

Fengtao Fan

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.

113
papers

5,029
citations

41
h-index

68
g-index

127
ext. papers

6,453
ext. citations

11.9
avg, IF

5.86
L-index

#	Paper	IF	Citations
113	Formation of multifaceted nano-groove structure on rutile TiO ₂ photoanode for efficient electron-hole separation and water splitting. <i>Journal of Energy Chemistry</i> , 2022 , 65, 19-25	12	4
112	Can Li: A Career in Catalysis. <i>ACS Catalysis</i> , 2022 , 12, 3063-3082	13.1	1
111	Oxygen activation on Ba-containing perovskite materials.. <i>Science Advances</i> , 2022 , 8, eabn4072	14.3	7
110	Charge Separation by Creating Band Bending in Metal-Organic Frameworks for Improved Photocatalytic Hydrogen Evolution.. <i>Angewandte Chemie - International Edition</i> , 2022 , e202204108	16.4	8
109	Constructing Anatase-Brookite TiO Phase Junction by Thermal Topotactic Transition to Promote Charge Separation for Superior Photocatalytic H Generation.. <i>Journal of Physical Chemistry Letters</i> , 2022 , 4244-4250	6.4	1
108	Dual Ligands Strategy to Regulate the Nucleation and Growth of Lead Chromate Photoanode for Photoelectrochemical Water Splitting.. <i>Advanced Materials</i> , 2022 , e2110610	24	2
107	Identifying the Role of the Local Charge Density on the Hydrogen Evolution Reaction of the Photoelectrode. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 10829-10836	6.4	1
106	Rational Design of Dot-on-Rod Nano-Heterostructure for Photocatalytic CO Reduction: Pivotal Role of Hole Transfer and Utilization. <i>Advanced Materials</i> , 2021 , e2106662	24	6
105	Visualizing the Spatial Heterogeneity of Electron Transfer on a Metallic Nanoplate Prism. <i>Nano Letters</i> , 2021 , 21, 8901-8909	11.5	1
104	Nanospatial Charge Modulation of Monodispersed Polymeric Microsphere Photocatalysts for Exceptional Hydrogen Peroxide Production. <i>Small</i> , 2021 , 17, e2103224	11	8
103	Ultrathin Cobalt Oxide Interlayer Facilitated Hole Storage for Sustained Water Oxidation over Compositing Tantalum Nitride Photoanodes. <i>ACS Catalysis</i> , 2021 , 11, 12736-12744	13.1	4
102	Hole-Storage Enhanced a-Si Photocathodes for Efficient Hydrogen Production. <i>Angewandte Chemie</i> , 2021 , 133, 12073-12079	3.6	0
101	Hole-Storage Enhanced a-Si Photocathodes for Efficient Hydrogen Production. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 11966-11972	16.4	4
100	Interfacial Modulation with Aluminum Oxide for Efficient Plasmon-Induced Water Oxidation. <i>Advanced Functional Materials</i> , 2021 , 31, 2005688	15.6	11
99	Probing of coupling effect induced plasmonic charge accumulation for water oxidation. <i>National Science Review</i> , 2021 , 8, nwa151	10.8	16
98	Site Sensitivity of Interfacial Charge Transfer and Photocatalytic Efficiency in Photocatalysis: Methanol Oxidation on Anatase TiO ₂ Nanocrystals. <i>Angewandte Chemie</i> , 2021 , 133, 6225-6234	3.6	4
97	Site Sensitivity of Interfacial Charge Transfer and Photocatalytic Efficiency in Photocatalysis: Methanol Oxidation on Anatase TiO Nanocrystals. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 6160-6169	16.4	18

96	Light-driven directional ion transport for enhanced osmotic energy harvesting. <i>National Science Review</i> , 2021 , 8, nwaa231	10.8	6
95	A highly reversible zinc deposition for flow batteries regulated by critical concentration induced nucleation. <i>Energy and Environmental Science</i> , 2021 , 14, 4077-4084	35.4	15
94	Mechanistic Understanding of Efficient Photocatalytic H Evolution on Two-Dimensional Layered Lead Iodide Hybrid Perovskites. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 7376-7381	16.4	13
93	Mechanistic Understanding of Efficient Photocatalytic H ₂ Evolution on Two-Dimensional Layered Lead Iodide Hybrid Perovskites. <i>Angewandte Chemie</i> , 2021 , 133, 7452-7457	3.6	2
92	Unassisted Photoelectrochemical Cell with Multimediator Modulation for Solar Water Splitting Exceeding 4% Solar-to-Hydrogen Efficiency. <i>Journal of the American Chemical Society</i> , 2021 , 143, 12499-12508	16.4	41
91	Boosting photocatalytic water oxidation by surface plasmon resonance of Ag _x Au _{1-x} alloy nanoparticles. <i>Nano Energy</i> , 2021 , 87, 106189	17.1	11
90	Visually resolving the direct Z-scheme heterojunction in CdS@ZnIn ₂ S ₄ hollow cubes for photocatalytic evolution of H ₂ and H ₂ O ₂ from pure water. <i>Applied Catalysis B: Environmental</i> , 2021 , 293, 120213	21.8	36
89	Heteroatom Dopants Promote Two-Electron O ₂ Reduction for Photocatalytic Production of H ₂ O ₂ on Polymeric Carbon Nitride. <i>Angewandte Chemie</i> , 2020 , 132, 16343-16351	3.6	7
88	Heteroatom Dopants Promote Two-Electron O Reduction for Photocatalytic Production of H ₂ O on Polymeric Carbon Nitride. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 16209-16217	16.4	98
87	Anchoring of black phosphorus quantum dots onto WO nanowires to boost photocatalytic CO conversion into solar fuels. <i>Chemical Communications</i> , 2020 , 56, 7777-7780	5.8	29
86	Effects of the interfacial defects in Au/ TiO on plasmon-induced water oxidation. <i>Journal of Chemical Physics</i> , 2020 , 152, 194702	3.9	8
85	A Hydrogen Farm Strategy for Scalable Solar Hydrogen Production with Particulate Photocatalysts. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 9653-9658	16.4	71
84	A Hydrogen Farm Strategy for Scalable Solar Hydrogen Production with Particulate Photocatalysts. <i>Angewandte Chemie</i> , 2020 , 132, 9740-9745	3.6	14
83	Lattice distortion induced internal electric field in TiO photoelectrode for efficient charge separation and transfer. <i>Nature Communications</i> , 2020 , 11, 2129	17.4	41
82	Surface-Polarity-Induced Spatial Charge Separation Boosts Photocatalytic Overall Water Splitting on GaN Nanorod Arrays. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 935-942	16.4	55
81	Surface-Polarity-Induced Spatial Charge Separation Boosts Photocatalytic Overall Water Splitting on GaN Nanorod Arrays. <i>Angewandte Chemie</i> , 2020 , 132, 945-952	3.6	12
80	Internal-Field-Enhanced Charge Separation in a Single-Domain Ferroelectric PbTiO Photocatalyst. <i>Advanced Materials</i> , 2020 , 32, e1906513	24	68
79	Advanced space- and time-resolved techniques for photocatalyst studies. <i>Chemical Communications</i> , 2020 , 56, 1007-1021	5.8	28

78	Unraveling the Kinetics of Photocatalytic Water Oxidation on WO. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 412-418	6.4	11
77	The Polarization Effect in Surface-Plasmon-Induced Photocatalysis on Au/TiO Nanoparticles. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 18218-18223	16.4	37
76	The Polarization Effect in Surface-Plasmon-Induced Photocatalysis on Au/TiO ₂ Nanoparticles. <i>Angewandte Chemie</i> , 2020 , 132, 18375-18380	3.6	11
75	Surface Assisted Charge Separation in PEC CuS-Ni/CuO Cathode. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 34000-34009	9.5	11
74	SnS Nanosheets/H-TiO Nanotube Arrays as a Type II Heterojunctioned Photoanode for Photoelectrochemical Water Splitting. <i>ChemSusChem</i> , 2019 , 12, 961-967	8.3	50
73	Visible-light-driven coproduction of diesel precursors and hydrogen from lignocellulose-derived methylfurans. <i>Nature Energy</i> , 2019 , 4, 575-584	62.3	130
72	Crystallographic-Orientation-Dependent Charge Separation of BiVO ₄ for Solar Water Oxidation. <i>ACS Energy Letters</i> , 2019 , 4, 825-831	20.1	80
71	Effect of Facet-Selective Assembly of Cocatalyst on BiVO ₄ Photoanode for Solar Water Oxidation. <i>ChemCatChem</i> , 2019 , 11, 3763-3769	5.2	20
70	Efficient Plasmonic Au/CdSe Nanodumbbell for Photoelectrochemical Hydrogen Generation beyond Visible Region. <i>Advanced Energy Materials</i> , 2019 , 9, 1803889	21.8	56
69	Interfacial Charge Modulation: An Efficient Strategy for Boosting Spatial Charge Separation on Semiconductor Photocatalysts. <i>Advanced Energy Materials</i> , 2019 , 9, 1803951	21.8	71
68	Giant Defect-Induced Effects on Nanoscale Charge Separation in Semiconductor Photocatalysts. <i>Nano Letters</i> , 2019 , 19, 426-432	11.5	35
67	Selective reduction of CO ₂ to CO under visible light by controlling coordination structures of CeO _x -S/ZnIn ₂ S ₄ hybrid catalysts. <i>Applied Catalysis B: Environmental</i> , 2019 , 245, 262-270	21.8	40
66	Promoting Photocatalytic H ₂ Evolution on Organic-Inorganic Hybrid Perovskite Nanocrystals by Simultaneous Dual-Charge Transportation Modulation. <i>ACS Energy Letters</i> , 2019 , 4, 40-47	20.1	81
65	Unique homo-heterojunction synergistic system consisting of stacked BiOCl nanoplate/Zn-Cr layered double hydroxide nanosheets promoting photocatalytic conversion of CO into solar fuels. <i>Chemical Communications</i> , 2018 , 54, 5126-5129	5.8	20
64	Mimicking the Key Functions of Photosystem II in Artificial Photosynthesis for Photoelectrocatalytic Water Splitting. <i>Journal of the American Chemical Society</i> , 2018 , 140, 3250-3256	16.4	165
63	Imaging photogenerated charge carriers on surfaces and interfaces of photocatalysts with surface photovoltage microscopy. <i>Chemical Society Reviews</i> , 2018 , 47, 8238-8262	58.5	190
62	Investigating the Coke Formation Mechanism of H-ZSM-5 during Methanol Dehydration Using Operando UV-Raman Spectroscopy. <i>ACS Catalysis</i> , 2018 , 8, 9207-9215	13.1	40
61	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	6.8	7

60	Integration of FeS electrocatalysts and simultaneously generated interfacial oxygen vacancies to synergistically boost photoelectrochemical water splitting of FeO photoanodes. <i>Chemical Communications</i> , 2018 , 54, 13817-13820	5.8	17
59	Selective production of phase-separable product from a mixture of biomass-derived aqueous oxygenates. <i>Nature Communications</i> , 2018 , 9, 5183	17.4	30
58	Photo-induced self-formation of dual-cocatalysts on semiconductor surface. <i>Chinese Journal of Catalysis</i> , 2018 , 39, 1730-1735	11.3	6
57	Charge separation via asymmetric illumination in photocatalytic Cu ₂ O particles. <i>Nature Energy</i> , 2018 , 3, 655-663	62.3	191
56	Solvent-Free Synthesis of ITQ-12, ITQ-13, and ITQ-17 Zeolites. <i>Chinese Journal of Chemistry</i> , 2017 , 35, 572-576	4.9	10
55	Insights into the aminothermal crystallization process of SAPO-34 and its comparison with hydrothermal system. <i>Microporous and Mesoporous Materials</i> , 2017 , 248, 204-213	5.3	10
54	Directly Probing Charge Separation at Interface of TiO Phase Junction. <i>Journal of Physical Chemistry Letters</i> , 2017 , 8, 1419-1423	6.4	135
53	Visualizing the Nano Cocatalyst Aligned Electric Fields on Single Photocatalyst Particles. <i>Nano Letters</i> , 2017 , 17, 6735-6741	11.5	108
52	Achieving overall water splitting on plasmon-based solid Z-scheme photocatalysts free of redox mediators. <i>Journal of Catalysis</i> , 2017 , 354, 250-257	7.3	39
51	Positioning the Water Oxidation Reaction Sites in Plasmonic Photocatalysts. <i>Journal of the American Chemical Society</i> , 2017 , 139, 11771-11778	16.4	222
50	CoO nanoparticle anchored on sulfonated-graphite as efficient water oxidation catalyst. <i>Chemical Science</i> , 2017 , 8, 6111-6116	9.4	51
49	Unravelling charge separation via surface built-in electric fields within single particulate photocatalysts. <i>Faraday Discussions</i> , 2017 , 198, 473-479	3.6	24
48	Bridging surface states and current-potential response over hematite-based photoelectrochemical water oxidation. <i>RSC Advances</i> , 2016 , 6, 85582-85586	3.7	29
47	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	2.3	8
46	Enhancing charge separation on high symmetry SrTiO ₃ exposed with anisotropic facets for photocatalytic water splitting. <i>Energy and Environmental Science</i> , 2016 , 9, 2463-2469	35.4	274
45	An artificial photosynthetic system containing an inorganic semiconductor and a molecular catalyst for photocatalytic water oxidation. <i>Journal of Catalysis</i> , 2016 , 338, 168-173	7.3	57
44	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, 13857-64	9.5	14
43	A tetragonal tungsten bronze-type photocatalyst: Ferro-paraelectric phase transition and photocatalysis. <i>Chinese Journal of Catalysis</i> , 2016 , 37, 1257-1262	11.3	19

42	Manipulating the Interfacial Energetics of n-type Silicon Photoanode for Efficient Water Oxidation. <i>Journal of the American Chemical Society</i> , 2016 , 138, 13664-13672	16.4	105
41	Construction and Nanoscale Detection of Interfacial Charge Transfer of Elegant Z-Scheme WO ₃ /Au/In ₂ S ₃ Nanowire Arrays. <i>Nano Letters</i> , 2016 , 16, 5547-52	11.5	171
40	Construction of unique six-coordinated titanium species with an organic amine ligand in titanosilicate and their unprecedented high efficiency for alkene epoxidation. <i>Chemical Communications</i> , 2015 , 51, 9010-3	5.8	76
39	Direct Imaging of Highly Anisotropic Photogenerated Charge Separations on Different Facets of a Single BiVO ₄ Photocatalyst. <i>Angewandte Chemie</i> , 2015 , 127, 9239-9242	3.6	50
38	Synergetic effect of dual co-catalysts on the activity of p-type Cu ₂ O crystals with anisotropic facets. <i>Chemistry - A European Journal</i> , 2015 , 21, 14337-41	4.8	62
37	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, 9111-4	16.4	218
36	UV Raman Spectroscopic Characterization of Catalysts and Catalytic Active Sites. <i>Catalysis Letters</i> , 2015 , 145, 468-481	2.8	27
35	Effect of the Nature and Location of Copper Species on the Catalytic Nitric Oxide Selective Catalytic Reduction Performance of the Copper/SSZ-13 Zeolite. <i>ChemCatChem</i> , 2014 , 6, 634-639	5.2	25
34	Sustainable synthesis of zeolites without addition of both organotemplates and solvents. <i>Journal of the American Chemical Society</i> , 2014 , 136, 4019-25	16.4	177
33	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	1.7	9
32	Study of the phase transformation of single particles of Ga ₂ O ₃ by UV-Raman spectroscopy and high-resolution TEM. <i>Chemistry - an Asian Journal</i> , 2013 , 8, 2189-95	4.5	18
31	Time-resolved infrared spectroscopic investigation of roles of valence states of Cr in (La,Cr)-doped SrTiO ₃ photocatalysts. <i>Chinese Journal of Catalysis</i> , 2013 , 34, 2036-2040	11.3	12
30	Deep UV resonance Raman spectroscopic study of C _n F _{2n+2} molecules: the excitation of C-C bond. <i>Journal of Raman Spectroscopy</i> , 2013 , 44, 266-269	2.3	17
29	Catalytic performance of different types of iron zeolites in N ₂ O decomposition. <i>Chinese Journal of Catalysis</i> , 2013 , 34, 876-888	11.3	17
28	Identification of Fe ₂ (EO) and Fe ₂ (EO) ₂ sites in Fe/ZSM-35 by in situ resonance Raman spectroscopy. <i>Journal of Catalysis</i> , 2013 , 301, 77-82	7.3	20
27	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	7.3	29
26	Highly active and recyclable Sn-MWW zeolite catalyst for sugar conversion to methyl lactate and lactic acid. <i>ChemSusChem</i> , 2013 , 6, 1352-6	8.3	120
25	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	3.8	44

24	Synthesis and morphology control of AM-6 nanofibers with tailored -V-O-V- intermediates. <i>Chemistry - A European Journal</i> , 2013 , 19, 14200-4	4.8	5
23	From molecular fragments to active sites: in situ, resonance UV Raman spectroscopy study on zeolitic catalyst. <i>Scientia Sinica Chimica</i> , 2013 , 43, 1818	1.6	2
22	UV Raman Spectroscopic Studies on the Synthesis Mechanism of FeAlPO ₄ -5. <i>Chinese Journal of Catalysis</i> , 2012 , 33, 106-113	11.3	3
21	Molecular engineering of microporous crystals: (III) The influence of water content on the crystallization of microporous aluminophosphate AlPO ₄ -11. <i>Microporous and Mesoporous Materials</i> , 2012 , 147, 212-221	5.3	40
20	Enhancement of the visible light absorption intensity of microporous vanadosilicate AM-6. <i>Chemical Communications</i> , 2012 , 48, 11892-4	5.8	6
19	"Extracting" the key fragment in ETS-10 crystallization and its application in AM-6 assembly. <i>Chemistry - A European Journal</i> , 2012 , 18, 12078-84	4.8	7
18	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, 13854-60	4.8	101
17	Raman and UV-Raman Spectroscopies 2012 , 49-87		3
16	Structure and Basicity of Microporous Titanosilicate ETS-10 and Vanadium-Containing ETS-10. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 17124-17133	3.8	8
15	²⁹ Si NMR and UV Raman Investigation of Initial Oligomerization Reaction Pathways in Acid-Catalyzed Silica Sol-Gel Chemistry. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 3562-3571	3.8	54
14	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, 6162-9	4.8	47
13	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, 378-87	24.3	117
12	UV Raman spectroscopic study on the synthesis mechanism and assembly of molecular sieves. <i>Chemical Society Reviews</i> , 2010 , 39, 4794-801	58.5	75
11	Static Synthesis and Crystallization Mechanism of ZSM-35 Zeolite. <i>Chinese Journal of Catalysis</i> , 2010 , 31, 788-792	11.3	1
10	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, 3268-76	4.8	75
9	In Situ UV Raman Spectroscopic Study on the Synthesis Mechanism of AlPO ₄ -5. <i>Angewandte Chemie</i> , 2009 , 121, 8899-8903	3.6	12
8	In situ UV Raman spectroscopic study on the synthesis mechanism of AlPO ₄ -5. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 8743-7	16.4	63
7	Mesoporous titanosilicates with high loading of titanium synthesized in mild acidic buffer solution. <i>Journal of Colloid and Interface Science</i> , 2009 , 335, 203-9	9.3	11

6	Location of Mg cations in mordenite zeolite studied by IR spectroscopy and density functional theory simulations with a CO adsorption probe. <i>Journal of Physical Chemistry A</i> , 2008 , 112, 1352-8	2.8	13
5	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	3.8	51
4	In situ UV Raman spectroscopic studies on the synthesis mechanism of zeolite X. <i>Chemistry - A European Journal</i> , 2008 , 14, 5125-9	4.8	62
3	Mesoporous ferrosilicates with high content of isolated iron species synthesized in mild buffer solution and their catalytic application. <i>Microporous and Mesoporous Materials</i> , 2008 , 113, 231-239	5.3	55
2	Effect of aluminum on the nature of the iron species in Fe-SBA-15. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 26114-21	3.4	59
1	Low-Work Function Metals Boost Selective and Fast Scission of Methanol C-H Bonds. <i>ACS Catalysis</i> , 6375-6384	6.3	2