

Xueming Yang

List of Publications by Year in descending order

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272
papers

8,774
citations

66250

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64407

83
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all docs

282
docs citations

282
times ranked

7552
citing authors

#	ARTICLE	IF	CITATIONS
1	One-Pot Ethyl Acetate Production from Ethanol Photooxidation on Rutile TiO ₂ (110): Strong Photon Energy Dependence. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 801-807.	2.1	2
2	A molecular beam-surface apparatus for quantum state-resolved adsorption studies. <i>Review of Scientific Instruments</i> , 2022, 93, 013201.	0.6	1
3	Motif-dependent immune co-receptor interactome profiling by photoaffinity chemical proteomics. <i>Cell Chemical Biology</i> , 2022, 29, 1024-1036.e5.	2.5	8
4	Infrared spectroscopic signature of the structural diversity of the water heptamer. <i>Cell Reports Physical Science</i> , 2022, 3, 100748.	2.8	9
5	Photodissociation dynamics of CO ₂ + <i>hν</i> → CO(X ¹ Σ ⁺) + O(1D ₂) via the 3P ₁ state. <i>Journal of Chemical Physics</i> , 2022, 156, 054302.	1.2	4
6	Chloride-Mediated Peroxide-Free Photochemical Oxidation of Proteins (PPOP) in Mass Spectrometry-Based Structural Analysis. <i>Analytical Chemistry</i> , 2022, 94, 1135-1142.	3.2	6
7	<i>tert</i> -Butanol Chemistry on Rutile TiO ₂ (110): The Effect of Surface Oxidation. <i>Journal of Physical Chemistry C</i> , 2022, 126, 3457-3465.	1.5	1
8	Photochemistry of 2-Propanol on Rutile TiO ₂ (110). <i>Journal of Physical Chemistry C</i> , 2022, 126, 3949-3956.	1.5	0
9	Ligand-Induced Tuning of the Electronic Structure of Rhombus Tetraboron Cluster. <i>ChemPhysChem</i> , 2022, 23, e202200060.	1.0	2
10	Valence Band of Rutile TiO ₂ (110) Investigated by Polarized-Light-Based Angle-Resolved Photoelectron Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 2299-2305.	2.1	6
11	Low-Temperature C-H Bond Activation: Ethylbenzene-to-Styrene Conversion on Rutile TiO ₂ (110). <i>Journal of Physical Chemistry C</i> , 2022, 126, 6231-6240.	1.5	2
12	Hydrogen Production on Pt/TiO ₂ : Synergistic Catalysis between Pt Clusters and Interfacial Adsorbates. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 3182-3187.	2.1	4
13	In-situ generation and global property profiling of metal nanoclusters by ultraviolet laser dissociation-mass spectrometry. <i>Science China Chemistry</i> , 2022, 65, 1196-1203.	4.2	11
14	Rotational state specific dissociation dynamics of D ₂ O via the C ₁ f(010) state: The effect of bending vibrational excitation. <i>Journal of Chemical Physics</i> , 2022, 156, .	1.2	1
15	Atomic-Scale Observation of Sequential Oxidation Process on Co(0001). <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 5131-5136.	2.1	2
16	Memorial Viewpoint for Keli Han. <i>Journal of Physical Chemistry A</i> , 2022, 126, 3973-3975.	1.1	0
17	Infrared Spectroscopy of Stepwise Hydration Motifs of Sulfur Dioxide. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 5654-5659.	2.1	8
18	Aerosol mass spectrometry of neutral species based on a tunable vacuum ultraviolet free electron laser. <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 16484-16492.	1.3	5

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19	Identifying Photocatalytic Active Sites of C_2H_6 C-H Bond Activation on TiO_2 via Combining First-Principles Ground-State and Excited-State Electronic Structure Calculations. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 6532-6540.	2.1	6
20	Crossed Molecular Beam Study of the $H + HD^+ H_2 + D$ Reaction at 0.60 and 1.26 eV Using the Near-Threshold Ionization Velocity Map Ion Imaging. <i>Journal of Physical Chemistry A</i> , 2022, 126, 4444-4450.	1.1	1
21	Photocatalytic C-H Bond Activation of Toluene on Rutile $TiO_2(110)$. <i>Journal of Physical Chemistry C</i> , 2022, 126, 11963-11970.	1.5	9
22	VUV photodissociation of DNCO: dynamics of the D atom elimination channel. <i>Molecular Physics</i> , 2021, 119, e1821923.	0.8	0
23	Velocity map imaging studies of the photodissociation of CS_2 by two-photon excitation at around 303-315 nm. <i>Molecular Physics</i> , 2021, 119, e1813911.	0.8	4
24	Direct Observation of the $C + S_2$ Channel in CS_2 Photodissociation. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 844-849.	2.1	10
25	Vacuum ultraviolet photodissociation dynamics of $OCS + h\nu \rightarrow CO^+ + S^+$ via the E and F Rydberg states. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 5809-5816.	1.3	7
26	Ultrafast decay dynamics of electronically excited 2-ethylpyrrole. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 17625-17633.	1.3	6
27	The role of the three body photodissociation channel of water in the evolution of dioxygen in astrophysical applications. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 9235-9248.	1.3	2
28	Wavelength-Dependent Water Oxidation on Rutile $TiO_2(110)$. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 1066-1072.	2.1	7
29	Vibrational Signature of Dynamic Coupling of a Strong Hydrogen Bond. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 2259-2265.	2.1	12
30	Quantum interference between spin-orbit split partial waves in the $F + HD^+ HF + D$ reaction. <i>Science</i> , 2021, 371, 936-940.	6.0	17
31	Low-Temperature Aldol Condensation of Aldehydes on $R-TiO_2(100)-(1 \text{ \AA} - 1)$: Exceptional Selectivity for α,β -Unsaturated Enal Production. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 1708-1717.	2.1	4
32	Origin of the Adsorption-State-Dependent Photoactivity of Methanol on $TiO_2(110)$. <i>ACS Catalysis</i> , 2021, 11, 2620-2630.	5.5	18
33	Alkoxylation Reaction of Alcohol on Silica Surfaces Studied by Sum Frequency Vibrational Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2021, 125, 8638-8646.	1.5	17
34	Photodissociation Dynamics of H_2O via the 1_4A_2 (1B_2) Electronic State. <i>Journal of Physical Chemistry A</i> , 2021, 125, 3622-3630.	1.1	1
35	Three body photodissociation of the water molecule and its implications for prebiotic oxygen production. <i>Nature Communications</i> , 2021, 12, 2476.	5.8	15
36	Hydrophobic Modification of Silica Surfaces via Grafting Alkoxy Groups. <i>ACS Applied Electronic Materials</i> , 2021, 3, 1691-1698.	2.0	8

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37	Ultrahigh sensitive transient absorption spectrometer. Review of Scientific Instruments, 2021, 92, 053002.	0.6	7
38	Effects of surface defects on adsorption of CO and methyl groups on rutile TiO ₂ (110). Chinese Journal of Chemical Physics, 2021, 34, 249-255.	0.6	0
39	Onâ€‘Surface Decarboxylation Coupling Facilitated by Lockâ€‘toâ€‘Unlock Variation of Molecules upon the Reaction. Angewandte Chemie - International Edition, 2021, 60, 17435-17439.	7.2	12
40	Onâ€‘Surface Decarboxylation Coupling Facilitated by Lockâ€‘toâ€‘Unlock Variation of Molecules upon the Reaction. Angewandte Chemie, 2021, 133, 17575-17579.	1.6	2
41	Transformation between the Dark and Bright Self-Trapped Excitons in Lead-Free Double-Perovskite Cs ₂ NaBiCl ₆ under Pressure. Journal of Physical Chemistry Letters, 2021, 12, 7285-7292.	2.1	27
42	A free electron laser-based 1+1â€‘ Resonance-Enhanced Multiphoton Ionization scheme for rotationally resolved detection of OH radicals with correct relative intensities. Journal of Molecular Spectroscopy, 2021, 380, 111509.	0.4	3
43	Strong isotope effect in the VUV photodissociation of HOD: A possible origin of D/H isotope heterogeneity in the solar nebula. Science Advances, 2021, 7, .	4.7	5
44	Rotational and nuclear-spin levelâ€‘dependent photodissociation dynamics of H ₂ S. Nature Communications, 2021, 12, 4459.	5.8	14
45	Efficient generation of narrowband picosecond pulses from a femtosecond laser. Review of Scientific Instruments, 2021, 92, 083001.	0.6	2
46	Subsurfaceâ€‘Carbonâ€‘Induced Local Charge of Copper for an Onâ€‘Surface Displacement Reaction. Angewandte Chemie, 2021, 133, 23307.	1.6	0
47	Experimental and Computational Studies of Criegee Intermediate <i>syn</i> -CH ₃ CHOO Reaction with Hydrogen Chloride. Journal of Physical Chemistry A, 2021, 125, 8587-8594.	1.1	10
48	Subsurfaceâ€‘Carbonâ€‘Induced Local Charge of Copper for an Onâ€‘Surface Displacement Reaction. Angewandte Chemie - International Edition, 2021, 60, 23123-23127.	7.2	6
49	Kinetics of CH ₂ OO and <i>syn</i> -CH ₃ CHOO reaction with acrolein. Physical Chemistry Chemical Physics, 2021, 23, 13276-13283.	1.3	9
50	Observation of Carbonâ€‘Carbon Coupling Reaction in Neutral Transition-Metal Carbonyls. Journal of Physical Chemistry Letters, 2021, 12, 1012-1017.	2.1	12
51	Deconstructing Vibrational Motions on the Potential Energy Surfaces of Hydrogen-Bonded Complexes. CCS Chemistry, 2021, 3, 829-835.	4.6	13
52	Spectroscopic Identification of Transition-Metal M[² -(O,O)C] Species for Highly-Efficient CO ₂ Activation. Journal of Physical Chemistry Letters, 2021, 12, 472-477.	2.1	8
53	Photochemical bromination and iodination of peptides and proteins by photoexcitation of aqueous halides. Chemical Communications, 2021, 57, 11972-11975.	2.2	5
54	Anisotropic dâ€‘d Transition in Rutile TiO ₂ . Journal of Physical Chemistry Letters, 2021, 12, 10515-10520.	2.1	5

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55	Vibrationally excited molecular hydrogen production from the water photochemistry. <i>Nature Communications</i> , 2021, 12, 6303.	5.8	15
56	Midinfrared Tunable Laser with Noncritical Frequency Matching in Box Resonator Geometry. <i>Physical Review Letters</i> , 2021, 127, 213902.	2.9	5
57	A molecular double-slit experiment. <i>Science</i> , 2021, 374, 938-939.	6.0	2
58	C=O versus C=C Bond Cleavage in Ethylene Glycol Photochemistry on Rutile TiO ₂ (110): Selectivity Depends on Excess Electrons. <i>Journal of Physical Chemistry C</i> , 2021, 125, 25580-25588.	1.5	2
59	Differential cross sections of F+HD → DF+H reaction at collision energies from 3.03 MeV to 17.97 MeV. <i>Chinese Journal of Chemical Physics</i> , 2021, 34, 925-931.	0.6	1
60	Photodissociation dynamics of H ₂ O and D ₂ O via the D ¹ (¹ A ₁) electronic state. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 4379-4386.	1.3	4
61	Water Photolysis and Its Contributions to the Hydroxyl Dayglow Emissions in the Atmospheres of Earth and Mars. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 9086-9092.	2.1	19
62	Temperature- and pressure-dependent rate coefficient measurement for the reaction of CH ₂ OO with CH ₃ CH ₂ CHO. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 25869-25875.	1.3	8
63	Optimal d-band-induced Cu ₃ N as a cocatalyst on metal sulfides for boosting photocatalytic hydrogen evolution. <i>Journal of Materials Chemistry A</i> , 2020, 8, 22601-22606.	5.2	20
64	Photodissociation Dynamics of OCS near 150 nm: The S(¹ S ₀) and S(³ P _{2,1,0}) Product Channels. <i>Journal of Physical Chemistry A</i> , 2020, 124, 6420-6426.	1.1	10
65	Observation of the geometric phase effect in the H+HD ⁺ H ₂ +D reaction below the conical intersection. <i>Nature Communications</i> , 2020, 11, 3640.	5.8	30
66	Hydrogen Production via Methanol Photocatalysis on Au/Rutile-TiO ₂ (110). <i>Journal of Physical Chemistry C</i> , 2020, 124, 26965-26972.	1.5	9
67	In Situ Observation of Stepwise C-H Bond Scission: Deciphering the Catalytic Selectivity of Ethylbenzene-to-Styrene Conversion on TiO ₂ . <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 9850-9855.	2.1	5
68	A crossed molecular beam apparatus with multi-channel Rydberg tagging time-of-flight detection. <i>Review of Scientific Instruments</i> , 2020, 91, 073202.	0.6	3
69	Quantitative insights into non-uniform plasmonic hotspots due to symmetry breaking induced by oblique incidence. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 19932-19939.	1.3	4
70	Surface Oxidation Modulates the Interfacial and Lateral Thermal Migration of MXene (Ti ₃ C ₂ T _x) Flakes. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 9521-9527.	2.1	13
71	Infrared spectroscopic study of hydrogen bonding topologies in the smallest ice cube. <i>Nature Communications</i> , 2020, 11, 5449.	5.8	35
72	Virtual Issue on Combustion Chemistry. <i>Journal of Physical Chemistry A</i> , 2020, 124, 5995-5996.	1.1	0

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73	Electronically Excited OH Super-rotors from Water Photodissociation by Using Vacuum Ultraviolet Free-Electron Laser Pulses. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 7617-7623.	2.1	17
74	Ultraviolet photochemistry of ethane: implications for the atmospheric chemistry of the gas giants. <i>Chemical Science</i> , 2020, 11, 5089-5097.	3.7	10
75	Quantum resonances near absolute zero. <i>Science</i> , 2020, 368, 582-583.	6.0	4
76	Quantum interference in $H + HD \rightarrow H_2 + D$ between direct abstraction and roaming insertion pathways. <i>Science</i> , 2020, 368, 767-771.	6.0	52
77	Vibrational overtone excitation of D ₂ in a molecular beam with a high-energy, narrow-bandwidth, nanosecond optical parametric oscillator/amplifier. <i>Review of Scientific Instruments</i> , 2020, 91, 053001.	0.6	4
78	Infrared spectroscopy of neutral water clusters at finite temperature: Evidence for a noncyclic pentamer. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 15423-15428.	3.3	55
79	Coverage-Dependent Ethylene Glycol Photochemistry on Rutile-TiO ₂ (110). <i>Journal of Physical Chemistry C</i> , 2020, 124, 14632-14639.	1.5	3
80	Organometallic polymers synthesized from prochiral molecules by a surface-assisted synthesis on Ag(111). <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 8141-8145.	1.3	5
81	Flower-like cobalt carbide for efficient carbon dioxide conversion. <i>Chemical Communications</i> , 2020, 56, 7849-7852.	2.2	30
82	Infrared + vacuum ultraviolet two-color ionization spectroscopy of neutral metal complexes based on a tunable vacuum ultraviolet free-electron laser. <i>Review of Scientific Instruments</i> , 2020, 91, 034103.	0.6	10
83	Ultraviolet photolysis of H ₂ S and its implications for SH radical production in the interstellar medium. <i>Nature Communications</i> , 2020, 11, 1547.	5.8	37
84	A global <i>ab initio</i> potential energy surface and dynamics of the proton-transfer reaction: $OH^+ + D_2 \rightarrow HOD + D^+$. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 8203-8211.	1.3	4
85	State-to-state photodissociation dynamics of CO ₂ around 108 nm: the O(1S) atom channel. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 6260-6265.	1.3	12
86	Single-Atom Pt ⁺ Derived from the Laser Dissociation of a Platinum Cluster: Insights into Nonoxidative Alkane Conversion. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 5987-5991.	2.1	8
87	Kinetic Studies for the Reaction of <i>syn</i> -CH ₃ CHOO with CF ₃ CH=CH ₂ . <i>Journal of Physical Chemistry A</i> , 2020, 124, 6125-6132.	1.1	5
88	Dissymmetric On-Surface Dehalogenation Reaction Steered by Preformed Self-Assembled Structure. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 1867-1872.	2.1	15
89	Ultrafast Transient Spectra and Dynamics of MXene (Ti ₃ C ₂ T _x) in Response to Light Excitations of Various Wavelengths. <i>Journal of Physical Chemistry C</i> , 2020, 124, 6441-6447.	1.5	39
90	Infrared Spectroscopy of Neutral Water Dimer Based on a Tunable Vacuum Ultraviolet Free Electron Laser. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 851-855.	2.1	50

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91	Experimental and Theoretical Study of the Vibrationally Excited Reaction $\text{Cl} + \text{D}_2$ ($v=1$) \rightarrow $\text{ClD} + \text{D}$. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 1222-1227.	1.1	3
92	Imaging the State-to-State Dynamics of the $\text{H} + \text{D}_2 \rightarrow \text{HD} + \text{D}$ Reaction at 1.42 eV. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 1222-1227.	2.1	8
93	Reactivity oscillation in the heavy- \rightarrow light-heavy $\text{Cl} + \text{CH}_4$ reaction. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 9202-9207.	3.3	19
94	Detecting the Photoactivity of the Rutile $\text{TiO}_2(100)-(1 \times 1)$ Surface by Methanol. <i>Journal of Physical Chemistry C</i> , 2020, 124, 8766-8774.	1.5	7
95	Observation of the Carbon Elimination Channel in Vacuum Ultraviolet Photodissociation of OCS. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 4783-4787.	2.1	19
96	Fundamentals of TiO_2 Photocatalysis: Concepts, Mechanisms, and Challenges. <i>Advanced Materials</i> , 2019, 31, e1901997.	11.1	999
97	Unimolecular Reaction Rate Measurement of <i>syn</i> - CH_3CHOO . <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 4817-4821.	2.1	24
98	Striking Isotopologue-Dependent Photodissociation Dynamics of Water Molecules: The Signature of an Accidental Resonance. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 4209-4214.	2.1	12
99	Ethanol and Acetaldehyde Decomposition on $\text{Co}(0001)$: The Effect of Hydrogen Atom on $\text{C}-\text{O}$ Bond Scission. <i>Journal of Physical Chemistry C</i> , 2019, 123, 19045-19051.	1.5	4
100	Adsorption Structure and Coverage-Dependent Orientation Analysis of Sub-Monolayer Acetonitrile on $\text{TiO}_2(110)$. <i>Journal of Physical Chemistry C</i> , 2019, 123, 17915-17924.	1.5	6
101	A broadband sum-frequency generation vibrational spectrometer to probe adsorbed molecules on nanoparticles. <i>Surface Science</i> , 2019, 689, 121459.	0.8	12
102	Ultrafast Flash Energy Conductance at $\text{MXene}/\text{Surfactant}$ Interface and Its Molecular Origins. <i>Advanced Materials Interfaces</i> , 2019, 6, 1901461.	1.9	17
103	Infrared Spectroscopy of Hydrogen-Bonding Interactions in Neutral Dimethylamine-Methanol Complexes. <i>Journal of Physical Chemistry A</i> , 2019, 123, 10109-10115.	1.1	13
104	Single Molecule Photocatalysis on TiO_2 Surfaces. <i>Chemical Reviews</i> , 2019, 119, 11020-11041.	23.0	212
105	Enhanced reactivity of fluorine with para-hydrogen in cold interstellar clouds by resonance-induced quantum tunnelling. <i>Nature Chemistry</i> , 2019, 11, 744-749.	6.6	34
106	Adsorption Features of Formaldehyde on $\text{TiO}_2(110)$ Surface Probed by High-Resolution Scanning Tunneling Microscopy. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 3352-3358.	2.1	13
107	Ultrafast decay dynamics of water molecules excited to electronic $\tilde{D}^1\text{A}^2$ and $\tilde{D}^1\text{A}^2\text{A}^2$ states: a time-resolved photoelectron spectroscopy study. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 15040-15045.	1.3	1
108	On-Surface Fabrication of Small-Sized Nanoporous Graphene. <i>Journal of Physical Chemistry C</i> , 2019, 123, 14404-14407.	1.5	4

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109	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.	1.5	11
110	Li-Ion solvation in propylene carbonate electrolytes determined by molecular rotational measurements. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 10417-10422.	1.3	16
111	Methanol Decomposition on Co(0001): Influence of the Cobalt Oxidation State on Reactivity. <i>Journal of Physical Chemistry C</i> , 2019, 123, 9139-9145.	1.5	6
112	Infrared spectra of neutral dimethylamine clusters: An infrared-vacuum ultraviolet spectroscopic and anharmonic vibrational calculation study. <i>Journal of Chemical Physics</i> , 2019, 150, 064317.	1.2	19
113	The 18-electron rule for main-group alkaline earth octacarbonyl complexes. <i>National Science Review</i> , 2019, 6, 8-9.	4.6	8
114	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.	1.5	14
115	Hydroxyl super rotors from vacuum ultraviolet photodissociation of water. <i>Nature Communications</i> , 2019, 10, 1250.	5.8	37
116	Charting a course for chemistry. <i>Nature Chemistry</i> , 2019, 11, 286-294.	6.6	18
117	Acetaldehyde polymerization on Co(0001): the role of CO. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 8275-8281.	1.3	0
118	Catalytic Hydrogen Production Using A Cobalt Catalyst Bearing a Phosphinoamine Ligand. <i>ChemPhotoChem</i> , 2019, 3, 220-224.	1.5	5
119	Flexible high-resolution broadband sum-frequency generation vibrational spectroscopy for intrinsic spectral line widths. <i>Journal of Chemical Physics</i> , 2019, 150, 074702.	1.2	16
120	In situ formation of mononuclear complexes by reaction-induced atomic dispersion of supported noble metal nanoparticles. <i>Nature Communications</i> , 2019, 10, 5281.	5.8	57
121	Ordered-to-Disordered Transformation of Enhanced Water Structure on Hydrophobic Surfaces in Concentrated Alcohol-Water Solutions. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 7922-7928.	2.1	21
122	Vacuum ultraviolet photodissociation dynamics of CO ₂ near 133 nm: The spin-forbidden O(3P _{j=2,1,0}) + CO(X ¹ Σ ⁺) channel. <i>Journal of Chemical Physics</i> , 2019, 151, 214306.	1.2	13
123	Photocatalytic dissociation of CH ₃ OH on ZnO(0001) surface. <i>Chinese Journal of Chemical Physics</i> , 2019, 32, 525-530.	0.6	0
124	Role of Pt Loading in the Photocatalytic Chemistry of Methanol on Rutile TiO ₂ (110). <i>ACS Catalysis</i> , 2019, 9, 286-294.	5.5	39
125	Elementary Chemical Reactions in Surface Photocatalysis. <i>Annual Review of Physical Chemistry</i> , 2018, 69, 451-472.	4.8	31
126	Enhanced Hydrogen Production from Methanol Photolysis on a Formate-Modified Rutile-TiO ₂ (110) Surface. <i>Journal of Physical Chemistry C</i> , 2018, 122, 13774-13781.	1.5	7

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127	Direct observation of forward-scattering oscillations in the $\text{H} + \text{HD} \hat{\rightarrow} \text{H}_2 + \text{D}$ reaction. <i>Nature Chemistry</i> , 2018, 10, 653-658.	6.6	46
128	Unraveling Charge State of Supported Au Single-Atoms during CO Oxidation. <i>Journal of the American Chemical Society</i> , 2018, 140, 554-557.	6.6	192
129	Low-Temperature Hydrogen Production via Water Conversion on Pt/TiO_2 . <i>Journal of Physical Chemistry C</i> , 2018, 122, 10956-10962.	1.5	29
130	Ultrafast excited-state dynamics of 2,5-dimethylpyrrole. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 15015-15021.	1.3	10
131	Photodissociation dynamics of H_2O at 111.5 nm by a vacuum ultraviolet free electron laser. <i>Journal of Chemical Physics</i> , 2018, 148, 124301.	1.2	29
132	Kinetics of the reaction of the simplest Criegee intermediate with ammonia: a combination of experiment and theory. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 29669-29676.	1.3	27
133	Infrared photodissociation spectroscopy of ion-radical networks in cationic dimethylamine complexes. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 30125-30132.	1.3	3
134	Photoinduced decomposition of formaldehyde on rutile $\text{TiO}_2(100)-(1\bar{1}\bar{1})$. <i>Chinese Journal of Chemical Physics</i> , 2018, 31, 547-554.	0.6	2
135	Observation of the geometric phase effect in the $\text{H} + \text{HD} \hat{\rightarrow} \text{H}_2 + \text{D}$ reaction. <i>Science</i> , 2018, 362, 1289-1293.	6.0	99
136	Deuterium Kinetic Isotope Effect in the Photocatalyzed Dissociation of Methanol on $\text{TiO}_2(110)$. <i>Journal of Physical Chemistry C</i> , 2018, 122, 26512-26518.	1.5	7
137	Vacuum ultraviolet photodissociation dynamics of N_2O via the $\text{C}\hat{1}\Sigma$ state: The $\text{N}(2\text{D}_{j=5/2, 3/2}) + \text{NO}(X\hat{2}\Sigma)$ product channels. <i>Journal of Chemical Physics</i> , 2018, 149, 104309.	1.2	9
138	Temperature-Dependent Infrared Photodissociation Spectroscopy of $(\text{CO}_2)_3^+$ Cation. <i>Journal of Physical Chemistry A</i> , 2018, 122, 8054-8057.	1.1	2
139	Perspective: The development and applications of H Rydberg atom translational spectroscopy methods. <i>Journal of Chemical Physics</i> , 2018, 149, 080901.	1.2	8
140	Metallic Co_2C : A Promising Co-catalyst To Boost Photocatalytic Hydrogen Evolution of Colloidal Quantum Dots. <i>ACS Catalysis</i> , 2018, 8, 5890-5895.	5.5	92
141	Electronic structure and photoabsorption of Ti^{3+} ions in reduced anatase and rutile TiO_2 . <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 17658-17665.	1.3	38
142	Infrared photodissociation spectroscopy of cold cationic trimethylamine complexes. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 25583-25591.	1.3	9
143	Dynamical resonances in chemical reactions. <i>Chemical Society Reviews</i> , 2018, 47, 6744-6763.	18.7	34
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