) Investigated by Polarized-Light-Based Angle-Resolved Photoelectron Spectroscopy.. <i>Journal of Physical Chemistry Letters</i> , 2022 , 2299-2305 | 6.4 | 2 |
| 43 | Anisotropic d-d Transition in Rutile TiO. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 10515-10520 | 6.4 | 2 |
| 42 | Alkoxylation Reaction of Alcohol on Silica Surfaces Studied by Sum Frequency Vibrational Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 8638-8646 | 3.8 | 5 |
| 41 | Hydrophobic Modification of Silica Surfaces via Grafting Alkoxy Groups. <i>ACS Applied Electronic Materials</i> , 2021 , 3, 1691-1698 | 4 | 5 |
| 40 | Ultrahigh sensitive transient absorption spectrometer. <i>Review of Scientific Instruments</i> , 2021 , 92, 053002 | 1.7 | 2 |
| 39 | Origin of the Adsorption-State-Dependent Photoactivity of Methanol on TiO ₂ (110). <i>ACS Catalysis</i> , 2021 , 11, 2620-2630 | 13.1 | 5 |
| 38 | Efficient generation of narrowband picosecond pulses from a femtosecond laser. <i>Review of Scientific Instruments</i> , 2021 , 92, 083001 | 1.7 | 2 |
| 37 | Spatially heterogeneous ultrafast interfacial carrier dynamics of 2D-MoS ₂ flakes. <i>Materials Today Physics</i> , 2021 , 21, 100506 | 8 | 2 |
| 36 | Single Molecule Photocatalysis on TiO Surfaces. <i>Chemical Reviews</i> , 2019 , 119, 11020-11041 | 68.1 | 115 |
| 35 | Active Species in Photocatalytic Reactions of Methanol on TiO ₂ (110) Identified by Surface Sum Frequency Generation Vibrational Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 13789-13794 | 3.8 | 7 |
| 34 | In Situ Studies on Temperature-Dependent Photocatalytic Reactions of Methanol on TiO ₂ (110). <i>Journal of Physical Chemistry C</i> , 2019 , 123, 9993-9999 | 3.8 | 12 |
| 33 | Fundamentals of TiO Photocatalysis: Concepts, Mechanisms, and Challenges. <i>Advanced Materials</i> , 2019 , 31, e1901997 | 24 | 403 |
| 32 | Adsorption Structure and Coverage-Dependent Orientation Analysis of Sub-Monolayer Acetonitrile on TiO ₂ (110). <i>Journal of Physical Chemistry C</i> , 2019 , 123, 17915-17924 | 3.8 | 5 |
| 31 | A broadband sum-frequency generation vibrational spectrometer to probe adsorbed molecules on nanoparticles. <i>Surface Science</i> , 2019 , 689, 121459 | 1.8 | 6 |
| 30 | Flexible high-resolution broadband sum-frequency generation vibrational spectroscopy for intrinsic spectral line widths. <i>Journal of Chemical Physics</i> , 2019 , 150, 074702 | 3.9 | 9 |
| 29 | Femtosecond time-resolved spectroscopic photoemission electron microscopy for probing ultrafast carrier dynamics in heterojunctions. <i>Chinese Journal of Chemical Physics</i> , 2019 , 32, 399-405 | 0.9 | 2 |
| 28 | Ultralong UV/mechano-excited room temperature phosphorescence from purely organic cluster excitons. <i>Nature Communications</i> , 2019 , 10, 5161 | 17.4 | 115 |

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| 27 | Role of Pt Loading in the Photocatalytic Chemistry of Methanol on Rutile TiO ₂ (110). <i>ACS Catalysis</i> , 2019 , 9, 286-294 | 13.1 | 27 |
| 26 | Elementary Chemical Reactions in Surface Photocatalysis. <i>Annual Review of Physical Chemistry</i> , 2018 , 69, 451-472 | 15.7 | 24 |
| 25 | Excess electrons in reduced rutile and anatase TiO ₂ . <i>Surface Science Reports</i> , 2018 , 73, 58-82 | 12.9 | 75 |
| 24 | Observation and Manipulation of Visible Edge Plasmons in BiTe Nanoplates. <i>Nano Letters</i> , 2018 , 18, 2879-2884 | 11.1 | 11 |
| 23 | Deuterium Kinetic Isotope Effect in the Photocatalyzed Dissociation of Methanol on TiO ₂ (110). <i>Journal of Physical Chemistry C</i> , 2018 , 122, 26512-26518 | 3.8 | 6 |
| 22 | Electronic structure and photoabsorption of Ti ions in reduced anatase and rutile TiO. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 17658-17665 | 3.6 | 27 |
| 21 | Macroscopic Wires from Fluorophore-Quencher Dyads with Long-Lived Blue Emission. <i>Journal of Physical Chemistry A</i> , 2017 , 121, 7183-7190 | 2.8 | 5 |
| 20 | Photoelectron Spectroscopic Study of Methanol Adsorbed Rutile TiO ₂ (110) Surface. <i>Chinese Journal of Chemical Physics</i> , 2017 , 30, 626-630 | 0.9 | 3 |
| 19 | Elementary photocatalytic chemistry on TiO ₂ surfaces. <i>Chemical Society Reviews</i> , 2016 , 45, 3701-30 | 58.5 | 242 |
| 18 | Photocatalytic chemistry of methanol on rutile TiO ₂ (110)-(2 × 1). <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 10224-31 | 3.6 | 16 |
| 17 | Fundamental Processes in Surface Photocatalysis on TiO ₂ . <i>Green Chemistry and Sustainable Technology</i> , 2016 , 361-416 | 1.1 | 1 |
| 16 | Facet Dependence of Photochemistry of Methanol on Single Crystalline Rutile Titania. <i>Chinese Journal of Chemical Physics</i> , 2016 , 29, 105-111 | 0.9 | 3 |
| 15 | Fundamental Processes in Surface Photocatalysis on TiO ₂ . <i>Wuli Huaxue Xuebao/Acta Physico-Chimica Sinica</i> , 2016 , 32, 28-47 | 3.8 | 7 |
| 14 | Effect of Surface Structure on the Photoreactivity of TiO ₂ . <i>Journal of Physical Chemistry C</i> , 2015 , 119, 6121-6127 | 3.8 | 41 |
| 13 | Coverage Dependence of Methanol Dissociation on TiO(110). <i>Journal of Physical Chemistry Letters</i> , 2015 , 6, 3327-3334 | 6.4 | 51 |
| 12 | Localized Excitation of Ti(3+) Ions in the Photoabsorption and Photocatalytic Activity of Reduced Rutile TiO ₂ . <i>Journal of the American Chemical Society</i> , 2015 , 137, 9146-52 | 16.4 | 139 |
| 11 | Characterization of the Excited State on Methanol/TiO ₂ (110) Interface. <i>Chinese Journal of Chemical Physics</i> , 2015 , 28, 123-127 | 0.9 | 3 |
| 10 | Excitation Wavelength Dependence of Photocatalyzed Oxidation of Methanol on TiO ₂ (110). <i>Chinese Journal of Chemical Physics</i> , 2015 , 28, 459-464 | 0.9 | 3 |

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| 9 | Recombination of Formaldehyde and Hydrogen Atoms on TiO ₂ (110). <i>Journal of Physical Chemistry C</i> , 2015 , 119, 1170-1174 | 3.8 | 26 |
| 8 | First-Principles Study of Methanol Oxidation into Methyl Formate on Rutile TiO ₂ (110). <i>Journal of Physical Chemistry C</i> , 2014 , 118, 19859-19868 | 3.8 | 27 |
| 7 | Band-Gap States of TiO ₂ (110): Major Contribution from Surface Defects. <i>Journal of Physical Chemistry Letters</i> , 2013 , 4, 3839-3844 | 6.4 | 62 |
| 6 | Photocatalytic Dissociation of Ethanol on TiO ₂ (110) by Near-Band-Gap Excitation. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 10336-10344 | 3.8 | 34 |
| 5 | Kinetics and Dynamics of Photocatalyzed Dissociation of Ethanol on TiO ₂ (110). <i>Chinese Journal of Chemical Physics</i> , 2013 , 26, 1-7 | 0.9 | 8 |
| 4 | Surface photochemistry probed by two-photon photoemission spectroscopy. <i>Energy and Environmental Science</i> , 2012 , 5, 6833 | 35.4 | 26 |
| 3 | Effect of defects on photocatalytic dissociation of methanol on TiO ₂ (110). <i>Chemical Science</i> , 2011 , 2, 1980 | 9.4 | 57 |
| 2 | A Surface Femtosecond Two-Photon Photoemission Spectrometer for Excited Electron Dynamics and Time-Dependent Photochemical Kinetics. <i>Chinese Journal of Chemical Physics</i> , 2010 , 23, 255-261 | 0.9 | 18 |
| 1 | Site-specific photocatalytic splitting of methanol on TiO ₂ (110). <i>Chemical Science</i> , 2010 , 1, 575 | 9.4 | 143 |