Daisuke Asakura

List of Publications by Year
in descending order

68 papers	2,309 citations	236925 25 h-index	214800 47 g-index
69 all docs	69 docs citations	69 times ranked	3119 citing authors

#	Article	IF	Citations
1	Microstructure-resolved degradation simulation of lithium-ion batteries in space applications. Journal of Power Sources Advances, 2022, 14, 100083.	5.1	4
2	Oxygen Redox Versus Oxygen Evolution in Aqueous Electrolytes: Critical Influence of Transition Metals. Advanced Science, 2022, 9, e2104907.	11.2	5
3	Conversion Reaction of Anode Material for Li-ion Battery Revealed by <i>Operando</i> Soft X-ray Emission Spectroscopy. Denki Kagaku, 2022, 90, 4-9.	0.0	0
4	Lithium-Rich O2-Type Li_{0.66}[Li_{0.22}Ru_{0.78}]O₂ Positive Electrode Material. Journal of the Electrochemical Society, 2022, 169, 040536.	2.9	2
5	Kinetic square scheme in oxygen-redox battery electrodes. Energy and Environmental Science, 2022, 15, 2591-2600.	30.8	21
6	Operando resonant soft X-ray emission spectroscopy of the LiMn₂O₄ cathode using an aqueous electrolyte solution. Physical Chemistry Chemical Physics, 2022, 24, 19177-19183.	2.8	2
7	4.7 V Operation of the Cr⁴⁺/Cr³⁺ Redox Couple in Na₃Cr₂(PO₄)₂F₃. Chemistry of Materials, 2021, 33, 1373-1379.	6.7	9
8	Capacity fade characteristics of nickel-based lithium-ion secondary battery after calendar deterioration at 80ÂÂ°C. Journal of Power Sources, 2021, 501, 230005.	7.8	21
9	Constant-rate heating-induced thermal runaway in 18650-type Li-ion cells charged/discharged at 1ÂÂ°C: Effect of undischargeable Li at anode. Journal of Power Sources, 2021, 505, 230082.	7.8	7
10	Nonpolarizing oxygen-redox capacity without O-O dimerization in Na2Mn3O7. Nature Communications, 2021, 12, 631.	12.8	62
11	Tetragonal Distortion of a BaTiO₃/Bi_{0.5}Na_{0.5}TiO₃ Nanocomposite Responsible for Anomalous Piezoelectric and Ferroelectric Behaviors. ACS Omega, 2020, 5, 22800-22807.	3.5	12
12	Multiorbital bond formation for stable oxygen-redox reaction in battery electrodes. Energy and Environmental Science, 2020, 13, 1492-1500.	30.8	60
13	Effect of the Charge Process on the Performance of Li-ion Cells during Charge-Discharge Cycling at 0Â°C. Electrochemistry, 2020, 88, 230-235.	1.4	6
14	Effect of the Charge Process and Discharge Rate on the Lithium Stripping Process Visibility in LiFePO₄-Graphite Li-ion Cells during Charge-Discharge Cycling at 0Â°C. Electrochemistry, 2020, 88, 340-342.	1.4	3
15	Durability Analysis of the REIMEI Satellite Li-ion Batteries after more than 14 Years of Operation in Space. Electrochemistry, 2020, 88, 300-304.	1.4	4
16	Mn 2p resonant X-ray emission clarifies the redox reaction and charge-transfer effects in LiMn₂O₄. Physical Chemistry Chemical Physics, 2019, 21, 18363-18369.	2.8	11
17	Impact of Calendar Degradation on the Performance of LiFePO4 â€“ Graphite Li-Ion Cells during Charge-Discharge Cycling at â^'5Â°C. Journal of the Electrochemical Society, 2019, 166, A3525-A3530.	2.9	8
18	Microscopic photoelectron analysis of single crystalline LiCoO2 particles during the charge-discharge in an all solid-state lithium ion battery. Scientific Reports, 2019, 9, 12452.	3.3	14

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19	Stabilization of a 4.5 V Cr⁴⁺/Cr³⁺ redox reaction in NASICON-type Na₃Cr₂(PO₄)₃ by Ti substitution. Chemical Communications, 2019, 55, 13717-13720.	4.1	22
20	Redox-Driven Spin Transition in a Layered Battery Cathode Material. Chemistry of Materials, 2019, 31, 2358-2365.	6.7	19
21	Operando measurement of single crystalline Li4Ti5O12 with octahedral-like morphology by microscopic X-ray photoelectron spectroscopy. Journal of Electron Spectroscopy and Related Phenomena, 2019, 233, 64-68.	1.7	9
22	Operando soft X-ray emission spectroscopy of the Fe₂O₃ anode to observe the conversion reaction. Physical Chemistry Chemical Physics, 2019, 21, 26351-26357.	2.8	9
23	Highly Reversible Oxygenâ€Redox Chemistry at 4.1 V in Na_{4/7â˜}_x[â–¡_{1/7}Mn_{6/7}]O₂ (â–¡: Mn) Tj ETQq1 1 0.784314	7.8	34
24	Large Chargeâ€Transfer Energy in LiFePO₄ Revealed by Fullâ€Multiplet Calculation for the Fe L₃â€edge Soft Xâ€ray Emission Spectra. ChemPhysChem, 2018, 19, 988-992.	2.1	13
25	Synthesis of core-sheath structured fibers of SnO₂/carbon composites by electrospinning. Journal of the Ceramic Society of Japan, 2018, 126, 662-666.	1.1	2
26	Tensile-Strain-Dependent Spin States in Epitaxial<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>LaCoO</mml:mi></mml:mrow><mml:mrow><mml:mn>3</mml:mn></mml:mrow> Films. Physical Review Letters, 2018, 120, 206402.	7.8	35
27	Kinetic analysis of graphitized-carbon reactions in Li-ion cells before and after cycling degradation. Solid State Ionics, 2018, 321, 98-105.	2.7	1
28	Charge Storage Mechanism of RuO₂/Water Interfaces. Journal of Physical Chemistry C, 2017, 121, 18975-18981.	3.1	15
29	Investigation of the relationship between the cycle performance and the electronic structure in LiAlxMn2â˜xO4 (x = 0 and 0.2) using soft X-ray spectroscopy. Physical Chemistry Chemical Physics, 2017, 19, 16507-16511.	2.8	10
30	Material/element-dependent fluorescence-yield modes on soft X-ray absorption spectroscopy of cathode materials for Li-ion batteries. AIP Advances, 2016, 6, .	1.3	48
31	Electrochemical Li-Ion Intercalation in Octacyanotungstate-Bridged Coordination Polymer with Evidence of Three Magnetic Regimes. Inorganic Chemistry, 2016, 55, 7637-7646.	4.0	19
32	Correlation between the Oâ€‰2p Orbital and Redox Reaction in LiMn_{0.6}Fe_{0.4}PO₄ Nanowires Studied by Soft Xâ€ray Absorption. ChemPhysChem, 2016, 17, 4110-4115.	2.1	7
33	Operando Soft X-ray Emission Studies of Lithium-Ion Batteries. Hyomen Kagaku, 2016, 37, 66-71.	0.0	0
34	Redox Potential Paradox in Na_xMO₂ for Sodium-Ion Battery Cathodes. Chemistry of Materials, 2016, 28, 1058-1065.	6.7	93
35	2ï¼Žè»ŸXç·šå^†å…‰ã«ã‚ˆã‚‹Operandoé›»æ± ç¾¤æ…‹è§£æž. Electrochemistry, 2016, 84, 529-533.	1.4	2
36	Operando soft x-ray emission spectroscopy of LiMn2O4 thin film involving Liâ€“ion extraction/insertion reaction. Electrochemistry Communications, 2015, 50, 93-96.	4.7	29

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37	Stepwise Reduction of Electrochemically Lithiated Coreâ€“Shell Heterostructures Based on the Prussian Blue Analogue Coordination Polymers K_{0.1}Cu[Fe(CN)₆]_{0.7}Â·3.5H₂O and K_{0.1}Ni[Fe(CN)₆]_{0.7}Â·4.4H₂O. Chemistry of Materials, 2015, 27, 1524-1530.	6.7	26
38	Charge/discharge mechanism of a new Co-doped Li 2 O cathode material for a rechargeable sealed lithium-peroxide battery analyzed by X-ray absorption spectroscopy. Journal of Power Sources, 2015, 287, 220-225.	7.8	31
39	Gigantic transverse x-ray magnetic circular dichroism in ultrathin Co in Au/Co/Au(001). Journal of Physics: Conference Series, 2014, 502, 012002.	0.4	4
40	Distinguishing between High- and Low-Spin States for Divalent Mn in Mn-Based Prussian Blue Analogue by High-Resolution Soft X-ray Emission Spectroscopy. Journal of Physical Chemistry Letters, 2014, 5, 4008-4013.	4.6	22
41	Anisotropic charge-transfer effects in the asymmetric Fe(CN)₅NO octahedron of sodium nitroprusside: a soft X-ray absorption spectroscopy study. Physical Chemistry Chemical Physics, 2014, 16, 7031-7036.	2.8	21
42	Li-ion and Na-ion insertion into size-controlled nickel hexacyanoferrate nanoparticles. RSC Advances, 2014, 4, 24955.	3.6	36
43	Microscopic origin of ferrimagnetism of a double perovskite Sr₂FeMoO₆:An x-ray magnetic circular dichroism study. Journal of Physics: Conference Series, 2014, 502, 012003.	0.4	5
44	Bimetallic Cyanide-Bridged Coordination Polymers as Lithium Ion Cathode Materials: Core@Shell Nanoparticles with Enhanced Cyclability. Journal of the American Chemical Society, 2013, 135, 2793-2799.	13.7	205
45	Reversible Solid State Redox of an Octacyanometallate-Bridged Coordination Polymer by Electrochemical Ion Insertion/Extraction. Inorganic Chemistry, 2013, 52, 3772-3779.	4.0	32
46	Synthesis of LiNi0.5Mn1.5O4 and 0.5Li2MnO3â€“0.5LiNi1/3Co1/3Mn1/3O2 hollow nanowires by electrospinning. CrystEngComm, 2013, 15, 2592.	2.6	39
47	Effects of Ge substitutionally on the spin polarization at the Co<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math>Mn<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mi>Î²</mml:mi></mml:msub></mml:math>Ge<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /></mml:	3.2	19
48	Electrochemical kinetics of the 0.5Li2MnO3Â·0.5LiMn0.42Ni0.42Co0.16O2 â€˜compositeâ€™ layered cathode material for lithium-ion batteries. RSC Advances, 2012, 2, 8797.	3.6	141
49	Fabrication of a Cyanide-Bridged Coordination Polymer Electrode for Enhanced Electrochemical Ion Storage Ability. Journal of Physical Chemistry C, 2012, 116, 8364-8369.	3.1	120
50	Configuration-Interaction Full-Multiplet Calculation to Analyze the Electronic Structure of a Cyano-Bridged Coordination Polymer Electrode. Journal of Physical Chemistry C, 2012, 116, 24896-24901.	3.1	26
51	Precise Electrochemical Control of Ferromagnetism in a Cyanide-Bridged Bimetallic Coordination Polymer. Inorganic Chemistry, 2012, 51, 10311-10316.	4.0	48
52	High-energy â€˜compositeâ€™ layered manganese-rich cathode materials via controlling Li2MnO3 phase activation for lithium-ion batteries. Physical Chemistry Chemical Physics, 2012, 14, 6584.	2.8	260
53	Impedance spectroscopic study on interfacial ion transfers in cyanide-bridged coordination polymer electrode with organic electrolyte. Electrochimica Acta, 2012, 63, 139-145.	5.2	64
54	Ionâ€Induced Transformation of Magnetism in a Bimetallic CuFe Prussian Blue Analogue. Angewandte Chemie - International Edition, 2011, 50, 6269-6273.	13.8	84

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55	MCD study on Ce@C82 and Ce2@C80 in the soft-X-ray region. Journal of Electron Spectroscopy and Related Phenomena, 2011, 184, 284-286.	1.7	3
56	Electron delocalization in cyanide-bridged coordination polymer electrodes for Li-ion batteries studied by soft x-ray absorption spectroscopy. Physical Review B, 2011, 84, .	3.2	38
57	Interface structure of half-metallic Heusler alloy<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>Co</mml:mtext></mml:mrow><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math> films facing an MgO tunnel barrier determined by x-ray magnetic circular dichroism. Physical Review B, 2010, 81, .	3.2	34
58	Magnetic states of Mn and Co atoms at<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>Co</mml:mtext></mml:mrow><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math> seen via soft x-ray magnetic circular dichroism. Physical Review B, 2010, 82, .	3.2	28
59	Switching Redox-Active Sites by Valence Tautomerism in Prussian Blue Analogues A_xMn_y[Fe(CN)₆]Â·nH₂O (A: K, Rb): Robust Frameworks for Reversible Li Storage. Journal of Physical Chemistry Letters, 2010, 1, 2063-2071.	4.6	179
60	Electronic and magnetic properties of Heusler alloy Co2MnSi epitaxial ultrathin films facing a MgO barrier studied by x-ray magnetic circular dichroism. Journal of Applied Physics, 2008, 103, 07D712.	2.5	12
61	X-ray absorption spectroscopy and x-ray magnetic circular dichroism of epitaxially grown Heusler alloy Co2MnSi ultrathin films facing a MgO barrier. Applied Physics Letters, 2007, 91, .	3.3	25
62	Photoemission Study of Temperature-Induced and Photoinduced Spin-State Transitions in Spin-Crossover Complex [Fe(ptz)₆](BF₄)₂. Journal of the Physical Society of Japan, 2007, 76, 084703.	1.6	9
63	AsakuraetÂal.Reply:. Physical Review Letters, 2006, 97, .	7.8	0
64	Photoemission study of YBa2Cu3Oy thin films under light illumination. Journal of Electron Spectroscopy and Related Phenomena, 2005, 144-147, 499-502.	1.7	0
65	Development of high-energy resolution inverse photoemission technique. Journal of Electron Spectroscopy and Related Phenomena, 2005, 144-147, 1019-1022.	1.7	0
66	Photoemission measurements of transition-metal oxides under laser illumination. Journal of Electron Spectroscopy and Related Phenomena, 2005, 144-147, 909-912.	1.7	0
67	Photoemission Study ofYBa2Cu3OyThin Films under Light Illumination. Physical Review Letters, 2004, 93, 247006.	7.8	19
68	Doping dependence of Fermi surface in high-Tccuprates studied by model Hartree-Fock calculations. Physical Review B, 2003, 68, .	3.2	1