Yijin Liu

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/6423286/publications.pdf

Version: 2024-02-01

167	10,017	53	96
papers	citations	h-index	g-index
168	168	168	9084
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Structural and chemical evolution in layered oxide cathodes of lithium-ion batteries revealed by synchrotron techniques. National Science Review, 2022, 9, nwab146.	4. 6	27
2	Probing lattice defects in crystalline battery cathode using hard X-ray nanoprobe with data-driven modeling. Energy Storage Materials, 2022, 45, 647-655.	9 . 5	7
3	Value-creating upcycling of retired electric vehicle battery cathodes. Cell Reports Physical Science, 2022, 3, 100741.	2.8	24
4	Resolving Charge Distribution for Compositionally Heterogeneous Battery Cathode Materials. Nano Letters, 2022, 22, 1278-1286.	4.5	7
5	Investigating Particle Sizeâ€Dependent Redox Kinetics and Charge Distribution in Disordered Rocksalt Cathodes. Advanced Functional Materials, 2022, 32, .	7.8	10
6	Thermal-healing of lattice defects for high-energy single-crystalline battery cathodes. Nature Communications, 2022, 13, 704.	5.8	33
7	Anomalous Thermal Decomposition Behavior of Polycrystalline LiNi _{0.8} Mn _{0.1} Co _{0.1} O ₂ in PEOâ€Based Solid Polymer Electrolyte. Advanced Functional Materials, 2022, 32, .	7.8	19
8	Characterization of photoinduced normal state through charge density wave in superconducting YBa ₂ Cu ₃ O _{6.67} . Science Advances, 2022, 8, eabk0832.	4.7	3
9	Structural, Dynamic, and Chemical Complexities in Zinc Anode of an Operating Aqueous Znâ€lon Battery. Advanced Energy Materials, 2022, 12, .	10.2	32
10	Dynamics of particle network in composite battery cathodes. Science, 2022, 376, 517-521.	6.0	86
11	Additive engineering for robust interphases to stabilize high-Ni layered structures at ultra-high voltage of 4.8 V. Nature Energy, 2022, 7, 484-494.	19.8	138
12	In-Situ Visualization of the Transition Metal Dissolution in Layered Cathodes. Journal of Electrochemical Energy Conversion and Storage, 2022, 19, .	1.1	2
13	Deepâ€Learningâ€Enabled Crack Detection and Analysis in Commercial Lithiumâ€Ion Battery Cathodes. Advanced Functional Materials, 2022, 32, .	7.8	9
14	(Invited) Dynamic Plating/Stripping Behavior of Zn Anode in an Operating Aqueous Zn-Ion Battery. ECS Meeting Abstracts, 2022, MA2022-01, 1192-1192.	0.0	0
15	Heterogeneous Damage and Network Evolution in Composite Electrodes of Li-Ion Batteries. ECS Meeting Abstracts, 2022, MA2022-01, 1637-1637.	0.0	0
16	Chemomechanics of Rechargeable Batteries: Status, Theories, and Perspectives. Chemical Reviews, 2022, 122, 13043-13107.	23.0	59
17	(Invited) Mesoscale Reaction Kinetics Modulated By Structural and Compositional Heterogeneity in Battery Cathode Materials. ECS Meeting Abstracts, 2022, MA2022-01, 1635-1635.	0.0	0
18	In situ visualization of multicomponents coevolution in a battery pouch cell. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	3.3	6

#	Article	IF	CITATIONS
19	(Invited) A Macro-to-Nano Zoom through the Hierarchy of a Lithium Ion Battery. ECS Meeting Abstracts, 2022, MA2022-01, 1650-1650.	0.0	0
20	Data-Driven Lithium-Ion Battery Cathode Research with State-of-the-Art Synchrotron X-ray Techniques. Accounts of Materials Research, 2022, 3, 854-865.	5.9	6
21	Evidence for oxygenation of Fe-Mg oxides at mid-mantle conditions and the rise of deep oxygen. National Science Review, 2021, 8, nwaa096.	4.6	15
22	Operando Tailoring of Defects and Strains in Corrugated βâ€Ni(OH) ₂ Nanosheets for Stable and Highâ€Rate Energy Storage. Advanced Materials, 2021, 33, e2006147.	11.1	44
23	Understanding the Mesoscale Degradation in Nickel-Rich Cathode Materials through Machine-Learning-Revealed Strain–Redox Decoupling. ACS Energy Letters, 2021, 6, 687-693.	8.8	42
24	Temperature-Swing Synthesis of Large-Size Single-Crystal LiNi _{0.6} Mn _{0.2} Co _{0.2} O ₂ Cathode Materials. Journal of the Electrochemical Society, 2021, 168, 010534.	1.3	36
25	A Study of Modelâ∈Based Protective Fastâ€Charging and Associated Degradation in Commercial Smartphone Cells: Insights on Cathode Degradation as a Result of Lithium Depositions on the Anode. Advanced Energy Materials, 2021, 11, 2003019.	10.2	7
26	A Hierarchical-Structured Impeller with Engineered Pd Nanoparticles Catalyzing Suzuki Coupling Reactions for High-Purity Biphenyl. ACS Applied Materials & Samp; Interfaces, 2021, 13, 17429-17438.	4.0	16
27	(Invited) Hierarchical Defect Engineering for Electrochemical Energy Storage Materials. ECS Meeting Abstracts, 2021, MA2021-01, 1976-1976.	0.0	0
28	Selective dopant segregation modulates mesoscale reaction kinetics in layered transition metal oxide. Nano Energy, 2021, 84, 105926.	8.2	42
29	Reversible Mn/Cr dual redox in cation-disordered Li-excess cathode materials for stable lithium ion batteries. Acta Materialia, 2021, 212, 116935.	3.8	16
30	High-resolution multicontrast tomography with an X-ray microarray anode–structured target source. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	18
31	Fast Li Plating Behavior Probed by X-ray Computed Tomography. Nano Letters, 2021, 21, 5254-5261.	4.5	19
32	The interplay among compositional heterogeneity, lattice defects, micromorphology, and redox stratification in lithium-ion batteries. Microscopy and Microanalysis, 2021, 27, 1216-1217.	0.2	0
33	Multiphase, Multiscale Chemomechanics at Extreme Low Temperatures: Battery Electrodes for Operation in a Wide Temperature Range. Advanced Energy Materials, 2021, 11, 2102122.	10.2	27
34	Role of Fluorine in Chemomechanics of Cation-Disordered Rocksalt Cathodes. Chemistry of Materials, 2021, 33, 7028-7038.	3.2	8
35	The role of structural defects in commercial lithium-ion batteries. Cell Reports Physical Science, 2021, 2, 100554.	2.8	32
36	Deep-learning-based image registration for nano-resolution tomographic reconstruction. Journal of Synchrotron Radiation, 2021, 28, 1909-1915.	1.0	9

#	Article	IF	Citations
37	Automatic 3D image registration for nano-resolution chemical mapping using synchrotron spectro-tomography. Journal of Synchrotron Radiation, 2021, 28, 278-282.	1.0	11
38	Understanding multi-scale battery degradation with a macro-to-nano zoom through its hierarchy. Journal of Materials Chemistry A, 2021, 9, 19886-19893.	5.2	14
39	Heterogeneous Reaction Activities and Statistical Characteristics of Particle Cracking in Battery Electrodes. ACS Energy Letters, 2021, 6, 4065-4070.	8.8	26
40	Machine-and-data intelligence for synchrotron science. Nature Reviews Physics, 2021, 3, 766-768.	11.9	14
41	In Situ Visualization of Li-Whisker with Grating-Interferometry-Based Tricontrast X-ray Microtomography. , 2021, 3, 1786-1792.		8
42	Charge distribution guided by grain crystallographic orientations in polycrystalline battery materials. Nature Communications, 2020, $11,83$.	5.8	129
43	Thermal stress-induced charge and structure heterogeneity in emerging cathode materials. Materials Today, 2020, 35, 87-98.	8.3	45
44	Hierarchical Defect Engineering for LiCoO2 through Low-Solubility Trace Element Doping. CheM, 2020, 6, 2759-2769.	5.8	74
45	Quantifying redox heterogeneity in single-crystalline LiCoO ₂ cathode particles. Journal of Synchrotron Radiation, 2020, 27, 713-719.	1.0	12
46	Uncovering phase transformation, morphological evolution, and nanoscale color heterogeneity in tungsten oxide electrochromic materials. Journal of Materials Chemistry A, 2020, 8, 20000-20010.	5.2	21
47	Mutual modulation between surface chemistry and bulk microstructure within secondary particles of nickel-rich layered oxides. Nature Communications, 2020, 11 , 4433.	5.8	78
48	Ultrafast Construction of Oxygen-Containing Scaffold over Graphite for Trapping Ni ²⁺ into Single Atom Catalysts. ACS Nano, 2020, 14, 11662-11669.	7.3	20
49	Depth-dependent valence stratification driven by oxygen redox in lithium-rich layered oxide. Nature Communications, 2020, 11, 6342.	5.8	34
50	Applications of Full-field Transmission X-ray Nanotomography and X-ray Nanospectroscopy at Stanford Synchrotron Radiation Lightsource. Microscopy and Microanalysis, 2020, 26, 778-780.	0.2	1
51	Machine-learning-revealed statistics of the particle-carbon/binder detachment in lithium-ion battery cathodes. Nature Communications, 2020, 11, 2310.	5.8	143
52	Computational Modeling of Heterogeneity of Stress, Charge, and Cyclic Damage in Composite Electrodes of Li-Ion Batteries. Journal of the Electrochemical Society, 2020, 167, 040527.	1.3	36
53	Quantitative probing of the fast particle motion during the solidification of battery electrodes. Applied Physics Letters, 2020, 116, .	1.5	6
54	Operando Revealing Dynamic Reconstruction of NiCo Carbonate Hydroxide for High-Rate Energy Storage. Joule, 2020, 4, 673-687.	11.7	88

#	Article	IF	CITATIONS
55	Distinct Surface and Bulk Thermal Behaviors of LiNi _{0.6} Mn _{0.2} Co _{0.2} O ₂ Cathode Materials as a Function of State of Charge. ACS Applied Materials & Cathode Materials &	4.0	19
56	Enabling Stable Cycling of 4.2 V Highâ€Voltage Allâ€Solidâ€State Batteries with PEOâ€Based Solid Electrolyte. Advanced Functional Materials, 2020, 30, 1909392.	7.8	204
57	High-dimensional and high-resolution x-ray tomography for energy materials science. MRS Bulletin, 2020, 45, 283-289.	1.7	13
58	Surface-to-Bulk Redox Coupling through Thermally Driven Li Redistribution in Li- and Mn-Rich Layered Cathode Materials. Journal of the American Chemical Society, 2019, 141, 12079-12086.	6.6	47
59	Trace doping of multiple elements enables stable battery cycling of LiCoO2 at 4.6 V. Nature Energy, 2019, 4, 594-603.	19.8	572
60	Quantification of Heterogeneous Degradation in Liâ€ion Batteries. Advanced Energy Materials, 2019, 9, 1900674.	10.2	176
61	Heterogeneous damage in Li-ion batteries: Experimental analysis and theoretical modeling. Journal of the Mechanics and Physics of Solids, 2019, 129, 160-183.	2.3	164
62	Thermally-driven mesopore formation and oxygen release in delithiated NCA cathode particles. Journal of Materials Chemistry A, 2019, 7, 12593-12603.	5.2	41
63	Solar-driven, highly sustained splitting of seawater into hydrogen and oxygen fuels. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 6624-6629.	3.3	524
64	Highâ€Voltage Chargingâ€Induced Strain, Heterogeneity, and Microâ€Cracks in Secondary Particles of a Nickelâ€Rich Layered Cathode Material. Advanced Functional Materials, 2019, 29, 1900247.	7.8	219
65	Evolution of Local Structural Ordering and Chemical Distribution upon Delithiation of a Rock Salt–Structured Li _{1.3} Ta _{0.3} Mn _{0.4} O ₂ Cathode. Advanced Functional Materials, 2019, 29, 1808294.	7.8	41
66	Applications for Nanoscale X-ray Imaging at High Pressure. Engineering, 2019, 5, 479-489.	3.2	11
67	Surface Characterization of Li-Substituted Compositionally Heterogeneous NaLi _{0.045} Cu _{0.185} Fe _{0.265} Mn _{0.505} O ₂ Sodium-Ion Cathode Material. Journal of Physical Chemistry C, 2019, 123, 11428-11435.	1.5	13
68	Tracerâ€Guided Characterization of Dominant Pore Networks and Implications for Permeability and Wettability in Shale. Journal of Geophysical Research: Solid Earth, 2019, 124, 1459-1479.	1.4	10
69	Simultaneous threeâ€dimensional elemental mapping of Hollandite and Pyrochlore material phases in ceramic waste form materials. Journal of the American Ceramic Society, 2019, 102, 5620-5631.	1.9	0
70	Highly active oxygen evolution integrated with efficient CO ₂ to CO electroreduction. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 23915-23922.	3.3	58
71	Mesoscale Chemomechanical Interplay of the LiNi _{0.8} Cathode in Solid-State Polymer Batteries. Chemistry of Materials, 2019, 31, 491-501.	3.2	89
72	Three-dimensional localization of nanoscale battery reactions using soft X-ray tomography. Nature Communications, 2018, 9, 921.	5.8	107

#	Article	IF	Citations
73	Synergistically Enhancing the Therapeutic Effect of Radiation Therapy with Radiation Activatable and Reactive Oxygen Species-Releasing Nanostructures. ACS Nano, 2018, 12, 4946-4958.	7.3	101
74	Oxygen Release Induced Chemomechanical Breakdown of Layered Cathode Materials. Nano Letters, 2018, 18, 3241-3249.	4.5	237
75	Charge Heterogeneity and Surface Chemistry in Polycrystalline Cathode Materials. Joule, 2018, 2, 464-477.	11.7	145
76	Depth-Dependent Redox Behavior of LiNi _{0.6} Mn _{0.2} Co _{0.2} O ₂ . Journal of the Electrochemical Society, 2018, 165, A696-A704.	1.3	123
77	Structure-Induced Reversible Anionic Redox Activity in Na Layered Oxide Cathode. Joule, 2018, 2, 125-140.	11.7	311
78	Synchrotron Radiation Nanoscale X-ray Imaging Technology And Scientific Big Data Mining Assist Energy Materials Research. Microscopy and Microanalysis, 2018, 24, 542-543.	0.2	0
79	Automatic projection image registration for nanoscale X-ray tomographic reconstruction. Journal of Synchrotron Radiation, 2018, 25, 1819-1826.	1.0	23
80	Chemomechanical behaviors of layered cathode materials in alkali metal ion batteries. Journal of Materials Chemistry A, 2018, 6, 21859-21884.	5.2	139
81	Thermally driven mesoscale chemomechanical interplay in Li _{0.5} Ni _{0.6} Mn _{0.2} Co _{0.2} O ₂ cathode materials. Journal of Materials Chemistry A, 2018, 6, 23055-23061.	5.2	38
82	Chemomechanical interplay of layered cathode materials undergoing fast charging in lithium batteries. Nano Energy, 2018, 53, 753-762.	8.2	173
83	Empowering multicomponent cathode materials for sodium ion batteries by exploring three-dimensional compositional heterogeneities. Energy and Environmental Science, 2018, 11, 2496-2508.	15.6	45
84	Direct observation of the kinetics of gas–solid reactions using ⟨i⟩in situ⟨ i⟩ kinetic and spectroscopic techniques. Reaction Chemistry and Engineering, 2018, 3, 668-675.	1.9	8
85	Evolution of the nanoporous microstructure of sintered Ag at high temperature using in-situ X-ray nanotomography. Acta Materialia, 2018, 156, 310-317.	3.8	22
86	Propagation topography of redox phase transformations in heterogeneous layered oxide cathode materials. Nature Communications, 2018, 9, 2810.	5.8	59
87	Understanding spin configuration in the geometrically frustrated magnet TbB4: A resonant soft X-ray scattering study. Current Applied Physics, 2018, 18, 1205-1211.	1.1	2
88	Sodium Ion Batteries: Stable Carbon–Selenium Bonds for Enhanced Performance in <i>Tremella</i> à€Łike 2D Chalcogenide Battery Anode (Adv. Energy Mater. 23/2018). Advanced Energy Materials, 2018, 8, 1870106.	10.2	19
89	Mesoscale Battery Science: The Behavior of Electrode Particles Caught on a Multispectral X-ray Camera. Accounts of Chemical Research, 2018, 51, 2484-2492.	7.6	58
90	Stable Carbon–Selenium Bonds for Enhanced Performance in <i>Tremella</i> ‣ike 2D Chalcogenide Battery Anode. Advanced Energy Materials, 2018, 8, 1800927.	10.2	68

#	Article	IF	Citations
91	Understanding the Effect of Local Short-Range Ordering on Lithium Diffusion in Li1.3Nb0.3Mn0.4O2 Single-Crystal Cathode. CheM, 2018, 4, 2108-2123.	5.8	80
92	Phase transformation mechanism in lithium manganese nickel oxide revealed by single-crystal hard X-ray microscopy. Nature Communications, 2017, 8, 14309.	5.8	124
93	In situ Visualization of State-of-Charge Heterogeneity within a LiCoO ₂ Particle that Evolves upon Cycling at Different Rates. ACS Energy Letters, 2017, 2, 1240-1245.	8.8	159
94	Cu 2 ZnSnSe 4 Photovoltaic Absorber Layers Evaluated by Transmission Xâ€Ray Microscopy Tomography: Composition Fluctuations on the Length Scale of Grains. Solar Rrl, 2017, 1, 1600024.	3.1	0
95	Nanoporous Tin with a Granular Hierarchical Ligament Morphology as a Highly Stable Li-Ion Battery Anode. ACS Applied Materials & Samp; Interfaces, 2017, 9, 293-303.	4.0	60
96	Synchrotron X-ray Analytical Techniques for Studying Materials Electrochemistry in Rechargeable Batteries. Chemical Reviews, 2017, 117, 13123-13186.	23.0	390
97	Threeâ€dimensional mapping of crystalline ceramic waste form materials. Journal of the American Ceramic Society, 2017, 100, 3722-3735.	1.9	6
98	Elemental and Chemical Mapping of High Capacity Intermetallic Li-ion Anodes with Transmission X-ray Microscopy. Jom, 2017, 69, 1478-1483.	0.9	7
99	Finding a Needle in the Haystack: Identification of Functionally Important Minority Phases in an Operating Battery. Nano Letters, 2017, 17, 7782-7788.	4.5	42
100	Monitoring Deformation in Graphene Through Hyperspectral Synchrotron Spectroscopy to Inform Fabrication. Journal of Physical Chemistry C, 2017, 121, 15653-15664.	1.5	3
101	Transformations and Decomposition of MnCO3 at Earth's Lower Mantle Conditions. Frontiers in Earth Science, $2016, 4, .$	0.8	7
102	Ideal charge-density-wave order in the high-field state of superconducting YBCO. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 14645-14650.	3.3	83
103	Characterization of heterogeneity in the Heletz sandstone from core to pore scale and quantification of its impact on multi-phase flow. International Journal of Greenhouse Gas Control, 2016, 48, 69-83.	2.3	31
104	Structural integrityâ€"Searching the key factor to suppress the voltage fade of Li-rich layered cathode materials through 3D X-ray imaging and spectroscopy techniques. Nano Energy, 2016, 28, 164-171.	8.2	44
105	Relating structure and composition with accessibility of a single catalyst particle using correlative 3-dimensional micro-spectroscopy. Nature Communications, 2016, 7, 12634.	5.8	74
106	Metal segregation in hierarchically structured cathode materials for high-energy lithium \hat{A} batteries. Nature Energy, 2016, 1, .	19.8	209
107	Unsupervised Data Mining in nanoscale X-ray Spectro-Microscopic Study of NdFeB Magnet. Scientific Reports, 2016, 6, 34406.	1.6	23
108	Persistent Stateâ€ofâ€Charge Heterogeneity in Relaxed, Partially Charged Li _{1â^²} <i>_x</i> Ni _{1/3} Co _{1/3} Mn _{1/3} O ₂ Secondary Particles. Advanced Materials, 2016, 28, 6631-6638.	11.1	142

#	Article	IF	Citations
109	Utilizing Environmental Friendly Iron as a Substitution Element in Spinel Structured Cathode Materials for Safer High Energy Lithiumâ€ion Batteries. Advanced Energy Materials, 2016, 6, 1501662.	10.2	35
110	To get the most out of high resolution X-ray tomography: A review of the post-reconstruction analysis. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2016, 117, 29-41.	1.5	37
111	General 2.5 power law of metallic glasses. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 1714-1718.	3.3	50
112	Extraction of pore-morphology and capillary pressure curves of porous media from synchrotron-based tomography data. Scientific Reports, 2015, 5, 10635.	1.6	20
113	Life and death of a single catalytic cracking particle. Science Advances, 2015, 1, e1400199.	4.7	124
114	Synchrotron-based transmission x-ray microscopy for improved extraction in shale during hydraulic fracturing. Proceedings of SPIE, 2015 , , .	0.8	2
115	Sub-100 nm resolution 3-D tomography of CZTSe using transmission X-ray Microscopy. , 2015, , .		0
116	Nonequilibrium Pathways during Electrochemical Phase Transformations in Single Crystals Revealed by Dynamic Chemical Imaging at Nanoscale Resolution. Advanced Energy Materials, 2015, 5, 1402040.	10.2	42
117	Mapping Metals Incorporation of a Whole Single Catalyst Particle Using Element Specific X-ray Nanotomography. Journal of the American Chemical Society, 2015, 137, 102-105.	6.6	97
118	Registration of the rotation axis in X-ray tomography. Journal of Synchrotron Radiation, 2015, 22, 452-457.	1.0	19
119	Five-dimensional visualization of phase transition in BiNiO3 under high pressure. Applied Physics Letters, 2014, 104, 043108.	1.5	18
120	SSRL/LCLS Users' Meeting and Workshops Draw Hundreds to SLAC. Synchrotron Radiation News, 2014, 27, 49-55.	0.2	0
121	Nanoscale Morphological and Chemical Changes of High Voltage Lithium–Manganese Rich NMC Composite Cathodes with Cycling. Nano Letters, 2014, 14, 4334-4341.	4.5	163
122	Study on the synthesis–microstructure-performance relationship of layered Li-excess nickel–manganese oxide as a Li-ion battery cathode prepared by high-temperature calcination. Journal of Materials Chemistry A, 2013, 1, 10847.	5.2	29
123	Three-dimensional microstructural mapping of poisoning phases in the Neodymium Nickelate solid oxide fuel cell cathode. Solid State Ionics, 2013, 237, 16-21.	1.3	12
124	X-ray nanoscopy of cobalt Fischer–Tropsch catalysts at work. Chemical Communications, 2013, 49, 4622.	2.2	71
125	Full-field XANES analysis of Roman ceramics to estimate firing conditions—A novel probe to study hierarchical heterogeneous materials. Journal of Analytical Atomic Spectrometry, 2013, 28, 1870.	1.6	63
126	Nanoscale Visualization of Gas Shale Pore and Textural Features. , 2013, , .		10

#	Article	IF	CITATIONS
127	Mesoscale Phase Distribution in Single Particles of LiFePO ₄ following Lithium Deintercalation. Chemistry of Materials, 2013, 25, 1664-1672.	3.2	120
128	Formation of an interconnected network of iron melt at Earth's lower mantle conditions. Nature Geoscience, 2013, 6, 971-975.	5.4	106
129	Data-processing strategies for nano-tomography with elemental specification. Proceedings of SPIE, 2013, , .	0.8	1
130	3D Nanoscale Chemical Imaging of the Distribution of Aluminum Coordination Environments in Zeolites with Soft Xâ€Ray Microscopy. ChemPhysChem, 2013, 14, 496-499.	1.0	33
131	Nanoscale elemental sensitivity study of Nd ₂ Fe ₁₄ B using absorption correlation tomography. Microscopy Research and Technique, 2013, 76, 1112-1117.	1.2	22
132	Recent advances in synchrotron-based hard x-ray phase contrast imaging. Journal Physics D: Applied Physics, 2013, 46, 494001.	1.3	54
133	Extended depth of focus for transmission x-ray microscope. Optics Letters, 2012, 37, 3708.	1.7	33
134	High pressure nano-tomography using an iterative method. Journal of Applied Physics, 2012, 111, 112626.	1,1	22
135	Hard Xâ€ray Nanotomography of Catalytic Solids at Work. Angewandte Chemie - International Edition, 2012, 51, 11986-11990.	7.2	96
136	In Operando X-ray Diffraction and Transmission X-ray Microscopy of Lithium Sulfur Batteries. Journal of the American Chemical Society, 2012, 134, 6337-6343.	6.6	475
137	Imaging translocation and transformation of bioavailable selenium by Stanleya pinnata with X-ray microscopy. Analytical and Bioanalytical Chemistry, 2012, 404, 1277-1285.	1.9	7
138	3D elemental sensitive imaging using transmission X-ray microscopy. Analytical and Bioanalytical Chemistry, 2012, 404, 1297-1301.	1.9	63
139	<i>TXM-Wizard</i> : a program for advanced data collectionÂand evaluation in full-field transmission X-ray microscopy. Journal of Synchrotron Radiation, 2012, 19, 281-287.	1.0	217
140	Phase retrieval using polychromatic illumination for transmission X-ray microscopy. Optics Express, 2011, 19, 540.	1.7	40
141	Applications of Hard Xâ€ray Fullâ€Field Transmission Xâ€ray Microscopy at SSRL. AIP Conference Proceedings, 2011, , .	0.3	29
142	Three-dimensional imaging of chemical phase transformations at the nanoscale with full-field transmission X-ray microscopy. Journal of Synchrotron Radiation, 2011, 18, 773-781.	1.0	228
143	Transmission Xâ€ray microscopy for fullâ€field nano imaging of biomaterials. Microscopy Research and Technique, 2011, 74, 671-681.	1.2	80
144	Comparison of SOFC cathode microstructure quantified using X-ray nanotomography and focused ion beam–scanning electron microscopy. Electrochemistry Communications, 2011, 13, 586-589.	2.3	72

#	Article	lF	Citations
145	Three-dimensional mapping of nickel oxidation states using full field x-ray absorption near edge structure nanotomography. Applied Physics Letters, 2011, 98, .	1.5	60
146	Comparison of X-ray Nanotomography and FIB-SEM in Quantifying the Composite LSM/YSZ SOFC Cathode Microstructure. ECS Transactions, 2011, 35, 2417-2421.	0.3	6
147	Full Field Imaging of Nickel Oxidation States in Solid Oxide Fuel Cell Anode Materials by Xanes Nanotomography. , 2011, , .		1
148	Analysis of Solid Oxide Fuel Cell LSM-YSZ Composite Cathodes With Varying Starting Powder Sizes. , 2011, , .		0
149	3D Imaging of Nickel Oxidation States using Full Field X-ray Absorption Near Edge Structure Nanotomography. ECS Transactions, 2011, 35, 1315-1321.	0.3	1
150	Nanoscale X-Ray Microscopic Imaging of Mammalian Mineralized Tissue. Microscopy and Microanalysis, 2010, 16, 327-336.	0.2	79
151	Analysis of partial coherence in grating-based phase-contrast X-ray imaging. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2010, 619, 319-322.	0.7	7
152	Low-dose, simple, and fast grating-based X-ray phase-contrast imaging. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 13576-13581.	3.3	208
153	Comparative analysis of phase extraction methods based on phase-stepping and shifting curve in grating interferometry. Chinese Physics B, 2010, 19, 040701.	0.7	6
154	Full-field transmission x-ray microscopy for bio-imaging. Journal of Physics: Conference Series, 2009, 186, 012081.	0.3	18
155	Using X-ray Microscopy and Hg L ₃ XANES To Study Hg Binding in the Rhizosphere of <i>Spartina</i> Cordgrass. Environmental Science & Environ	4.6	52
156	Image enhancement of x-ray microscope using frequency spectrum analysis. Journal of Physics: Conference Series, 2009, 186, 012009.	0.3	2
157	Fresnel zone-plate based X-ray microscopy in Zernike phase contrast with sub-50 nm resolution at NSRL. Journal of Physics: Conference Series, 2009, 186, 012005.	0.3	4
158	Phase retrieval in x-ray imaging based on using structured illumination. Physical Review A, 2008, 78, .	1.0	41
159	Phase retrieval from a single near-field diffraction pattern with a large Fresnel number. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2008, 25, 2651.	0.8	7
160	Investigation of misalignment in analyzer crystal based-CT and its effect. Physics in Medicine and Biology, 2008, 53, 5757-5766.	1.6	5
161	A new iterative algorithm to reconstruct the refractive index. Physics in Medicine and Biology, 2007, 52, L5-L13.	1.6	46
162	Investigation of biomedical inner microstructures with hard X-ray phase-contrast imaging. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2007, 580, 610-613.	0.7	4

Yıjın Liu

#	Article	IF	CITATIONS
163	Edge enhanced X-ray phase tomography. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2007, 580, 617-620.	0.7	1
164	Theory and experiment of in-line phase contrast imaging on non-uniformly distributed source. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2007, 62, 636-641.	1.5	4
165	Experimental and theoretical investigations of diffraction enhanced imaging. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2007, 580, 803-807.	0.7	0
166	Principle of diffraction enhanced imaging (DEI) and computed tomography based on DEI method. Nuclear Science and Techniques/Hewuli, 2006, 17, 342-353.	1.3	2
167	Diffraction enhanced imaging: a simple model. Journal Physics D: Applied Physics, 2006, 39, 4142-4147.	1.3	31