Zhi Liu

List of Publications by Year
in descending order

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277	16,417	17776 65	22488 117
papers	citations	h-index	g-index

283	283	283	22902
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Formation of multifaceted nano-groove structure on rutile TiO2 photoanode for efficient electron-hole separation and water splitting. Journal of Energy Chemistry, 2022, 65, 19-25.	7.1	16
2	Delocalized electrochemical exfoliation toward high-throughput fabrication of high-quality graphene. Chemical Engineering Journal, 2022, 428, 131122.	6.6	10
3	Stacking driven Raman spectra change of carbon based 2D semiconductor C3N. Chinese Chemical Letters, 2022, 33, 2600-2604.	4.8	2
4	A Reconstructed Cu₂P₂O₇ Catalyst for Selective CO₂ Electroreduction to Multicarbon Products. Angewandte Chemie - International Edition, 2022, 61, e202114238.	7.2	71
5	Interface modification of TiO2 electron transport layer with PbCl2 for perovskiote solar cells with carbon electrode. Tsinghua Science and Technology, 2022, 27, 741-750.	4.1	3
6	Observation of Potential-Induced Hydration on the Surface of Ceramic Proton Conductors Using In Situ Near-Ambient Pressure X-ray Photoelectron Spectroscopy. Journal of Physical Chemistry Letters, 2022, 13, 2928-2933.	2.1	2
7	Dynamic chemical processes on ZnO surfaces tuned by physisorption under ambient conditions. Journal of Energy Chemistry, 2022, , .	7.1	3
8	Study on data processing for x-ray spectrometer based on microcalorimeter. , 2022, , .		1
9	Sn composition graded GeSn photodetectors on Si substrate with cutoff wavelength of 3.3 Î¼m for mid-infrared Si photonics. Applied Physics Letters, 2022, 120, .	1.5	17
10	SelektivitÃtskontrolle in elektrokatalytischen Oxidationsreaktionen durch Ionische FlÃ¼ssigkeiten. Angewandte Chemie, 2022, 134, .	1.6	2
11	Modifying the Electrocatalytic Selectivity of Oxidation Reactions with Ionic Liquids. Angewandte Chemie - International Edition, 2022, 61, .	7.2	13
12	Assessing the Activity Trend of Metal Nitride Catalysts for Ammonia Synthesis Based on Theory of Chemical Potential Kinetics. ChemistrySelect, 2022, 7, .	0.7	0
13	Steering the reaction pathway of syngas-to-light olefins with coordination unsaturated sites of ZnGaOx spinel. Nature Communications, 2022, 13, 2742.	5.8	24
14	High-performance photocatalytic nonoxidative conversion of methane to ethane and hydrogen by heteroatoms-engineered TiO2. Nature Communications, 2022, 13, 2806.	5.8	89
15	Signatures of Spinâ€“Orbit Coupling and Charge Localization in CrIr₂Sn₁₀: A Scanning Tunneling Microscopic Study. Journal of Physical Chemistry C, 2022, 126, 9117-9122.	1.5	0
16	Visualizing the Anomalous Catalysis in Two-Dimensional Confined Space. Nano Letters, 2022, 22, 4661-4668.	4.5	3
17	Beam-Induced Effects on Platinum Oxidation during Ambient-Pressure X-ray Photoelectron Spectroscopy. Journal of Physical Chemistry Letters, 2022, 13, 5677-5682.	2.1	2
18	Transition edge sensor-based detector: from X-ray to $$gamma$$-ray. Nuclear Science and Techniques/Hewuli, 2022, 33, .	1.3	3

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19	Sharp interface of undoped Ge/SiGe quantum well grown by ultrahigh vacuum chemical vapor deposition. Applied Physics Letters, 2022, 121, .	1.5	2
20	Electron-plasmon interaction induced plasmonic-polaron band replication in epitaxial perovskite SrIrO3 films. Science Bulletin, 2021, 66, 433-440.	4.3	6
21	Photoelectrochemical performance enhancement of low-energy Ar+ irradiation modified TiO2. Applied Surface Science, 2021, 541, 148527.	3.1	7
22	Self-feedback autocatalysis in free radical triggered photosynthesis of N-doped graphene quantum dots. Synthetic Metals, 2021, 271, 116643.	2.1	3
23	Could Irradiation Introduce Oxidized Oxygen Signals in Resonant Inelastic X-ray Scattering of Battery Electrodes?. Journal of Physical Chemistry Letters, 2021, 12, 1138-1143.	2.1	7
24	In Situ Characterization of Catalysis and Electrocatalysis Using APXPS. ACS Catalysis, 2021, 11, 1464-1484.	5.5	57
25	Development of basic theory and application of cryogenic X-ray spectrometer in light sources and X-ray satellite. Wuli Xuebao/Acta Physica Sinica, 2021, 70, 180702.	0.2	3
26	Selective electrooxidation of 2-propanol on Pt nanoparticles supported on Co₃O₄: an in-situ study on atomically defined model systems. Journal Physics D: Applied Physics, 2021, 54, 164002.	1.3	11
27	Formation and Activity Enhancement of Surface Hydrides by the Metalâ€“Oxide Interface. Advanced Materials Interfaces, 2021, 8, 2002169.	1.9	6
28	A rechargeable all-solid-state sodium peroxide (Na₂O₂) battery with low overpotential. Journal Physics D: Applied Physics, 2021, 54, 174005.	1.3	10
29	Heterogeneous Synergetic Effect of Metalâ€“Oxide Interfaces for Efficient Hydrogen Evolution in Alkaline Solutions. ACS Applied Materials & Interfaces, 2021, 13, 13838-13847.	4.0	26
30	Silicon-assisted growth of hexagonal boron nitride to improve oxidation resistance of germanium. 2D Materials, 2021, 8, 035041.	2.0	5
31	Altering Hydrogenation Pathways in Photocatalytic Nitrogen Fixation by Tuning Local Electronic Structure of Oxygen Vacancy with Dopant. Angewandte Chemie - International Edition, 2021, 60, 16085-16092.	7.2	152
32	Large-area TaN superconducting microwire single photon detectors for X-ray detection. Optics Express, 2021, 29, 21400.	1.7	7
33	Altering Hydrogenation Pathways in Photocatalytic Nitrogen Fixation by Tuning Local Electronic Structure of Oxygen Vacancy with Dopant. Angewandte Chemie, 2021, 133, 16221-16228.	1.6	8
34	Three-dimensional ultrastructural imaging reveals the nanoscale architecture of mammalian cells. Microscopy and Microanalysis, 2021, 27, 1566-1569.	0.2	0
35	In situ Dispersed Nano-Au on Zr-Suboxides as Active Cathode for Direct CO2 Electroreduction in Solid Oxide Electrolysis Cells. Nano Letters, 2021, 21, 6952-6959.	4.5	10
36	Pd-Modified ZnOâ€“Au Enabling Alkoxy Intermediates Formation and Dehydrogenation for Photocatalytic Conversion of Methane to Ethylene. Journal of the American Chemical Society, 2021, 143, 269-278.	6.6	151

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37	Fine cubic Cu2O nanocrystals as highly selective catalyst for propylene epoxidation with molecular oxygen. Nature Communications, 2021, 12, 5921.	5.8	33
38	A Composite Velocity Map Imaging Spectrometer for Ions and 1 keV Electrons at the Shanghai Soft X-ray Free-Electron Laser. Applied Sciences (Switzerland), 2021, 11, 10272.	1.3	5
39	In operando x-ray photoelectron spectroscopy studies of H₂ oxidation and H₂O electrolysis on gadolinia-doped ceria electrodes. JPhys Energy, 2021, 3, 014004.	2.3	3
40	Strong correlations and orbital texture in single-layer 1T-TaSe2. Nature Physics, 2020, 16, 218-224.	6.5	126
41	Surface coordination layer passivates oxidation of copper. Nature, 2020, 586, 390-394.	13.7	154
42	Electronic structure of the Si-containing topological Dirac semimetal <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>CaA</mml:mi><mml:msub><mml:mi mathvariant="normal">I</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:mi mathvariant="normal">S</mml:mi><mml:msub><mml:mi mathvariant="normal">i</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math>. Physical Review B, 2020, 102, .	1.1	9
43	Addressing the sensitivity of signals from solid/liquid ambient pressure XPS (APXPS) measurement. Journal of Chemical Physics, 2020, 153, 044709.	1.2	16
44	Reaction-Induced Strong Metalâ€“Support Interactions between Metals and Inert Boron Nitride Nanosheets. Journal of the American Chemical Society, 2020, 142, 17167-17174.	6.6	164
45	Surface Orientation and Pressure Dependence of CO₂ Activation on Cu Surfaces. Journal of Physical Chemistry C, 2020, 124, 27511-27518.	1.5	20
46	Ambient pressure mapping of resonant Auger spectroscopy at BL02B01 at the Shanghai Synchrotron Radiation Facility. Review of Scientific Instruments, 2020, 91, 123108.	0.6	10
47	Crystal-plane-dependent redox reaction on Cu surfaces. Nano Research, 2020, 13, 1677-1685.	5.8	18
48	Tuning the activities of cuprous oxide nanostructures via the oxide-metal interaction. Nature Communications, 2020, 11, 2312.	5.8	31
49	Potential Control of Oxygen Non-Stoichiometry in Cerium Oxide and Phase Transition Away from Equilibrium. ACS Applied Materials & Interfaces, 2020, 12, 31514-31521.	4.0	12
50	Exploiting Twoâ€Đimensional Bi₂O₂Se for Trace Oxygen Detection. Angewandte Chemie - International Edition, 2020, 59, 17938-17943.	7.2	31
51	Electronic structure and spatial inhomogeneity of iron-based superconductor FeS. Chinese Physics B, 2020, 29, 047401.	0.7	4
52	Electrochemically controlled energy release from a norbornadiene-based solar thermal fuel: increasing the reversibility to 99.8% using HOPG as the electrode material. Journal of Materials Chemistry A, 2020, 8, 15658-15664.	5.2	25
53	Synthesis, characterization and growth mechanism of carbon nanopears. Chemical Physics, 2020, 535, 110780.	0.9	4
54	Strong Interface Enhanced Hydrogen Evolution over Molybdenum-Based Catalysts. ACS Applied Energy Materials, 2020, 3, 5219-5228.	2.5	16

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55	Nature of Active Sites on Cuâ€“CeO₂ Catalysts Activated by High-Temperature Thermal Aging. ACS Catalysis, 2020, 10, 12385-12392.	5.5	69
56	Vaporâ€“liquidâ€“solid growth of large-area multilayer hexagonal boron nitride on dielectric substrates. Nature Communications, 2020, 11, 849.	5.8	75
57	Template-free Synthesis of Stable Cobalt Manganese Spinel Hollow Nanostructured Catalysts for Highly Water-Resistant CO Oxidation. IScience, 2019, 21, 19-30.	1.9	11
58	Interfacial Enhancement by Î³â€Al₂O₃ of Electrochemical Oxidative Dehydrogenation of Ethane to Ethylene in Solid Oxide Electrolysis Cells. Angewandte Chemie - International Edition, 2019, 58, 16043-16046.	7.2	31
59	Structure, Magnetism, and the Interaction of Water with Ti-Doped Fe3O4 Surfaces. Langmuir, 2019, 35, 13872-13879.	1.6	6
60	Realization of wafer-scale nanogratings with sub-50 nm period through vacancy epitaxy. Nature Communications, 2019, 10, 2437.	5.8	24
61	CO₂ Activation on Ni(111) and Ni(100) Surfaces in the Presence of H₂O: An Ambient-Pressure X-ray Photoelectron Spectroscopy Study. Journal of Physical Chemistry C, 2019, 123, 12176-12182.	1.5	36
62	An APXPS endstation for gasâ€“solid and liquidâ€“solid interface studies at SSRF. Nuclear Science and Techniques/Hewuli, 2019, 30, 1.	1.3	50
63	Surface Plasmon Enabling Nitrogen Fixation in Pure Water through a Dissociative Mechanism under Mild Conditions. Journal of the American Chemical Society, 2019, 141, 7807-7814.	6.6	235
64	Charge Distribution on S and Intercluster Bond Evolution in Mo₆S₈ during the Electrochemical Insertion of Small Cations Studied by X-ray Absorption Spectroscopy. Journal of Physical Chemistry Letters, 2019, 10, 1159-1166.	2.1	15
65	Interface Science Using Ambient Pressure Hard X-ray Photoelectron Spectroscopy. Surfaces, 2019, 2, 78-99.	1.0	45
66	Oxygen Evolution Reaction over the Au/YSZ Interface at High Temperature. Angewandte Chemie - International Edition, 2019, 58, 4617-4621.	7.2	33
67	Oxygen Evolution Reaction over the Au/YSZ Interface at High Temperature. Angewandte Chemie, 2019, 131, 4665-4669.	1.6	12
68	Electrochemically modified graphite for fast preparation of large-sized graphene oxide. Journal of Colloid and Interface Science, 2019, 542, 387-391.	5.0	15
69	Cooperative Catalysis of Nickel and Nickel Oxide for Efficient Reduction of CO₂ to CH₄. ChemCatChem, 2019, 11, 1295-1302.	1.8	25
70	Evidence of Pure Spin-Current Generated by Spin Pumping in Interface-Localized States in Hybrid Metalâ€“Siliconâ€“Metal Vertical Structures. Nano Letters, 2019, 19, 90-99.	4.5	12
71	Design and performance of bending-magnet beamline BL02B at the SSRF. Journal of Synchrotron Radiation, 2019, 26, 543-550.	1.0	7
72	In situ observation of H2 dissociation on the ZnO (0001) surface under high pressure of hydrogen using ambient-pressure XPS. International Journal of Hydrogen Energy, 2018, 43, 8655-8661.	3.8	26

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73	Anode coverage for enhanced electrochemical oxidation: a green and efficient strategy towards water-dispersible graphene. Green Chemistry, 2018, 20, 1306-1315.	4.6	35
74	Electrochemical Cutting in Weak Aqueous Electrolytes: The Strategy for Efficient and Controllable Preparation of Graphene Quantum Dots. Langmuir, 2018, 34, 250-258.	1.6	71
75	Modulation of Carrier Type in Nanocrystal-in-Matrix Composites by Interfacial Doping. Chemistry of Materials, 2018, 30, 2544-2549.	3.2	1
76	Selfâ€Assembly of Thioureaâ€Crosslinked Graphene Oxide Framework Membranes toward Separation of Small Molecules. Advanced Materials, 2018, 30, e1705775.	11.1	154
77	CO2 Activation on Cobalt Surface in the Presence of H2O: An Ambient-Pressure X-ray Photoelectron Spectroscopy Study. Catalysis Letters, 2018, 148, 1686-1691.	1.4	21
78	â€œPop-On and Pop-Offâ€•Surface Chemistry of Alanine on Ni{111} under Elevated Hydrogen Pressures. Journal of Physical Chemistry C, 2018, 122, 7720-7730.	1.5	5
79	Observing the Electrochemical Oxidation of Co Metal at the Solid/Liquid Interface Using Ambient Pressure X-ray Photoelectron Spectroscopy. Journal of Physical Chemistry B, 2018, 122, 666-671.	1.2	73
80	Light-Induced Surface Reactions at the Bismuth Vanadate/Potassium Phosphate Interface. Journal of Physical Chemistry B, 2018, 122, 801-809.	1.2	29
81	Probing the Surface of Platinum during the Hydrogen Evolution Reaction in Alkaline Electrolyte. Journal of Physical Chemistry B, 2018, 122, 864-870.	1.2	50
82	Electronic structure of monolayer 1Tâ€²-MoTe2 grown by molecular beam epitaxy. APL Materials, 2018, 6, .	2.2	44
83	Operando Ambient Pressure X-ray Photoelectron Spectroscopy Studies of Sodiumâ€“Oxygen Redox Reactions. Topics in Catalysis, 2018, 61, 2123-2128.	1.3	13
84	Ultralow Pt Catalyst for Formaldehyde Removal: The Determinant Role of Support. IScience, 2018, 9, 487-501.	1.9	33
85	Surface Amorphous Oxides Induced Electron Transfer into Complex Oxide Heterointerfaces. Advanced Materials Interfaces, 2018, 5, 1801216.	1.9	14
86	Stabilizing the Meniscus for Operando Characterization of Platinum During the Electrolyte-Consuming Alkaline Oxygen Evolution Reaction. Topics in Catalysis, 2018, 61, 2152-2160.	1.3	28
87	Disorder in Aqueous Solutions and Peak Broadening in X-ray Photoelectron Spectroscopy. Journal of Physical Chemistry B, 2018, 122, 10600-10606.	1.2	7
88	Three-dimensional ultrastructural imaging reveals the nanoscale architecture of mammalian cells. IUCrJ, 2018, 5, 141-149.	1.0	24
89	In situ ambient pressure XPS observation of surface chemistry and electronic structure of Î±-Fe2O3 and Î³-Fe2O3 nanoparticles. Applied Surface Science, 2018, 455, 1019-1028.	3.1	126
90	Origin of interfacial conductivity at complex oxide heterointerfaces: Possibility of electron transfer from water chemistry at surface oxygen vacancies. Physical Review Materials, 2018, 2, .	0.9	19

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91	<i>In</i>-<i>situ</i> APXPS and STM Study of the Activation of H₂ on ZnO(10${m{ar 1}}$0) Surface. Wuli Huaxue Xuebao/ Acta Physico - Chimica Sinica, 2018, 34, 1366-1372.	2.2	8
92	A Rechargeable Li-Air Fuel Cell Battery Based on Garnet Solid Electrolytes. Scientific Reports, 2017, 7, 41217.	1.6	60
93	Characterization of photocatalytic TiO2 powder under varied environments using near ambient pressure X-ray photoelectron spectroscopy. Scientific Reports, 2017, 7, 43298.	1.6	94
94	Elucidating the alkaline oxygen evolution reaction mechanism on platinum. Journal of Materials Chemistry A, 2017, 5, 11634-11643.	5.2	109
95	The Birth of Nickel Phosphide Catalysts: Monitoring Phosphorus Insertion into Nickel. ChemCatChem, 2017, 9, 2318-2323.	1.8	31
96	Ambient-Pressure X-ray Photoelectron Spectroscopy to Characterize the Solid/Liquid Interface: Probing the Electrochemical Double Layer. Synchrotron Radiation News, 2017, 30, 38-40.	0.2	3
97	Role of Manganese Oxide in Syngas Conversion to Light Olefins. ACS Catalysis, 2017, 7, 2800-2804.	5.5	188
98	Tuning phase transitions in FeSe thin flakes by field-effect transistor with solid ion conductor as the gate dielectric. Physical Review B, 2017, 95, .	1.1	77
99	Correlation between active layer thickness and ambient gas stability in IGZO thin-film transistors. Journal Physics D: Applied Physics, 2017, 50, 025102.	1.3	4
100	Direct Mapping of Band Positions in Doped and Undoped Hematite during Photoelectrochemical Water Splitting. Journal of Physical Chemistry Letters, 2017, 8, 5579-5586.	2.1	53
101	Kinetically Enhanced Bubble-Exfoliation of Graphite toward High-Yield Preparation of High-Quality Graphene. Chemistry of Materials, 2017, 29, 8578-8582.	3.2	45
102	Photoemission study of the electronic structure of valence band convergent SnSe. Physical Review B, 2017, 96, .	1.1	30
103	In Situ Electronic Structure Study of Epitaxial Niobium Thin Films by Angle-Resolved Photoemission Spectroscopy. Chinese Physics Letters, 2017, 34, 077402.	1.3	5
104	48 GHz High-Performance Ge-on-SOI Photodetector With Zero-Bias 40 Gbps Grown by Selective Epitaxial Growth. Journal of Lightwave Technology, 2017, 35, 5306-5310.	2.7	30
105	Quantum spin Hall state in monolayer 1T'-WTe2. Nature Physics, 2017, 13, 683-687.	6.5	596
106	Comparative study of GeO2/Ge and SiO2/Si structures on anomalous charging of oxide films upon water adsorption revealed by ambient-pressure X-ray photoelectron spectroscopy. Journal of Applied Physics, 2016, 120, .	1.1	11
107	Preparation of hydrophilic luffa sponges and their water absorption performance. Carbohydrate Polymers, 2016, 147, 178-187.	5.1	18
108	Enhanced Nickel-Catalyzed Methanation Confined under Hexagonal Boron Nitride Shells. ACS Catalysis, 2016, 6, 6814-6822.	5.5	95

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109	In situ study of the electronic structure of atomic layer deposited oxide ultrathin films upon oxygen adsorption using ambient pressure XPS. Catalysis Science and Technology, 2016, 6, 6778-6783.	2.1	16
110	Unravelling the electrochemical double layer by direct probing of the solid/liquid interface. Nature Communications, 2016, 7, 12695.	5.8	267
111	Operando Analyses of Solar Fuels Light Absorbers and Catalysts. Electrochimica Acta, 2016, 211, 711-719.	2.6	23
112	In-Situ Probing of H2O Effects on a Ru-Complex Adsorbed on TiO2 Using Ambient Pressure Photoelectron Spectroscopy. Topics in Catalysis, 2016, 59, 583-590.	1.3	7
113	Control of the surface atomic population of Rh0.5Pd0.5 bimetallic nanoparticles supported on CeO2. Catalysis Today, 2016, 260, 95-99.	2.2	8
114	An Electrochemical, Microtopographical and Ambient Pressure X-Ray Photoelectron Spectroscopic Investigation of Si/TiO₂/Ni/Electrolyte Interfaces. Journal of the Electrochemical Society, 2016, 163, H139-H146.	1.3	24
115	Rapid synthesis of hierarchical nanostructured Polyaniline hydrogel for high power density energy storage application and three-dimensional multilayers printing. Journal of Materials Science, 2016, 51, 4274-4282.	1.7	51
116	Hydrogenation of CO₂ to Methanol on CeO_x/Cu(111) and ZnO/Cu(111) Catalysts: Role of the Metalâ€“Oxide Interface and Importance of Ce³⁺ Sites. Journal of Physical Chemistry C, 2016, 120, 1778-1784.	1.5	156
117	Ambient-Pressure XPS Study of a Niâ€“Fe Electrocatalyst for the Oxygen Evolution Reaction. Journal of Physical Chemistry C, 2016, 120, 2247-2253.	1.5	336
118	Surface segregation and oxidation of Pt3Ni(1 1 1) alloys under oxygen environment. Catalysis Today, 2016, 260, 3-7.	2.2	26
119	Using â€œTenderâ€•X-ray Ambient Pressure X-Ray Photoelectron Spectroscopy as A Direct Probe of Solid-Liquid Interface. Scientific Reports, 2015, 5, 9788.	1.6	284
120	Surface Chemistry of Alanine on Ni{111}. Journal of Physical Chemistry C, 2015, 119, 26566-26574.	1.5	17
121	Operando Tracking of Electrochemical Activity in Solid Oxide Electrochemical Cells by using Nearâ€Infrared Imaging. ChemElectroChem, 2015, 2, 1527-1534.	1.7	6
122	Aqueous solution/metal interfaces investigated in operando by photoelectron spectroscopy. Faraday Discussions, 2015, 180, 35-53.	1.6	99
123	Direct observation of the energetics at a semiconductor/liquid junction by operando X-ray photoelectron spectroscopy. Energy and Environmental Science, 2015, 8, 2409-2416.	15.6	149
124	Nature of Interface Confinement Effect in Oxide/Metal Catalysts. Journal of Physical Chemistry C, 2015, 119, 27556-27561.	1.5	45
125	The Mechanism of SEI Formation on a Single Crystal Si(100) Electrode. Journal of the Electrochemical Society, 2015, 162, A603-A607.	1.3	80
126	X-ray spectroscopy of energy materials under in situ/operando conditions. Journal of Electron Spectroscopy and Related Phenomena, 2015, 200, 264-273.	0.8	81

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127	(Invited) Investigation of the Si/TiO₂/Electrolyte Interface Using Operando Tender X-ray Photoelectron Spectroscopy. ECS Transactions, 2015, 66, 97-103.	0.3	4
128	Hexagonal Boron Nitride Cover on Pt(111): A New Route to Tune Moleculeâ€“Metal Interaction and Metal-Catalyzed Reactions. Nano Letters, 2015, 15, 3616-3623.	4.5	131
129	Intermediates Arising from the Waterâ€“Gas Shift Reaction over Cu Surfaces: From UHV to Near Atmospheric Pressures. Topics in Catalysis, 2015, 58, 271-280.	1.3	15
130	Exploring the Environmental Photochemistry on the TiO₂(110) Surface in Situ by Near Ambient Pressure X-ray Photoelectron Spectroscopy. Journal of Physical Chemistry C, 2015, 119, 7076-7085.	1.5	31
131	Hard X-rays inâ€“soft X-rays out: An operando piggyback view deep into a charging lithium ion battery with X-ray Raman spectroscopy. Journal of Electron Spectroscopy and Related Phenomena, 2015, 200, 257-263.	0.8	25
132	Nanocrystal Superlattice Embedded within an Inorganic Semiconducting Matrix by in Situ Ligand Exchange: Fabrication and Morphology. Chemistry of Materials, 2015, 27, 2755-2758.	3.2	10
133	(Invited) Measurement of the Energy-Band Relations of Stabilized Si Photoanodes Using Operando Ambient Pressure X-ray Photoelectron Spectroscopy. ECS Transactions, 2015, 66, 105-113.	0.3	5
134	A high pressure x-ray photoelectron spectroscopy study of CO oxidation over Rh(100). Journal of Physics Condensed Matter, 2014, 26, 055003.	0.7	9
135	Graphene cover-promoted metal-catalyzed reactions. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 17023-17028.	3.3	183
136	A near ambient pressure XPS study of subnanometer silver clusters on Al₂O₃and TiO₂ultrathin film supports. Physical Chemistry Chemical Physics, 2014, 16, 26645-26652.	1.3	27
137	CO oxidation on PtSn nanoparticle catalysts occurs at the interface of Pt and Sn oxide domains formed under reaction conditions. Journal of Catalysis, 2014, 312, 17-25.	3.1	122
138	In Situ Characterizations of Nanostructured SnO_x/Pt(111) Surfaces Using Ambient-Pressure XPS (APXPS) and High-Pressure Scanning Tunneling Microscopy (HPSTM). Journal of Physical Chemistry C, 2014, 118, 1935-1943.	1.5	29
139	CO₂activation and carbonate intermediates: an operando AP-XPS study of CO₂electrolysis reactions on solid oxide electrochemical cells. Physical Chemistry Chemical Physics, 2014, 16, 11633-11639.	1.3	82
140	Atomic-Layer Electroless Deposition: A Scalable Approach to Surface-Modified Metal Powders. Langmuir, 2014, 30, 4820-4829.	1.6	17
141	Influence of Step Geometry on the Reconstruction of Stepped Platinum Surfaces under Coadsorption of Ethylene and CO. Journal of Physical Chemistry Letters, 2014, 5, 2626-2631.	2.1	16
142	Organometallic Ruthenium Nanoparticles as Model Catalysts for CO Hydrogenation: A Nuclear Magnetic Resonance and Ambient-Pressure X-ray Photoelectron Spectroscopy Study. ACS Catalysis, 2014, 4, 3160-3168.	5.5	42
143	Toward Practical Application of Functional Conductive Polymer Binder for a High-Energy Lithium-Ion Battery Design. Nano Letters, 2014, 14, 6704-6710.	4.5	172
144	The origin of high electrolyteâ€“electrode interfacial resistances in lithium cells containing garnet type solid electrolytes. Physical Chemistry Chemical Physics, 2014, 16, 18294-18300.	1.3	431

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145	Intrinsic Ligand Effect Governing the Catalytic Activity of Pd Oxide Thin Films. ACS Catalysis, 2014, 4, 3330-3334.	5.5	79
146	PbS Nanoparticles Capped with Tetrathiafulvalenetetracarboxylate: Utilizing Energy Level Alignment for Efficient Carrier Transport. ACS Nano, 2014, 8, 2532-2540.	7.3	41
147	Recent Progress on Synchrotronâ€Based Inâ€Situ Soft Xâ€ray Spectroscopy for Energy Materials. Advanced Materials, 2014, 26, 7710-7729.	11.1	123
148	Electronic structure and excitations in oxygen deficient<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mrow><mml:mtext>CeO</mml:mtext></mml:mrow><mml:m DFT calculations. Physical Review B, 2014, 89, .	1.1	18
149	Learning from the past: Rare Îµ-Fe2O3 in the ancient black-glazed Jian (Tenmoku) wares. Scientific Reports, 2014, 4, 4941.	1.6	100
150	The Development of Ambient Pressure X-Ray Photoelectron Spectroscopy and Its Application to Surface Science. , 2014, , 197-229.		2
151	Degradation of polyvinyl alcohol under mechanothermal stretching. Journal of Molecular Modeling, 2013, 19, 3245-3253.	0.8	12
152	In Situ Ambient Pressure X-ray Photoelectron Spectroscopy of Cobalt Perovskite Surfaces under Cathodic Polarization at High Temperatures. Journal of Physical Chemistry C, 2013, 117, 16087-16094.	1.5	89
153	Ozoneâ€Induced Band Bending on Metalâ€Oxide Surfaces Studied under Environmental Conditions. ChemPhysChem, 2013, 14, 2419-2425.	1.0	17
154	Properties of Disorder-Engineered Black Titanium Dioxide Nanoparticles through Hydrogenation. Scientific Reports, 2013, 3, 1510.	1.6	317
155	Importance of the Metalâ€“Oxide Interface in Catalysis: In Situ Studies of the Waterâ€“Gas Shift Reaction by Ambientâ€Pressure Xâ€ray Photoelectron Spectroscopy. Angewandte Chemie - International Edition, 2013, 52, 5101-5105.	7.2	280
156	Structure and Chemical State of the Pt(557) Surface during Hydrogen Oxidation Reaction Studied by in Situ Scanning Tunneling Microscopy and X-ray Photoelectron Spectroscopy. Journal of the American Chemical Society, 2013, 135, 12560-12563.	6.6	25
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