Daisuke Hojo

List of Publications by Year in descending order

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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	Chemically exfoliated ReS₂nanosheets. Nanoscale, 2014, 6, 12458-12462.	5.6	160
2	Atomic Layer Deposition and Abrupt Wetting Transitions on Nonwoven Polypropylene and Woven Cotton Fabrics. Langmuir, 2010, 26, 2550-2558.	3.5	143
3	Effect of Chemical Doping on Cathodic Performance of Bicontinuous Nanoporous Graphene for Liâ€Ō₂ Batteries. Advanced Energy Materials, 2016, 6, 1501870.	19.5	132
4	Correlation between Chemical Dopants and Topological Defects in Catalytically Active Nanoporous Graphene. Advanced Materials, 2016, 28, 10644-10651.	21.0	110
5	Cooperation between holey graphene and NiMo alloy for hydrogen evolution in an acidic electrolyte. ACS Catalysis, 2018, 8, 3579-3586.	11.2	98
6	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
7	Supercritical hydrothermal synthesis of metallic cobalt nanoparticles and its thermodynamic analysis. Journal of Supercritical Fluids, 2011, 60, 113-120.	3.2	47
8	Electric Properties of Dirac Fermions Captured into 3D Nanoporous Graphene Networks. Advanced Materials, 2016, 28, 10304-10310.	21.0	47
9	Catecholâ€“TiO2 hybrids for photocatalytic H2 production and photocathode assembly. Chemical Communications, 2017, 53, 12638-12641.	4.1	43
10	Antifungal Textiles Formed Using Silver Deposition in Supercritical Carbon Dioxide. Journal of Materials Engineering and Performance, 2010, 19, 368-373.	2.5	42
11	Synthesis of monocarboxylic acid-modified CeO₂ nanoparticles using supercritical water. RSC Advances, 2014, 4, 49605-49613.	3.6	36
12	Low temperature metal oxide film deposition and reaction kinetics in supercritical carbon dioxide. Thin Solid Films, 2008, 516, 4997-5003.	1.8	32
13	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
14	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
15	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
16	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
17	Tuning surface grafting density of CeO₂ nanocrystals with near- and supercritical solvent characteristics. Physical Chemistry Chemical Physics, 2016, 18, 1727-1734.	2.8	19
18	SiO2Surface and SiO2/Si Interface Topography Change by Thermal Oxidation. Japanese Journal of Applied Physics, 2001, 40, 4763-4768.	1.5	18

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19	A Decaheme Cytochrome as a Molecular Electron Conduit in Dyeâ€Sensitized Photoanodes. Advanced Functional Materials, 2015, 25, 2308-2315.	14.9	18
20	Selective Growth of Cu Nanowires on Si(111) Substrates. Japanese Journal of Applied Physics, 2003, 42, L1210-L1212.	1.5	17
21	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
22	Direct observation of two-dimensional growth at SiO2/Si(111) interface. Thin Solid Films, 2007, 515, 7892-7898.	1.8	16
23	Hydrothermal synthesis of inorganicâ€“organic hybrid gadolinium hydroxide nanoclusters with controlled size and morphology. Dalton Transactions, 2013, 42, 16176.	3.3	16
24	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
25	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
26	Topography Change Due to Multilayer Oxidation at SiO2/Si(111) Interfaces. Japanese Journal of Applied Physics, 2003, 42, 1903-1906.	1.5	13
27	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
28	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
29	Hydrothermal Synthesis of Cerium Oxide Nanoassemblies through Coordination Programming with Amino Acids. Chemistry Letters, 2014, 43, 1343-1345.	1.3	11
30	Fabrication of Cu nanowires along atomic step edge lines on Si(111) substrates. Applied Surface Science, 2004, 237, 529-532.	6.1	10
31	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
32	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
33	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
34	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
35	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
36	Hydrothermal synthesis of luminescent GdVO4:Eu nanoparticles with dispersibility in organic solvents. Journal of Nanoparticle Research, 2014, 16, 1.	1.9	8

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37	Exploring Stepâ€byâ€Step Assembly of Nanoparticle:Cytochrome Biohybrid Photoanodes. ChemElectroChem, 2017, 4, 1959-1968.	3.4	8
38	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
39	Atomic Topography Change of SiO2/Si Interfaces during Thermal Oxidation. Japanese Journal of Applied Physics, 2002, 41, L505-L508.	1.5	7
40	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
41	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
42	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
43	Supercritical Hydrothermal Synthesis. , 2013, , 949-978.		5
44	Supercritical Hydrothermal Synthesis of Nanoparticles. , 2018, , 683-689.		5
45	Fabrication of Cu nanowires along atomic step edge lines on Si(111) substrates. Applied Surface Science, 2004, 237, 529-532.	6.1	5
46	Leakage current distribution in ultrathin oxide on silicon surface with step/terrace structures. Thin Solid Films, 2002, 414, 56-62.	1.8	4
47	Utilization of Si atomic steps for Cu nanowire fabrication. Science and Technology of Advanced Materials, 2005, 6, 667-670.	6.1	4
48	Oleic acid-enhanced dissolution of cellulose in high-temperature water. Research on Chemical Intermediates, 2011, 37, 415-419.	2.7	4
49	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
50	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
51	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
52	Environmentally Benign Route for Nanomaterial Synthesis by Using SCW. , 2014, , 99-110.		2
53	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
54	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

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55	Development of an Automated Vapor/Liquid Hybrid Deposition System to Form High-kDielectrics. Chemical Vapor Deposition, 2006, 12, 214-219.	1.3	0
56	Supercritical Hydrothermal Synthesis of Organic Modified Nanoparticles Towards Superhybrid Materials. Journal of the Adhesion Society of Japan, 2013, 49, 191-196.	0.0	0
57	Study on Metal Oxide Nanostructures Using Scanning Electron Microscopy. Hyomen Kagaku, 2015, 36, 166-171.	0.0	0