Genki Saito

List of Publications by Year in descending order

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55 papers	1,377 citations	361413 20 h-index	345221 36 g-index
55 all docs	55 docs citations	55 times ranked	1420 citing authors

#	Article	IF	Citations
1	Microencapsulation of Metal-based Phase Change Material for High-temperature Thermal Energy Storage. Scientific Reports, 2015, 5, 9117.	3.3	154
2	Microencapsulated phase change materials with high heat capacity and high cyclic durability for high-temperature thermal energy storage and transportation. Applied Energy, 2017, 188, 9-18.	10.1	148
3	Nanomaterial Synthesis Using Plasma Generation in Liquid. Journal of Nanomaterials, 2015, 2015, 1-21.	2.7	137
4	Synthesis of copper/copper oxide nanoparticles by solution plasma. Journal of Applied Physics, 2011, 110, .	2.5	71
5	Development of a microencapsulated Alâ€“Si phase change material with high-temperature thermal stability and durability over 3000 cycles. Journal of Materials Chemistry A, 2018, 6, 18143-18153.	10.3	63
6	A new CaCO3-template method to synthesize nanoporous manganese oxide hollow structures and their transformation to high-performance LiMn2O4 cathodes for lithium-ion batteries. Journal of Materials Chemistry A, 2013, 1, 7077.	10.3	58
7	Solution combustion synthesis of LiMn2O4 fine powders for lithium ion batteries. Advanced Powder Technology, 2014, 25, 342-347.	4.1	49
8	Improved electrochemical performance of LiMn2O4 surface-modified by a Mn4+-rich phase for rechargeable lithium-ion batteries. Electrochimica Acta, 2016, 209, 225-234.	5.2	46
9	Microencapsulation of eutectic and hyper-eutectic Al-Si alloy as phase change materials for high-temperature thermal energy storage. Solar Energy Materials and Solar Cells, 2018, 187, 255-262.	6.2	45
10	Glycine/sucrose-based solution combustion synthesis of high-purity LiMn2O4 with improved yield as cathode materials for lithium-ion batteries. Advanced Powder Technology, 2015, 26, 665-671.	4.1	34
11	Solution plasma synthesis of bimetallic nanoparticles. Nanotechnology, 2014, 25, 135603.	2.6	31
12	Enhanced cycling performance of surface-doped LiMn2O4 modified by a Li2CuO2-Li2NiO2 solid solution for rechargeable lithium-ion batteries. Electrochimica Acta, 2017, 224, 71-79.	5.2	26
13	Influence of Solution Temperature and Surfactants on Morphologies of Tin Oxide Produced Using a Solution Plasma Technique. Crystal Growth and Design, 2012, 12, 2455-2459.	3.0	25
14	Porous Ore Structure and Deposited Carbon Type during Integrated Pyrolysisâ€“Tar Decomposition. Energy & Fuels, 2014, 28, 2129-2134.	5.1	25
15	Improved electrochemical properties of LiMn₂O₄ with the Bi and La co-doping for lithium-ion batteries. RSC Advances, 2015, 5, 73315-73322.	3.6	24
16	Surfactant-assisted synthesis of Sn nanoparticles via solution plasma technique. Advanced Powder Technology, 2014, 25, 728-732.	4.1	23
17	Glycineâ€“nitrate-based solution-combustion synthesis of SrTiO3. Journal of Alloys and Compounds, 2015, 652, 496-502.	5.5	23
18	Size-Controlled Ni Nanoparticles Formation by Solution Glow Discharge. Journal of the Physical Society of Japan, 2010, 79, 083501.	1.6	21

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19	Excitation temperature of a solution plasma during nanoparticle synthesis. Journal of Applied Physics, 2014, 116, 083301.	2.5	21
20	A facile solution combustion synthesis of nanosized amorphous iron oxide incorporated in a carbon matrix for use as a high-performance lithium ion battery anode material. Journal of Alloys and Compounds, 2015, 633, 424-429.	5.5	21
21	Generation of solution plasma over a large electrode surface area. Journal of Applied Physics, 2015, 118, .	2.5	21
22	A New Route to Synthesize Î²-SiAlON:Eu2+Phosphors for White Light-Emitting Diodes. Applied Physics Express, 2013, 6, 042105.	2.4	20
23	Synthesis of nonstoichiometric titanium oxide nanoparticles using discharge in HCl solution. Journal of Applied Physics, 2014, 115, .	2.5	20
24	Solution plasma synthesis of Si nanoparticles. Nanotechnology, 2015, 26, 235602.	2.6	18
25	Formation of Different Si₃N₄ Nanostructures by Salt-Assisted Nitridation. ACS Applied Materials & Interfaces, 2018, 10, 11852-11861.	8.0	18
26	Effects of Al particle size and nitrogen pressure on AlN combustion synthesis. Ceramics International, 2017, 43, 9872-9876.	4.8	17
27	Optimization of the Dehydration Temperature of Goethite to Control Pore Morphology. ISIJ International, 2016, 56, 1598-1605.	1.4	15
28	Combustion synthesis of YAG:Ce phosphors via the thermite reaction of aluminum. Journal of Rare Earths, 2018, 36, 248-256.	4.8	14
29	Solution-Plasma-Mediated Synthesis of Si Nanoparticles for Anode Material of Lithium-Ion Batteries. Nanomaterials, 2018, 8, 286.	4.1	14
30	High-speed camera observation of solution plasma during nanoparticles formation. Applied Physics Letters, 2014, 104, 083104.	3.3	13
31	Three-dimensional analysis of Eu dopant atoms in Ca-Î±-SiAlON via through-focus HAADF-STEM imaging. Ultramicroscopy, 2017, 175, 97-104.	1.9	13
32	Effects of Fine Precipitates on Austenite Grain Refinement of Micro-alloyed Steel during Cyclic Heat Treatment. ISIJ International, 2019, 59, 2098-2104.	1.4	13
33	Surface morphology of a glow discharge electrode in a solution. Journal of Applied Physics, 2012, 112, .	2.5	12
34	MnO nanocrystals incorporated in a N-containing carbon matrix for Li ion battery anodes. RSC Advances, 2016, 6, 30445-30453.	3.6	12
35	Atomic and Local Electronic Structures of Ca₂AlMnO_{5+Î´} as an Oxygen Storage Material. Chemistry of Materials, 2017, 29, 648-655.	6.7	12
36	Salt-assisted combustion synthesis of Ca-Î±-SiAlON:Eu2+ phosphors. Journal of Alloys and Compounds, 2016, 681, 22-27.	5.5	11

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37	Ripple formation on a nickel electrode during a glow discharge in a solution. Applied Physics Letters, 2012, 100, 181601.	3.3	10
38	Solution combustion synthesis of porous Snâ€“C composite as anode material for lithium ion batteries. Advanced Powder Technology, 2016, 27, 1730-1737.	4.1	10
39	Limonitic Laterite Ore as a Catalyst for the Dry Reforming of Methane. Energy & Fuels, 2016, 30, 8457-8462.	5.1	8
40	Twin formation in hematite during dehydration of goethite. Physics and Chemistry of Minerals, 2016, 43, 749-757.	0.8	8
41	Combustion synthesis of Ca-Î±-SiAlON:Eu2+ phosphors with different Ca concentrations and diluent ratios. Ceramics International, 2017, 43, 12396-12401.	4.8	7
42	Combustion synthesis of AlN doped with carbon and oxygen. Journal of the American Ceramic Society, 2019, 102, 524-532.	3.8	7
43	Effects of Concentrations of Micro-alloying Elements and Hot-forging Temperature on Austenite Grain Structure Formed during Carburization of Case-hardening Steel. ISIJ International, 2020, 60, 2549-2557.	1.4	7
44	Sr-Doped Ca₂AlMnO_{5Â+ÂÎ´} for Energy-Saving Oxygen Separation Process. ACS Sustainable Chemistry and Engineering, 2021, 9, 9317-9326.	6.7	7
45	Estimating the dopant distribution in Ca-doped Î±-SiAlON: statistical HAADF-STEM analysis and large-scale atomic modeling. Microscopy (Oxford, England), 2016, 65, 400-406.	1.5	5
46	Sr substitution effects on atomic and local electronic structure of Ca₂AlMnO_{5+Î´}. Surface and Interface Analysis, 2019, 51, 65-69.	1.8	4
47	Effects of Cooling Rate after Hot Forging on Precipitation of Fine Particles during Subsequent Normalizing and Austenite Grain Growth during Carburization of Al- and Nb-microalloyed Case-hardening Steel. ISIJ International, 2021, 61, 1964-1970.	1.4	4
48	Austenite memory during reverse transformation of steels at different heating rates. Materialia, 2019, 7, 100409.	2.7	3
49	Crystalline Evaluation of Size-Controlled Silicon and Silicon Oxide Nanoparticles Produced by Solution Plasma Discharge. Materials Transactions, 2019, 60, 688-692.	1.2	3
50	In-situ observation of abnormal grain growth in a low-alloyed carbon steel using SEM-EBSD. Materialia, 2021, 15, 100985.	2.7	3
51	Faster Generation of Nanoporous Hematite Ore through Dehydration of Goethite under Vacuum Conditions. ISIJ International, 2021, 61, 493-497.	1.4	2
52	Synthesis of AlN particles via direct nitridation in a drop tube furnace. Journal of the Ceramic Society of Japan, 2019, 127, 810-817.	1.1	1
53	Estimating the Spatial Distribution of Ca Dopants in Î±-SiAlON by Statistical Analysis of HAADF-STEM Image. Materials Transactions, 2017, 58, 1341-1345.	1.2	0
54	Precipitation Behavior of Combined Precipitates in Carbon Steels. Materia Japan, 2021, 60, 486-491.	0.1	0

#	Article	IF	Citations
55	Solution Combustion Synthesis of Functional Powders. Journal of the Society of Powder Technology, Japan, 2019, 56, 267-271.	0.1	0