Daisuke Hojo

List of Publications by Year in descending order

57 papers	1,425 citations	471509 17 h-index	330143 37 g-index
58 all docs	58 docs citations	58 times ranked	2425 citing authors

#	Article	IF	Citations
1	Mixing and Solvent Effects on Kinetics of Supercritical Hydrothermal Synthesis: Reaction of Nickel Nitrate to Nickel Oxide. Journal of Physical Chemistry C, 2020, 124, 4772-4780.	3.1	9
2	Dispersion and rheology of nanofluids with various concentrations of organic modified nanoparticles: Modifier and solvent effects. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2019, 583, 123876.	4.7	12
3	Binary Nanoparticles Coassembly in Bioinspired Block Copolymer Films: A Stepwise Synthesis Approach Using Multifunctional Catechol Groups and Magneto-Optical Properties. ACS Applied Nano Materials, 2018, 1, 1666-1674.	5.0	9
4	Cooperation between holey graphene and NiMo alloy for hydrogen evolution in an acidic electrolyte. ACS Catalysis, 2018, 8, 3579-3586.	11.2	98
5	Supercritical Hydrothermal Synthesis of Nanoparticles. , 2018, , 683-689.		5
6	Exploring Stepâ€byâ€Step Assembly of Nanoparticle:Cytochrome Biohybrid Photoanodes. ChemElectroChem, 2017, 4, 1959-1968.	3.4	8
7	One-step Nanoporous Structure Formation Using NiO Nanoparticles: Pore Size Control and Pore Size Dependence of Hydrogen Evolution Reaction. Chemistry Letters, 2017, 46, 267-270.	1.3	8
8	Catecholâ€“TiO2 hybrids for photocatalytic H2 production and photocathode assembly. Chemical Communications, 2017, 53, 12638-12641.	4.1	43
9	Effect of Chemical Doping on Cathodic Performance of Bicontinuous Nanoporous Graphene for Liâ€O₂ Batteries. Advanced Energy Materials, 2016, 6, 1501870.	19.5	132
10	Electric Properties of Dirac Fermions Captured into 3D Nanoporous Graphene Networks. Advanced Materials, 2016, 28, 10304-10310.	21.0	47
11	Correlation between Chemical Dopants and Topological Defects in Catalytically Active Nanoporous Graphene. Advanced Materials, 2016, 28, 10644-10651.	21.0	110
12	Magneto-optical Kerr effect characterization of a uniform nanocrystalline Fe₃O₄ monolayer fabricated on a silicon substrate functionalized with catechol groups. Journal of Materials Chemistry C, 2016, 4, 1263-1270.	5.5	7
13	Tuning surface grafting density of CeO₂ nanocrystals with near- and supercritical solvent characteristics. Physical Chemistry Chemical Physics, 2016, 18, 1727-1734.	2.8	19
14	Kinetics study to identify reaction-controlled conditions for supercritical hydrothermal nanoparticle synthesis with flow-type reactors. Journal of Supercritical Fluids, 2016, 110, 161-166.	3.2	31
15	Study on Metal Oxide Nanostructures Using Scanning Electron Microscopy. Hyomen Kagaku, 2015, 36, 166-171.	0.0	0
16	A Decaheme Cytochrome as a Molecular Electron Conduit in Dyeâ€Sensitized Photoanodes. Advanced Functional Materials, 2015, 25, 2308-2315.	14.9	18
17	Green solvent for green materials: a supercritical hydrothermal method and shape-controlled synthesis of Cr-doped CeO ₂ nanoparticles. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2015, 373, 20150012.	3.4	17
18	Environmentally Benign Route for Nanomaterial Synthesis by Using SCW. , 2014, , 99-110.		2

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19	Hydrothermal synthesis of luminescent GdVO4:Eu nanoparticles with dispersibility in organic solvents. Journal of Nanoparticle Research, 2014, 16, 1.	1.9	8
20	Synthesis of monocarboxylic acid-modified CeO₂ nanoparticles using supercritical water. RSC Advances, 2014, 4, 49605-49613.	3.6	36
21	Chemically exfoliated ReS₂nanosheets. Nanoscale, 2014, 6, 12458-12462.	5.6	160
22	Nanoepitaxy of Anatase-type TiO₂ on CeO₂ Nanocubes Self-Assembled on a Si Substrate for Fabricating Well-Aligned Nanoscale Heterogeneous Interfaces. Crystal Growth and Design, 2014, 14, 4714-4720.	3.0	6
23	Surface forces between mica surfaces confining inorganic nanoparticle dispersions and frictional properties. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2014, 463, 70-77.	4.7	1
24	Hydrothermal Synthesis of Cerium Oxide Nanoassemblies through Coordination Programming with Amino Acids. Chemistry Letters, 2014, 43, 1343-1345.	1.3	11
25	Supercritical Hydrothermal Synthesis. , 2013, , 949-978.		5
26	Catalytic Cracking Reaction of Heavy Oil in the Presence of Cerium Oxide Nanoparticles in Supercritical Water. Energy & Fuels, 2013, 27, 4624-4631.	5.1	88
27	Hydrothermal synthesis of inorganicâ€“organic hybrid gadolinium hydroxide nanoclusters with controlled size and morphology. Dalton Transactions, 2013, 42, 16176.	3.3	16
28	Self-Assembly and Reassembly Phenomena of Organicâ€“Inorganic Hybrid Nanocrystals in Highly Ordered Nanocrystalline Multi/Monolayer. Japanese Journal of Applied Physics, 2013, 52, 110113.	1.5	4
29	Supercritical Hydrothermal Synthesis of Organic Modified Nanoparticles Towards Superhybrid Materials. Journal of the Adhesion Society of Japan, 2013, 49, 191-196.	0.0	0
30	Mechanistic study on the synthesis of one-dimensional yttrium aluminum garnet nanostructures under supercritical hydrothermal conditions in the presence of organic amines. CrystEngComm, 2012, 14, 6085.	2.6	9
31	Surfactant-Assisted Hydrothermal Synthesis of Water-Dispersible Hafnium Oxide Nanoparticles in Highly Alkaline Media. Crystal Growth and Design, 2012, 12, 5219-5226.	3.0	24
32	Supercritical Hydrothermal Synthesis of Nanoparticles for Hybrid Materials —Super Hybrid Materials through Organic Surface Modification—. Review of High Pressure Science and Technology/Koatsuryoku No Kagaku To Gijutsu, 2012, 22, 89-96.	0.0	2
33	Synthesis of shape-controlled and organic-hybridized hafnium oxide nanoparticles under sub- and supercritical hydrothermal conditions. Journal of Supercritical Fluids, 2012, 62, 190-196.	3.2	27
34	Synthesis and morphology control of surface functionalized nanoscale yttrium aluminum garnet particles via supercritical hydrothermal method. Progress in Crystal Growth and Characterization of Materials, 2012, 58, 43-50.	4.0	22
35	Supercritical hydrothermal synthesis of metallic cobalt nanoparticles and its thermodynamic analysis. Journal of Supercritical Fluids, 2011, 60, 113-120.	3.2	47
36	Oleic acid-enhanced dissolution of cellulose in high-temperature water. Research on Chemical Intermediates, 2011, 37, 415-419.	2.7	4

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37	Antifungal Textiles Formed Using Silver Deposition in Supercritical Carbon Dioxide. Journal of Materials Engineering and Performance, 2010, 19, 368-373.	2.5	42
38	Mass Analysis of Growth of Al₂O₃ Thin Films from Lowâ€Temperature Atomic Layer Deposition on Woven Cotton. Chemical Vapor Deposition, 2010, 16, 248-253.	1.3	3
39	Hybridisation of Sebacic Acid on the Surface of Î³-Alumina Nanoparticles in Sub- and Supercritical Water. Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences, 2010, 65, 1045-1050.	0.7	6
40	Fabrication of Two-Dimensional Structures of Metal Oxide Nanocrystals Using Si Substrate Modified with 3,4-Dihydroxyhydrocinnamic Acid. Chemistry of Materials, 2010, 22, 1862-1869.	6.7	14
41	Atomic Layer Deposition and Abrupt Wetting Transitions on Nonwoven Polypropylene and Woven Cotton Fabrics. Langmuir, 2010, 26, 2550-2558.	3.5	143
42	Low temperature metal oxide film deposition and reaction kinetics in supercritical carbon dioxide. Thin Solid Films, 2008, 516, 4997-5003.	1.8	32
43	Berreman effect in infrared absorption spectroscopy of ionic oxide coatings formed by atomic layer deposition on three-dimensional structures. Journal of Applied Physics, 2008, 104, 094314.	2.5	14
44	Conformal metal oxide coatings on nanotubes by direct low temperature metal-organic pyrolysis in supercritical carbon dioxide. Journal of Vacuum Science & Technology B, 2008, 26, 978.	1.3	8
45	Direct observation of two-dimensional growth at SiO2/Si(111) interface. Thin Solid Films, 2007, 515, 7892-7898.	1.8	16
46	Development of an Automated Vapor/Liquid Hybrid Deposition System to Form High-kDielectrics. Chemical Vapor Deposition, 2006, 12, 214-219.	1.3	0
47	Utilization of Si atomic steps for Cu nanowire fabrication. Science and Technology of Advanced Materials, 2005, 6, 667-670.	6.1	4
48	Growth of HfSiOxfilms by Vapor-Liquid Hybrid Deposition Utilizing Si(OC2H5)4/Hf(tOC4H9)4Multilayer Adsorption. Japanese Journal of Applied Physics, 2005, 44, L1433-L1435.	1.5	1
49	Well-behaved metalâ€“oxideâ€“semiconductor capacitor characteristics of hafnium silicate films deposited in an atomic layer deposition mode by vaporâ€“liquid hybrid deposition process. Applied Physics Letters, 2004, 84, 5097-5099.	3.3	13
50	Fabrication of Cu nanowires along atomic step edge lines on Si(111) substrates. Applied Surface Science, 2004, 237, 529-532.	6.1	10
51	Fabrication of Cu nanowires along atomic step edge lines on Si(111) substrates. Applied Surface Science, 2004, 237, 529-532.	6.1	5
52	Effect of SiO2Fence on Atomic Step Flow in Chemical Etching of Si Surface. Japanese Journal of Applied Physics, 2003, 42, L561-L563.	1.5	9
53	Topography Change Due to Multilayer Oxidation at SiO2/Si(111) Interfaces. Japanese Journal of Applied Physics, 2003, 42, 1903-1906.	1.5	13
54	Selective Growth of Cu Nanowires on Si(111) Substrates. Japanese Journal of Applied Physics, 2003, 42, L1210-L1212.	1.5	17

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55	Atomic Topography Change of SiO2/Si Interfaces during Thermal Oxidation. Japanese Journal of Applied Physics, 2002, 41, L505-L508.	1.5	7
56	Leakage current distribution in ultrathin oxide on silicon surface with step/terrace structures. Thin Solid Films, 2002, 414, 56-62.	1.8	4
57	SiO2Surface and SiO2/Si Interface Topography Change by Thermal Oxidation. Japanese Journal of Applied Physics, 2001, 40, 4763-4768.	1.5	18