

# Chuanyao Zhou

## List of Publications by Citations

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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	Fundamentals of TiO Photocatalysis: Concepts, Mechanisms, and Challenges. <i>Advanced Materials</i> , <b>2019</b> , 31, e1901997	24	403
43	Elementary photocatalytic chemistry on TiO <sub>2</sub> surfaces. <i>Chemical Society Reviews</i> , <b>2016</b> , 45, 3701-30	58.5	242
42	Site-specific photocatalytic splitting of methanol on TiO <sub>2</sub> (110). <i>Chemical Science</i> , <b>2010</b> , 1, 575	9.4	143
41	Localized Excitation of Ti(3+) Ions in the Photoabsorption and Photocatalytic Activity of Reduced Rutile TiO <sub>2</sub> . <i>Journal of the American Chemical Society</i> , <b>2015</b> , 137, 9146-52	16.4	139
40	Single Molecule Photocatalysis on TiO Surfaces. <i>Chemical Reviews</i> , <b>2019</b> , 119, 11020-11041	68.1	115
39	Ultralong UV/mechano-excited room temperature phosphorescence from purely organic cluster excitons. <i>Nature Communications</i> , <b>2019</b> , 10, 5161	17.4	115
38	Excess electrons in reduced rutile and anatase TiO <sub>2</sub> . <i>Surface Science Reports</i> , <b>2018</b> , 73, 58-82	12.9	75
37	Band-Gap States of TiO <sub>2</sub> (110): Major Contribution from Surface Defects. <i>Journal of Physical Chemistry Letters</i> , <b>2013</b> , 4, 3839-3844	6.4	62
36	Effect of defects on photocatalytic dissociation of methanol on TiO <sub>2</sub> (110). <i>Chemical Science</i> , <b>2011</b> , 2, 1980	9.4	57
35	Coverage Dependence of Methanol Dissociation on TiO(110). <i>Journal of Physical Chemistry Letters</i> , <b>2015</b> , 6, 3327-3334	6.4	51
34	Effect of Surface Structure on the Photoreactivity of TiO <sub>2</sub> . <i>Journal of Physical Chemistry C</i> , <b>2015</b> , 119, 6121-6127	3.8	41
33	Photocatalytic Dissociation of Ethanol on TiO <sub>2</sub> (110) by Near-Band-Gap Excitation. <i>Journal of Physical Chemistry C</i> , <b>2013</b> , 117, 10336-10344	3.8	34
32	First-Principles Study of Methanol Oxidation into Methyl Formate on Rutile TiO <sub>2</sub> (110). <i>Journal of Physical Chemistry C</i> , <b>2014</b> , 118, 19859-19868	3.8	27
31	Role of Pt Loading in the Photocatalytic Chemistry of Methanol on Rutile TiO <sub>2</sub> (110). <i>ACS Catalysis</i> , <b>2019</b> , 9, 286-294	13.1	27
30	Electronic structure and photoabsorption of Ti ions in reduced anatase and rutile TiO. <i>Physical Chemistry Chemical Physics</i> , <b>2018</b> , 20, 17658-17665	3.6	27
29	Recombination of Formaldehyde and Hydrogen Atoms on TiO <sub>2</sub> (110). <i>Journal of Physical Chemistry C</i> , <b>2015</b> , 119, 1170-1174	3.8	26
28	Surface photochemistry probed by two-photon photoemission spectroscopy. <i>Energy and Environmental Science</i> , <b>2012</b> , 5, 6833	35.4	26

27	Elementary Chemical Reactions in Surface Photocatalysis. <i>Annual Review of Physical Chemistry</i> , <b>2018</b> , 69, 451-472	15.7	24
26	A Surface Femtosecond Two-Photon Photoemission Spectrometer for Excited Electron Dynamics and Time-Dependent Photochemical Kinetics. <i>Chinese Journal of Chemical Physics</i> , <b>2010</b> , 23, 255-261	0.9	18
25	Photocatalytic chemistry of methanol on rutile TiO <sub>2</sub> (110)-(2 × 1). <i>Physical Chemistry Chemical Physics</i> , <b>2016</b> , 18, 10224-31	3.6	16
24	In Situ Studies on Temperature-Dependent Photocatalytic Reactions of Methanol on TiO <sub>2</sub> (110). <i>Journal of Physical Chemistry C</i> , <b>2019</b> , 123, 9993-9999	3.8	12
23	Observation and Manipulation of Visible Edge Plasmons in BiTe Nanoplates. <i>Nano Letters</i> , <b>2018</b> , 18, 2879-2884	2.8	11
22	Flexible high-resolution broadband sum-frequency generation vibrational spectroscopy for intrinsic spectral line widths. <i>Journal of Chemical Physics</i> , <b>2019</b> , 150, 074702	3.9	9
21	Kinetics and Dynamics of Photocatalyzed Dissociation of Ethanol on TiO <sub>2</sub> (110). <i>Chinese Journal of Chemical Physics</i> , <b>2013</b> , 26, 1-7	0.9	8
20	Active Species in Photocatalytic Reactions of Methanol on TiO <sub>2</sub> (110) Identified by Surface Sum Frequency Generation Vibrational Spectroscopy. <i>Journal of Physical Chemistry C</i> , <b>2019</b> , 123, 13789-13794	3.8	7
19	Fundamental Processes in Surface Photocatalysis on TiO <sub>2</sub> . <i>Wuli Huaxue Xuebao/Acta Physico-Chimica Sinica</i> , <b>2016</b> , 32, 28-47	3.8	7
18	A broadband sum-frequency generation vibrational spectrometer to probe adsorbed molecules on nanoparticles. <i>Surface Science</i> , <b>2019</b> , 689, 121459	1.8	6
17	Deuterium Kinetic Isotope Effect in the Photocatalyzed Dissociation of Methanol on TiO <sub>2</sub> (110). <i>Journal of Physical Chemistry C</i> , <b>2018</b> , 122, 26512-26518	3.8	6
16	Adsorption Structure and Coverage-Dependent Orientation Analysis of Sub-Monolayer Acetonitrile on TiO <sub>2</sub> (110). <i>Journal of Physical Chemistry C</i> , <b>2019</b> , 123, 17915-17924	3.8	5
15	Macroscopic Wires from Fluorophore-Quencher Dyads with Long-Lived Blue Emission. <i>Journal of Physical Chemistry A</i> , <b>2017</b> , 121, 7183-7190	2.8	5
14	Alkoxylation Reaction of Alcohol on Silica Surfaces Studied by Sum Frequency Vibrational Spectroscopy. <i>Journal of Physical Chemistry C</i> , <b>2021</b> , 125, 8638-8646	3.8	5
13	Hydrophobic Modification of Silica Surfaces via Grafting Alkoxy Groups. <i>ACS Applied Electronic Materials</i> , <b>2021</b> , 3, 1691-1698	4	5
12	Origin of the Adsorption-State-Dependent Photoactivity of Methanol on TiO <sub>2</sub> (110). <i>ACS Catalysis</i> , <b>2021</b> , 11, 2620-2630	13.1	5
11	Characterization of the Excited State on Methanol/TiO <sub>2</sub> (110) Interface. <i>Chinese Journal of Chemical Physics</i> , <b>2015</b> , 28, 123-127	0.9	3
10	Photoelectron Spectroscopic Study of Methanol Adsorbed Rutile TiO <sub>2</sub> (110) Surface. <i>Chinese Journal of Chemical Physics</i> , <b>2017</b> , 30, 626-630	0.9	3

9	Excitation Wavelength Dependence of Photocatalyzed Oxidation of Methanol on TiO <sub>2</sub> (110)□ <i>Chinese Journal of Chemical Physics</i> , <b>2015</b> , 28, 459-464	0.9	3
8	Facet Dependence of Photochemistry of Methanol on Single Crystalline Rutile Titania□ <i>Chinese Journal of Chemical Physics</i> , <b>2016</b> , 29, 105-111	0.9	3
7	Anisotropic d-d Transition in Rutile TiO. <i>Journal of Physical Chemistry Letters</i> , <b>2021</b> , 12, 10515-10520	6.4	2
6	Ultrahigh sensitive transient absorption spectrometer. <i>Review of Scientific Instruments</i> , <b>2021</b> , 92, 053002	1.7	2
5	Femtosecond time-resolved spectroscopic photoemission electron microscopy for probing ultrafast carrier dynamics in heterojunctions. <i>Chinese Journal of Chemical Physics</i> , <b>2019</b> , 32, 399-405	0.9	2
4	Efficient generation of narrowband picosecond pulses from a femtosecond laser. <i>Review of Scientific Instruments</i> , <b>2021</b> , 92, 083001	1.7	2
3	Spatially heterogeneous ultrafast interfacial carrier dynamics of 2D-MoS <sub>2</sub> flakes. <i>Materials Today Physics</i> , <b>2021</b> , 21, 100506	8	2
2	Valence Band of Rutile TiO(110) Investigated by Polarized-Light-Based Angle-Resolved Photoelectron Spectroscopy.. <i>Journal of Physical Chemistry Letters</i> , <b>2022</b> , 2299-2305	6.4	2
1	Fundamental Processes in Surface Photocatalysis on TiO <sub>2</sub> . <i>Green Chemistry and Sustainable Technology</i> , <b>2016</b> , 361-416	1.1	1