Tetsuhiro Katsumata

List of Publications by Year
in descending order

67	2,121	209248	232741
papers	citations	26 h-index	45 g-index

76	76	76	2409
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A Polar Oxide ZnSnO₃ with a LiNbO₃-Type Structure. Journal of the American Chemical Society, 2008, 130, 6704-6705.	14.6	272
2	Tuning the orthorhombicâ€“rhombohedral phase transition temperature in sodium potassium niobate by incorporating barium zirconate. Physica Status Solidi - Rapid Research Letters, 2009, 3, 142-144.	2.5	135
3	Crystal Structure of a Lithium Ion-Conducting Perovskite La2/3â^'xLi3xTiO3 (x=0.05). Journal of Solid State Chemistry, 2002, 166, 67-72.	3.0	125
4	High-pressure synthesis and ferroelectric properties in perovskite-type BiScO3â€“PbTiO3 solid solution. Journal of Applied Physics, 2004, 95, 231-235.	2.3	104
5	Synthesis, Structural Transformation, Thermal Stability, Valence State, and Magnetic and Electronic Properties of PbNiO₃ with Perovskite- and LiNbO₃-Type Structures. Journal of the American Chemical Society, 2011, 133, 16920-16929.	14.6	103
6	Lowâ€Ðrivingâ€Voltage Electroluminescence in Perovskite Films. Advanced Materials, 2009, 21, 3699-3702.	24.3	99
7	Structural investigations of migration pathways in lithium ion-conducting La2/3â^'xLi3xTiO3 perovskites. Solid State Ionics, 2006, 177, 3037-3044.	2.9	83
8	High-Pressure Synthesis and Correlation between Structure, Magnetic, and Dielectric Properties in LiNbO₃-Type MnMO₃ (M = Ti, Sn). Inorganic Chemistry, 2011, 50, 6392-6398.	4.2	78
9	Low-Temperature-Processed Brookite-Based TiO₂ Heterophase Junction Enhances Performance of Planar Perovskite Solar Cells. Nano Letters, 2019, 19, 598-604.	9.5	65
10	Structure and MÃ¶ssbauer Studies of Fâ^'O Ordering in Antiferromagnetic Perovskite PbFeO2F. Chemistry of Materials, 2005, 17, 1386-1390.	7.1	63
11	Influence of Covalent Character on High Li Ion Conductivity in a Perovskite-Type Li Ion Conductor:Â Prediction from a Molecular Dynamics Simulation of La0.6Li0.2TiO3. Chemistry of Materials, 2002, 14, 3930-3936.	7.1	57
12	Firstâ€Principles Studies on Novel Polar Oxide ZnSnO₃; Pressureâ€Induced Phase Transition and Electric Properties. Advanced Materials, 2010, 22, 2579-2582.	24.3	53
13	Synthesis and Magnetic and Charge-Transport Properties of the Correlated 4d Post-Perovskite CaRhO₃. Journal of the American Chemical Society, 2009, 131, 2722-2726.	14.6	48
14	High Pressure Synthesis, Lattice Distortion, and Dielectric Properties of a Perovskite Bi(Ni 1/2 Ti 1/2)O 3. Ferroelectrics, 2003, 286, 111-117.	0.6	47
15	High-Pressure Synthesis, Structure, and Characterization of a Post-perovskite CaPtO₃ with CaIrO₃-Type Structure. Inorganic Chemistry, 2008, 47, 1868-1870.	4.2	45
16	Lithium Ion Conductivity in a Perovskite Lanthanum Lithium Titanate Single Crystal. Journal of the Ceramic Society of Japan, 1997, 105, 548-550.	1.3	44
17	Dielectric properties of a polar ZnSnO3 with LiNbO3-type structure. Journal of Solid State Chemistry, 2012, 195, 115-119.	3.0	44
18	An Approach to Control of Band Gap Energy and Photoluminescence upon Band Gap Excitation in Pr³⁺-Doped Perovskites La_{1/3}MO₃ (M = Nb, Ta):Pr³⁺. Inorganic Chemistry, 2011, 50, 5389-5395.	4.2	43

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19	Compact TiO₂/Anatase TiO₂ Single-Crystalline Nanoparticle Electron-Transport Bilayer for Efficient Planar Perovskite Solar Cells. ACS Sustainable Chemistry and Engineering, 2018, 6, 12070-12078.	6.9	41
20	Systematic study of photoluminescence upon band gap excitation in perovskite-type titanates R1/2Na1/2TiO3:Pr (R=La, Gd, Lu, and Y). Journal of Solid State Chemistry, 2007, 180, 1678-1685.	3.0	38
21	Synthesis of the novel perovskite-type oxyfluoride PbScO2F under high pressure and high temperature. Journal of Solid State Chemistry, 2008, 181, 2737-2740.	3.0	38
22	Temperature dependence of luminescence properties of praseodymium-doped perovskite CaTiO3:Pr3+. Thermochimica Acta, 2012, 532, 168-171.	2.7	33
23	Influence of site percolation and local distortion on lithium ion conductivity in perovskite-type oxides La0.55Li0.35 â^' xKxTiO3 and La0.55Li0.35TiO3-KMO3 (M = Nb and Ta). Solid State Ionics, 1996, 86-88, 165-169.	2.9	31
24	Molecular Dynamics Simulation of the High Lithium Ion Conductor, La0.6i0.2TiO3.. Journal of the Ceramic Society of Japan, 1999, 107, 615-621.	1.3	29
25	High-pressure synthesis of novel lithium niobate-type oxides. Journal of Physics: Conference Series, 2010, 215, 012131.	0.4	29
26	Photoluminescence of Praseodymium-Doped Srn+1TinO3n+1(n=1, 2, â^ž). Japanese Journal of Applied Physics, 2005, 44, 761-764.	1.6	27
27	Occupation site of Pr and luminescent properties in Pr-doped perovskite-type lithium ion-conducting oxides, A0.6Li0.3Ti0.5Ta0.5O3: Pr (A = Ca and Sr). Solid State Ionics, 2008, 179, 788-792.	2.9	26
28	High-Pressure Synthesis, Crystal Structure, Chemical Bonding, and Ferroelectricity of LiNbO₃-Type LiSbO₃. Inorganic Chemistry, 2018, 57, 15462-15473.	4.2	24
29	Molecular dynamics simulation in SrTiO3. Solid State Ionics, 1998, 108, 175-178.	2.9	22
30	Microstructural analysis of La2/3â^'Li3TiO3 single crystals and quenched samples observed by high resolution transmission electron microscopy. Solid State Ionics, 2009, 180, 607-611.	2.9	22
31	Long-Range Antiferromagnetic Ordering in the Novel Magnetically Frustrated Rock Salt Oxide System: Li₃Mg₂RuO₆. Chemistry of Materials, 2008, 20, 5714-5720.	7.1	21
32	Synthesis and lithium ion conductivity of cubic deficient perovskites SrLi?TiTaO and the La-doped compounds. Solid State Ionics, 2004, 174, 19-26.	2.9	18
33	Synthesis and dielectric properties of a perovskite Bi1/2Ag1/2TiO3. Ferroelectrics, 2001, 264, 127-132.	0.6	17
34	High-Pressure Synthesis, Crystal and Electronic Structures, and Transport Properties of a Novel Perovskite HgSnO₃. Inorganic Chemistry, 2008, 47, 6296-6302.	4.2	17
35	Synthesis, Structure and Ionic Conductivity of Garnet Like Lithium Ion Conductor Li_{6.25+}_xGa_{0.25}La₃₋_xSr_xZr₂ Journal of the Electrochemical Society, 2019, 166, A5168-A5173.		
36	Synthesis of New Perovskite-Type Oxyfluoride, PbMnO2F. Bulletin of the Chemical Society of Japan, 2012, 85, 397-399.	3.3	16

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37	New perovskite-type lithium ion conductors, LaxMyLi1â˜’3xâ˜’yNbO3 (M=Ag and Na). Solid State Ionics, 1998, 113-115, 465-469.	2.9	14
38	Structure and dielectric properties of high-pressure perovskite-type oxyfluorides xKTiO2Fâ€“(1â˜’x)BaTiO3. Journal of Applied Physics, 2008, 104, 044101.	2.3	14
39	Synthesis of new perovskite-type oxyfluorides, BaInO2F and comparison of the structure among perovskite-type oxyfluorides. Journal of Solid State Chemistry, 2019, 279, 120919.	3.0	11
40	High-pressure synthesis and characterization of a novel perovskite PbFe1/2V1/2O3. Journal of the Ceramic Society of Japan, 2009, 117, 102-105.	1.3	10
41	High-Pressure Synthesis, Structure, Dielectric and Magnetic Properties for SrCu₃Ti₄O₁₂. Ferroelectrics, 2011, 414, 180-189.	0.6	10
42	Synthesis and examination of GdNb1-W O4+ new scheelite-type oxide-ion conductor. Solid State Ionics, 2020, 355, 115415.	2.9	9
43	M/Li+(M=Mg2+, Zn2+, and Mn2+) ion-exchange on lithium ion-conducting perovskite-type oxides and their properties. Solid State Ionics, 2006, 177, 2705-2709.	2.9	8
44	Predominant Factor of Activation Energy for Ionic Conductivity in Perovskite-Type Lithium Ion-Conducting Oxides. Journal of the Physical Society of Japan, 2010, 79, 69-71.	1.6	8
45	Lithium Ion Conductivity in A-site Deficient Perovskites Sr_{0.5}La_{0.05}Li_{0.35}â–¡_{0.1}Ti<sub>0.5 and Sr_{0.35}La_{0.15}Li_{0.35}â–¡_{0.l5}Ti<sub>0. Electrochemistry, 2000, 68, 534-536.	1.4	7
46	The relationship between Li ion conductivity and crystal structure for ordered perovskite compounds, (La2/3?1/3pLip)(Mg1/2W1/2)O3 (p=0.05, 0.11 and 0.14). Solid State Ionics, 2004, 171, 191-198.	2.9	7
47	Low-temperature formation of Pb2OF2 with O/F anion ordering by solid state reaction. Journal of Solid State Chemistry, 2019, 277, 363-367.	3.0	7
48	Synthesis of New LiNbO₃-type Oxynitrides, Mn(Mn_{1/6}Ta_{5/6})O_{2.5}N_{0.5} under High Pressure and at High Temperature. Chemistry Letters, 2018, 47, 37-39.	1.4	6
49	Synthesis and ionic conductivity of Li boracites, Li4B7O12Cl and Li4B4Al3O12Cl1-Br. Solid State Ionics, 2022, 380, 115921.	2.9	6
50	Synthesis and characterization of novel rocksalt-type oxynitrides, LiTinOxNy (n=1, 2, 3, 4 and 8). Solid State Communications, 2004, 132, 583-587.	1.9	4
51	Crystal and Magnetic Structures of High Pressure Perovskite-Type Oxyfluorides,PbFeO₂F and 0.5PbFeO₂F-0.5PbTiO₃ [Pb(Fe_{0.5}Ti_{0.5})O_{2.5}F_{0.5}]. Materials Research Society Symposia Proceedings, 2006, 988, 1.	0.1	4
52	Synthesis and adsorption ability of nanoparticles of perovskite oxynitride LaTiO2N. Journal of the Ceramic Society of Japan, 2009, 117, 1345-1348.	1.3	4
53	Phase transitions and dielectric properties of perovskite-type oxyfluorides (1-x)KNbO3-xKMgF3. Journal of Fluorine Chemistry, 2018, 209, 65-72.	1.7	4
54	Synthesis and Lattice Distortion of Ferroelectric/Antiferroelectric Bi(III)-containing Perovskites. Materials Research Society Symposia Proceedings, 2002, 755, 1.	0.1	3

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55	Mg2+Ion-exchange with the Li+Ion in a Fast Li Ion-conducting Perovskite La0.55Li0.35TiO3. Chemistry Letters, 2002, 31, 1106-1107.	1.4	2
56	High-Pressure Synthesis of Perovskite Related Compounds with Polar Structure and Their Functional Properties. Review of High Pressure Science and Technology/Koatsuryoku No Kagaku To Gijutsu, 2014, 24, 212-222.	0.0	2
57	Nano-scale structural analysis of (La,Fe)TiO3 prepared by Fe/Li ion-exchange. Solid State Communications, 2007, 142, 45-48.	1.9	1
58	HREM and EDS analysis of (La, M)TiO3 (M = Zn, Mn) prepared by M/Li ion exchange. Journal of Electron Microscopy, 2009, 58, 349-355.	1.0	1
59	High-Pressure Synthesis of CuBa₂Ca₃Cu₄O_{10+Î´} Superconductor from Precursors Prepared by a Polymerized Complex Method. Japanese Journal of Applied Physics, 2011, 50, 01BE15.	1.6	1
60	Synthesis, structure and ionic conductivities of novel Li-ion conductor A3Li Ta6â‘Zr Si4O26 (A= Sr and) Tj ETQq0 0 0 rgBT /Overlock 10	2.9	1
61	Efficient Planar Perovskite Solar Cells with Entire Low-Temperature Processes via Brookite TiO₂ Nanoparticle Electron Transport Layer. , 2019, , .		1
62	Development of flexible perovskite solar cells by the low-temperature fabrication of TiO₂ electron transport layers. Journal of Advanced Science, 2020, 32, n/a.	0.1	1
63	Optimization of Brookite TiO₂ NPs Solution for Preparing the Electron Transport Layer of Flexible Perovskite Solar Cells. Journal of Advanced Science, 2022, 34, n/a.	0.1	1
64	Discussion about non-Arrhenius behavior of high Li-ion conductor, (La,Li)TiO3. Materials Research Society Symposia Proceedings, 2002, 756, 1.	0.1	0
65	Highly Efficient Planar Perovskite Solar Cells Exploiting a Compact TiO<inf>2</inf>/Anatase TiO<inf>2</inf> Single Crystalline Nanoparticles Electron Transport Bilayer. , 2018, , .		0
66	High-Pressure Synthesis and Structures of Perovskite-Type Oxyfluorides. Review of High Pressure Science and Technology/Koatsuryoku No Kagaku To Gijutsu, 2018, 28, 193-205.	0.0	0
67	Existence of Local Polar Domains in Perovskite Oxyfluoride, BaFeO₂F. Chemistry of Materials, 2024, 36, 3697-3704.	7.1	0