Masashi Okubo, ?????

List of Publications by Year in Descending Order

109 papers	5,924 citations	38 h-index	76 g-index
120 ext. papers	6,689 ext. citations	7.7 avg, IF	5.86 L-index

#	Paper	IF	Citations
109	Oxygen Redox Versus Oxygen Evolution in Aqueous Electrolytes: Critical Influence of Transition Metals.. *Advanced Science*, **2022**, e2104907	13.6	2
108	Relationship between Electric Double-Layer Structure of MXene Electrode and Its Surface Functional Groups. *Chemistry of Materials*, **2022**, 34, 2069-2075	9.6	1
107	Lithium-Rich O2-Type Li0.66[Li0.22Ru0.78]O2 Positive Electrode Material. *Journal of the Electrochemical Society*, **2022**, 169, 040536	3.9	0
106	Soft X-ray Emission Studies on Hydrate-Melt Electrolytes. *Journal of Physical Chemistry B*, **2021**, 125, 11534-11539	3.4	1
105	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	6.4	4
104	Optimal water concentration for aqueous Li intercalation in vanadyl phosphate. *Chemical Science*, **2021**, 12, 4450-4454	9.4	3
103	Designing positive electrodes with high energy density for lithium-ion batteries. *Journal of Materials Chemistry A*, **2021**, 9, 7407-7421	13	12
102	Waste Heat Harvesting: Descriptor of Thermogalvanic Cell. *JPSJ News and Comments*, **2021**, 18, 07	0.1	
101	Nonpolarizing oxygen-redox capacity without O-O dimerization in NaMnO. *Nature Communications*, **2021**, 12, 631	17.4	21
100	Capacitive versus Pseudocapacitive Storage in MXene. *Advanced Functional Materials*, **2020**, 30, 2000820	15.6	43
99	Does Spinel Serve as a Rigid Framework for Oxygen Redox?. *Chemistry of Materials*, **2020**, 32, 7181-7187	9.6	1
98	Multiorbital bond formation for stable oxygen-redox reaction in battery electrodes. *Energy and Environmental Science*, **2020**, 13, 1492-1500	35.4	33
97	(Invited) Probing Redox Centers in Oxygen-Redox Electrodes Using Soft X-Ray Spectroscopy. *ECS Meeting Abstracts*, **2020**, MA2020-02, 165-165	0	
96	Possible high-potential ilmenite type Na1MO3 (M=V Ni) cathodes realized by dominant oxygen redox reaction. *Physical Review Materials*, **2020**, 4,	3.2	1
95	Pseudocapacitors: Capacitive versus Pseudocapacitive Storage in MXene (Adv. Funct. Mater. 47/2020). *Advanced Functional Materials*, **2020**, 30, 2070312	15.6	0
94	Oxygen Redox Promoted by Na Excess and Covalency in Hexagonal and Monoclinic Na2 RuO3 Polymorphs. *Journal of the Electrochemical Society*, **2019**, 166, A5343-A5348	3.9	6
93	Combined Theoretical and Experimental Studies of Sodium Battery Materials. *Chemical Record*, **2019**, 19, 792	6.6	8

92	Topochemical synthesis of phase-pure MoAlB through staging mechanism. *Chemical Communications*, **2019**, 55, 9295-9298	5.8	12
91	Synthesis, crystal structure and possible proton conduction of Fe(H2PO4)2F. *Solid State Ionics*, **2019**, 338, 134-137	3.3	
90	Dense Charge Accumulation in MXene with a Hydrate-Melt Electrolyte. *Chemistry of Materials*, **2019**, 31, 5190-5196	9.6	29
89	Coulombic self-ordering upon charging a large-capacity layered cathode material for rechargeable batteries. *Nature Communications*, **2019**, 10, 2185	17.4	38
88	Solid-state electrochemistry of metal cyanides. *Comptes Rendus Chimie*, **2019**, 22, 483-489	2.7	4
87	Redox-Driven Spin Transition in a Layered Battery Cathode Material. *Chemistry of Materials*, **2019**, 31, 2358-2365	9.6	13
86	Negative dielectric constant of water confined in nanosheets. *Nature Communications*, **2019**, 10, 850	17.4	68
85	Mn 2p resonant X-ray emission clarifies the redox reaction and charge-transfer effects in LiMnO. *Physical Chemistry Chemical Physics*, **2019**, 21, 18363-18369	3.6	6
84	MXenes for Batteries **2019**, 367-379		
83	Prussian Blue for Battery Electrodes **2019**, 165-181		
82	Interfacial Dissociation of Contact-Ion-Pair on MXene Electrodes in Concentrated Aqueous Electrolytes. *Journal of the Electrochemical Society*, **2019**, 166, A3739-A3744	3.9	14
81	HPO as a building unit for sodium-ion battery cathodes: 3.1 V operation of NaFe(HPO) (0 Chemical Communications, **2019**, 55, 14155-14157	5.8	2
80	Operando soft X-ray emission spectroscopy of the FeO anode to observe the conversion reaction. *Physical Chemistry Chemical Physics*, **2019**, 21, 26351-26357	3.6	5
79	MXene as a Charge Storage Host. *Accounts of Chemical Research*, **2018**, 51, 591-599	24.3	203
78	Highly Reversible Oxygen-Redox Chemistry at 4.1 V in Na4/7□[?1/7Mn6/7]O2 (?: Mn Vacancy). *Advanced Energy Materials*, **2018**, 8, 1800409	21.8	116
77	A [Fe(Tp)(CN)] scorpionate-based complex as a building block for designing ion storage hosts (Tp: hydrotrispyrazolylborate). *Chemical Communications*, **2018**, 54, 5189-5192	5.8	7
76	Oxygen redox in hexagonal layered NaxTMO3 (TM = 4d elements) for high capacity Na ion batteries. *Journal of Materials Chemistry A*, **2018**, 6, 3747-3753	13	23
75	Cobalt-Free O2-Type Lithium-Rich Layered Oxides. *Journal of the Electrochemical Society*, **2018**, 165, A3630-A3633	3.9	23

74	Effects of nanostructuring on the bond strength and disorder in VO cathode material for rechargeable ion-batteries. *Physical Chemistry Chemical Physics*, **2018**, 20, 15288-15292	3.6	4
73	Enhanced Li-Ion Accessibility in MXene Titanium Carbide by Steric Chloride Termination. *Advanced Energy Materials*, **2017**, 7, 1601873	21.8	124
72	Charge Storage Mechanism of RuO2/Water Interfaces. *Journal of Physical Chemistry C*, **2017**, 121, 18975-18981	3.8	10
71	Molecular Orbital Principles of Oxygen-Redox Battery Electrodes. *ACS Applied Materials & Interfaces*, **2017**, 9, 36463-36472	9.5	89
70	In Vivo Redox-Responsive Sol□Gel/Gel□Sol Transition of Star Block Copolymer Solution Based on Ionic Cross-Linking. *Macromolecules*, **2017**, 50, 5539-5548	5.5	11
69	Solid State Electrochemistry and Battery Application of Coordination Compounds. *Bulletin of Japan Society of Coordination Chemistry*, **2017**, 69, 45-49	0.3	
68	Electrochemical Li-Ion Intercalation in Octacyanotungstate-Bridged Coordination Polymer with Evidence of Three Magnetic Regimes. *Inorganic Chemistry*, **2016**, 55, 7637-46	5.1	17
67	Correlation between the O 2p Orbital and Redox Reaction in LiMn Fe PO Nanowires Studied by Soft X-ray Absorption. *ChemPhysChem*, **2016**, 17, 4110-4115	3.2	2
66	Intermediate honeycomb ordering to trigger oxygen redox chemistry in layered battery electrode. *Nature Communications*, **2016**, 7, 11397	17.4	170
65	Sodium-Ion Intercalation Mechanism in MXene Nanosheets. *ACS Nano*, **2016**, 10, 3334-41	16.7	315
64	Temperature Dependent Local Structure of NaxCoO2 Cathode Material for Rechargeable Sodium-Ion Batteries. *Journal of Physical Chemistry C*, **2016**, 120, 4227-4232	3.8	23
63	Redox Potential Paradox in NaxMO2 for Sodium-Ion Battery Cathodes. *Chemistry of Materials*, **2016**, 28, 1058-1065	9.6	72
62	Potentiometric Study to Reveal Reaction Entropy Behavior of Biphasic Na1+2xV2(PO4)3 Electrodes. *Electrochemistry*, **2016**, 84, 234-237	1.2	6
61	Off-Stoichiometry in Alluaudite-Type Sodium Iron Sulfate Na2+2xFe2□(SO4)3 as an Advanced Sodium Battery Cathode Material. *ChemElectroChem*, **2015**, 2, 1019-1023	4.3	87
60	Pseudocapacitance of MXene nanosheets for high-power sodium-ion hybrid capacitors. *Nature Communications*, **2015**, 6, 6544	17.4	707
59	An alluaudite Na2+2xFe2□(SO4)3(x=0.2) derivative phase as insertion host for lithium battery. *Electrochemistry Communications*, **2015**, 51, 19-22	5.1	49
58	Iron-oxalato framework with one-dimensional open channels for electrochemical sodium-ion intercalation. *Chemistry - A European Journal*, **2015**, 21, 1096-101	4.8	20
57	Operando soft x-ray emission spectroscopy of LiMn2O4 thin film involving Li□bn extraction/insertion reaction. *Electrochemistry Communications*, **2015**, 50, 93-96	5.1	24

56	Stepwise Reduction of Electrochemically Lithiated Core–Shell Heterostructures Based on the Prussian Blue Analogue Coordination Polymers K0.1Cu[Fe(CN)6]0.7·3.5H2O and K0.1Ni[Fe(CN)6]0.7·4.4H2O. *Chemistry of Materials*, **2015**, 27, 1524-1530	9.6	26
55	Particle-size effects on the entropy behavior of a LixFePO4 electrode. *ChemPhysChem*, **2014**, 15, 2156-61	3.2	21
54	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, 4008-13	6.4	19
53	High rate sodium ion insertion into core-shell nanoparticles of Prussian blue analogues. *Chemical Communications*, **2014**, 50, 1353-5	5.8	81
52	A tricky water molecule coordinated to a verdazyl radical-iron(II) complex: a multitechnique approach. *Physical Chemistry Chemical Physics*, **2014**, 16, 9086-95	3.6	7
51	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, 7031-6	3.6	16
50	Role of Ligand-to-Metal Charge Transfer in O3-Type NaFeO2–NaNiO2Solid Solution for Enhanced Electrochemical Properties. *Journal of Physical Chemistry C*, **2014**, 118, 2970-2976	3.8	110
49	Assembly of Na3V2(PO4)3 nanoparticles confined in a one-dimensional carbon sheath for enhanced sodium-ion cathode properties. *Chemistry - A European Journal*, **2014**, 20, 12636-40	4.8	63
48	Electrochemical properties of LiMnxFe1−xPO4 (x = 0, 0.2, 0.4, 0.6, 0.8 and 1.0)/vapor grown carbon fiber core–sheath composite nanowire synthesized by electrospinning method. *Journal of Power Sources*, **2014**, 248, 615-620	8.9	20
47	Single Crystallization of Olivine Lithium Phosphate Nanowires using Oriented Attachments. *Journal of Physical Chemistry C*, **2014**, 118, 7678-7682	3.8	9
46	Phase separation of a hexacyanoferrate-bridged coordination framework under electrochemical na-ion insertion. *Inorganic Chemistry*, **2014**, 53, 3141-7	5.1	23
45	Li-ion and Na-ion insertion into size-controlled nickel hexacyanoferrate nanoparticles. *RSC Advances*, **2014**, 4, 24955	3.7	30
44	Electrochemical Properties of Heterosite FePO4 in Aqueous Mg2+ Electrolytes. *Electrochemistry*, **2014**, 82, 855-858	1.2	9
43	Electrode Properties of P2–Na2/3MnyCo1−yO2 as Cathode Materials for Sodium-Ion Batteries. *Journal of Physical Chemistry C*, **2013**, 117, 15545-15551	3.8	155
42	Bimetallic cyanide-bridged coordination polymers as lithium ion cathode materials: core@shell nanoparticles with enhanced cyclability. *Journal of the American Chemical Society*, **2013**, 135, 2793-9	16.4	173
41	Distinct local structure of nanoparticles and nanowires of V2O5 probed by x-ray absorption spectroscopy. *Applied Physics Letters*, **2013**, 103, 251910	3.4	7
40	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	8.9	23
39	VGCF-core@LiMn0.4Fe0.6PO4-sheath heterostructure nanowire for high rate Li-ion batteries. *CrystEngComm*, **2013**, 15, 6638	3.3	9

38	Electrochemical Mg2+ intercalation into a bimetallic CuFe Prussian blue analog in aqueous electrolytes. *Journal of Materials Chemistry A*, **2013**, 1, 13055	13	126
37	Layered Na2RuO3 as a cathode material for Na-ion batteries. *Electrochemistry Communications*, **2013**, 33, 23-26	5.1	71
36	Reversible solid state redox of an octacyanometallate-bridged coordination polymer by electrochemical ion insertion/extraction. *Inorganic Chemistry*, **2013**, 52, 3772-9	5.1	29
35	Synthesis of LiNi0.5Mn1.5O4 and 0.5Li2MnO3□0.5LiNi1/3Co1/3Mn1/3O2 hollow nanowires by electrospinning. *CrystEngComm*, **2013**, 15, 2592	3.3	36
34	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	3.8	134
33	Ternary metal Prussian blue analogue nanoparticles as cathode materials for Li-ion batteries. *Dalton Transactions*, **2013**, 42, 15881-4	4.3	52
32	Impedance spectroscopic study on interfacial ion transfers in cyanide-bridged coordination polymer electrode with organic electrolyte. *Electrochimica Acta*, **2012**, 63, 139-145	6.7	52
31	Electrospinning Synthesis of Wire-Structured LiCoO2 for Electrode Materials of High-Power Li-Ion Batteries. *Journal of Physical Chemistry C*, **2012**, 116, 10774-10780	3.8	45
30	Fabrication of a Cyanide-Bridged Coordination Polymer Electrode for Enhanced Electrochemical Ion Storage Ability. *Journal of Physical Chemistry C*, **2012**, 116, 8364-8369	3.8	93
29	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	3.8	25
28	High power Na-ion rechargeable battery with single-crystalline Na0.44MnO2 nanowire electrode. *Journal of Power Sources*, **2012**, 217, 43-46	8.9	139
27	Sodium iron pyrophosphate: A novel 3.0 V iron-based cathode for sodium-ion batteries. *Electrochemistry Communications*, **2012**, 24, 116-119	5.1	268
26	Precise electrochemical control of ferromagnetism in a cyanide-bridged bimetallic coordination polymer. *Inorganic Chemistry*, **2012**, 51, 10311-6	5.1	45
25	Ion-Induced Transformation of Magnetism in a Bimetallic CuFe Prussian Blue Analogue. *Angewandte Chemie*, **2011**, 123, 6393-6397	3.6	18
24	Ion-induced transformation of magnetism in a bimetallic CuFe Prussian blue analogue. *Angewandte Chemie - International Edition*, **2011**, 50, 6269-73	16.4	80
23	Electron delocalization in cyanide-bridged coordination polymer electrodes for Li-ion batteries studied by soft x-ray absorption spectroscopy. *Physical Review B*, **2011**, 84,	3.3	32
22	Development of Positive Electrode Materials for the High Rate Lithium Ion Battery by Nanostructure Control. *Key Engineering Materials*, **2010**, 445, 109-112	0.4	
21	Fast Li-Ion insertion into nanosized LiMn(2)O(4) without domain boundaries. *ACS Nano*, **2010**, 4, 741-52	16.7	169

20	Switching Redox-Active Sites by Valence Tautomerism in Prussian Blue Analogues AxMny[Fe(CN)6]□hH2O (A: K, Rb): Robust Frameworks for Reversible Li Storage. *Journal of Physical Chemistry Letters*, **2010**, 1, 2063-2071	6.4	158
19	Synthesis of triaxial LiFePO4 nanowire with a VGCF core column and a carbon shell through the electrospinning method. *ACS Applied Materials & Interfaces*, **2010**, 2, 212-8	9.5	111
18	Size effect on electrochemical property of nanocrystalline LiCoO2 synthesized from rapid thermal annealing method. *Solid State Ionics*, **2009**, 180, 612-615	3.3	47
17	Determination of activation energy for Li ion diffusion in electrodes. *Journal of Physical Chemistry B* , **2009**, 113, 2840-7	3.4	66
16	Control of charge transfer phase transition and ferromagnetism by photoisomerization of spiropyran for an organic-inorganic hybrid system, (SP)[Fe(II)Fe(III)(dto)3] (SP = spiropyran, dto = C2O2S2). *Journal of the American Chemical Society*, **2009**, 131, 212-20	16.4	59
15	Anisotropic Surface Effect on Electronic Structures and Electrochemical Properties of LiCoO2. *Journal of Physical Chemistry C*, **2009**, 113, 15337-15342	3.8	39
14	????LiCoO2????????. *Electrochemistry*, **2008**, 76, 349-353	1.2	
13	Phonon confinement effect on nanocrystalline LiCoO2 studied with Raman spectroscopy. *Journal of Physics and Chemistry of Solids*, **2008**, 69, 2911-2915	3.9	11
12	Control of magnetism by isomerization of intercalated molecules in organic□norganic hybrid systems. *Coordination Chemistry Reviews*, **2007**, 251, 2665-2673	23.2	27
11	Vacancy-driven magnetocaloric effect in Prussian blue analogues. *Journal of Magnetism and Magnetic Materials*, **2007**, 316, e569-e571	2.8	25
10	Nanosize effect on high-rate Li-ion intercalation in LiCoO2 electrode. *Journal of the American Chemical Society*, **2007**, 129, 7444-52	16.4	568
9	Magnetocaloric effect in hexacyanochromate Prussian blue analogs. *Physical Review B*, **2006**, 73,	3.3	48
8	Enhancement of the Curie temperature by isomerization of diarylethene (DAE) for an organic-inorganic hybrid system: Co4(OH)7(DAE)0.5.3H2O. *Inorganic Chemistry*, **2006**, 45, 10240-7	5.1	34
7	Study on photomagnetism of 2-D magnetic compounds coupled with photochromic diarylethene cations. *Synthetic Metals*, **2005**, 152, 461-464	3.6	18
6	Ferromagnetism and its photo-induced effect in 2D iron mixed-valence complex coupled with photochromic spiropyran. *Synthetic Metals*, **2005**, 153, 473-476	3.6	16
5	Hybrid Organic□norganic Conductor Coupled with BEDT-TTF and Photochromic Nitrosyl Ruthenium Complex. *Bulletin of the Chemical Society of Japan*, **2005**, 78, 1054-1060	5.1	3
4	Reversible photomagnetism in a cobalt layered compound coupled with photochromic diarylethene. *Solid State Communications*, **2005**, 134, 777-782	1.6	22
3	Crystal structure and ferromagnetism of (n-C3H7)4N[CoIIFeIII(dto)3] (dto=C2O2S2). *Solid State Communications*, **2003**, 126, 291-296	1.6	17

2	Origin of charge transfer phase transition and ferromagnetism in (CnH2n+1)4N[FeIIFeIII (dto)3] (dto=C2O2S2). *Synthetic Metals*, **2003**, 137, 1231-1232	3.6	8
1	Square-Scheme Electrochemistry in Battery Electrodes. *Accounts of Materials Research*,	7.5	2