Masashi Okubo, å¤§ä¹ä¿å°å³

List of Publications by Year
in descending order

114	7,590	40	86
papers	citations	h-index	g-index
120	120	120	8472
all docs	docs citations	times ranked	citing authors

76326

51608

#	Article	IF	Citations
1	Square-Scheme Electrochemistry in Battery Electrodes. Accounts of Materials Research, 2022, 3, 33-41.	11.7	6
2	Oxygen Redox Versus Oxygen Evolution in Aqueous Electrolytes: Critical Influence of Transition Metals. Advanced Science, 2022, 9, e2104907.	11.2	5
3	Relationship between Electric Double-Layer Structure of MXene Electrode and Its Surface Functional Groups. Chemistry of Materials, 2022, 34, 2069-2075.	6.7	28
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	<i>Operando</i> 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	Optimal water concentration for aqueous Li+ intercalation in vanadyl phosphate. Chemical Science, 2021, 12, 4450-4454.	7.4	5
8	Designing positive electrodes with high energy density for lithium-ion batteries. Journal of Materials Chemistry A, 2021, 9, 7407-7421.	10.3	34
9	Waste Heat Harvesting: Descriptor of Thermogalvanic Cell. JPSJ News and Comments, 2021, 18, 07.	0.1	0
10	Visualization of Structural Heterogeneities in Particles of Lithium Nickel Manganese Oxide Cathode Materials by Ptychographic X-ray Absorption Fine Structure. Journal of Physical Chemistry Letters, 2021, 12, 5781-5788.	4.6	14
11	Nonpolarizing oxygen-redox capacity without O-O dimerization in Na2Mn3O7. Nature Communications, 2021, 12, 631.	12.8	62
12	Soft X-ray Emission Studies on Hydrate-Melt Electrolytes. Journal of Physical Chemistry B, 2021, 125, 11534-11539.	2.6	3
13	Pseudocapacitors: Capacitive versus Pseudocapacitive Storage in MXene (Adv. Funct. Mater. 47/2020). Advanced Functional Materials, 2020, 30, 2070312.	14.9	2
14	Capacitive versus Pseudocapacitive Storage in MXene. Advanced Functional Materials, 2020, 30, 2000820.	14.9	74
15	Does Spinel Serve as a Rigid Framework for Oxygen Redox?. Chemistry of Materials, 2020, 32, 7181-7187.	6.7	5
16	Multiorbital bond formation for stable oxygen-redox reaction in battery electrodes. Energy and Environmental Science, 2020, 13, 1492-1500.	30.8	60
17	Possible high-potential ilmenite type <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi mathvariant="normal">N</mml:mi><mml:msub><mml:mi mathvariant="normal">a</mml:mi><mml:mn>1</mml:mn></mml:msub><mml:mi>M</mml:mi><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn>3</mml:mn></mml:msub><mml:mo>Â</mml:mo><mml:mo>(</mml:mo><mml:mi>M</	2.4	2
18	Does Spinel Serve As a Rigid Framework for Oxygen Redox?. ECS Meeting Abstracts, 2020, MA2020-02, 322-322.	0.0	0

#	Article	IF	Citations
19	(Invited) Probing Redox Centers in Oxygen-Redox Electrodes Using Soft X-Ray Spectroscopy. ECS Meeting Abstracts, 2020, MA2020-02, 165-165.	0.0	0
20	(Invited) Coulombic Self-Ordering upon Charging a Large-Capacity Layered Cathode Material. ECS Meeting Abstracts, 2020, MA2020-02, 20-20.	0.0	0
21	(Invited) Capacitive and Pseudocapacitive Intercalation of Aqueous Ions in Layered Materials (MXenes). ECS Meeting Abstracts, 2020, MA2020-02, 600-600.	0.0	0
22	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
23	Oxygen Redox Promoted by Na Excess and Covalency in Hexagonal and Monoclinic Na_{2âˆ’x}RuO₃ Polymorphs. Journal of the Electrochemical Society, 2019, 166, A5343-A5348.	2.9	8
24	Combined Theoretical and Experimental Studies of Sodium Battery Materials. Chemical Record, 2019, 19, 792-798.	5.8	13
25	Topochemical synthesis of phase-pure Mo₂AlB₂ through staging mechanism. Chemical Communications, 2019, 55, 9295-9298.	4.1	34
26	Synthesis, crystal structure and possible proton conduction of Fe(H2PO4)2F. Solid State Ionics, 2019, 338, 134-137.	2.7	1
27	Dense Charge Accumulation in MXene with a Hydrate-Melt Electrolyte. Chemistry of Materials, 2019, 31, 5190-5196.	6.7	39
28	Coulombic self-ordering upon charging a large-capacity layered cathode material for rechargeable batteries. Nature Communications, 2019, 10, 2185.	12.8	62
29	Solid-state electrochemistry of metal cyanides. Comptes Rendus Chimie, 2019, 22, 483-489.	0.5	5
30	Redox-Driven Spin Transition in a Layered Battery Cathode Material. Chemistry of Materials, 2019, 31, 2358-2365.	6.7	19
31	Negative dielectric constant of water confined in nanosheets. Nature Communications, 2019, 10, 850.	12.8	116
32	Interfacial Dissociation of Contact-Ion-Pair on MXene Electrodes in Concentrated Aqueous Electrolytes. Journal of the Electrochemical Society, 2019, 166, A3739-A3744.	2.9	20
33	HPO₃^{2âˆ’} as a building unit for sodium-ion battery cathodes: 3.1 V operation of Na_{2âˆ’x}Fe(HPO₃)₂ (0 < <i>x</i> < 1). Chemical Communications, 2019, 55, 14155-14157.	4.1	2
34	<i>Operando</i> 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
35	Computational Study on Possible High Potential Ilmenite Type Na1TMO3 (TM=3d, 4d Transition Metals) Cathodes Based on Oxygen Redox Reaction. ECS Meeting Abstracts, 2019, , .	0.0	0
36	MXenes for Batteries. , 2019, , 367-379.		0

#	ARTICLE	IF	CITATIONS
37	MXene as a Charge Storage Host. Accounts of Chemical Research, 2018, 51, 591-599.	15.6	309
38	Highly Reversible Oxygenâ€Redox Chemistry at 4.1 V in Na_{4/7â^'}<i>_x</i>[â–¡_{1/7}Mn_{6/7}]O₂ (â–¡: Mn) Tj ETQq0 0 0 rgBT /Overl	19.5	178
39	A [Fe^{III}(Tp)(CN)₃]^{â^'} scorpionate-based complex as a building block for designing ion storage hosts (Tp: hydrotrispyrazolylborate). Chemical Communications, 2018, 54, 5189-5192.	4.1	14
40	Oxygen redox in hexagonal layered Na_xTMO₃ (TM = 4d elements) for high capacity Na ion batteries. Journal of Materials Chemistry A, 2018, 6, 3747-3753.	10.3	24
41	Cobalt-Free O2-Type Lithium-Rich Layered Oxides. Journal of the Electrochemical Society, 2018, 165, A3630-A3633.	2.9	32
42	Effects of nanostructuring on the bond strength and disorder in V₂O₅ cathode material for rechargeable ion-batteries. Physical Chemistry Chemical Physics, 2018, 20, 15288-15292.	2.8	9
43	Enhanced Liâ€Ion Accessibility in MXene Titanium Carbide by Steric Chloride Termination. Advanced Energy Materials, 2017, 7, 1601873.	19.5	212
44	Pseudocapacitors: Enhanced Li-Ion Accessibility in MXene Titanium Carbide by Steric Chloride Termination (Adv. Energy Mater. 9/2017). Advanced Energy Materials, 2017, 7, .	19.5	0
45	Charge Storage Mechanism of RuO₂/Water Interfaces. Journal of Physical Chemistry C, 2017, 121, 18975-18981.	3.1	15
46	Molecular Orbital Principles of Oxygen-Redox Battery Electrodes. ACS Applied Materials & Interfaces, 2017, 9, 36463-36472.	8.0	146
47	In VivoRedox-Responsive Solâ€"Gel/Gelâ€"Sol Transition of Star Block Copolymer Solution Based on Ionic Cross-Linking. Macromolecules, 2017, 50, 5539-5548.	4.8	15
48	Solid State Electrochemistry and Battery Application of Coordination Compounds. Bulletin of Japan Society of Coordination Chemistry, 2017, 69, 45-49.	0.2	0
49	Potentiometric Study to Reveal Reaction Entropy Behavior of Biphasic Na₁₊₂<i>_x</i>V₂(PO₄)₃ Electrodes. Electrochemistry, 2016, 84, 234-237.	1.4	7
50	Electrochemical Li-Ion Intercalation in Octacyanotungstate-Bridged Coordination Polymer with Evidence of Three Magnetic Regimes. Inorganic Chemistry, 2016, 55, 7637-7646.	4.0	19
51	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
52	Intermediate honeycomb ordering to trigger oxygen redox chemistry in layered battery electrode. Nature Communications, 2016, 7, 11397.	12.8	232
53	Sodium-Ion Intercalation Mechanism in MXene Nanosheets. ACS Nano, 2016, 10, 3334-3341.	14.6	448
54	Temperature Dependent Local Structure of Na_{<i>x</i>}CoO₂ Cathode Material for Rechargeable Sodium-Ion Batteries. Journal of Physical Chemistry C, 2016, 120, 4227-4232.	3.1	26

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55	Redox Potential Paradox in Na_{<i>x</i>}MO₂ for Sodium-Ion Battery Cathodes. Chemistry of Materials, 2016, 28, 1058-1065.	6.7	93
56	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
57	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
58	Offâ€Stoichiometry in Alluauditeâ€Type Sodium Iron Sulfate Na_{2+2<i>x</i>}Fe_{2âˆ’<i>x</i>}(SO₄)₃ as an Advanced Sodium Battery Cathode Material. ChemElectroChem, 2015, 2, 1019-1023.	3.4	102
59	Pseudocapacitance of MXene nanosheets for high-power sodium-ion hybrid capacitors. Nature Communications, 2015, 6, 6544.	12.8	873
60	An alluaudite Na2+2Fe2âˆ’(SO4)3(x= 0.2) derivative phase as insertion host for lithium battery. Electrochemistry Communications, 2015, 51, 19-22.	4.7	52
61	Ironâ€“Oxalato Framework with Oneâ€Dimensional Open Channels for Electrochemical Sodiumâ€Ion Intercalation. Chemistry - A European Journal, 2015, 21, 1096-1101.	3.3	22
62	Particleâ€Size Effects on the Entropy Behavior of a Li_{<i>x</i>}FePO₄ Electrode. ChemPhysChem, 2014, 15, 2156-2161.	2.1	25
63	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
64	High rate sodium ion insertion into coreâ€“shell nanoparticles of Prussian blue analogues. Chemical Communications, 2014, 50, 1353-1355.	4.1	94
65	A tricky water molecule coordinated to a verdazyl radicalâ€“iron(ii) complex: a multitechnique approach. Physical Chemistry Chemical Physics, 2014, 16, 9086.	2.8	7
66	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
67	Role of Ligand-to-Metal Charge Transfer in O3-Type NaFeO₂â€“NaNiO₂ Solid Solution for Enhanced Electrochemical Properties. Journal of Physical Chemistry C, 2014, 118, 2970-2976.	3.1	137
68	Assembly of Na₃V₂(PO₄)₃ Nanoparticles Confined in a Oneâ€Dimensional Carbon Sheath for Enhanced Sodiumâ€Ion Cathode Properties. Chemistry - A European Journal, 2014, 20, 12636-12640.	3.3	72
69	Electrochemical properties of LiMnxFe1âˆ’xPO4 (xÂ=Â0, 0.2, 0.4, 0.6, 0.8 and 1.0)/vapor grown carbon fiber coreâ€“sheath composite nanowire synthesized by electrospinning method. Journal of Power Sources, 2014, 248, 615-620.	7.8	27
70	Single Crystallization of Olivine Lithium Phosphate Nanowires using Oriented Attachments. Journal of Physical Chemistry C, 2014, 118, 7678-7682.	3.1	9
71	Phase Separation of a Hexacyanoferrate-Bridged Coordination Framework under Electrochemical Na-ion Insertion. Inorganic Chemistry, 2014, 53, 3141-3147.	4.0	25
72	Li-ion and Na-ion insertion into size-controlled nickel hexacyanoferrate nanoparticles. RSC Advances, 2014, 4, 24955.	3.6	36

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73	Electrochemical Properties of Heterosite FePO4 in Aqueous Mg2+ Electrolytes. Electrochemistry, 2014, 82, 855-858.	1.4	10
74	Electrode Properties of P2â€“Na_{2/3}Mn_{<i>y</i>}Co_{1â€“<i>y</i>}O₂ as Cathode Materials for Sodium-Ion Batteries. Journal of Physical Chemistry C, 2013, 117, 15545-15551.	3.1	174
75	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
76	Distinct local structure of nanoparticles and nanowires of V2O5 probed by x-ray absorption spectroscopy. Applied Physics Letters, 2013, 103, .	3.3	9
77	Temperature dependent local structure of LiCoO2 nanoparticles determined by Co K-edge X-ray absorption fine structure. Journal of Power Sources, 2013, 229, 272-276.	7.8	26
78	VGCF-core@LiMn0.4Fe0.6PO4-sheath heterostructure nanowire for high rate Li-ion batteries. CrystEngComm, 2013, 15, 6638.	2.6	10
79	Electrochemical Mg2+ intercalation into a bimetallic CuFe Prussian blue analog in aqueous electrolytes. Journal of Materials Chemistry A, 2013, 1, 13055.	10.3	151
80	Layered Na2RuO3 as a cathode material for Na-ion batteries. Electrochemistry Communications, 2013, 33, 23-26.	4.7	92
81	Reversible Solid State Redox of an Octacyanometallate-Bridged Coordination Polymer by Electrochemical Ion Insertion/Extraction. Inorganic Chemistry, 2013, 52, 3772-3779.	4.0	32
82	Synthesis of LiNi0.5Mn1.5O4 and 0.5Li2MnO3â€“0.5LiNi1/3Co1/3Mn1/3O2 hollow nanowires by electrospinning. CrystEngComm, 2013, 15, 2592.	2.6	39
83	Suppressed Activation Energy for Interfacial Charge Transfer of a Prussian Blue Analog Thin Film Electrode with Hydrated Ions (Li⁺, Na⁺, and Mg²⁺). Journal of Physical Chemistry C, 2013, 117, 10877-10882.	3.1	150
84	Ternary metal Prussian blue analogue nanoparticles as cathode materials for Li-ion batteries. Dalton Transactions, 2013, 42, 15881.	3.3	59
85	Electrospinning Synthesis of Wire-Structured LiCoO₂ for Electrode Materials of High-Power Li-Ion Batteries. Journal of Physical Chemistry C, 2012, 116, 10774-10780.	3.1	51
86	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
87	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
88	High power Na-ion rechargeable battery with single-crystalline Na0.44MnO2 nanowire electrode. Journal of Power Sources, 2012, 217, 43-46.	7.8	158
89	Sodium iron pyrophosphate: A novel 3.0 V iron-based cathode for sodium-ion batteries. Electrochemistry Communications, 2012, 24, 116-119.	4.7	313
90	Precise Electrochemical Control of Ferromagnetism in a Cyanide-Bridged Bimetallic Coordination Polymer. Inorganic Chemistry, 2012, 51, 10311-10316.	4.0	48

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91	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
92	Ionâ€Induced Transformation of Magnetism in a Bimetallic CuFe Prussian Blue Analogue. Angewandte Chemie - International Edition, 2011, 50, 6269-6273.	13.8	84
93	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
94	Development of Positive Electrode Materials for the High Rate Lithium Ion Battery by Nanostructure Control. Key Engineering Materials, 2010, 445, 109-112.	0.4	0
95	Fast Li-Ion Insertion into Nanosized LiMn₂O₄ without Domain Boundaries. ACS Nano, 2010, 4, 741-752.	14.6	194
96	Switching Redox-Active Sites by Valence Tautomerism in Prussian Blue Analogues A_{<i>x</i>}Mn_{<i>y</i>}[Fe(CN)₆]Â·<i>n</i>H₂O (A: K, Rb): Robust Frameworks for Reversible Li Storage. Journal of Physical Chemistry Letters, 2010, 1, 2063-2071.	4.6	179
97	Synthesis of Triaxial LiFePO₄ Nanowire with a VGCF Core Column and a Carbon Shell through the Electrospinning Method. ACS Applied Materials & Interfaces, 2010, 2, 212-218.	8.0	121
98	Size effect on electrochemical property of nanocrystalline LiCoO2 synthesized from rapid thermal annealing method. Solid State Ionics, 2009, 180, 612-615.	2.7	51
99	Determination of Activation Energy for Li Ion Diffusion in Electrodes. Journal of Physical Chemistry B, 2009, 113, 2840-2847.	2.6	84
100	Control of Charge Transfer Phase Transition and Ferromagnetism by Photoisomerization of Spiropyran for an Organicâˆ'Inorganic Hybrid System, (SP)[Fe^{II}Fe^{III}(dto)₃] (SP = spiropyran, dto =) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 377 Td (C<su 212-220.	13.7	70
101	Anisotropic Surface Effect on Electronic Structures and Electrochemical Properties of LiCoO₂. Journal of Physical Chemistry C, 2009, 113, 15337-15342.	3.1	45
102	Phonon confinement effect on nanocrystalline LiCoO2 studied with Raman spectroscopy. Journal of Physics and Chemistry of Solids, 2008, 69, 2911-2915.	4.0	12
103	ãƒŠãƒŽçµæ™¶LiCoO2ã®å•æˆã¨é›»æ¥µç‰¹æ€§. Electrochemistry, 2008, 76, 349-353.	1.4	0
104	Nanosize Effect on High-Rate Li-Ion Intercalation in LiCoO2Electrode. Journal of the American Chemical Society, 2007, 129, 7444-7452.	13.7	690
105	Control of magnetism by isomerization of intercalated molecules in organicâ€"inorganic hybrid systems. Coordination Chemistry Reviews, 2007, 251, 2665-2673.	18.8	31
106	Vacancy-driven magnetocaloric effect in Prussian blue analogues. Journal of Magnetism and Magnetic Materials, 2007, 316, e569-e571.	2.3	27
107	Enhancement of the Curie Temperature by Isomerization of Diarylethene (DAE) for an Organicâˆ'Inorganic Hybrid System:â€‰ Co4(OH)7(DAE)0.5Â·3H2O. Inorganic Chemistry, 2006, 45, 10240-10247.	4.0	35
108	Magnetocaloric effect in hexacyanochromate Prussian blue analogs. Physical Review B, 2006, 73, .	3.2	53

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109	Hybrid Organicâ€"Inorganic Conductor Coupled with BEDT-TTF and Photochromic Nitrosyl Ruthenium Complex. Bulletin of the Chemical Society of Japan, 2005, 78, 1054-1060.	3.2	3
110	Reversible photomagnetism in a cobalt layered compound coupled with photochromic diarylethene. Solid State Communications, 2005, 134, 777-782.	1.9	26
111	Study on photomagnetism of 2-D magnetic compounds coupled with photochromic diarylethene cations. Synthetic Metals, 2005, 152, 461-464.	3.9	19
112	Ferromagnetism and its photo-induced effect in 2D iron mixed-valence complex coupled with photochromic spiropyran. Synthetic Metals, 2005, 153, 473-476.	3.9	18
113	Crystal structure and ferromagnetism of (n-C3H7)4N[CoIIFeIII(dto)3] (dto=C2O2S2). Solid State Communications, 2003, 126, 291-296.	1.9	19
114	Origin of charge transfer phase transition and ferromagnetism in (CnH2n+1)4N[FeIIFeIII (dto)3] (dto=C2O2S2). Synthetic Metals, 2003, 137, 1231-1232.	3.9	9