Yoshiharu Uchimoto

List of Publications by Year
in descending order

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389 papers	13,504 citations	44444 50 h-index	40945 97 g-index

405 all docs	405 docs citations	405 times ranked	15643 citing authors

#	Article	IF	Citations
1	Recent Progress on Mixed-Anion Materials for Energy Applications. Bulletin of the Chemical Society of Japan, 2022, 95, 26-37.	2.0	51
2	Anion Substitution at Apical Sites of Ruddlesdenâ€“Popper-type Cathodes toward High Power Density for All-Solid-State Fluoride-Ion Batteries. Chemistry of Materials, 2022, 34, 609-616.	3.2	13
3	Multiscale and hierarchical reaction mechanism in a lithium-ion battery. Chemical Physics Reviews, 2022, 3, .	2.6	11
4	Studies on the inhibition of lithium dendrite formation in sulfide solid electrolytes doped with LiX (XÂ=ÂBr, I). Solid State Ionics, 2022, 377, 115869.	1.3	15
5	Fast fluoride ion conduction of NH4(Mg1-xLix)F3-x and (NH4)2(Mg1-xLix)F4-x assisted by molecular cations. Scientific Reports, 2022, 12, 5955.	1.6	2
6	High Rate Capability from a Graphite Anode through Surface Modification with Lithium Iodide for All-Solid-State Batteries. ACS Applied Energy Materials, 2022, 5, 667-673.	2.5	15
7	Magnetic Compton Scattering Study of Li-Rich Battery Materials. Condensed Matter, 2022, 7, 4.	0.8	5
8	State of the Active Site in La_{1â€“x}Sr_xCoO_{3â^Î´} Under Oxygen Evolution Reaction Investigated by Total-Reflection Fluorescence X-Ray Absorption Spectroscopy. ACS Applied Energy Materials, 2022, 5, 4108-4116.	2.5	4
9	Partial cation disorder in Li₂MnO₃ obtained by high-pressure synthesis. Applied Physics Letters, 2022, 120, 182404.	1.5	0
10	Improvement of Visibleâ€Light H₂ Evolution Activity of Pb₂Ti₂O_{5.4}F_{1.2} Photocatalyst by Coloading of Rh and Pd Cocatalysts. Chemistry - A European Journal, 2022, 28, .	1.7	2
11	Rocksalt type Li2Nb0Â·15Mn0Â·85O3 without structure degradation or redox evolution upon cycling. Journal of Alloys and Compounds, 2021, 853, 156984.	2.8	4
12	Comparison of Sulfur Cathode Reactions between a Concentrated Liquid Electrolyte System and a Solid-State Electrolyte System by Soft X-Ray Absorption Spectroscopy. ACS Applied Energy Materials, 2021, 4, 186-193.	2.5	10
13	Understanding the reaction mechanism and performances of 3d transition metal cathodes for all-solid-state fluoride ion batteries. Journal of Materials Chemistry A, 2021, 9, 406-412.	5.2	33
14	Hydride-based antiperovskites with soft anionic sublattices as fast alkali ionic conductors. Nature Communications, 2021, 12, 201.	5.8	46
15	<i>Operando</i> X-ray Absorption Spectroscopic Study on the Effect of Ionic Liquid Coverage upon the Oxygen Reduction Reaction Activity of Pd-core Pt-shell Catalysts. Electrochemistry, 2021, 89, 31-35.	0.6	4
16	Kinetic analysis and alloy designs for metal/metal fluorides toward high rate capability for all-solid-state fluoride-ion batteries. Journal of Materials Chemistry A, 2021, 9, 7018-7024.	5.2	16
17	High Ionic Conductivity of Liquid-Phase-Synthesized Li₃PS₄ Solid Electrolyte, Comparable to That Obtained via Ball Milling. ACS Applied Energy Materials, 2021, 4, 2275-2281.	2.5	33
18	Improvement of lithium ionic conductivity of Li3PS4 through suppression of crystallization using low-boiling-point solvent in liquid-phase synthesis. Solid State Ionics, 2021, 361, 115568.	1.3	21

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19	Compton Scattering Imaging of Liquid Water in Porous Carbon-Based Materials. Applied Sciences (Switzerland), 2021, 11, 3851.	1.3	3
20	Cuâ€“Pb Nanocomposite Cathode Material toward Room-Temperature Cycling for All-Solid-State Fluoride-Ion Batteries. ACS Applied Energy Materials, 2021, 4, 3352-3357.	2.5	18
21	Impact of the Composition of Alcohol/Water Dispersion on the Proton Transport and Morphology of Cast Perfluorinated Sulfonic Acid Ionomer Thin Films. ACS Omega, 2021, 6, 14130-14137.	1.6	6
22	Tomographic reconstruction of oxygen orbitals in lithium-rich battery materials. Nature, 2021, 594, 213-216.	13.7	56
23	Rate-Determining Process at Electrode/Electrolyte Interfaces for All-Solid-State Fluoride-Ion Batteries. ACS Applied Materials & Interfaces, 2021, 13, 30198-30204.	4.0	14
24	Investigation of the Suppression of Dendritic Lithium Growth with a Lithium-Iodide-Containing Solid Electrolyte. Chemistry of Materials, 2021, 33, 4907-4914.	3.2	30
25	Mixed alkali-ion transport and storage in atomic-disordered honeycomb layered NaKNi2TeO6. Nature Communications, 2021, 12, 4660.	5.8	23
26	Quantitative Evaluation of the Activity of Low-Spin Tetravalent Nickel Ion Sites for the Oxygen Evolution Reaction. ACS Applied Energy Materials, 2021, 4, 10731-10738.	2.5	5
27	Probing the Dissolved Gas Concentration on the Electrode through Laser-Assisted Bubbles. Journal of Physical Chemistry C, 2021, 125, 20952-20957.	1.5	6
28	Phase Transition Behavior of MgMn₂O₄ Spinel Oxide Cathode during Magnesium Ion Insertion. Chemistry of Materials, 2021, 33, 1006-1012.	3.2	24
29	Operando X-ray Absorption Spectroscopic Study on the Influence of Specific Adsorption of the Sulfo Group in the Perfluorosulfonic Acid Ionomer on the Oxygen Reduction Reaction Activity of the Pt/C Catalyst. ACS Applied Energy Materials, 2021, 4, 1143-1149.	2.5	15
30	Fluoride-Ion Shuttle Battery with High Volumetric Energy Density. Chemistry of Materials, 2021, 33, 459-466.	3.2	31
31	Reversible and Fast (De)fluorination of Highâ€Capacity Cu₂O Cathode: One Step Toward Practically Applicable Allâ€Solidâ€State Fluorideâ€Ion Battery. Advanced Energy Materials, 2021, 11, 2102285.	10.2	23
32	Effect of Temperature on Oxygen Reduction Reaction Kinetics for Pd Coreâ€“Pt Shell Catalyst with Different Core Size. ACS Applied Energy Materials, 2021, 4, 810-818.	2.5	6
33	Accelerated lithium ions diffusion at the interface between LiFePO4 electrode and electrolyte by surface-nitride treatment. Solid State Ionics, 2021, 373, 115792.	1.3	2
34	The Effect of Cation Mixing in LiNiO 2 toward the Oxygen Evolution Reaction. ChemElectroChem, 2021, 8, 70-76.	1.7	4
35	(Invited) Operando X-Ray Absorption Fine Structure Studies of Polymer Electrolyte Membrane Electrolysis and Alkaline Water Electrolysis. ECS Meeting Abstracts, 2021, MA2021-02, 1276-1276.	0.0	0
36	Structural environment of chloride ionâ€conducting solids based on lanthanum oxychloride. Journal of the American Ceramic Society, 2020, 103, 297-303.	1.9	15

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37	Observation of Subsurface Structure of Pt/C Catalyst Using Pair Distribution Function and Simple Modeling Techniques. Bulletin of the Chemical Society of Japan, 2020, 93, 37-42.	2.0	5
38	Reviving Galvanic Cells To Synthesize Coreâ€“Shell Nanoparticles with a Quasi-Monolayer Pt Shell for Electrocatalytic Oxygen Reduction. ACS Catalysis, 2020, 10, 430-434.	5.5	11
39	Structural analysis of imperfect Li2TiO3 crystals. Journal of Alloys and Compounds, 2020, 819, 153037.	2.8	6
40	Charge Compensation Mechanism of Lithium-Excess Metal Oxides with Different Covalent and Ionic Characters Revealed by Operando Soft and Hard X-ray Absorption Spectroscopy. Chemistry of Materials, 2020, 32, 139-147.	3.2	37
41	Synthesis of Sulfide Solid Electrolytes through the Liquid Phase: Optimization of the Preparation Conditions. ACS Omega, 2020, 5, 26287-26294.	1.6	22
42	Relationship between rate performance and electronic/structural changes during oxygen redox of lithium-rich 4d/3d transition metal oxides. Solid State Ionics, 2020, 357, 115459.	1.3	6
43	Evaluation of oxygen contribution on delithiation process of Li-rich layered 3d transition metal oxides. Materials Today Communications, 2020, 25, 101673.	0.9	4
44	Substrate-dependent proton transport and nanostructural orientation of perfluorosulfonic acid polymer thin films on Pt and carbon substrate. Solid State Ionics, 2020, 357, 115456.	1.3	4
45	Effect of Interaction among Magnesium Ions, Anion, and Solvent on Kinetics of the Magnesium Deposition Process. Journal of Physical Chemistry C, 2020, 124, 28510-28519.	1.5	19
46	Nanostructured LiMnO₂ with Li₃PO₄ Integrated at the Atomic Scale for High-Energy Electrode Materials with Reversible Anionic Redox. ACS Central Science, 2020, 6, 2326-2338.	5.3	22
47	Disordered Cubic Spinel Structure in the Delithiated Li₂MnO₃ Revealed by Difference Pair Distribution Function Analysis. Journal of Physical Chemistry C, 2020, 124, 24081-24089.	1.5	8
48	Concentration profile of dissolved gas during hydrogen gas evolution: an optical approach. Chemical Communications, 2020, 56, 14483-14486.	2.2	10
49	Surface analysis of lanthanum strontium cobalt oxides under cathodic polarization at high temperature through operando total-reflection X-ray absorption and X-ray fluorescence spectroscopy. Solid State Ionics, 2020, 357, 115502.	1.3	7
50	Observation of Liquid Phase Synthesis of Sulfide Solid Electrolytes Using Timeâ€Resolved Pair Distribution Function Analysis. Physica Status Solidi (B): Basic Research, 2020, 257, 2070041.	0.7	0
51	Capacity Improvement by Nitrogen Doping to Lithium-Rich Cathode Materials with Stabilization Effect of Oxide Ions Redox. ACS Applied Energy Materials, 2020, 3, 4162-4167.	2.5	18
52	Determining Factor on the Polarization Behavior of Magnesium Deposition for Magnesium Battery Anode. ACS Applied Materials & Interfaces, 2020, 12, 25775-25785.	4.0	31
53	Structureâ€Activity Relationship in a Cobalt Aluminate Nanoparticle Cocatalyst with a Graphitic Carbon Nitride Photocatalyst for Visibleâ€Light Water Oxidation. ChemPhotoChem, 2020, 4, 5175-5180.	1.5	1
54	Enhanced Performance Induced by Phase Transition of Li₂FeSiO₄ upon Cycling at High Temperature. ACS Applied Energy Materials, 2020, 3, 5722-5727.	2.5	7

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55	A reversible oxygen redox reaction in bulk-type all-solid-state batteries. Science Advances, 2020, 6, eaax7236.	4.7	34
56	Observation of Liquid Phase Synthesis of Sulfide Solid Electrolytes Using Timeâ€Resolved Pair Distribution Function Analysis. Physica Status Solidi (B): Basic Research, 2020, 257, 2000106.	0.7	4
57	Morphology Changes in Perfluorosulfonated Ionomer from Thickness and Thermal Treatment Conditions. Langmuir, 2020, 36, 3871-3878.	1.6	17
58	Influence of Active Material Loading on Electrochemical Reactions in Composite Solid-State Battery Electrodes Revealed by Operando 3D CT-XANES Imaging. ACS Applied Energy Materials, 2020, 3, 7782-7793.	2.5	29
59	Thickness-induced metal to insulator transition in Ru nanosheets probed by photoemission spectroscopy: Effects of disorder and Coulomb interaction. Scientific Reports, 2020, 10, 1541.	1.6	2
60	Water Oxidation through Interfacial Electron Transfer by Visible Light Using Cobalt-Modified Rutile Titania Thin-Film Photoanode. ACS Applied Materials & Interfaces, 2020, 12, 9219-9225.	4.0	12
61	Cobalt Aluminate Spinel as a Cocatalyst for Photocatalytic Oxidation of Water: Significant Hole-Trapping Effect. ACS Catalysis, 2020, 10, 4960-4966.	5.5	33
62	Activation of a Pt-loaded Pb₂Ti₂O_{5.4}F_{1.2} photocatalyst by alkaline chloride treatment for improved H₂ evolution under visible light. Journal of Materials Chemistry A, 2020, 8, 9099-9108.	5.2	11
63	Reaction mechanism of electrochemical insertion/extraction of magnesium ions in olivine-type FePO4. Solid State Ionics, 2020, 349, 115311.	1.3	8
64	3D Operando Imaging and Quantification of Inhomogeneous Electrochemical Reactions in Composite Battery Electrodes. Journal of Physical Chemistry Letters, 2020, 11, 3629-3636.	2.1	35
65	Single-shot laser-scattering technique refined for the real-time monitoring and sizing of individual nanoparticles and nanobubbles in bulk water. Optics Letters, 2020, 45, 3321.	1.7	0
66	Operando soft X-ray absorption spectroscopic study on microporous carbon-supported sulfur cathodes. RSC Advances, 2020, 10, 39875-39880.	1.7	8
67	Investigation of Cathodic Reaction Mechanism in Solid Oxide Fuel Cells by <i>Operando</i> X-Ray Absorption Spectroscopy. Electrochemistry, 2020, 88, 560-565.	0.6	3
68	Solar Water Oxidation by a Visibleâ€Lightâ€Responsive Tantalum/Nitrogenâ€Codoped Rutile Titania Anode for Photoelectrochemical Water Splitting and Carbon Dioxide Fixation. ChemPhotoChem, 2019, 3, 37-45.	1.5	34
69	Quantitative Elucidation of the Non-Equilibrium Phase Transition in LiFePO₄ via the Intermediate Phase. Chemistry of Materials, 2019, 31, 7160-7166.	3.2	22
70	Identification of ferrimagnetic orbitals preventing spinel degradation by charge ordering in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Li</mml:mi><mml:mi>x</mml:mi></mml:msub><mml:msub><mml:mi>Mn</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn>4</mml:mn></mml:msub></mml:mrow></mml:math>. Physical Review B, 2019, 100, .	3.2	13
71	High Anionic Conductive Form of PbxSn2â€“xF4. Chemistry of Materials, 2019, 31, 7704-7710.	3.2	11
72	Solar Water Oxidation by a Visible-Light-Responsive Tantalum/Nitrogen-Codoped Rutile Titania Anode for Photoelectrochemical Water Splitting and Carbon Dioxide Fixation. ChemPhotoChem, 2019, 3, 3-3.	1.5	1

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73	Morphological Effect on Reaction Distribution Influenced by Binder Materials in Composite Electrodes for Sheet-type All-Solid-State Lithium-Ion Batteries with the Sulfide-based Solid Electrolyte. Journal of Physical Chemistry C, 2019, 123, 3292-3298.	1.5	53
74	Exothermal mechanisms in the charged LiNi1/3Mn1/3Co1/3O2 electrode layers for sulfide-based all-solid-state lithium batteries. Journal of Power Sources, 2019, 434, 226714.	4.0	29
75	Influence of microstructures on conductivity in Tysonite-type fluoride ion conductors. Solid State Ionics, 2019, 338, 113-120.	1.3	16
76	Oxygenâ€Doped Ta₃N₅ Nanoparticles for Enhanced Zâ€Scheme Carbon Dioxide Reduction with a Binuclear Ruthenium(II) Complex under Visible Light. ChemPhotoChem, 2019, 3, 1027-1033.	1.5	10
77	Interfacial Stability of Phosphate-NASICON Solid Electrolytes in Ni-Rich NCM Cathode-Based Solid-State Batteries. ACS Applied Materials & Interfaces, 2019, 11, 23244-23253.	4.0	73
78	Operando Observation of Formation and Annihilation of Inhomogeneous Reaction Distribution in a Composite Electrode for Lithiumâ€ion Batteries. Batteries and Supercaps, 2019, 2, 688-694.	2.4	14
79	Electrochemical phase transformation accompanied with Mg extraction and insertion in a spinel MgMn₂O₄ cathode material. Physical Chemistry Chemical Physics, 2019, 21, 23749-23757.	1.3	39
80	A Visible-Light-Driven Z-Scheme CO2 Reduction System Using Ta3N5 and a Ru(II) Binuclear Complex. Bulletin of the Chemical Society of Japan, 2019, 92, 124-126.	2.0	24
81	In situ Zn/ZnO mapping elucidating for â€œshape changeâ€•of zinc electrode. APL Materials, 2018, 6, .	2.2	17
82	Visible-light CO₂ reduction over a ruthenium(<scp>ii</scp>)-complex/C₃N₄ hybrid photocatalyst: the promotional effect of silver species. Journal of Materials Chemistry A, 2018, 6, 9708-9715.	5.2	31
83	New Precursor Route Using a Compositionally Flexible Layered Oxide and Nanosheets for Improved Nitrogen Doping and Photocatalytic Activity. ACS Applied Energy Materials, 2018, 1, 1734-1741.	2.5	10
84	Grain-boundary-rich mesoporous NiTiO3 micro-prism as high tap-density, super rate and long life anode for sodium and lithium ion batteries. Energy Storage Materials, 2018, 13, 329-339.	9.5	40
85	Surface analysis of topmost layer of epitaxial layered oxide thin film: Application to delafossite oxide for oxygen evolution reaction. Surface Science, 2018, 668, 93-99.	0.8	7
86	Influence of TiO2 Support on Activity of Co3O4/TiO2 Photocatalysts for Visible-Light Water Oxidation. Bulletin of the Chemical Society of Japan, 2018, 91, 486-491.	2.0	16
87	Enhancement of Oxygen Reduction Reaction Activity of Pd Core-Pt Shell Structured Catalyst on a Potential Cycling Accelerated Durability Test. Electrocatalysis, 2018, 9, 125-138.	1.5	16
88	Effect of introducing interlayers into electrode/electrolyte interface in all-solid-state battery using sulfide electrolyte. Solid State Ionics, 2018, 327, 150-156.	1.3	38
89	High Rate Performance of Dual-Substituted LiFePO₄ Based on Controlling Metastable Intermediate Phase. ACS Applied Energy Materials, 2018, 1, 6736-6740.	2.5	9
90	Mechanistic Insight on the Formation of GaN:ZnO Solid Solution from Zn-Ga Layered Double Hydroxide Using Urea as the Nitriding Agent. Inorganic Chemistry, 2018, 57, 13953-13962.	1.9	20

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91	Dependency of the Chargeâ€“Discharge Rate on Lithium Reaction Distributions for a Commercial Lithium Coin Cell Visualized by Compton Scattering Imaging. Condensed Matter, 2018, 3, 27.	0.8	10
92	A Reversible Rocksalt to Amorphous Phase Transition Involving Anion Redox. Scientific Reports, 2018, 8, 15086.	1.6	21
93	Role of Coordination Structure of Magnesium Ions on Charge and Discharge Behavior of Magnesium Alloy Electrode. Journal of Physical Chemistry C, 2018, 122, 25204-25210.	1.5	30
94	Effects of Interfacial Electron Transfer in Metal Complexâ€“Semiconductor Hybrid Photocatalysts on Z-Scheme CO₂ Reduction under Visible Light. ACS Catalysis, 2018, 8, 9744-9754.	5.5	60
95	Undoped Layered Perovskite Oxynitride Li₂LaTa₂O₆N for Photocatalytic CO₂ Reduction with Visible Light. Angewandte Chemie, 2018, 130, 8286-8290.	1.6	17
96	Undoped Layered Perovskite Oxynitride Li₂LaTa₂O₆N for Photocatalytic CO₂ Reduction with Visible Light. Angewandte Chemie - International Edition, 2018, 57, 8154-8158.	7.2	66
97	Site-Selective Analysis of Nickel-Substituted Li-Rich Layered Material: Migration and Role of Transition Metal at Charging and Discharging. Journal of Physical Chemistry C, 2018, 122, 20099-20107.	1.5	7
98	Investigation of charge compensation mechanism of LiNi_{â…“}Co_{â…“}Mn_{â…“}O₂ Positive Electrode during Initial Charge Process by Operando Soft X-ray XAFS Measurement. Journal of Surface Analysis (Online), 2018, 25, 90-102.	0.1	3
99	Charge Compensation Mechanism in Li-Excess Oxides Revealed By Operando Soft/Hard X-Ray Absorption Spectroscopy. ECS Meeting Abstracts, 2018, , .	0.0	0
100	Visualization of Inhomogeneous Reaction Distribution in the Model LiCoO₂ Composite Electrode of Lithium Ion Batteries. Journal of Physical Chemistry C, 2017, 121, 2118-2124.	1.5	35
101	Hidden Two-Step Phase Transition and Competing Reaction Pathways in LiFePO₄. Chemistry of Materials, 2017, 29, 2855-2863.	3.2	25
102	Direct observation of layered-to-spinel phase transformation in Li₂MnO₃ and the spinel structure stabilised after the activation process. Journal of Materials Chemistry A, 2017, 5, 6695-6707.	5.2	72
103	Pressure-Stabilized Cubic Perovskite Oxyhydride BaScO₂H. Inorganic Chemistry, 2017, 56, 4840-4845.	1.9	36
104	Structural and Electronic-State Changes of a Sulfide Solid Electrolyte during the Li Deinsertionâ€“Insertion Processes. Chemistry of Materials, 2017, 29, 4768-4774.	3.2	151
105	Amorphous Metal Polysulfides: Electrode Materials with Unique Insertion/Extraction Reactions. Journal of the American Chemical Society, 2017, 139, 8796-8799.	6.6	84
106	Brownmilleriteâ€type Ca₂FeCoO₅ as a Practicable Oxygen Evolution Reaction Catalyst. ChemSusChem, 2017, 10, 2864-2868.	3.6	50
107	Chargeâ€“Discharge Behavior of Bismuth in a Liquid Electrolyte for Rechargeable Batteries Based on a Fluoride Shuttle. ACS Energy Letters, 2017, 2, 1460-1464.	8.8	77
108	Effect of Potential Profile on Battery Capacity Decrease during Continuous Cycling. Journal of Physical Chemistry C, 2017, 121, 6018-6023.	1.5	12

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109	Visualizing redox orbitals and their potentials in advanced lithium-ion battery materials using high-resolution x-ray Compton scattering. Science Advances, 2017, 3, e1700971.	4.7	24
110	Brownmillerite-type Ca2 FeCoO5 as a Practicable Oxygen Evolution Reaction Catalyst. ChemSusChem, 2017, 10, 2841-2841.	3.6	5
111	Effects of the SrTiO₃ support on visible-light water oxidation with Co₃O₄ nanoparticles. Dalton Transactions, 2017, 46, 16959-16966.	1.6	10
112	<i>In operando</i> quantitation of Li concentration for a commercial Li-ion rechargeable battery using high-energy X-ray Compton scattering. Journal of Synchrotron Radiation, 2017, 24, 1006-1011.	1.0	17
113	Visualization of the reaction distribution in a composite cathode for an all-solid-state lithium-ion battery. Journal of the Ceramic Society of Japan, 2017, 125, 299-302.	0.5	13
114	Development of Li₂TiS₃–Li₃NbS₄ by a mechanochemical process. Journal of the Ceramic Society of Japan, 2017, 125, 268-271.	0.5	11
115	æƒ…å±æ™‚,ä»£ã«ãŠã'ã‚‹æ”¯éƒ¨ã®å½¹å‰². Electrochemistry, 2017, 85, 383-383.	0.6	0
116	Electronic structure of oxide electrode materials studied by Compton profiles. Acta Crystallographica Section A: Foundations and Advances, 2017, 73, C1103-C1103.	0.0	0
117	Selective and low temperature transition metal intercalation in layered tellurides. Nature Communications, 2016, 7, 13809.	5.8	10
118	Structural and electronic features of binary Li2S-P2S5 glasses. Scientific Reports, 2016, 6, 21302.	1.6	100
119	Contactless analysis of electric dipoles at high-<i>k</i>/SiO2 interfaces by surface-charge-switched electron spectroscopy. Applied Physics Letters, 2016, 108, .	1.5	4
120	Discharge/charge reaction mechanisms of FeS2 cathode material for aluminum rechargeable batteries at 55Â°C. Journal of Power Sources, 2016, 313, 9-14.	4.0	137
121	Overpotential-Induced Introduction of Oxygen Vacancy in La_{0.67}Sr_{0.33}MnO₃ Surface and Its Impact on Oxygen Reduction Reaction Catalytic Activity in Alkaline Solution. Journal of Physical Chemistry C, 2016, 120, 6006-6010.	1.5	37
122	Structural Understanding of Superior Battery Properties of Partially Ni-Doped Li2MnO3 as Cathode Material. Journal of Physical Chemistry Letters, 2016, 7, 2063-2067.	2.1	29
123	Direct observation of reversible oxygen anion redox reaction in Li-rich manganese oxide, Li₂MnO₃, studied by soft X-ray absorption spectroscopy. Journal of Materials Chemistry A, 2016, 4, 9293-9302.	5.2	179
124	Anti-site mixing governs the electrochemical performances of olivine-type MgMnSiO₄ cathodes for rechargeable magnesium batteries. Physical Chemistry Chemical Physics, 2016, 18, 13524-13529.	1.3	39
125	Ligancy-Driven Controlling of Covalency and Metallicity in a Ruthenium Two-Dimensional System. Chemistry of Materials, 2016, 28, 5784-5790.	3.2	3
126	Dynamic Behavior at the Interface between Lithium Cobalt Oxide and an Organic Electrolyte Monitored by Neutron Reflectivity Measurements. Journal of Physical Chemistry C, 2016, 120, 20082-20088.	1.5	39

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127	Carbonaceous thin film coating with Feâ€“N 4 site for enhancement of dioxovanadium ion reduction. Journal of Power Sources, 2016, 324, 521-527.	4.0	7
128	Direct Synthesis of Carbonâ€“Molybdenum Carbide Nanosheet Composites via a Pseudotopotactic Solid-State Reaction. Chemistry of Materials, 2016, 28, 8899-8904.	3.2	7
129	Quantitative Analysis of Transition-Metal Migration Induced Electrochemically in Lithium-Rich Layered Oxide Cathode and Its Contribution to Properties at High and Low Temperatures. Journal of Physical Chemistry C, 2016, 120, 27109-27116.	1.5	15
130	Real-time observations of lithium battery reactionsâ€”operando neutron diffraction analysis during practical operation. Scientific Reports, 2016, 6, 28843.	1.6	101
131	Ionic Conduction in Lithium Ion Battery Composite Electrode Governs Cross-sectional Reaction Distribution. Scientific Reports, 2016, 6, 26382.	1.6	123
132	Non-destructive measurement of in-operando lithium concentration in batteries via x-ray Compton scattering. Journal of Applied Physics, 2016, 119, .	1.1	31
133	Identifying a descriptor for d-orbital delocalization in cathodes of Li batteries based on x-ray Compton scattering. Applied Physics Letters, 2016, 109, .	1.5	20
134	Degradation analysis of 18650-type lithium-ion cells by operando neutron diffraction. Journal of Power Sources, 2016, 325, 404-409.	4.0	31
135	Platinum-Based Electrocatalysts for the Oxygen-Reduction Reaction: Determining the Role of Pure Electronic Charge Transfer in Electrocatalysis. ACS Catalysis, 2016, 6, 4195-4198.	5.5	35
136	Dependence of Structural Defects in Li₂MnO₃ on Synthesis Temperature. Chemistry of Materials, 2016, 28, 4143-4150.	3.2	54
137	Lithium intercalation and structural changes at the LiCoO2 surface under high voltage battery operation. Journal of Power Sources, 2016, 307, 599-603.	4.0	37
138	Oxidation behaviour of lattice oxygen in Li-rich manganese-based layered oxide studied by hard X-ray photoelectron spectroscopy. Journal of Materials Chemistry A, 2016, 4, 5909-5916.	5.2	48
139	Communicationâ€”XAFS Analysis of Discharge/Charge Reactions on the Li/CuCl₂Battery Cathode with LiPF₆/Methyl Difluoroacetate Electrolyte. Journal of the Electrochemical Society, 2016, 163, A727-A729.	1.3	2
140	Irreversible phase transition between LiFePO4 and FePO4 during high-rate charge-discharge reaction by operando X-ray diffraction. Journal of Power Sources, 2016, 309, 122-126.	4.0	26
141	Structure analyses using X-ray photoelectron spectroscopy and X-ray absorption near edge structure for amorphous MS3 (M: Ti, Mo) electrodes in all-solid-state lithium batteries. Journal of Power Sources, 2016, 313, 104-111.	4.0	36
142	Elucidating the Driving Force of Relaxation of Reaction Distribution in LiCoO₂ and LiFePO₄ Electrodes Using X-ray Absorption Spectroscopy. Journal of Physical Chemistry C, 2016, 120, 4739-4743.	1.5	21
143	Phase transition kinetics of LiNi_{0.5}Mn_{1.5}O₄ analyzed by temperature-controlled operando X-ray absorption spectroscopy. Physical Chemistry Chemical Physics, 2016, 18, 1897-1904.	1.3	19
144	In-situ measurement of the lithium distribution in Li-ion batteries using micro-IBA techniques. Nuclear Instruments & Methods in Physics Research B, 2016, 371, 298-302.	0.6	17

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145	Factors determining the packing-limitation of active materials in the composite electrode of lithium-ion batteries. Journal of Power Sources, 2016, 301, 11-17.	4.0	65
146	Operando Soft X-Ray Absorption Study on Electronic Structure of Lithium-Rich Cathode Materials; Li2MnO3 and Li2RuO3. ECS Meeting Abstracts, 2016, , .	0.0	0
147	Operando Evaluation of Reaction Distribution in a Composite Electrode of Li-Ion Batteries By Using Two Dimensional X-Ray Absorption Spectroscopy. ECS Meeting Abstracts, 2016, , .	0.0	0
148	High-capacity Lithium-ion Storage System Using Unilamellar Crystallites of Exfoliated MoO2 Nanosheets. Chemistry Letters, 2015, 44, 1595-1597.	0.7	5
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