

Zhaochi Feng

List of Publications by Year in descending order

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99
papers

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71102

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docs citations

104
times ranked

7403
citing authors

#	ARTICLE	IF	CITATIONS
1	A highly selective and stable ZnO-ZrO ₂ solid solution catalyst for CO ₂ hydrogenation to methanol. <i>Science Advances</i> , 2017, 3, e1701290.	10.3	683
2	Highly Selective Conversion of Carbon Dioxide to Lower Olefins. <i>ACS Catalysis</i> , 2017, 7, 8544-8548.	11.2	387
3	Direct Imaging of Highly Anisotropic Photogenerated Charge Separations on Different Facets of a Single BiVO ₄ Photocatalyst. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 9111-9114.	13.8	284
4	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
5	Direct Synthesis of Al ^{III} -SBA-15 Mesoporous Materials via Hydrolysis-Controlled Approach. <i>Journal of Physical Chemistry B</i> , 2004, 108, 9739-9744.	2.6	236
6	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
7	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
8	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
9	Structure and Redox Properties of CexTi1-xO2 Solid Solution. <i>Chemistry of Materials</i> , 2001, 13, 197-202.	6.7	142
10	UV Raman Spectroscopic Studies on Active Sites and Synthesis Mechanisms of Transition Metal-Containing Microporous and Mesoporous Materials. <i>Accounts of Chemical Research</i> , 2010, 43, 378-387.	15.6	140
11	A Thorough Investigation of the Active Titanium Species in TS-1 Zeolite by In Situ UV Resonance Raman Spectroscopy. <i>Chemistry - A European Journal</i> , 2012, 18, 13854-13860.	3.3	137
12	Highly Efficient Dehydrogenation of Primary Aliphatic Alcohols Catalyzed by Cu Nanoparticles Dispersed on Rod-Shaped La ₂ O ₃ /CO ₃ . <i>ACS Catalysis</i> , 2013, 3, 890-894.	11.2	115
13	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
14	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
15	Transfer of Photoinduced Electrons in Anatase-Rutile TiO ₂ Determined by Time-Resolved Mid-Infrared Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2014, 118, 12661-12668.	3.1	102
16	Effect of Phase Junction Structure on the Photocatalytic Performance in Overall Water Splitting: Ga ₂ O ₃ Photocatalyst as an Example. <i>Journal of Physical Chemistry C</i> , 2015, 119, 18221-18228.	3.1	101
17	UV Raman spectroscopic study on the synthesis mechanism and assembly of molecular sieves. <i>Chemical Society Reviews</i> , 2010, 39, 4794.	38.1	99
18	Size effect of lead-free halide double perovskite on luminescence property. <i>Science China Chemistry</i> , 2019, 62, 1405-1413.	8.2	95

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19	From Molecular Fragments to Crystals: A UV Raman Spectroscopic Study on the Mechanism of Fe-ZSM-5 Synthesis. <i>Chemistry - A European Journal</i> , 2009, 15, 3268-3276.	3.3	89
20	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
21	Insights of the Crystallization Process of Molecular Sieve AlPO ₄ -5 Prepared by Solvent-Free Synthesis. <i>Journal of the American Chemical Society</i> , 2016, 138, 6171-6176.	13.7	77
22	Intermediate-crystallization promoted catalytic activity of titanosilicate zeolites. <i>Journal of Materials Chemistry A</i> , 2018, 6, 8757-8762.	10.3	77
23	Boosting Performance of Non-Fullerene Organic Solar Cells by 2D g-C ₃ N ₄ Doped PEDOT:PSS. <i>Advanced Functional Materials</i> , 2020, 30, 1910205.	14.9	77
24	Visible-Light-Driven Photocatalytic Hydrogen Production on Cd _{0.5} Zn _{0.5} S Nanorods with an Apparent Quantum Efficiency Exceeding 80%. <i>Advanced Functional Materials</i> , 2020, 30, 2003731.	14.9	76
25	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
26	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
27	In Situ UV Raman Spectroscopic Study on the Synthesis Mechanism of AlPO ₅ . <i>Angewandte Chemie - International Edition</i> , 2009, 48, 8743-8747.	13.8	72
28	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
29	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
30	Preparation and Adsorption Properties for Thiophene of Nanostructured W ₂ C on Ultrahigh-Surface-Area Carbon Materials. <i>Chemistry of Materials</i> , 2003, 15, 4846-4853.	6.7	62
31	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
32	K ₂ SO ₄ -Assisted Hexagonal/Monoclinic WO ₃ Phase Junction for Efficient Photocatalytic Degradation of RhB. <i>ACS Applied Energy Materials</i> , 2018, 1, 2067-2077.	5.1	61
33	UV-Raman and NMR Spectroscopic Studies on the Crystallization of Zeolite A and a New Synthetic Route. <i>Chemistry - A European Journal</i> , 2011, 17, 6162-6169.	3.3	56
34	Finding the "Missing Components" during the Synthesis of TS-1 Zeolite by UV Resonance Raman Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2013, 117, 2844-2848.	3.1	56
35	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
36	Sustainable Synthesis of Pure Silica Zeolites from a Combined Strategy of Zeolite Seeding and Alcohol Filling. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 12138-12142.	13.8	47

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37	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
38	Interzeolite transformation from FAU to CHA and MFI zeolites monitored by UV Raman spectroscopy. <i>Chinese Journal of Catalysis</i> , 2019, 40, 1854-1859.	14.0	46
39	Role of Oxygen Vacancies on Oxygen Evolution Reaction Activity: $\hat{1}^2\text{-Ga}_{2}\text{O}_{3}$ as a Case Study. <i>Chemistry of Materials</i> , 2018, 30, 7714-7726.	6.7	43
40	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
41	UV Raman Spectroscopic Characterization of Catalysts and Catalytic Active Sites. <i>Catalysis Letters</i> , 2015, 145, 468-481.	2.6	40
42	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
43	Influence of extra-framework Al on the structure of the active iron sites in Fe/ZSM-35. <i>Journal of Catalysis</i> , 2013, 300, 251-259.	6.2	35
44	Temperature-regulated construction of hierarchical titanosilicate zeolites. <i>Inorganic Chemistry Frontiers</i> , 2020, 7, 1872-1879.	6.0	35
45	Template-Free Synthesis of Sphere, Rod and Prism Morphologies of CeO ₂ Oxidation Catalysts. <i>Catalysis Letters</i> , 2010, 137, 28-34.	2.6	34
46	The visible luminescent characteristics of ZnO supported on SiO ₂ powder. <i>Physical Chemistry Chemical Physics</i> , 2004, 6, 4473-4479.	2.8	33
47	An IR study on the surface passivation of Mo ₂ C/Al ₂ O ₃ catalyst with O ₂ , H ₂ O and CO ₂ . <i>Physical Chemistry Chemical Physics</i> , 2004, 6, 5603.	2.8	33
48	Hydroxylated non-fullerene acceptor for highly efficient inverted perovskite solar cells. <i>Energy and Environmental Science</i> , 2021, 14, 6536-6545.	30.8	33
49	Reevaluation of the stability of G-quadruplex structures under crowding conditions. <i>Biochimie</i> , 2016, 121, 204-208.	2.6	30
50	Titanosilicate zeolite precursors for highly efficient oxidation reactions. <i>Chemical Science</i> , 2020, 11, 12341-12349.	7.4	29
51	Organotemplate-free and one-pot fabrication of nano-rod assembled plate-like micro-sized mordenite crystals. <i>Journal of Materials Chemistry</i> , 2012, 22, 6564.	6.7	28
52	Preparation and characterization of ordered mesoporous carbons on SBA-15 template. <i>Journal of Materials Chemistry</i> , 2006, 16, 1350.	6.7	27
53	Amino acid-assisted synthesis of TS-1 zeolites containing highly catalytically active TiO ₆ species. <i>Chinese Journal of Catalysis</i> , 2021, 42, 2189-2196.	14.0	27
54	Carbon Monoxide Adsorption on Molybdenum Phosphides: \hat{A} Fourier Transform Infrared Spectroscopic and Density Functional Theory Studies. <i>Journal of Physical Chemistry B</i> , 2003, 107, 13698-13702.	2.6	26

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55	Catalytic production of low-carbon footprint sustainable natural gas. <i>Nature Communications</i> , 2022, 13, 258.	12.8	26
56	The Synthesis of Three-Dimensional CeO ₂ and Their Catalytic Activities for CO Oxidation. <i>Catalysis Letters</i> , 2009, 131, 350-355.	2.6	23
57	Unravelling the water oxidation mechanism on NaTaO ₃ -based photocatalysts. <i>Journal of Materials Chemistry A</i> , 2020, 8, 6812-6821.	10.3	23
58	Catalytic performance of different types of iron zeolites in N ₂ O decomposition. <i>Chinese Journal of Catalysis</i> , 2013, 34, 876-888.	14.0	22
59	Identification of Fe ₂ ($\frac{1}{4}$ -O) and Fe ₂ ($\frac{1}{4}$ -O) ₂ sites in Fe/ZSM-35 by in situ resonance Raman spectroscopy. <i>Journal of Catalysis</i> , 2013, 301, 77-82.	6.2	21
60	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
61	Bimodal hole transport in bulk BiVO ₄ from computation. <i>Journal of Materials Chemistry A</i> , 2018, 6, 3714-3723.	10.3	20
62	Photo-induced H ₂ production from a CH ₃ OH-H ₂ O solution at insulator surface. <i>Scientific Reports</i> , 2015, 5, 13475.	3.3	19
63	Mechanistic Studies on Photocatalytic Overall Water Splitting over Ga ₂ O ₃ -Based Photocatalysts by <i>Operando</i> MS-FTIR Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 6029-6033.	4.6	19
64	Deep UV resonance Raman spectroscopic study of C _n F _{2n+2} molecules: the excitation of C-C σ^* bond. <i>Journal of Raman Spectroscopy</i> , 2013, 44, 266-269.	2.5	18
65	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
66	Aluminium-containing mesoporous benzene-silicas with crystal-like pore wall structure. <i>Journal of Materials Chemistry</i> , 2005, 15, 4268.	6.7	17
67	Dual Extraction of Photogenerated Electrons and Holes from a Ferroelectric Sr _{0.5} Ba _{0.5} Nb ₂ O ₆ Semiconductor. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 13857-13864.	8.0	16
68	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
69	Atomically unraveling the dependence of surface microstructure on plasmon-induced hydrogen evolution on Au/SrTiO ₃ . <i>Nano Energy</i> , 2022, 91, 106638.	16.0	16
70	Fourier Transform Infrared Spectroscopic Study on the Adsorption of Ethyl Pyruvate on Pt/Al ₂ O ₃ : Side Reactions Suppressed by Adsorbed Hydrogen and Cinchonidine. <i>Journal of Physical Chemistry C</i> , 2007, 111, 823-829.	3.1	15
71	Solvent-free Synthesis of ITQ-12, ITQ-13, and ITQ-17 Zeolites. <i>Chinese Journal of Chemistry</i> , 2017, 35, 572-576.	4.9	15
72	Surface-enhanced Raman scattering of xanthopterin adsorbed on colloidal silver. <i>Journal of Raman Spectroscopy</i> , 2001, 32, 1004-1007.	2.5	12

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73	Catalytic Performance of the Sb ⁵⁺ Mixed Oxide on Sb ⁵⁺ /O/SiO ₂ Catalysts in Methane Selective Oxidation to Formaldehyde. <i>Catalysis Letters</i> , 2006, 106, 89-93.	2.6	12
74	A Short-Wavelength Raman Optical Activity Spectrometer with Laser Source at 457 nm for the Characterization of Chiral Molecules. <i>Applied Spectroscopy</i> , 2017, 71, 2211-2217.	2.2	12
75	Crystallinity and Orientation Manipulation of Anthracene Diimide Polymers for All-Polymer Solar Cells. <i>Advanced Functional Materials</i> , 2021, 31, 2011049.	14.9	12
76	Adsorption and reaction of thiophene and H ₂ S on Mo ₂ C/Al ₂ O ₃ catalyst studied by in situ FT-IR spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2004, 6, 5596.	2.8	10
77	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
78	Urea Derivative-Promoted CsPbI ₂ Br Perovskite Solar Cells with High Open-Circuit Voltage. <i>Solar Rrl</i> , 2022, 6, 2101057.	5.8	10
79	Structure and Basicity of Microporous Titanosilicate ETS-10 and Vanadium-Containing ETS-10. <i>Journal of Physical Chemistry C</i> , 2012, 116, 17124-17133.	3.1	9
80	Hydrogen bonding in homochiral dimers of hydroxyesters studied by Raman optical activity spectroscopy. <i>Journal of Raman Spectroscopy</i> , 2012, 43, 503-513.	2.5	9
81	A novel synthetic strategy of Fe-ZSM-35 with pure framework Fe species and its formation mechanism. <i>Inorganic Chemistry Frontiers</i> , 2018, 5, 2031-2037.	6.0	9
82	Coadsorption of trimethyl phosphine and thiocyanate on colloidal silver: a SERS study combined with theoretical calculations. <i>Journal of Raman Spectroscopy</i> , 2009, 40, 387-393.	2.5	8
83	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
84	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
85	Solvent-free gas-phase epoxidation of propylene in fluidized bed reactor. <i>AIChE Journal</i> , 2021, 67, e17218.	3.6	8
86	Algebraic approach to stretching vibrational spectrum of H ₂ S. <i>Science Bulletin</i> , 1999, 44, 1961-1964.	1.7	7
87	Enhancing photoresponsivity of self-powered UV photodetectors based on electrochemically reduced TiO ₂ nanorods. <i>RSC Advances</i> , 2015, 5, 95939-95942.	3.6	7
88	The High-Performance Hollow Silicalite-1@Titanium Silicalite-1 Core-Shell Catalyst for Propene Epoxidation. <i>ChemistrySelect</i> , 2017, 2, 10097-10100.	1.5	7
89	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
90	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

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91	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
92	Liquid-Phase Epoxidation of Propylene with H ₂ O ₂ over TS-1 Zeolite: Impurity Formation and Inhibition Study. <i>Industrial & Engineering Chemistry Research</i> , 2021, 60, 12109-12122.	3.7	6
93	Multifunctional human serum albumin in the surface-enhanced Raman spectroscopy of porphyrin: demetalation promoter, molecular spacer and stabilizer. <i>Journal of Raman Spectroscopy</i> , 2010, 41, 1615-1620.	2.5	5
94	Stereostructural Elucidation of Glucose Phosphorylation by Raman Optical Activity. <i>Journal of Physical Chemistry B</i> , 2019, 123, 7794-7800.	2.6	5
95	V ⁵⁺ -O ²⁻ -Ag Linkages in VAgO _x 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
96	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
97	Sustainable Synthesis of Pure Silica Zeolites from a Combined Strategy of Zeolite Seeding and Alcohol Filling. <i>Angewandte Chemie</i> , 2019, 131, 12266-12270.	2.0	3
98	Static Synthesis and Crystallization Mechanism of ZSM-35 Zeolite. <i>Chinese Journal of Catalysis</i> , 2010, 31, 788-792.	14.0	1
99	Photocatalytic Overall Water Splitting Promoted by an $\text{In}^{\text{III}}/\text{In}^{\text{II}}$ Phase Junction on Ga ₂ O ₃ (<i>Angew. Chem.</i> 52/2012). <i>Angewandte Chemie</i> , 2012, 124, 13356-13356.	2.0	0