Masao Yonemura

List of Publications by Year
in descending order

105	10,125	159585	36028
papers	citations	30 h-index	97 g-index

109	109	109	8462
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A lithium superionic conductor. Nature Materials, 2011, 10, 682-686.	27.5	3,659
2	High-power all-solid-state batteries using sulfide superionic conductors. Nature Energy, 2016, 1, .	39.5	2,421
3	Room-temperature miscibility gap in LixFePO4. Nature Materials, 2006, 5, 357-360.	27.5	507
4	Comparative Kinetic Study of Olivine Li[sub x]MPO[sub 4] (M=Fe, Mn). Journal of the Electrochemical Society, 2004, 151, A1352.	2.9	363
5	Origin of stabilization and destabilization in solid-state redox reaction of oxide ions for lithium-ion batteries. Nature Communications, 2016, 7, 13814.	12.8	330
6	Crystal structure and phase transitions of the lithium ionic conductor Li3PS4. Solid State Ionics, 2011, 182, 53-58.	2.7	289
7	Electrochemical, Magnetic, and Structural Investigation of the Lix(MnyFe1-y)PO4Olivine Phases. Chemistry of Materials, 2006, 18, 804-813.	6.7	162
8	Pure H ^{â€“} conduction in oxyhydrides. Science, 2016, 351, 1314-1317.	12.6	155
9	Synthesis, structure, and conduction mechanism of the lithium superionic conductor Li_{10+Î´}Ge_{1+Î´}P_{2â^'Î´}S₁₂. Journal of Materials Chemistry A, 2015, 3, 438-446.	10.3	144
10	Direct synthesis of oxygen-deficient Li2MnO3â^'x for high capacity lithium battery electrodes. Journal of Power Sources, 2012, 216, 249-255.	7.8	113
11	Real-time observations of lithium battery reactionsâ€”operando neutron diffraction analysis during practical operation. Scientific Reports, 2016, 6, 28843.	3.3	101
12	Synthesis, structure, and ionic conductivity of solid solution, Li_{10+Î´}M_{1+Î´}P_{2â^'Î´}S₁₂ (M = Si, Sn). Faraday Discussions, 2014, 176, 83-94.	3.2	83
13	Synthesis of Li[(Ni0.5Mn0.5)1-xLix]O2by Emulsion Drying Method and Impact of Excess Li on Structural and Electrochemical Properties. Chemistry of Materials, 2006, 18, 1658-1666.	6.7	82
14	Preparation of LiCoO2 and LiCo1â^'xFexO2 using hydrothermal reactions. Journal of Materials Chemistry, 1999, 9, 199-204.	6.7	75
15	Materials and Life Science Experimental Facility (MLF) at the Japan Proton Accelerator Research Complex II: Neutron Scattering Instruments. Quantum Beam Science, 2017, 1, 9.	1.2	69
16	Super High Resolution Powder Diffractometer at J-PARC. Journal of the Physical Society of Japan, 2011, 80, SB020.	1.6	66
17	Synthesis, structure, and phase relationship in lithium manganese oxide spinelElectronic supplementary information (ESI) available: neutron and X-ray Rietveld refinement results of LiMn2O4. See http://www.rsc.org/suppdata/jm/b3/b314810f/. Journal of Materials Chemistry, 2004, 14, 1948.	6.7	64
18	Fast Charging LiFePO[sub 4]. Electrochemical and Solid-State Letters, 2005, 8, A55.	2.2	56

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19	Layered Na_xCr_xTi_{1â€“x}O₂ as Bifunctional Electrode Materials for Rechargeable Sodium Batteries. Chemistry of Materials, 2016, 28, 7006-7016.	6.7	56
20	Synthesis, structure, and electrochemical properties of crystalline Liâ€“Pâ€“Sâ€“O solid electrolytes: Novel lithium-conducting oxysulfides of Li10GeP2S12 family. Solid State Ionics, 2016, 288, 229-234.	2.7	55
21	Dependence of Structural Defects in Li₂MnO₃ on Synthesis Temperature. Chemistry of Materials, 2016, 28, 4143-4150.	6.7	54
22	A Comparative Study of LiCoO₂ Polymorphs: Structural and Electrochemical Characterization of O2-, O3-, and O4-type Phases. Inorganic Chemistry, 2013, 52, 9131-9142.	4.0	51
23	Surface Characterization of LiFePO4 Epitaxial Thin Films by X-ray/Neutron Reflectometry. Electrochemistry, 2010, 78, 413-415.	1.4	48
24	The relationships between phases and structures of lithium manganese spinels. Journal of Power Sources, 1999, 81-82, 542-546.	7.8	45
25	Direct Observation of Fast Lithium-Ion Diffusion in a Superionic Conductor<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>Li</mml:mi></mml:mrow><mml:mrow><mml:mn>7</mml:mn></mml:mrow></mml:msub><mml:msub><mml:mrow><mml:mi mathvariant="normal">P</mml:mi></mml:mrow><mml:mrow><mml:mn>3</mml:mn></mml:mrow></mml:msub><mml:msub><mml:mrow><mml:mi mathvariant="normal">S</mml:mi></mml:mrow><mml:mrow><mml:mn>11</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math>. Physical Review Applied, 2015, 4, .	3.8	43
26	Ba₂ScHO₃: H^{â€“} Conductive Layered Oxyhydride with H^{â€“} Site Selectivity. Inorganic Chemistry, 2019, 58, 4431-4436.	4.0	41
27	Crystal Structure of High-Temperature Phase of Lithium Ionic Conductor, Li₃PS₄. Journal of the Physical Society of Japan, 2010, 79, 90-93.	1.6	40
28	Superionic lithium conductor with a cubic argyrodite-type structure in the Liâ€“Alâ€“Siâ€“S system. Journal of Solid State Chemistry, 2019, 270, 487-492.	2.9	35
29	Enhancing Fast Lithium Ion Conduction in Li₄GeO₄â€“Li₃PO₄ Solid Electrolytes. ACS Applied Energy Materials, 2019, 2, 6608-6615.	5.1	34
30	Degradation analysis of 18650-type lithium-ion cells by operando neutron diffraction. Journal of Power Sources, 2016, 325, 404-409.	7.8	31
31	Two-dimensional imaging of charge/discharge by Bragg edge analysis of electrode materials for pulsed neutron-beam transmission spectra of a Li-ion battery. Solid State Ionics, 2016, 288, 257-261.	2.7	31
32	Synthesis, crystal structure, and ionic conductivity of hydride ion-conducting Ln₂LiHO₃ (Ln = La, Pr, Nd) oxyhydrides. Journal of Materials Chemistry A, 2018, 6, 23457-23463.	10.3	31
33	Synthesis and H^{â”} conductivity of a new oxyhydride Ba₂YHO₃ with anion-ordered rock-salt layers. Chemical Communications, 2020, 56, 10373-10376.	4.1	30
34	Ionic conduction mechanism of a lithium superionic argyrodite in the Liâ€“Alâ€“Siâ€“Sâ€“O system. Materials Advances, 2020, 1, 334-340.	5.4	30
35	Structural and Magnetic Phase Determination of (1-x)BiFeO₃â€“xBaTiO₃ Solid Solution. Journal of the Physical Society of Japan, 2012, 81, 024603.	1.6	29
36	Structural Understanding of Superior Battery Properties of Partially Ni-Doped Li2MnO3 as Cathode Material. Journal of Physical Chemistry Letters, 2016, 7, 2063-2067.	4.6	29

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37	Mechanical synthesis and structural properties of the fast fluoride-ion conductor PbSnF4. Journal of Solid State Chemistry, 2017, 253, 287-293.	2.9	28
38	Charge states of Ca atoms in Î²-dicalcium silicate. Journal of Solid State Chemistry, 2006, 179, 3286-3294.	2.9	27
39	Synthesis and structures of lithium manganese oxide spinel, LiMn2O4âˆ’Î´ (0â‰¤Î´â‰¤0.27). Journal of Power Sources, 2001, 97-98, 423-426.	7.8	26
40	Hydride-ion-conducting K2NiF4-type Baâ€“Li oxyhydride solid electrolyte. Nature Materials, 2022, 21, 325-330.	27.5	26
41	Ambient Pressure Synthesis and H[−] Conductivity of LaSrLiH₂O₂. Electrochemistry, 2017, 85, 88-92.	1.4	25
42	High oxygen pressure floating zone growth and crystal structure of the metallic nickelates <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>R</mml:mi><mml:mn>4</mml:mn></mml:m		

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55	Efficient Stabilization of Na Storage Reversibility by Ti Integration into Oâ€²3-Type NaMnO ₂. Energy Material Advances, 2021, 2021, .	11.0	15
56	Li₁₀GeP₂S₁₂-Type Structured Solid Solution Phases in the Li_{9+Î´}P_{3+Î´â€²}S_{12â€“k}O_k System: Controlling Crystallinity by Synthesis to Improve the Air Stability. Inorganic Chemistry, 2022, 61, 52-61.	4.0	14
57	Synthesis, crystal structure, and ionic conductivity of tunnel structure phosphates, RbMg1â^'xH2x(PO3)3Â·y(H2O). Journal of Materials Chemistry A, 2013, 1, 15544.	10.3	13
58	Structural and Hydrogen Desorption Properties of Aluminum Hydride. Materials Transactions, 2011, 52, 598-601.	1.2	12
59	Ambient pressure synthesis of La 2 Li HO 3 as a solid electrolyte for a hydrogen electrochemical cell. Journal of the American Ceramic Society, 2019, 102, 3228-3235.	3.8	12
60	Neutron powder diffraction study on the high-temperature phase of K3H(SeO4)2. Physica B: Condensed Matter, 2006, 385-386, 156-159.	2.7	11
61	Synthesis, structures and phase transitions in the double perovskites Sr2â^'xCaxCrNbO6. Journal of Solid State Chemistry, 2006, 179, 2487-2494.	2.9	11
62	Synthesis, crystal structure, and electrode characteristics of LiMnPO4(OH) cathode for lithium batteries. Journal of Solid State Chemistry, 2012, 187, 124-129.	2.9	11
63	First Imaging Experiment of a Lithium Ion Battery by a Pulsed Neutron Beam at J-PARC/MLF/BL09. Physics Procedia, 2015, 69, 612-618.	1.2	11
64	Syntheses, structures, and ionic conductivities of perovskite-structured lithiumâ€“strontiumâ€“aluminum/galliumâ€“tantalum-oxides. Journal of Solid State Chemistry, 2015, 225, 431-437.	2.9	11
65	High Anionic Conductive Form of PbxSn2â€“xF4. Chemistry of Materials, 2019, 31, 7704-7710.	6.7	11
66	Strong lattice anharmonicity exhibited by the high-energy optical phonons in thermoelectric material. New Journal of Physics, 2020, 22, 083083.	2.9	11
67	Neutron reflectometry analysis of Li₄Ti₅O₁₂/organic electrolyte interfaces: characterization of surface structure changes and lithium intercalation properties. Journal of Materials Research, 2016, 31, 3142-3150.	2.6	10
68	Unexpectedly Large Contribution of Oxygen to Charge Compensation Triggered by Structural Disordering: Detailed Experimental and Theoretical Study on a Li₃NbO₄â€“NiO Binary System. ACS Central Science, 2022, 8, 775-794.	11.3	10
69	Average and Local Structures in Hydrogen Absorbing Ti–Cr–Mo Alloy. Materials Transactions, 2006, 47, 271-274.	1.2	9
70	Neutron Powder Diffraction Study of Protonic Conductor K3H(SeO4)2. Ferroelectrics, 2007, 347, 74-78.	0.6	8
71	Appearance of Lithium-Ion Conduction in a Laâ€“Liâ€“Coâ€“O Band Insulator: Possible Route to Oxide Electrolyte. ACS Applied Energy Materials, 2018, 1, 2546-2554.	5.1	8
72	Revealing the Ion Dynamics in Li₁₀GeP₂S₁₂ by Quasi-Elastic Neutron Scattering Measurements. Journal of Physical Chemistry C, 2022, 126, 9518-9527.	3.1	8

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73	Defect Structure of LiMn₂O₄ after High-Temperature Storage. Electrochemistry, 2003, 71, 1160-1161.	1.4	7
74	Automatic sample changer for IBARAKI materials design diffractometer (iMATERIA). Journal of Physics: Conference Series, 2010, 251, 012083.	0.4	7
75	Phase Transitions and Low-temperature Structure of Lithium Manganese Oxide Spinel. Materials Transactions, 2004, 45, 2048-2055.	1.2	6
76	Observation of microstructure of hydrated Ca3SiO5. Physica B: Condensed Matter, 2006, 385-386, 517-519.	2.7	6
77	Object-oriented data analysis framework for neutron scattering experiments. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2009, 600, 123-125.	1.6	6
78	Room Temperature Zero Thermal Expansion in a Cubic Cobaltite. Journal of Physical Chemistry Letters, 2020, 11, 6785-6790.	4.6	6
79	Neutron powder diffraction study on Pr(Ba1â^'xSrx)2Cu3Oy compounds with 0â©½xâ©½0.5. Physica B: Condensed Matter, 2006, 385-386, 116-118.	2.7	5
80	Weak-ferromagnetism of CoF3 and FeF3. Physica B: Condensed Matter, 2018, 551, 94-97.	2.7	5
81	Synthesis of Novel Melilite-Type Iron/Cobalt Oxides and Their Oxygen Evolution Reaction Electrocatalytic Activity. Chemistry of Materials, 2020, 32, 6847-6854.	6.7	5
82	Arrangement of water molecules and high proton conductivity of tunnel structure phosphates, KMg_{1â^'x}H_{2x}(PO₃)₃Â·yH₂O. RSC Advances, 2020, 10, 7803-7811.	3.6	5
83	Structure phase transition in FeSr2YCu2O6+Î´. Physica B: Condensed Matter, 2006, 385-386, 561-563.	2.7	4
84	The Ibaraki prefecture materials design diffractometer for J-PARCâ€"Designing neutron guide. Physica B: Condensed Matter, 2006, 385-386, 1025-1028.	2.7	3
85	Design of Air Scattering Chamber for the Powder Diffractometer SPICA. Journal of the Physical Society of Japan, 2011, 80, SB001.	1.6	3
86	Study of Crystal Structure and Protonic Conduction Properties of La0.9Ba1.1GaO4^|^minus;^|^delta; Prepared by Liquid Synthesis Method. Electrochemistry, 2014, 82, 550-556.	1.4	3
87	Synthesis, Crystal Structure, and Electrochemical Properties of Li_{1.2+}_xMn_{0.3}Co_{0.2}Ni_{0.3}O₂ (x > 0) for Lithium-ion Battery Cathodes. Electrochemistry, 2015, 83, 820-823.	1.4	3
88	Origin of magnetovolume effect in a cobaltite. Physical Review B, 2021, 103, .	3.2	3
89	Crystal-Local Structure Analyses for Cathode LIBs LiNi_{1â^'}_xCo_xO₂ (0 â‰¤ x â‰¤ 1) by Neutron Diffraction. , 2015, , .		3
90	Oscillatory diffuse scattering study by time-of-flight neutron scattering. Physica B: Condensed Matter, 2008, 403, 2557-2560.	2.7	2

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91	Ionic Conductivity and Structural Properties of Lithium Lanthanum Titanate Quenched into Liquid Nitrogen Studied by Neutron Powder Diffraction. Journal of the Physical Society of Japan, 2010, 79, 84-86.	1.6	2
92	Temperature dependence of structural disorder in thermoelectric clathrate Ba8Al16Ge30. Physica B: Condensed Matter, 2018, 551, 41-45.	2.7	2
93	Structural Variation in Carbonate Electrolytes by the Addition of Li Salts Studied by Xâ€Ray Total Scattering. Physica Status Solidi (B): Basic Research, 2020, 257, 2000100.	1.5	2
94	Corrigendum to â€œEfficient Stabilization of Na Storage Reversibility by Ti Integration into O ^{â€²} 3-Type NaMnO ₂ â€• Energy Material Advances, 2021, 2021, .	11.0	2
95	Nondestructive quantitative imaging for spatially nonuniform degradation in a commercial lithium-ion battery using a pulsed neutron beam. Applied Physics Express, 2022, 15, 027005.	2.4	2
96	3ï¼Žä¸æ€§åå›žæŠ˜æ³•ã‚’ç”¨ã„ãŸãƒªãƒã‚¦ãƒ ã‚¤ã‚ªãƒ³é›»æ±ç•Œé¢ã®å‹•çš„è§£æž• Electrochemistry, 2016, 84, 534-539.	1.4	1
97	The investigation of magnetic phase transition in cobaltite perovskites by high-resolution neutron powder diffraction under 14ÂT magnetic field. Physica B: Condensed Matter, 2018, 551, 111-114.	2.7	1
98	Application of the J-PARC Neutron Beam to the Transmission Measurement for a Li Ion Battery during Charge and Discharge. , 2015, , .		1
99	Crystal Structure Refinements Using Powder Diffraction Data for New Solid-State Electrolytes. Nihon Kessho Gakkaishi, 2015, 57, 79-86.	0.0	0
100	Visualization of Structures and Li-Ion Conduction Pathways in the Li₂S-P₂S₅ System Using Neutron Scattering. Nihon Kessho Gakkaishi, 2017, 59, 230-237.	0.0	0
101	Li 2 NbO 3 â€"Li 2 MnO 3 Pseudoâ€Binary Compounds Crystallizing into Distorted Rocksalt Structures. Physica Status Solidi (B): Basic Research, 2019, 256, 1900003.	1.5	0
102	Neutron Powder Diffractometers in J-PARC and Its Impact for Materials Science or Materials Developing. Nihon Kessho Gakkaishi, 2008, 50, 18-23.	0.0	0
103	Development of Automatic Sample Exchange and Transfer System in iMATERIA. Hamon, 2013, 23, 204-209.	0.0	0
104	Powder Diffractometer in J-PARC. Hamon, 2015, 25, 60-66.	0.0	0
105	Crystal structure, ionic conductivity and lithium-ion diffusion pathway in a Laâ€"Liâ€"Coâ€"O system. Journal of the Ceramic Society of Japan, 2020, 128, 453-456.	1.1	0