

# Zhaochi Feng

## List of Publications by Year in descending order

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99  
papers

6,302  
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71102

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104  
docs citations

104  
times ranked

7403  
citing authors

#	ARTICLE	IF	CITATIONS
1	Atomically unraveling the dependence of surface microstructure on plasmon-induced hydrogen evolution on Au/SrTiO <sub>3</sub> . <i>Nano Energy</i> , 2022, 91, 106638.	16.0	16
2	Designing a Z-scheme system based on photocatalyst panels towards separated hydrogen and oxygen production from overall water splitting. <i>Catalysis Science and Technology</i> , 2022, 12, 572-578.	4.1	4
3	Catalytic production of low-carbon footprint sustainable natural gas. <i>Nature Communications</i> , 2022, 13, 258.	12.8	26
4	Urea Derivative-Promoted CsPbI <sub>2</sub> Br Perovskite Solar Cells with High Open-Circuit Voltage. <i>Solar Rrl</i> , 2022, 6, 2101057.	5.8	10
5	Water-Stable Nickel Metal-Organic Framework Nanobelts for Cocatalyst-Free Photocatalytic Water Splitting to Produce Hydrogen. <i>Journal of the American Chemical Society</i> , 2022, 144, 2747-2754.	13.7	109
6	V <sup>+</sup> -O <sup>+</sup> -Ag Linkages in VAgO <sub>x</sub> Mixed Oxides for the Selective Oxidation of <i>p</i> -Xylene to <i>p</i> -Methyl Benzaldehyde. <i>ACS Catalysis</i> , 2022, 12, 3323-3332.	11.2	5
7	Solvent-free gas-phase epoxidation of propylene in fluidized bed reactor. <i>AIChE Journal</i> , 2021, 67, e17218.	3.6	8
8	Crystallinity and Orientation Manipulation of Anthracene Diimide Polymers for All-Polymer Solar Cells. <i>Advanced Functional Materials</i> , 2021, 31, 2011049.	14.9	12
9	Mechanistic Studies on Photocatalytic Overall Water Splitting over Ga <sub>2</sub> O <sub>3</sub> -Based Photocatalysts by <i>Operando</i> MS-FTIR Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 6029-6033.	4.6	19
10	Liquid-Phase Epoxidation of Propylene with H <sub>2</sub> O <sub>2</sub> over TS-1 Zeolite: Impurity Formation and Inhibition Study. <i>Industrial &amp; Engineering Chemistry Research</i> , 2021, 60, 12109-12122.	3.7	6
11	Co-Crystalline ZSM-5/ZSM-11 Nanostructures for Alkylation of Benzene with Ethanol. <i>ACS Applied Nano Materials</i> , 2021, 4, 10296-10306.	5.0	7
12	Amino acid-assisted synthesis of TS-1 zeolites containing highly catalytically active TiO <sub>6</sub> species. <i>Chinese Journal of Catalysis</i> , 2021, 42, 2189-2196.	14.0	27
13	Hydroxylated non-fullerene acceptor for highly efficient inverted perovskite solar cells. <i>Energy and Environmental Science</i> , 2021, 14, 6536-6545.	30.8	33
14	Effect of Sodium Ions on Catalytic Performance of TS-1 in Gas-Phase Epoxidation of Propylene with Hydrogen Peroxide Vapor. <i>Catalysis Letters</i> , 2020, 150, 281-290.	2.6	7
15	An amino acid-assisted approach to fabricate nanosized hierarchical TS-1 zeolites for efficient oxidative desulfurization. <i>Inorganic Chemistry Frontiers</i> , 2020, 7, 1975-1980.	6.0	42
16	Titanosilicate zeolite precursors for highly efficient oxidation reactions. <i>Chemical Science</i> , 2020, 11, 12341-12349.	7.4	29
17	Visible-Light-Driven Photocatalytic Hydrogen Production on Cd <sub>0.5</sub> Zn <sub>0.5</sub> S Nanorods with an Apparent Quantum Efficiency Exceeding 80%. <i>Advanced Functional Materials</i> , 2020, 30, 2003731.	14.9	76
18	Evolution of D6R units in the interzeolite transformation from FAU, MFI or *BEA into AEI: transfer or reassembly?. <i>Inorganic Chemistry Frontiers</i> , 2020, 7, 2204-2211.	6.0	47

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19	Unravelling the water oxidation mechanism on NaTaO <sub>3</sub> -based photocatalysts. Journal of Materials Chemistry A, 2020, 8, 6812-6821.	10.3	23
20	Boosting Performance of Non-Fullerene Organic Solar Cells by 2D g-C <sub>3</sub> N <sub>4</sub> Doped PEDOT:PSS. Advanced Functional Materials, 2020, 30, 1910205.	14.9	77
21	Temperature-regulated construction of hierarchical titanosilicate zeolites. Inorganic Chemistry Frontiers, 2020, 7, 1872-1879.	6.0	35
22	Size effect of lead-free halide double perovskite on luminescence property. Science China Chemistry, 2019, 62, 1405-1413.	8.2	95
23	Sustainable Synthesis of Pure Silica Zeolites from a Combined Strategy of Zeolite Seeding and Alcohol Filling. Angewandte Chemie - International Edition, 2019, 58, 12138-12142.	13.8	47
24	Sustainable Synthesis of Pure Silica Zeolites from a Combined Strategy of Zeolite Seeding and Alcohol Filling. Angewandte Chemie, 2019, 131, 12266-12270.	2.0	3
25	Stereostructural Elucidation of Glucose Phosphorylation by Raman Optical Activity. Journal of Physical Chemistry B, 2019, 123, 7794-7800.	2.6	5
26	Interzeolite transformation from FAU to CHA and MFI zeolites monitored by UV Raman spectroscopy. Chinese Journal of Catalysis, 2019, 40, 1854-1859.	14.0	46
27	Intermediate-crystallization promoted catalytic activity of titanosilicate zeolites. Journal of Materials Chemistry A, 2018, 6, 8757-8762.	10.3	77
28	Bimodal hole transport in bulk BiVO <sub>4</sub> from computation. Journal of Materials Chemistry A, 2018, 6, 3714-3723.	10.3	20
29	K <sub>2</sub> SO <sub>4</sub> -Assisted Hexagonal/Monoclinic WO <sub>3</sub> Phase Junction for Efficient Photocatalytic Degradation of RhB. ACS Applied Energy Materials, 2018, 1, 2067-2077.	5.1	61
30	Role of Oxygen Vacancies on Oxygen Evolution Reaction Activity: $\gamma$ -Ga <sub>2</sub> O <sub>3</sub> as a Case Study. Chemistry of Materials, 2018, 30, 7714-7726.	6.7	43
31	A novel synthetic strategy of Fe-ZSM-35 with pure framework Fe species and its formation mechanism. Inorganic Chemistry Frontiers, 2018, 5, 2031-2037.	6.0	9
32	Solvent-Free Synthesis of ITQ-12, ITQ-13, and ITQ-17 Zeolites. Chinese Journal of Chemistry, 2017, 35, 572-576.	4.9	15
33	The High-Performance Hollow Silicalite-1@Titanium Silicalite-1 Core-Shell Catalyst for Propene Epoxidation. ChemistrySelect, 2017, 2, 10097-10100.	1.5	7
34	A highly selective and stable ZnO-ZrO <sub>2</sub> solid solution catalyst for CO <sub>2</sub> hydrogenation to methanol. Science Advances, 2017, 3, e1701290.	10.3	683
35	Highly Selective Conversion of Carbon Dioxide to Lower Olefins. ACS Catalysis, 2017, 7, 8544-8548.	11.2	387
36	A Short-Wavelength Raman Optical Activity Spectrometer with Laser Source at 457 nm for the Characterization of Chiral Molecules. Applied Spectroscopy, 2017, 71, 2211-2217.	2.2	12

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37	Mechanism of alkane H/D exchange over zeolite H-ZSM-5 at low temperature: a combined computational and experimental study. <i>Catalysis Science and Technology</i> , 2016, 6, 5350-5363.	4.1	18
38	Dual Extraction of Photogenerated Electrons and Holes from a Ferroelectric Sr <sub>0.5</sub> Ba <sub>0.5</sub> Nb <sub>2</sub> O <sub>6</sub> Semiconductor. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 13857-13864.	8.0	16
39	Insights of the Crystallization Process of Molecular Sieve AlPO <sub>4</sub> -5 Prepared by Solvent-Free Synthesis. <i>Journal of the American Chemical Society</i> , 2016, 138, 6171-6176.	13.7	77
40	Deep UV resonance Raman spectroscopic study on electron-phonon coupling in hexagonal III-nitride wide bandgap semiconductors. <i>Journal of Raman Spectroscopy</i> , 2016, 47, 884-887.	2.5	8
41	Roles of adsorption sites in electron transfer from CdS quantum dots to molecular catalyst cobaloxime studied by time-resolved spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 17389-17397.	2.8	16
42	Reevaluation of the stability of G-quadruplex structures under crowding conditions. <i>Biochimie</i> , 2016, 121, 204-208.	2.6	30
43	Photo-induced H <sub>2</sub> production from a CH <sub>3</sub> OH-H <sub>2</sub> O solution at insulator surface. <i>Scientific Reports</i> , 2015, 5, 13475.	3.3	19
44	Direct Imaging of Highly Anisotropic Photogenerated Charge Separations on Different Facets of a Single BiVO <sub>4</sub> Photocatalyst. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 9111-9114.	13.8	284
45	UV Raman Spectroscopic Characterization of Catalysts and Catalytic Active Sites. <i>Catalysis Letters</i> , 2015, 145, 468-481.	2.6	40
46	Effect of Phase Junction Structure on the Photocatalytic Performance in Overall Water Splitting: Ga <sub>2</sub> O <sub>3</sub> Photocatalyst as an Example. <i>Journal of Physical Chemistry C</i> , 2015, 119, 18221-18228.	3.1	101
47	Construction of unique six-coordinated titanium species with an organic amine ligand in titanasilicate and their unprecedented high efficiency for alkene epoxidation. <i>Chemical Communications</i> , 2015, 51, 9010-9013.	4.1	107
48	Directly probing redox-linked quinones in photosystem II membrane fragments via UV resonance Raman scattering. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2015, 1847, 558-564.	1.0	8
49	Enhancing photoresponsivity of self-powered UV photodetectors based on electrochemically reduced TiO <sub>2</sub> nanorods. <i>RSC Advances</i> , 2015, 5, 95939-95942.	3.6	7
50	Note: Deep ultraviolet Raman spectrograph with the laser excitation line down to 177.3 nm and its application. <i>Review of Scientific Instruments</i> , 2014, 85, 046105.	1.3	10
51	Charge-Sensitive Surface Optical Phonon in CdS Quantum Dots Studied by Resonant Raman Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2014, 118, 30269-30273.	3.1	21
52	Sustainable Synthesis of Zeolites without Addition of Both Organotemplates and Solvents. <i>Journal of the American Chemical Society</i> , 2014, 136, 4019-4025.	13.7	233
53	Transfer of Photoinduced Electrons in Anatase-Rutile TiO <sub>2</sub> Determined by Time-Resolved Mid-Infrared Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2014, 118, 12661-12668.	3.1	102
54	Deep UV resonance Raman spectroscopic study of C <sub>n</sub> F <sub>2n+2</sub> molecules: the excitation of C-C ĩf bond. <i>Journal of Raman Spectroscopy</i> , 2013, 44, 266-269.	2.5	18

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55	Catalytic performance of different types of iron zeolites in N <sub>2</sub> O decomposition. Chinese Journal of Catalysis, 2013, 34, 876-888.	14.0	22
56	Identification of Fe <sub>2</sub> (1/4-O) and Fe <sub>2</sub> (1/4-O) <sub>2</sub> sites in Fe/ZSM-35 by in situ resonance Raman spectroscopy. Journal of Catalysis, 2013, 301, 77-82.	6.2	21
57	Influence of extra-framework Al on the structure of the active iron sites in Fe/ZSM-35. Journal of Catalysis, 2013, 300, 251-259.	6.2	35
58	Highly Efficient Dehydrogenation of Primary Aliphatic Alcohols Catalyzed by Cu Nanoparticles Dispersed on Rod-Shaped La <sub>2</sub> O <sub>3</sub> CO <sub>3</sub> . ACS Catalysis, 2013, 3, 890-894.	11.2	115
59	Finding the "Missing Components" during the Synthesis of TS-1 Zeolite by UV Resonance Raman Spectroscopy. Journal of Physical Chemistry C, 2013, 117, 2844-2848.	3.1	56
60	Organotemplate-free and one-pot fabrication of nano-rod assembled plate-like micro-sized mordenite crystals. Journal of Materials Chemistry, 2012, 22, 6564.	6.7	28
61	Photocatalytic Overall Water Splitting Promoted by an $\pm$ phase Junction on Ga <sub>2</sub> O <sub>3</sub> (Angew. Chem. 52/2012). Angewandte Chemie, 2012, 124, 13356-13356.	2.0	0
62	A Thorough Investigation of the Active Titanium Species in TS-1 Zeolite by In Situ UV Resonance Raman Spectroscopy. Chemistry - A European Journal, 2012, 18, 13854-13860.	3.3	137
63	Structure and Basicity of Microporous Titanosilicate ETS-10 and Vanadium-Containing ETS-10. Journal of Physical Chemistry C, 2012, 116, 17124-17133.	3.1	9
64	Hydrogen bonding in homochiral dimers of hydroxyesters studied by Raman optical activity spectroscopy. Journal of Raman Spectroscopy, 2012, 43, 503-513.	2.5	9
65	UV Raman and NMR Spectroscopic Studies on the Crystallization of Zeolite A and a New Synthetic Route. Chemistry - A European Journal, 2011, 17, 6162-6169.	3.3	56
66	Template-Free Synthesis of Sphere, Rod and Prism Morphologies of CeO <sub>2</sub> Oxidation Catalysts. Catalysis Letters, 2010, 137, 28-34.	2.6	34
67	Multifunctional human serum albumin in the surface-enhanced Raman spectroscopy of porphyrin: demetalation promoter, molecular spacer and stabilizer. Journal of Raman Spectroscopy, 2010, 41, 1615-1620.	2.5	5
68	UV Raman Spectroscopic Studies on Active Sites and Synthesis Mechanisms of Transition Metal-Containing Microporous and Mesoporous Materials. Accounts of Chemical Research, 2010, 43, 378-387.	15.6	140
69	UV Raman spectroscopic study on the synthesis mechanism and assembly of molecular sieves. Chemical Society Reviews, 2010, 39, 4794.	38.1	99
70	Static Synthesis and Crystallization Mechanism of ZSM-35 Zeolite. Chinese Journal of Catalysis, 2010, 31, 788-792.	14.0	1
71	From Molecular Fragments to Crystals: A UV Raman Spectroscopic Study on the Mechanism of Fe/ZSM-5 Synthesis. Chemistry - A European Journal, 2009, 15, 3268-3276.	3.3	89
72	Coadsorption of trimethyl phosphine and thiocyanate on colloidal silver: a SERS study combined with theoretical calculations. Journal of Raman Spectroscopy, 2009, 40, 387-393.	2.5	8

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73	In Situ UV Raman Spectroscopic Study on the Synthesis Mechanism of AlPO <sub>5</sub> . <i>Angewandte Chemie - International Edition</i> , 2009, 48, 8743-8747.	13.8	72
74	The Synthesis of Three-Dimensional CeO <sub>2</sub> and Their Catalytic Activities for CO Oxidation. <i>Catalysis Letters</i> , 2009, 131, 350-355.	2.6	23
75	Alkali-hydrolysis of D-glucono-delta-lactone studied by chiral Raman and circular dichroism spectroscopies. <i>Science in China Series B: Chemistry</i> , 2009, 52, 552-558.	0.8	6
76	Shape-Controlled Copper Selenide Nanocubes Synthesized by an Electrochemical Crystallization Method. <i>Journal of Physical Chemistry C</i> , 2009, 113, 10833-10837.	3.1	48
77	In Situ UV Raman Spectroscopic Studies on the Synthesis Mechanism of Zeolite X. <i>Chemistry - A European Journal</i> , 2008, 14, 5125-5129.	3.3	75
78	Surface Phase Composition of Iron Molybdate Catalysts Studied by UV Raman Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2008, 112, 9387-9393.	3.1	39
79	Framework Fe Ions in Fe-ZSM-5 Zeolite Studied by UV Resonance Raman Spectroscopy and Density Functional Theory Calculations. <i>Journal of Physical Chemistry C</i> , 2008, 112, 16036-16041.	3.1	64
80	Fourier Transform Infrared Spectroscopic Study on the Adsorption of Ethyl Pyruvate on Pt/Al <sub>2</sub> O <sub>3</sub> : Side Reactions Suppressed by Adsorbed Hydrogen and Cinchonidine. <i>Journal of Physical Chemistry C</i> , 2007, 111, 823-829.	3.1	15
81	Preparation and characterization of ordered mesoporous carbons on SBA-15 template. <i>Journal of Materials Chemistry</i> , 2006, 16, 1350.	6.7	27
82	Catalytic Performance of the Sb <sup>III</sup> Mixed Oxide on Sb <sup>III</sup> O/SiO <sub>2</sub> Catalysts in Methane Selective Oxidation to Formaldehyde. <i>Catalysis Letters</i> , 2006, 106, 89-93.	2.6	12
83	Direct synthesis of highly ordered Fe-SBA-15 mesoporous materials under weak acidic conditions. <i>Microporous and Mesoporous Materials</i> , 2005, 84, 41-49.	4.4	181
84	Aluminium-containing mesoporous benzene-silicas with crystal-like pore wall structure. <i>Journal of Materials Chemistry</i> , 2005, 15, 4268.	6.7	17
85	The visible luminescent characteristics of ZnO supported on SiO <sub>2</sub> powder. <i>Physical Chemistry Chemical Physics</i> , 2004, 6, 4473-4479.	2.8	33
86	Adsorption and reaction of thiophene and H <sub>2</sub> S on Mo <sub>2</sub> C/Al <sub>2</sub> O <sub>3</sub> catalyst studied by in situ FT-IR spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2004, 6, 5596.	2.8	10
87	An IR study on the surface passivation of Mo <sub>2</sub> C/Al <sub>2</sub> O <sub>3</sub> catalyst with O <sub>2</sub> , H <sub>2</sub> O and CO <sub>2</sub> . <i>Physical Chemistry Chemical Physics</i> , 2004, 6, 5603.	2.8	33
88	Direct Synthesis of Al <sup>III</sup> -SBA-15 Mesoporous Materials via Hydrolysis-Controlled Approach. <i>Journal of Physical Chemistry B</i> , 2004, 108, 9739-9744.	2.6	236
89	Phase transformation in the surface region of zirconia and doped zirconia detected by UV Raman spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2003, 5, 5326.	2.8	73
90	Preparation and Adsorption Properties for Thiophene of Nanostructured W <sub>2</sub> C on Ultrahigh-Surface-Area Carbon Materials. <i>Chemistry of Materials</i> , 2003, 15, 4846-4853.	6.7	62

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91	Carbon Monoxide Adsorption on Molybdenum Phosphides: A Fourier Transform Infrared Spectroscopic and Density Functional Theory Studies. <i>Journal of Physical Chemistry B</i> , 2003, 107, 13698-13702.	2.6	26
92	Phase Transformation in the Surface Region of Zirconia Detected by UV Raman Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2001, 105, 8107-8111.	2.6	254
93	Identifying Framework Titanium in TS-1 Zeolite by UV Resonance Raman Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2001, 105, 2993-2997.	2.6	144
94	Ti-MCM-41 Synthesized from Colloidal Silica and Titanium Trichloride: Synthesis, Characterization, and Catalysis. <i>Chemistry of Materials</i> , 2001, 13, 994-998.	6.7	78
95	Structure and Redox Properties of $Ce_xTi_{1-x}O_2$ Solid Solution. <i>Chemistry of Materials</i> , 2001, 13, 197-202.	6.7	142
96	Surface-enhanced Raman scattering of xanthopterin adsorbed on colloidal silver. <i>Journal of Raman Spectroscopy</i> , 2001, 32, 1004-1007.	2.5	12
97	Direct spectroscopic evidence for vanadium species in V-MCM-41 molecular sieve characterized by UV resonance Raman spectroscopy. <i>Chemical Communications</i> , 2000, , 677-678.	4.1	69
98	The effect of oxygen on the aromatization of methane over the Mo/HZSM-5 catalyst. <i>Catalysis Letters</i> , 1999, 63, 73-77.	2.6	61
99	Algebraic approach to stretching vibrational spectrum of H <sub>2</sub> S. <i>Science Bulletin</i> , 1999, 44, 1961-1964.	1.7	7