Takahiro Kozawa

List of Publications by Year
in descending order

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66	805	516215 16	610482 24
papers	citations	h-index	g-index

68	68	68	702
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Monoclinic Li2TiO3 nano-particles via hydrothermal reaction: Processing and structure. Ceramics International, 2014, 40, 1901-1908.	2.3	61
2	Influence of LiBO2 addition on the microstructure and lithium-ion conductivity of Li1+xAlxTi2â^'x(PO4)3(x = 0.3) ceramic electrolyte. Ceramics International, 2018, 44, 6558-6563.	2.3	56
3	Effect of water vapor on the thermal decomposition process of zinc hydroxide chloride and crystal growth of zinc oxide. Journal of Solid State Chemistry, 2011, 184, 589-596.	1.4	36
4	Surface modification of Li1.3Al0.3Ti1.7(PO4)3 ceramic electrolyte by Al2O3-doped ZnO coating to enable dendrites-free all-solid-state lithium-metal batteries. Ceramics International, 2019, 45, 14663-14668.	2.3	32
5	Accelerated formation of barium titanate by solid-state reaction in water vapour atmosphere. Journal of the European Ceramic Society, 2009, 29, 3259-3264.	2.8	31
6	A novel decomposition technique of friable asbestos by CHClF2-decomposed acidic gas. Journal of Hazardous Materials, 2009, 163, 593-599.	6.5	30
7	One-step mechanical synthesis of LiFePO 4 /C composite granule under ambient atmosphere. Ceramics International, 2014, 40, 16127-16131.	2.3	30
8	Effect of fumed silica properties on the thermal insulation performance of fibrous compact. Ceramics International, 2015, 41, 9966-9971.	2.3	26
9	Rapid synthesis of LiNi0.5Mn1.5O4 by mechanical process and post-annealing. Materials Letters, 2014, 132, 218-220.	1.3	25
10	One-pot mechanical synthesis of the nanocomposite granule of LiCoO2 nanoparticles. Advanced Powder Technology, 2014, 25, 1280-1284.	2.0	20
11	LSCFâ€“GDC composite particles for solid oxide fuel cells cathodes prepared by facile mechanical method. Advanced Powder Technology, 2016, 27, 646-651.	2.0	20
12	Mechanically induced formation of metastable Ï‡- and Î¹-Al2O3 from boehmite. Advanced Powder Technology, 2016, 27, 935-939.	2.0	19
13	Thermal decomposition of chrysotile-containing wastes in a water vapor atmosphere. Journal of the Ceramic Society of Japan, 2010, 118, 1199-1201.	0.5	18
14	Lattice deformation of LiNi0.5Mn1.5O4 spinel cathode for Li-ion batteries by ball milling. Journal of Power Sources, 2019, 419, 52-57.	4.0	18
15	Effect of ball collision direction on a wet mechanochemical reaction. Scientific Reports, 2021, 11, 210.	1.6	18
16	Mechanochemical-hydrothermal synthesis of layered lithium titanate hydrate nanotubes at room temperature and their conversion to Li 4 Ti 5 O 12. Materials Research Bulletin, 2017, 90, 218-223.	2.7	17
17	Wet Mechanical Route To Synthesize Morphology-Controlled NH₄MnPO₄Â·H₂O and Its Conversion Reaction into LiMnPO₄. ACS Omega, 2019, 4, 5690-5695.	1.6	17
18	Insertion of lattice strains into ordered LiNi0.5Mn1.5O4 spinel by mechanical stress: A comparison of perfect versus imperfect structures as a cathode for Li-ion batteries. Journal of Power Sources, 2016, 320, 120-126.	4.0	16

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19	Wet milling synthesis of NH4CoPO4Â·H2O platelets: Formation reaction, growth mechanism, and conversion into high-voltage LiCoPO4 cathode for Li-ion batteries. Materials Research Bulletin, 2021, 135, 111149.	2.7	16
20	Preparation of LiCoO2/Li1.3Al0.3Ti1.7(PO4)3 composite cathode granule for all-solid-state lithium-ion batteries by simple mechanical method. Advanced Powder Technology, 2016, 27, 825-829.	2.0	15
21	Development of graphene aerogels with high strength and ultrahigh adsorption capacity for gas purification. Materials and Design, 2021, 208, 109903.	3.3	15
22	Facile preparation of porous LiFePO4/C composite granules by mechanical process. Materials Chemistry and Physics, 2015, 155, 246-251.	2.0	14
23	Effect of carbon addition on one-step mechanical synthesis of LiCoPO 4 /C composite granules and their powder characteristics. Ceramics International, 2017, 43, 938-943.	2.3	14
24	Preparation of alkaline-earth titanates by accelerated solid-state reaction in water vapor atmosphere. Journal of the European Ceramic Society, 2010, 30, 3435-3443.	2.8	13
25	Preparation of Î²-CaSiO₃ powder by water vapor-assisted solid-state reaction. Journal of the Ceramic Society of Japan, 2013, 121, 103-105.	0.5	13
26	Water vapor-assisted solid-state reaction for the synthesis of nanocrystalline BaZrO₃ powder. Journal of the Ceramic Society of Japan, 2013, 121, 308-312.	0.5	13
27	One-pot Mechanical Synthesis of LiCoO2 from Li2O Powder. Journal of the Society of Powder Technology, Japan, 2014, 51, 131-135.	0.0	13
28	Growth behavior of LiMn2O4 particles formed by solid-state reactions in air and water vapor. Journal of Solid State Chemistry, 2016, 243, 241-246.	1.4	12
29	Effect of flux powder addition on the synthesis of YAG phosphor by mechanical method. Advanced Powder Technology, 2018, 29, 457-461.	2.0	11
30	Facile preparation of core@shell and concentration-gradient spinel particles for Li-ion battery cathode materials. Science and Technology of Advanced Materials, 2015, 16, 015006.	2.8	10
31	Effect of BaF2 powder addition on the synthesis of YAG phosphor by mechanical method. Advanced Powder Technology, 2017, 28, 50-54.	2.0	10
32	Bulk-type all-solid-state batteries with mechanically prepared LiCoPO4 composite cathodes. Journal of Solid State Electrochemistry, 2019, 23, 1297-1302.	1.2	10
33	Fabrication of an LiMn₂O₄@LiMnPO₄ composite cathode for improved cycling performance at high temperatures. Journal of Asian Ceramic Societies, 2020, 8, 309-317.	1.0	10
34	Accelerated Formation of Î²-Dicalcium Silicate by Solid-state Reaction in Water Vapor Atmosphere. Chemistry Letters, 2009, 38, 476-477.	0.7	8
35	Scalable synthesis of Sr3Al2(OH)12 hydrogarnet by wet milling and its thermal decomposition behavior. Materials Chemistry and Physics, 2018, 212, 245-251.	2.0	8
36	Combined wet milling and heat treatment in water vapor for producing amorphous to crystalline ultrafine Li_{1.3}Al_{0.3}Ti_{1.7}(PO₄)₃ solid electrolyte particles. RSC Advances, 2021, 11, 14796-14804.	1.7	8

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37	Fabrication and modelling of Si3N4 ceramics with radial grain alignment generated through centripetal sinter-forging. Journal of Materials Science and Technology, 2022, 126, 1-14.	5.6	8
38	Carbon nanoparticle-entrapped macroporous Mn3O4 microsphere anodes with improved cycling stability for Li-ion batteries. Scientific Reports, 2022, 12, .	1.6	8
39	Low temperature synthesis of YAG:Ce3+ phosphor by mechanical method. Advanced Powder Technology, 2016, 27, 886-890.	2.0	7
40	Preparation of Macroporous Mn₃O₄ Microspheres via Thermal Decomposition in Water Vapor. ChemistrySelect, 2018, 3, 1419-1423.	0.7	7
41	Effect of mechanical processing on thermal and mechanical properties of fibrous fumed alumina compacts. Journal of Asian Ceramic Societies, 2018, 6, 156-161.	1.0	7
42	Macroporous Mn3O4 microspheres as a conversion-type anode material morphology for Li-ion batteries. Journal of Solid State Electrochemistry, 2020, 24, 1283-1290.	1.2	7
43	Hydrothermal conversion of Mg2TiO4 into brookite-type TiO2 under mild conditions. Journal of Materials Science, 2013, 48, 7969-7973.	1.7	6
44	Low-temperature synthesis of LiNi0.5Mn1.5O4 grains using a water vapor-assisted solid-state reaction. Journal of Solid State Chemistry, 2018, 263, 94-99.	1.4	6
45	Low temperature synthesis of Ga-doped Li7 La3 Zr2 O12 garnet-type solid electrolyte by mechanical method. Advanced Powder Technology, 2021, 32, 3860-3868.	2.0	6
46	Effect of hydrophobic nano-silica on the thermal insulation of fibrous silica compacts. Journal of Asian Ceramic Societies, 2017, 5, 118-122.	1.0	5
47	The Synthesis of YAG:Ce³⁺ Phosphor by Mechanical Method. Journal of the Society of Powder Technology, Japan, 2017, 54, 32-36.	0.0	4
48	Solutionâ€Based Approach for the Continuous Fabrication of Thin Lithiumâ€Ion Battery Electrodes by Wet Mechanochemical Synthesis and Electrophoretic Deposition. Advanced Engineering Materials, 2021, 23, 2100524.	1.6	4
49	Correlation between Grinding Results in a Tumbling Ball Mill with Liquid Media and the Analysis of Ball Motions Using DEM Simulation. Journal of the Society of Powder Technology, Japan, 2019, 56, 148-155.	0.0	4
50	Grain growth of titania to submillimeter sizes using water vapor-assisted sintering. Journal of Materials Research, 2019, 34, 474-480.	1.2	3
51	Rapid synthesis of YAG phosphor by facile mechanical method. International Journal of Applied Ceramic Technology, 2022, 19, 681-687.	1.1	3
52	Relationship between Grinding Results in a Planetary Ball Mill with Liquid Media and the Distribution of Ball Impact Energy Calculated by DEM Simulation. Journal of the Society of Powder Technology, Japan, 2020, 57, 176-183.	0.0	3
53	Mechanical Synthesis and Formation Mechanism of LiNi_{0.5}Mn_{1.5}O₄ Granules Consisting of Nanoparticles. Journal of the Society of Powder Technology, Japan, 2016, 53, 636-641.	0.0	2
54	Strengthening bioceramic through an approach of powder processing. Advanced Powder Technology, 2020, 31, 4180-4186.	2.0	2

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55	Correlation between Grinding Results in a Tumbling Ball Mill with Liquid Media and the Distribution of Ball Impact Energy Calculated by DEM Simulation. Journal of the Society of Powder Technology, Japan, 2019, 56, 608-614.	0.0	2
56	Microstructure Control of Composite Porous Materials and its Application. Funtai Oyobi Fummatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy, 2013, 60, 516-522.	0.1	1
57	Effect of Heating Temperature on the Battery Performances of LiCoO₂ Granules Synthesized by Mechanical Method. Journal of the Society of Powder Technology, Japan, 2015, 52, 634-640.	0.0	1
58	Mechanical Synthesis of LiNi_{0.5}Mn_{1.5}O₄ Cathode Powders by Using Composite Precursor Particles. Journal of the Society of Powder Technology, Japan, 2016, 53, 774-778.	0.0	1
59	Mechano-chemical synthesis of ammonia and acetic acid from inorganic materials in water. Green Processing and Synthesis, 2019, 8, 223-229.	1.3	1
60	Particle Design and Mechanical Synthesis of Cathode Materials for Lithium-Ion Batteries. Journal of the Society of Powder Technology, Japan, 2015, 52, 600-605.	0.0	1
61	Microstructural development of MnCO3 microsphere compacts through hydrothermal hot-pressing. Journal of the European Ceramic Society, 2022, 42, 1530-1536.	2.8	1
62	Smart Powder Processing for Excellent Advanced Materials and Its Applications. KONA Powder and Particle Journal, 2023, 40, 14-28.	0.9	1
63	Effect of Heat Processing on the Thermal and Mechanical Properties of Fibrous Fumed Alumina Compacts. Journal of the Society of Powder Technology, Japan, 2021, 58, 596-602.	0.0	1
64	Accelerated Solid-State Synthesis of Complex Oxides by Water Vapor —A New Proposal for Green Processing—. Materia Japan, 2015, 54, 466-470.	0.1	0
65	Improvement of Lithium-Ion Battery Performances by Controlling Nanocomposite Structure. , 2018, , 551-557.		0
66	Evaluation of YAG:Ce³⁺ Phosphor Properties Synthesized by Mechanical Method. Journal of the Society of Powder Technology, Japan, 2019, 56, 142-147.	0.0	0