

Masashi Okubo, å¸ä¹ä¸¸å¸¸

List of Publications by Year in descending order

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114
papers

7,590
citations

76294

40
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51562

86
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120
all docs

120
docs citations

120
times ranked

8472
citing authors

#	ARTICLE	IF	CITATIONS
1	Square-Scheme Electrochemistry in Battery Electrodes. <i>Accounts of Materials Research</i> , 2022, 3, 33-41.	5.9	6
2	Oxygen Redox Versus Oxygen Evolution in Aqueous Electrolytes: Critical Influence of Transition Metals. <i>Advanced Science</i> , 2022, 9, e2104907.	5.6	5
3	Relationship between Electric Double-Layer Structure of MXene Electrode and Its Surface Functional Groups. <i>Chemistry of Materials</i> , 2022, 34, 2069-2075.	3.2	28
4	Lithium-Rich O ₂ -Type Li _{0.66} [Li _{0.22} Ru _{0.78}]O ₂ Positive Electrode Material. <i>Journal of the Electrochemical Society</i> , 2022, 169, 040536.	1.3	2
5	Kinetic square scheme in oxygen-redox battery electrodes. <i>Energy and Environmental Science</i> , 2022, 15, 2591-2600.	15.6	21
6	<i>Operando</i> resonant soft X-ray emission spectroscopy of the LiMn ₂ O ₄ cathode using an aqueous electrolyte solution. <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 19177-19183.	1.3	2
7	Optimal water concentration for aqueous Li ⁺ intercalation in vanadyl phosphate. <i>Chemical Science</i> , 2021, 12, 4450-4454.	3.7	5
8	Designing positive electrodes with high energy density for lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2021, 9, 7407-7421.	5.2	34
9	Waste Heat Harvesting: Descriptor of Thermogalvanic Cell. <i>JPSJ News and Comments</i> , 2021, 18, 07.	0.2	0
10	Visualization of Structural Heterogeneities in Particles of Lithium Nickel Manganese Oxide Cathode Materials by Ptychographic X-ray Absorption Fine Structure. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 5781-5788.	2.1	14
11	Nonpolarizing oxygen-redox capacity without O-O dimerization in Na ₂ Mn ₃ O ₇ . <i>Nature Communications</i> , 2021, 12, 631.	5.8	62
12	Soft X-ray Emission Studies on Hydrate-Melt Electrolytes. <i>Journal of Physical Chemistry B</i> , 2021, 125, 11534-11539.	1.2	3
13	Pseudocapacitors: Capacitive versus Pseudocapacitive Storage in MXene (<i>Adv. Funct. Mater.</i> 47/2020). <i>Advanced Functional Materials</i> , 2020, 30, 2070312.	7.8	2
14	Capacitive versus Pseudocapacitive Storage in MXene. <i>Advanced Functional Materials</i> , 2020, 30, 2000820.	7.8	74
15	Does Spinel Serve as a Rigid Framework for Oxygen Redox?. <i>Chemistry of Materials</i> , 2020, 32, 7181-7187.	3.2	5
16	Multiorbital bond formation for stable oxygen-redox reaction in battery electrodes. <i>Energy and Environmental Science</i> , 2020, 13, 1492-1500.	15.6	60
17	Possible high-potential ilmenite type $N_{1-a}M_3O_{3+3\lambda}$	0.9	2
18	Does Spinel Serve As a Rigid Framework for Oxygen Redox?. <i>ECS Meeting Abstracts</i> , 2020, MA2020-02, 322-322.	0.0	0

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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 LiMn_2O_4 . Physical Chemistry Chemical Physics, 2019, 21, 18363-18369.	1.3	11
23	Oxygen Redox Promoted by Na Excess and Covalency in Hexagonal and Monoclinic Na_2RuO_3 Polymorphs. Journal of the Electrochemical Society, 2019, 166, A5343-A5348.	1.3	8
24	Combined Theoretical and Experimental Studies of Sodium Battery Materials. Chemical Record, 2019, 19, 792-798.	2.9	13
25	Topochemical synthesis of phase-pure Mo_2AlB_2 through staging mechanism. Chemical Communications, 2019, 55, 9295-9298.	2.2	34
26	Synthesis, crystal structure and possible proton conduction of $\text{Fe}(\text{H}_2\text{PO}_4)_2\text{F}$. Solid State Ionics, 2019, 338, 134-137.	1.3	1
27	Dense Charge Accumulation in MXene with a Hydrate-Melt Electrolyte. Chemistry of Materials, 2019, 31, 5190-5196.	3.2	39
28	Coulombic self-ordering upon charging a large-capacity layered cathode material for rechargeable batteries. Nature Communications, 2019, 10, 2185.	5.8	62
29	Solid-state electrochemistry of metal cyanides. Comptes Rendus Chimie, 2019, 22, 483-489.	0.2	5
30	Redox-Driven Spin Transition in a Layered Battery Cathode Material. Chemistry of Materials, 2019, 31, 2358-2365.	3.2	19
31	Negative dielectric constant of water confined in nanosheets. Nature Communications, 2019, 10, 850.	5.8	116
32	Interfacial Dissociation of Contact-Ion-Pair on MXene Electrodes in Concentrated Aqueous Electrolytes. Journal of the Electrochemical Society, 2019, 166, A3739-A3744.	1.3	20
33	$\text{HPO}_3^{\cdot-}$ as a building unit for sodium-ion battery cathodes: 3.1 V operation of $\text{Na}_2\text{Fe}(\text{HPO}_3)_2$ (0 $\leq x \leq 1$). Chemical Communications, 2019, 55, 14155-14157.	2.2	2
34	<i>Operando</i> soft X-ray emission spectroscopy of the Fe_2O_3 anode to observe the conversion reaction. Physical Chemistry Chemical Physics, 2019, 21, 26351-26357.	1.3	9
35	Computational Study on Possible High Potential Ilmenite Type NaTMO_3 (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

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37	MXene as a Charge Storage Host. <i>Accounts of Chemical Research</i> , 2018, 51, 591-599.	7.6	309
38	Highly Reversible Oxygen Redox Chemistry at 4.1 V in Na _{4/7} Mn _{6/7} O ₂ (Mn) Tj	10.0	0
39	A [Fe ^{III} (Tp)(CN) ₃] ⁺ scorpionate-based complex as a building block for designing ion storage hosts (Tp: hydrotrispyrazolylborate). <i>Chemical Communications</i> , 2018, 54, 5189-5192.	2.2	14
40	Oxygen redox in hexagonal layered Na _x TMO ₃ (TM = 4d elements) for high capacity Na ion batteries. <i>Journal of Materials Chemistry A</i> , 2018, 6, 3747-3753.	5.2	24
41	Cobalt-Free O ₂ -Type Lithium-Rich Layered Oxides. <i>Journal of the Electrochemical Society</i> , 2018, 165, A3630-A3633.	1.3	32
42	Effects of nanostructuring on the bond strength and disorder in V ₂ O ₅ cathode material for rechargeable ion-batteries. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 15288-15292.	1.3	9
43	Enhanced Li-Ion Accessibility in MXene Titanium Carbide by Steric Chloride Termination. <i>Advanced Energy Materials</i> , 2017, 7, 1601873.	10.2	212
44	Pseudocapacitors: Enhanced Li-Ion Accessibility in MXene Titanium Carbide by Steric Chloride Termination (<i>Adv. Energy Mater.</i> 9/2017). <i>Advanced Energy Materials</i> , 2017, 7, .	10.2	0
45	Charge Storage Mechanism of RuO ₂ /Water Interfaces. <i>Journal of Physical Chemistry C</i> , 2017, 121, 18975-18981.	1.5	15
46	Molecular Orbital Principles of Oxygen-Redox Battery Electrodes. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 36463-36472.	4.0	146
47	In Vivo Redox-Responsive Sol-Gel/Sol Transition of Star Block Copolymer Solution Based on Ionic Cross-Linking. <i>Macromolecules</i> , 2017, 50, 5539-5548.	2.2	15
48	Solid State Electrochemistry and Battery Application of Coordination Compounds. <i>Bulletin of Japan Society of Coordination Chemistry</i> , 2017, 69, 45-49.	0.1	0
49	Potentiometric Study to Reveal Reaction Entropy Behavior of Biphasic Na ₁₊₂ V ₂ (PO ₄) ₃ Electrodes. <i>Electrochemistry</i> , 2016, 84, 234-237.	0.6	7
50	Electrochemical Li-Ion Intercalation in Octacyanotungstate-Bridged Coordination Polymer with Evidence of Three Magnetic Regimes. <i>Inorganic Chemistry</i> , 2016, 55, 7637-7646.	1.9	19
51	Correlation between the O 2p Orbital and Redox Reaction in LiMn _{0.6} Fe _{0.4} PO ₄ Nanowires Studied by Soft X-ray Absorption. <i>ChemPhysChem</i> , 2016, 17, 4110-4115.	1.0	7
52	Intermediate honeycomb ordering to trigger oxygen redox chemistry in layered battery electrode. <i>Nature Communications</i> , 2016, 7, 11397.	5.8	232
53	Sodium-Ion Intercalation Mechanism in MXene Nanosheets. <i>ACS Nano</i> , 2016, 10, 3334-3341.	7.3	448
54	Temperature Dependent Local Structure of Na _x CoO ₂ Cathode Material for Rechargeable Sodium-Ion Batteries. <i>Journal of Physical Chemistry C</i> , 2016, 120, 4227-4232.	1.5	26

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55	Redox Potential Paradox in Na _x MO ₂ for Sodium-Ion Battery Cathodes. <i>Chemistry of Materials</i> , 2016, 28, 1058-1065.	3.2	93
56	Operando soft x-ray emission spectroscopy of LiMn ₂ O ₄ thin film involving Li ⁺ ion extraction/insertion reaction. <i>Electrochemistry Communications</i> , 2015, 50, 93-96.	2.3	29
57	Stepwise Reduction of Electrochemically Lithiated Core-shell Heterostructures Based on the Prussian Blue Analogue Coordination Polymers K _{0.1} Cu[Fe(CN) ₆] _{0.7} ·3.5H ₂ O and K _{0.1} Ni[Fe(CN) ₆] _{0.7} ·4.4H ₂ O. <i>Chemistry of Materials</i> , 2015, 27, 1524-1530.	3.2	26
58	Off-stoichiometry in Alluaudite-type Sodium Iron Sulfate Na _{2+2x} Fe ₂ (SO ₄) ₃ as an Advanced Sodium Battery Cathode Material. <i>ChemElectroChem</i> , 2015, 2, 1019-1023.	1.7	102
59	Pseudocapacitance of MXene nanosheets for high-power sodium-ion hybrid capacitors. <i>Nature Communications</i> , 2015, 6, 6544.	5.8	873
60	An alluaudite Na _{2+2x} Fe ₂ (SO ₄) ₃ (x= 0.2) derivative phase as insertion host for lithium battery. <i>Electrochemistry Communications</i> , 2015, 51, 19-22.	2.3	52
61	Iron Oxalato Framework with One-dimensional Open Channels for Electrochemical Sodium Ion Intercalation. <i>Chemistry - A European Journal</i> , 2015, 21, 1096-1101.	1.7	22
62	Particle Size Effects on the Entropy Behavior of a LiFePO ₄ Electrode. <i>ChemPhysChem</i> , 2014, 15, 2156-2161.	1.0	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. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 4008-4013.	2.1	22
64	High rate sodium ion insertion into core-shell nanoparticles of Prussian blue analogues. <i>Chemical Communications</i> , 2014, 50, 1353-1355.	2.2	94
65	A tricky water molecule coordinated to a verdazyl radical-iron(ii) complex: a multitechnique approach. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 9086.	1.3	7
66	Anisotropic charge-transfer effects in the asymmetric Fe(CN) ₅ NO octahedron of sodium nitroprusside: a soft X-ray absorption spectroscopy study. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 7031-7036.	1.3	21
67	Role of Ligand-to-Metal Charge Transfer in O ₃ -Type NaFeO ₂ ·NaNiO ₂ Solid Solution for Enhanced Electrochemical Properties. <i>Journal of Physical Chemistry C</i> , 2014, 118, 2970-2976.	1.5	137
68	Assembly of Na ₃ V ₂ (PO ₄) ₃ Nanoparticles Confined in a One-dimensional Carbon Sheath for Enhanced Sodium Ion Cathode Properties. <i>Chemistry - A European Journal</i> , 2014, 20, 12636-12640.	1.7	72
69	Electrochemical properties of LiM _x Fe _{1-x} PO ₄ (x=0, 0.2, 0.4, 0.6, 0.8 and 1.0)/vapor grown carbon fiber core-shell composite nanowire synthesized by electrospinning method. <i>Journal of Power Sources</i> , 2014, 248, 615-620.	4.0	27
70	Single Crystallization of Olivine Lithium Phosphate Nanowires using Oriented Attachments. <i>Journal of Physical Chemistry C</i> , 2014, 118, 7678-7682.	1.5	9
71	Phase Separation of a Hexacyanoferrate-Bridged Coordination Framework under Electrochemical Na-ion Insertion. <i>Inorganic Chemistry</i> , 2014, 53, 3141-3147.	1.9	25
72	Li-ion and Na-ion insertion into size-controlled nickel hexacyanoferrate nanoparticles. <i>RSC Advances</i> , 2014, 4, 24955.	1.7	36

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73	Electrochemical Properties of Heterosite FePO ₄ in Aqueous Mg ²⁺ Electrolytes. <i>Electrochemistry</i> , 2014, 82, 855-858.	0.6	10
74	Electrode Properties of P ₂ Na _{2/3} Mn _y Co ₁ O ₂ as Cathode Materials for Sodium-Ion Batteries. <i>Journal of Physical Chemistry C</i> , 2013, 117, 15545-15551.	1.5	174
75	Bimetallic Cyanide-Bridged Coordination Polymers as Lithium Ion Cathode Materials: Core@Shell Nanoparticles with Enhanced Cyclability. <i>Journal of the American Chemical Society</i> , 2013, 135, 2793-2799.	6.6	205
76	Distinct local structure of nanoparticles and nanowires of V ₂ O ₅ probed by x-ray absorption spectroscopy. <i>Applied Physics Letters</i> , 2013, 103, .	1.5	9
77	Temperature dependent local structure of LiCoO ₂ nanoparticles determined by Co K-edge X-ray absorption fine structure. <i>Journal of Power Sources</i> , 2013, 229, 272-276.	4.0	26
78	VGCF-core@LiMn _{0.4} Fe _{0.6} PO ₄ -sheath heterostructure nanowire for high rate Li-ion batteries. <i>CrystEngComm</i> , 2013, 15, 6638.	1.3	10
79	Electrochemical Mg ²⁺ intercalation into a bimetallic CuFe Prussian blue analog in aqueous electrolytes. <i>Journal of Materials Chemistry A</i> , 2013, 1, 13055.	5.2	151
80	Layered Na ₂ RuO ₃ as a cathode material for Na-ion batteries. <i>Electrochemistry Communications</i> , 2013, 33, 23-26.	2.3	92
81	Reversible Solid State Redox of an Octacyanometallate-Bridged Coordination Polymer by Electrochemical Ion Insertion/Extraction. <i>Inorganic Chemistry</i> , 2013, 52, 3772-3779.	1.9	32
82	Synthesis of LiNi _{0.5} Mn _{1.5} O ₄ and 0.5Li ₂ MnO ₃ •0.5LiNi _{1/3} Co _{1/3} Mn _{1/3} O ₂ hollow nanowires by electrospinning. <i>CrystEngComm</i> , 2013, 15, 2592.	1.3	39
83	Suppressed Activation Energy for Interfacial Charge Transfer of a Prussian Blue Analog Thin Film Electrode with Hydrated Ions (Li ⁺ , Na ⁺ , and Mg ²⁺). <i>Journal of Physical Chemistry C</i> , 2013, 117, 10877-10882.	1.5	150
84	Ternary metal Prussian blue analogue nanoparticles as cathode materials for Li-ion batteries. <i>Dalton Transactions</i> , 2013, 42, 15881.	1.6	59
85	Electrospinning Synthesis of Wire-Structured LiCoO ₂ for Electrode Materials of High-Power Li-Ion Batteries. <i>Journal of Physical Chemistry C</i> , 2012, 116, 10774-10780.	1.5	51
86	Fabrication of a Cyanide-Bridged Coordination Polymer Electrode for Enhanced Electrochemical Ion Storage Ability. <i>Journal of Physical Chemistry C</i> , 2012, 116, 8364-8369.	1.5	120
87	Configuration-Interaction Full-Multiplet Calculation to Analyze the Electronic Structure of a Cyano-Bridged Coordination Polymer Electrode. <i>Journal of Physical Chemistry C</i> , 2012, 116, 24896-24901.	1.5	26
88	High power Na-ion rechargeable battery with single-crystalline Na _{0.44} MnO ₂ nanowire electrode. <i>Journal of Power Sources</i> , 2012, 217, 43-46.	4.0	158
89	Sodium iron pyrophosphate: A novel 3.0 V iron-based cathode for sodium-ion batteries. <i>Electrochemistry Communications</i> , 2012, 24, 116-119.	2.3	313
90	Precise Electrochemical Control of Ferromagnetism in a Cyanide-Bridged Bimetallic Coordination Polymer. <i>Inorganic Chemistry</i> , 2012, 51, 10311-10316.	1.9	48

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91	Impedance spectroscopic study on interfacial ion transfers in cyanide-bridged coordination polymer electrode with organic electrolyte. <i>Electrochimica Acta</i> , 2012, 63, 139-145.	2.6	64
92	Ion-Induced Transformation of Magnetism in a Bimetallic CuFe Prussian Blue Analogue. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 6269-6273.	7.2	84
93	Electron delocalization in cyanide-bridged coordination polymer electrodes for Li-ion batteries studied by soft x-ray absorption spectroscopy. <i>Physical Review B</i> , 2011, 84, .	1.1	38
94	Development of Positive Electrode Materials for the High Rate Lithium Ion Battery by Nanostructure Control. <i>Key Engineering Materials</i> , 2010, 445, 109-112.	0.4	0
95	Fast Li-Ion Insertion into Nanosized LiMn_2O_4 without Domain Boundaries. <i>ACS Nano</i> , 2010, 4, 741-752.	7.3	194
96	Switching Redox-Active Sites by Valence Tautomerism in Prussian Blue Analogues $\text{A}_x\text{Mn}_y[\text{Fe}(\text{CN})_6]_z\text{H}_2\text{O}$ (A: K, Rb): Robust Frameworks for Reversible Li Storage. <i>Journal of Physical Chemistry Letters</i> , 2010, 1, 2063-2071.	2.1	179
97	Synthesis of Triaxial LiFePO_4 Nanowire with a VGCF Core Column and a Carbon Shell through the Electrospinning Method. <i>ACS Applied Materials & Interfaces</i> , 2010, 2, 212-218.	4.0	121
98	Size effect on electrochemical property of nanocrystalline LiCoO_2 synthesized from rapid thermal annealing method. <i>Solid State Ionics</i> , 2009, 180, 612-615.	1.3	51
99	Determination of Activation Energy for Li Ion Diffusion in Electrodes. <i>Journal of Physical Chemistry B</i> , 2009, 113, 2840-2847.	1.2	84
100	Control of Charge Transfer Phase Transition and Ferromagnetism by Photoisomerization of Spiropyran for an Organic-Inorganic Hybrid System, (SP)[$\text{Fe}^{\text{II}}\text{Fe}^{\text{III}}(\text{dto})_3$] (SP = spiropyran, dto =) <i>Journal of Physical Chemistry C</i> , 2009, 113, 212-220.	10.7	503770
101	Anisotropic Surface Effect on Electronic Structures and Electrochemical Properties of LiCoO_2 . <i>Journal of Physical Chemistry C</i> , 2009, 113, 15337-15342.	1.5	45
102	Phonon confinement effect on nanocrystalline LiCoO_2 studied with Raman spectroscopy. <i>Journal of Physics and Chemistry of Solids</i> , 2008, 69, 2911-2915.	1.9	12
103	LiCoO_2 μC . <i>Electrochemistry</i> , 2008, 76, 349-353.	0.6	0
104	Nanosize Effect on High-Rate Li-Ion Intercalation in LiCoO_2 Electrode. <i>Journal of the American Chemical Society</i> , 2007, 129, 7444-7452.	6.6	690
105	Control of magnetism by isomerization of intercalated molecules in organic-inorganic hybrid systems. <i>Coordination Chemistry Reviews</i> , 2007, 251, 2665-2673.	9.5	31
106	Vacancy-driven magnetocaloric effect in Prussian blue analogues. <i>Journal of Magnetism and Magnetic Materials</i> , 2007, 316, e569-e571.	1.0	27
107	Enhancement of the Curie Temperature by Isomerization of Diarylethene (DAE) for an Organic-Inorganic Hybrid System: $\text{Co}_4(\text{OH})_7(\text{DAE})_0.5 \cdot 3\text{H}_2\text{O}$. <i>Inorganic Chemistry</i> , 2006, 45, 10240-10247.	1.9	35
108	Magnetocaloric effect in hexacyanochromate Prussian blue analogs. <i>Physical Review B</i> , 2006, 73, .	1.1	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.	2.0	3
110	Reversible photomagnetism in a cobalt layered compound coupled with photochromic diarylethene. Solid State Communications, 2005, 134, 777-782.	0.9	26
111	Study on photomagnetism of 2-D magnetic compounds coupled with photochromic diarylethene cations. Synthetic Metals, 2005, 152, 461-464.	2.1	19
112	Ferromagnetism and its photo-induced effect in 2D iron mixed-valence complex coupled with photochromic spiropyran. Synthetic Metals, 2005, 153, 473-476.	2.1	18
113	Crystal structure and ferromagnetism of (n-C3H7)4N[CollFeIII(dto)3] (dto=C2O2S2). Solid State Communications, 2003, 126, 291-296.	0.9	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.	2.1	9