Zihua Zhu

List of Publications by Year
in descending order

186	6,858	61945	76872
papers	citations	43 h-index	74 g-index

189	189	189	9434
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Predicting lung adenocarcinoma invasiveness by measurement of pure ground-glass nodule roundness by using multiplanar reformation: a retrospective analysis. Clinical Radiology, 2022, 77, e20-e26.	0.5	2
2	On the dissolution of a borosilicate glass with the use of isotopic tracing â€“ Insights into the mechanism for the long-term dissolution rate. Geochimica Et Cosmochimica Acta, 2022, 318, 213-229.	1.6	4
3	Mapping hidden space-charge distributions across crystalline metal oxide/group IV semiconductor interfaces. Physical Review Materials, 2022, 6, .	0.9	2
4	Unique motif shared by HLAâ€B*59:01 and HLAâ€B*55:02 is associated with methazolamideâ€induced Stevensâ€“Johnson syndrome and toxic epidermal necrolysis in Han Chinese. Journal of the European Academy of Dermatology and Venereology, 2022, 36, 873-880.	1.3	8
5	Electrochemically induced amorphous-to-rock-salt phase transformation in niobium oxide electrode for Li-ion batteries. Nature Materials, 2022, 21, 795-803.	13.3	69
6	Microstructural evolution and precipitation in Î³-LiAlO2 during ion irradiation. Journal of Applied Physics, 2022, 131, .	1.1	6
7	Mass spectral imaging showing the plant growth-promoting rhizobacteria's effect on the Brachypodium awn. Biointerphases, 2022, 17, .	0.6	3
8	Spontaneous Lithiation of Binary Oxides during Epitaxial Growth on LiCoO₂. Nano Letters, 2022, 22, 5530-5537.	4.5	4
9	Onshore soil microbes and endophytes respond differently to geochemical and mineralogical changes in the Aral Sea. Science of the Total Environment, 2021, 765, 142675.	3.9	9
10	Molecular imaging of plantâ€“microbe interactions on the Brachypodium seed surface. Analyst, The, 2021, 146, 5855-5865.	1.7	9
11	Accelerated design of vanadium redox flow battery electrolytes through tunable solvation chemistry. Cell Reports Physical Science, 2021, 2, 100323.	2.8	12
12	Anion Exchange of Ruddlesdenâ€“Popper Lead Halide Perovskites Produces Stable Lateral Heterostructures. Journal of the American Chemical Society, 2021, 143, 5212-5221.	6.6	37
13	Bulk and Shortâ€Circuit Anion Diffusion in Epitaxial Fe₂O₃ Films Quantified Using Buried Isotopic Tracer Layers. Advanced Materials Interfaces, 2021, 8, 2001768.	1.9	10
14	Molecular Determination of Organic Adsorption Sites on Smectite during Fe Redox Processes Using ToF-SIMS Analysis. Environmental Science & Technology, 2021, 55, 7123-7134.	4.6	8
15	Environment of Metalâ€“Oâ€“Fe Bonds Enabling High Activity in CO₂ Reduction on Single Metal Atoms and on Supported Nanoparticles. Journal of the American Chemical Society, 2021, 143, 5540-5549.	6.6	54
16	Real-Time Characterization of the Fine Structure and Dynamics of an Electrical Double Layer at Electrodeâ€“Electrolyte Interfaces. Journal of Physical Chemistry Letters, 2021, 12, 5279-5285.	2.1	12
17	Evidence of lithium mobility under neutron irradiation. Journal of Materials Research and Technology, 2021, 14, 475-483.	2.6	4
18	Molecular Examination of Ion-Pair Competition in Alkaline Aluminate Solutions Using In Situ Liquid SIMS. Analytical Chemistry, 2021, 93, 1068-1075.	3.2	6

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19	Tuning band alignment at a semiconductor-crystalline oxide heterojunction via electrostatic modulation of the interfacial dipole. Physical Review Materials, 2021, 5, .	0.9	12
20	Cisplatinâ€induced alteration on membrane composition of A549 cells revealed by ToFâ€SIMS. Surface and Interface Analysis, 2020, 52, 256-263.	0.8	9
21	Understanding Time Dependence on Zinc Metalâ€“Organic Framework Growth Using in Situ Liquid Secondary Ion Mass Spectrometry. ACS Applied Materials & Interfaces, 2020, 12, 5090-5098.	4.0	10
22	Correlative surface imaging reveals chemical signatures for bacterial hotspots on plant roots. Analyst, The, 2020, 145, 393-401.	1.7	15
23	Atmospheric particulate characterization by ToF-SIMS in an urban site in Beijing. Atmospheric Environment, 2020, 220, 117090.	1.9	8
24	ToFâ€SIMS analysis of chemical composition of atmospheric aerosols in Beijing. Surface and Interface Analysis, 2020, 52, 272-282.	0.8	3
25	Three-Dimensional Mass Spectrometric Imaging of Biological Structures Using a Vacuum-Compatible Microfluidic Device. Analytical Chemistry, 2020, 92, 13785-13793.	3.2	3
26	A quantitative study of retention and release of deuterium and tritium during irradiation of Î³-LiAlO2 pellets. Journal of Nuclear Materials, 2020, 542, 152532.	1.3	8
27	Revealing the Structural Evolution of Green Rust Synthesized in Ionic Liquids by In Situ Molecular Imaging. Advanced Materials Interfaces, 2020, 7, 2000452.	1.9	3
28	Dynamic Lattice Oxygen Participation on Perovskite LaNiO₃ during Oxygen Evolution Reaction. Journal of Physical Chemistry C, 2020, 124, 15386-15390.	1.5	49
29	In situ liquid SIMS analysis of uranium oxide. Surface and Interface Analysis, 2020, 52, 454-459.	0.8	4
30	Role of clay-associated humic substances in catalyzing bioreduction of structural Fe(III) in nontronite by Shewanella putrefaciens CN32. Science of the Total Environment, 2020, 741, 140213.	3.9	19
31	Liquid ToF-SIMS revealing the oil, water, and surfactant interface evolution. Physical Chemistry Chemical Physics, 2020, 22, 11771-11782.	1.3	8
32	In Vivo Molecular Insights into Syntrophic Geobacter Aggregates. Analytical Chemistry, 2020, 92, 10402-10411.	3.2	6
33	Deuterium diffusion in Î³-LiAlO2 pellets irradiated with He+ and D2+ ions. Journal of Nuclear Materials, 2020, 538, 152357.	1.3	5
34	Mechanisms of Enhanced Antibacterial Activity by Reduced Chitosan-Intercalated Nontronite. Environmental Science & Technology, 2020, 54, 5207-5217.	4.6	23
35	In situ molecular imaging of adsorbed protein films in water indicating hydrophobicity and hydrophilicity. Scientific Reports, 2020, 10, 3695.	1.6	10
36	Real-time mass spectrometric characterization of the solidâ€“electrolyte interphase of a lithium-ion battery. Nature Nanotechnology, 2020, 15, 224-230.	15.6	280

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37	Controlling Surface Phase Transition and Chemical Reactivity of O3-Layered Metal Oxide Cathodes for High-Performance Na-Ion Batteries. ACS Energy Letters, 2020, 5, 1718-1725.	8.8	64
38	Bio-reduction of ferrihydrite-montmorillonite-organic matter complexes: Effect of montmorillonite and fate of organic matter. Geochimica Et Cosmochimica Acta, 2020, 276, 327-344.	1.6	39
39	Dark airâ€“liquid interfacial chemistry of glyoxal and hydrogen peroxide. Npj Climate and Atmospheric Science, 2019, 2, .	2.6	18
40	Charge Transfer and Built-in Electric Fields between a Crystalline Oxide and Silicon. Physical Review Letters, 2019, 123, 026805.	2.9	22
41	Evolution of aqSOA from the Airâ€“Liquid Interfacial Photochemistry of Glyoxal and Hydroxyl Radicals. Environmental Science & Technology, 2019, 53, 10236-10245.	4.6	28
42	Passively Sampled Environmental Films Show Geographic Variability and Host a Variety of Microorganisms. ACS Earth and Space Chemistry, 2019, 3, 2726-2735.	1.2	4
43	Cr(III) Adsorption by Cluster Formation on Boehmite Nanoplates in Highly Alkaline Solution. Environmental Science & Technology, 2019, 53, 11043-11055.	4.6	42
44	Nanoscale imaging of hydrogen and sodium in alteration layers of corroded glass using ToFâ€SIMS: Is an auxiliary sputtering ion beam necessary?. Surface and Interface Analysis, 2019, 51, 219-225.	0.8	3
45	Physical and Chemical Morphology of Passively Sampled Environmental Films. ACS Earth and Space Chemistry, 2019, 3, 305-313.	1.2	16
46	Molecular evidence of a toxic effect on a biofilm and its matrix. Analyst, The, 2019, 144, 2498-2503.	1.7	23
47	Imaging Corrosion at the Metal-Paint Interface Using Time-of-Flight Secondary Ion Mass Spectrometry. Journal of Visualized Experiments, 2019, , .	0.2	0
48	Submicron sodium banding in cultured planktic foraminifera shells. Geochimica Et Cosmochimica Acta, 2019, 253, 127-141.	1.6	27
49	In Situ Liquid Secondary Ion Mass Spectrometry: A Surprisingly Soft Ionization Process for Investigation of Halide Ion Hydration. Analytical Chemistry, 2019, 91, 7039-7046.	3.2	27
50	Direct Molecular Evidence of Proton Transfer and Mass Dynamics at the Electrodeâ€“Electrolyte Interface. Journal of Physical Chemistry Letters, 2019, 10, 251-258.	2.1	16
51	Investigation of physical and chemical properties for upgraded SAP (SiO2Al2O3P2O5) waste form to immobilize radioactive waste salt. Journal of Nuclear Materials, 2019, 515, 382-391.	1.3	13
52	Experimental Insights into the Growth of Single Truncated Anatase Bipyramids. Chemistry - A European Journal, 2019, 25, 993-996.	1.7	2
53	Potential-Dynamic Surface Chemistry Controls the Electrocatalytic Processes of Ethanol Oxidation on Gold Surfaces. ACS Energy Letters, 2019, 4, 215-221.	8.8	45
54	Creation and Ordering of Oxygen Vacancies at WO_{3â^'Î´} and Perovskite Interfaces. ACS Applied Materials & Interfaces, 2018, 10, 17480-17486.	4.0	29

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55	Investigation of Ionâ€“Solvent Interactions in Nonaqueous Electrolytes Using in Situ Liquid SIMS. Analytical Chemistry, 2018, 90, 3341-3348.	3.2	41
56	Early stage structural development of prototypical zeolitic imidazolate framework (ZIF) in solution. Nanoscale, 2018, 10, 4291-4300.	2.8	56
57	Thermal annealing behavior of hydrogen and surface topography of H2+ ion implanted tungsten. Journal of Nuclear Science and Technology, 2018, 55, 703-708.	0.7	5
58	<scp>ToFâ€SIMS</scp> characterization of glyoxal surface oxidation products by hydrogen peroxide: A comparison between dry and liquid samples. Surface and Interface Analysis, 2018, 50, 927-938.	0.8	19
59	Formation of bubbles and blisters in hydrogen ion implanted polycrystalline tungsten. Radiation Effects and Defects in Solids, 2018, 173, 1027-1036.	0.4	4
60	Mesoscopic Structure Facilitates Rapid CO₂ Transport and Reactivity in CO₂ Capture Solvents. Journal of Physical Chemistry Letters, 2018, 9, 5765-5771.	2.1	19
61	Chemical imaging and diffusion of hydrogen and lithium in lithium aluminate. Journal of Nuclear Materials, 2018, 511, 1-10.	1.3	19
62	Atomic origins of water-vapour-promoted alloy oxidation. Nature Materials, 2018, 17, 514-518.	13.3	106
63	Does interfacial photochemistry play a role in the photolysis of pyruvic acid in water?. Atmospheric Environment, 2018, 191, 36-45.	1.9	28
64	Controlled synthesis of highly-branched plasmonic gold nanoparticles through peptoid engineering. Nature Communications, 2018, 9, 2327.	5.8	74
65	Interconversion of intrinsic defects in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>SrTi</mml:mi><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn>3</mml:mn></mml:msub><mml:mrow><mml:mo>(</mml:mo><mml:mn>001</mml:mn> Physical Review B, 2018, 97, .	1.1	19
66	Irradiation effects and hydrogen behavior in H2+ and He+ implanted Î³-LiAlO2 single crystals. Journal of Nuclear Materials, 2017, 484, 374-381.	1.3	29
67	Nanoscale imaging of alteration layers of corroded international simple glass particles using ToF-SIMS. Nuclear Instruments & Methods in Physics Research B, 2017, 404, 45-51.	0.6	5
68	Operando formation of an ultra-low friction boundary film from synthetic magnesium silicon hydroxide additive. Tribology International, 2017, 110, 35-40.	3.0	53
69	Deciphering the aqueous chemistry of glyoxal oxidation with hydrogen peroxide using molecular imaging. Physical Chemistry Chemical Physics, 2017, 19, 20357-20366.	1.3	29
70	Glass binder development for a glass-bonded sodalite ceramic waste form. Journal of Nuclear Materials, 2017, 489, 42-63.	1.3	34
71	In Situ Mass Spectrometric Monitoring of the Dynamic Electrochemical Process at the Electrodeâ€“Electrolyte Interface: a SIMS Approach. Analytical Chemistry, 2017, 89, 960-965.	3.2	47
72	Characterization of syntrophic Geobacter communities using ToF-SIMS. Biointerphases, 2017, 12, 05G601.	0.6	23

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73	In Situ Characterization of Shewanella oneidensis MR1 Biofilms by SALVI and ToF-SIMS. Journal of Visualized Experiments, 2017, , .	0.2	4
74	An investigation of the beam damage effect on in situ liquid secondary ion mass spectrometry analysis. Rapid Communications in Mass Spectrometry, 2017, 31, 2035-2042.	0.7	13
75	Suppressed oxygen extraction and degradation of LiNi x Mn y Co z O2 cathodes at high charge cut-off voltages. Nano Research, 2017, 10, 4221-4231.	5.8	77
76	Characterization of extreme ultraviolet laser ablation mass spectrometry for actinide trace analysis and nanoscale isotopic imaging. Journal of Analytical Atomic Spectrometry, 2017, 32, 1092-1100.	1.6	33
77	Link between light-triggered Mg-banding and chamber formation in the planktic foraminifera Neogloboquadrina dutertrei. Nature Communications, 2017, 8, 15441.	5.8	73
78	Nanostructural evolution and behavior of H and Li in ion-implanted Î³-LiAlO2. Journal of Nuclear Materials, 2017, 494, 411-421.	1.3	23
79	Retrospective study of predictors of bone metastasis in colorectal cancer patients. Journal of Bone Oncology, 2017, 9, 25-28.	1.0	30
80	Carbon Contamination During Ion Irradiation - Accurate Detection and Characterization of its Effect on Microstructure of Ferritic/Martensitic Steels. Scientific Reports, 2017, 7, 15813.	1.6	18
81	Two coexisting liquid phases in switchable ionic liquids. Physical Chemistry Chemical Physics, 2017, 19, 22627-22632.	1.3	23
82	In Situ Imaging and Spectroscopy of Particles in Liquid. Microscopy and Microanalysis, 2017, 23, 882-883.	0.2	0
83	Multimodal and in-situ Chemical Imaging of Critical Surfaces and Interfaces in Advanced Batteries. Journal of Surface Analysis (Online), 2017, 24, 141-150.	0.1	4
84	Nanoscale imaging of Li and B in nuclear waste glass, a comparison of ToF-SIMS, NanoSIMS, and APT. Surface and Interface Analysis, 2016, 48, 1392-1401.	0.8	14
85	Polyvinylpyrrolidone-induced anisotropic growth of gold nanoprisms in plasmon-driven synthesis. Nature Materials, 2016, 15, 889-895.	13.3	239
86	Quantifying element incorporation in multispecies biofilms using nanoscale secondary ion mass spectrometry image analysis. Biointerphases, 2016, 11, 02A322.	0.6	20
87	Switchable 1,8-diazabicycloundec-7-ene and 1-hexanol ionic liquid analyzed by liquid ToF-SIMS. Surface Science Spectra, 2016, 23, 9-28.	0.3	5
88	Lattice damage and compositional changes in Xe ion irradiated InxGa1-xN (x =) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	1.1	11
89	Cellular Delivery of Nanoparticles Revealed with Combined Optical and Isotopic Nanoscopy. ACS Nano, 2016, 10, 4046-4054.	7.3	36
90	Ion-Exchange Interdiffusion Model with Potential Application to Long-Term Nuclear Waste Glass Performance. Journal of Physical Chemistry C, 2016, 120, 9374-9384.	1.5	30

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91	Multimodal and In-Situ Chemical Imaging of Critical Surfaces and Interfaces in Li Batteries. Microscopy Today, 2016, 24, 32-39.	0.2	6
92	Improving the Molecular Ion Signal Intensity for In Situ Liquid SIMS Analysis. Journal of the American Society for Mass Spectrometry, 2016, 27, 2006-2013.	1.2	46
93	Dilute condition corrosion behavior of glass-ceramic waste form. Journal of Nuclear Materials, 2016, 482, 1-11.	1.3	25
94	In Situ Molecular Imaging of the Biofilm and Its Matrix. Analytical Chemistry, 2016, 88, 11244-11252.	3.2	76
95	Capturing the transient species at the electrodeâ€“electrolyte interface by in situ dynamic molecular imaging. Chemical Communications, 2016, 52, 10952-10955.	2.2	43
96	Real-space characterization of reactivity towards water at theBi2Te3(111) surface. Physical Review B, 2016, 93, .	1.1	8
97	Grain growth of nanocrystalline 3C-SiC under Au ion irradiation at elevated temperatures. Journal Physics D: Applied Physics, 2016, 49, 035304.	1.3	3
98	Nanometer-Scale Chemistry of a Calcite Biomineralization Template: Implications for Skeletal Composition and Nucleation. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 12934-12939.	3.3	78
99	In Situ Characterization of Hydrated Proteins in Water by SALVI and ToF-SIMS. Journal of Visualized Experiments, 2016, , 53708.	0.2	13
100	Meso-scale anisotropic hydrogen segregation near grain-boundaries in polycrystalline nickel characterized by EBSD/SIMS. Materials Letters, 2016, 165, 217-222.	1.3	42
101	Chemical imaging of molecular changes in a hydrated single cell by dynamic secondary ion mass spectrometry and super-resolution microscopy. Integrative Biology (United Kingdom), 2016, 8, 635-644.	0.6	48
102	Thermally evaporated (oxide) iron on an alumina barrier layer by ToF-SIMS. Surface Science Spectra, 2015, 22, 14-21.	0.3	5
103	Al2O3 e-beam evaporated onto silicon (100)/SiO2 by ToF-SIMS. Surface Science Spectra, 2015, 22, 7-13.	0.3	10
104	Silicon (100)/SiO2 by ToF-SIMS. Surface Science Spectra, 2015, 22, 1-6.	0.3	14
105	Thermally annealed iron thin film on an alumina barrier layer by ToF-SIMS. Surface Science Spectra, 2015, 22, 22-28.	0.3	4
106	Multiwalled carbon nanotube forest grown via chemical vapor deposition from iron catalyst nanoparticles by ToF-SIMS. Surface Science Spectra, 2015, 22, 29-33.	0.3	5
107	Argon Cluster Sputtering Source for ToF-SIMS Depth Profiling of Insulating Materials: High Sputter Rate and Accurate Interfacial Information. Journal of the American Society for Mass Spectrometry, 2015, 26, 1283-1290.	1.2	24
108	Two-dimensional and three-dimensional dynamic imaging of live biofilms in a microchannel by time-of-flight secondary ion mass spectrometry. Biomicrofluidics, 2015, 9, 031101.	1.2	36

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109	Synergistic effects of iodine and silver ions co-implanted in 6Hâ€“SiC. Journal of Nuclear Materials, 2015, 467, 582-587.	1.3	7
110	Magnesium behavior and structural defects in Mg+ ion implanted silicon carbide. Journal of Nuclear Materials, 2015, 458, 146-155.	1.3	13
111	Anticorrelation between Surface and Subsurface Point Defects and the Impact on the Redox Chemistry of TiO₂(110). ChemPhysChem, 2015, 16, 313-321.	1.0	41
112	The fate of silicon during glass corrosion under alkaline conditions: A mechanistic and kinetic study with the International Simple Glass. Geochimica Et Cosmochimica Acta, 2015, 151, 68-85.	1.6	165
113	miR-367 promotes epithelial-to-mesenchymal transition and invasion of pancreatic ductal adenocarcinoma cells by targeting the Smad7-TGF-Î² signalling pathway. British Journal of Cancer, 2015, 112, 1367-1375.	2.9	70
114	Determination of carbon distributions in quenched and partitioned microstructures using nanoscale secondary ion mass spectroscopy. Scripta Materialia, 2015, 104, 79-82.	2.6	19
115	Measuring Compositions in Organic Depth Profiling: Results from a VAMAS Interlaboratory Study. Journal of Physical Chemistry B, 2015, 119, 10784-10797.	1.2	56
116	ToF-SIMS characterization of silk fibroin and polypyrrole composite actuators. Synthetic Metals, 2015, 209, 490-495.	2.1	11
117	In Situ Mass Spectrometric Determination of Molecular Structural Evolution at the Solid Electrolyte Interphase in Lithium-Ion Batteries. Nano Letters, 2015, 15, 6170-6176.	4.5	73
118	Ag out-surface diffusion in crystalline SiC with an effective SiO2 diffusion barrier. Journal of Nuclear Materials, 2015, 464, 294-298.	1.3	3
119	The Role of Cesium Cation in Controlling Interphasial Chemistry on Graphite Anode in Propylene Carbonate-Rich Electrolytes. ACS Applied Materials & Interfaces, 2015, 7, 20687-20695.	4.0	41
120	Direct Probes of 4 nm Diameter Gold Nanoparticles Interacting with Supported Lipid Bilayers. Journal of Physical Chemistry C, 2015, 119, 534-546.	1.5	77
121	ToF-SIMS depth profiling of insulating samples, interlaced mode or non-interlaced mode?. Surface and Interface Analysis, 2014, 46, 257-260.	0.8	11
122	Carbon Mineralizability Determines Interactive Effects on Mineralization of Pyrogenic Organic Matter and Soil Organic Carbon. Environmental Science & Technology, 2014, 48, 13727-13734.	4.6	67
123	Cold crucible induction melter studies for making glass ceramic waste forms: A feasibility assessment. Journal of Nuclear Materials, 2014, 444, 481-492.	1.3	82
124	Electronic stopping powers for heavy ions in SiC and SiO2. Journal of Applied Physics, 2014, 115, 044903.	1.1	36
125	Early hypercytokinemia is associated with interferon-induced transmembrane protein-3 dysfunction and predictive of fatal H7N9 infection. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 769-774.	3.3	250
126	In situ chemical probing of the electrodeâ€“electrolyte interface by ToF-SIMS. Lab on A Chip, 2014, 14, 855-859.	3.1	61

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127	Electrodeposition from Acidic Solutions of Nickel Bis(benzenedithiolate) Produces a Hydrogen-Evolving Niâ€“S Film on Glassy Carbon. ACS Catalysis, 2014, 4, 90-98.	5.5	59
128	In situ SEM and ToFâ€SIMS analysis of IgG conjugated gold nanoparticles at aqueous surfaces. Surface and Interface Analysis, 2014, 46, 224-228.	0.8	24
129	In situ molecular imaging of a hydrated biofilm in a microfluidic reactor by ToF-SIMS. Analyst, The, 2014, 139, 1609-1613.	1.7	45
130	Mitigating Voltage Fade in Cathode Materials by Improving the Atomic Level Uniformity of Elemental Distribution. Nano Letters, 2014, 14, 2628-2635.	4.5	273
131	Low-temperature lithium diffusion in simulated high-level boroaluminosilicate nuclear waste glasses. Journal of Non-Crystalline Solids, 2014, 405, 83-90.	1.5	18
132	Microstructure and Cs Behavior of Ba-Doped Aluminosilicate Pollucite Irradiated with F⁺ Ions. Journal of Physical Chemistry C, 2014, 118, 18160-18169.	1.5	7
133	Angular distribution and recoil effect for 1MeV Au+ ions through a Si3N4 thin foil. Nuclear Instruments & Methods in Physics Research B, 2014, 332, 346-350.	0.6	0
134	NanoSIMS imaging alteration layers of a leached SON68 glass via a FIB-made wedged crater. Surface and Interface Analysis, 2014, 46, 233-237.	0.8	6
135	Characterizing Ion Profiles in Dynamic Junction Light-Emitting Electrochemical Cells. ACS Applied Materials & Interfaces, 2013, 5, 11509-11514.	4.0	25
136	Performance of a microfluidic device for in situ ToF-SIMS analysis of selected organic molecules at aqueous surfaces. Analytical Methods, 2013, 5, 2515.	1.3	30
137	Comparison between simulated and experimental Au-ion profiles implanted in nanocrystalline ceria. Nuclear Instruments & Methods in Physics Research B, 2013, 307, 93-97.	0.6	16
138	Ion distribution and electronic stopping power for Au ions in silicon carbide. Nuclear Instruments & Methods in Physics Research B, 2013, 307, 65-70.	0.6	22
139	Multiâ€instrument characterization of the surfaces and materials in microfabricated, carbon nanotubeâ€templated thin layer chromatography plates. An analogy to â€˜The Blind Men and the Elephantâ€™. Surface and Interface Analysis, 2013, 45, 1273-1282.	0.8	52
140	Surface science analysis of GaAs photocathodes following sustained electron beam delivery. Physical Review Special Topics: Accelerators and Beams, 2012, 15, .	1.8	7
141	A model for phosphosilicate glass deposition via POCl3 for control of phosphorus dose in Si. Journal of Applied Physics, 2012, 112, 124912.	1.1	18
142	Characterization of Ion Profiles in Light-Emitting Electrochemical Cells by Secondary Ion Mass Spectrometry. ACS Applied Materials & Interfaces, 2012, 4, 1149-1153.	4.0	25
143	Performance of solid oxide fuel cells operated with coal syngas provided directly from a gasification process. Journal of Power Sources, 2012, 214, 142-152.	4.0	29
144	MeV Au ion irradiation in silicon and nanocrystalline zirconia film deposited on silicon substrate. Nuclear Instruments & Methods in Physics Research B, 2012, 286, 173-179.	0.6	9

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145	Molecular dynamics simulations of ion range profiles for heavy ions in light targets. Nuclear Instruments & Methods in Physics Research B, 2012, 286, 45-50.	0.6	10
146	Damage profiles and ion distribution in Pt-irradiated SiC. Nuclear Instruments & Methods in Physics Research B, 2012, 286, 114-118.	0.6	13
147	Defects and Minor Phases in O+and Zr+Ion Co-implanted SrTiO3. Industrial & Engineering Chemistry Research, 2012, 51, 621-628.	1.8	9
148	Are cluster ion analysis beams good choices for hydrogen depth profiling using timeâ€ofâ€flight secondary ion mass spectrometry?. Surface and Interface Analysis, 2012, 44, 89-93.	0.8	13
149	An investigation of hydrogen depth profiling using ToFâ€SIMS. Surface and Interface Analysis, 2012, 44, 232-237.	0.8	33
150	Probing liquid surfaces under vacuum using SEM and ToF-SIMS. Lab on A Chip, 2011, 11, 2481.	3.1	80
151	Internal structure, hygroscopic and reactive properties of mixed sodium methanesulfonate-sodium chloride particles. Physical Chemistry Chemical Physics, 2011, 13, 11846.	1.3	25
152	Ga-doped ZnO grown by pulsed laser deposition in H2: The roles of Ga and H. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2011, 29, 03A102.	0.9	11
153	Serial and Parallel Si, Ge, and SiGe Direct-Write with Scanning Probes and Conducting Stamps. Nano Letters, 2011, 11, 2386-2389.	4.5	20
154	Functionalization/passivation of porous graphitic carbon with di-tert-amylperoxide. Journal of Chromatography A, 2011, 1218, 8362-8369.	1.8	5
155	Using C₆₀⁺ sputtering to improve detection limit of nitrogen in zinc oxide. Surface and Interface Analysis, 2011, 43, 661-663.	0.8	4
156	Defect- and strain-enhanced cavity formation and Au precipitation at nano-crystalline ZrO2/SiO2/Si interfaces. Nuclear Instruments & Methods in Physics Research B, 2011, 269, 126-132.	0.6	6
157	Making a hybrid microfluidic platform compatible for in situ imaging by vacuum-based techniques. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2011, 29, .	0.9	67
158	Epitaxial growth, structure, and intermixing at the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mi mathvariant="normal">LaAlO</mml:mi><mml:mrow><mml:mn>3</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math>/<m xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mi mathvariant="normal">SrTiO</mml:mi><mml:mrow><mml:mn>3</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math>inte as the film stoichiometry is var. Physical Review B, 2011, 83, .	1.1	108
159	Radiation Induced Cavity Formation and Gold Precipitation at the Interfaces of a ZrO2/SiO2/Si Heterostructure. Materials Research Society Symposia Proceedings, 2011, 1298, 111.	0.1	2
160	Thermodynamic instability at the stoichiometric LaAlO₃/SrTiO₃(001) interface. Journal of Physics Condensed Matter, 2010, 22, 312201.	0.7	77
161	Effect of Cr2O3 on the 18O tracer incorporation in SOFC materials. Solid State Ionics, 2010, 181, 640-645.	1.3	14
162	Why ozonolysis may not increase the hydrophilicity of particles. Atmospheric Environment, 2010, 44, 939-944.	1.9	20

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163	Scanning Probe Directâ€Write of Germanium Nanostructures. Advanced Materials, 2010, 22, 4639-4642.	11.1	29
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