

Seiichi Takami

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4232057/publications.pdf>

Version: 2024-02-01

190
papers

4,794
citations

109137

35
h-index

123241

61
g-index

193
all docs

193
docs citations

193
times ranked

5225
citing authors

#	ARTICLE	IF	CITATIONS
1	Radiosensitization Effect of Gold Nanoparticles on Plasmid DNA Damage Induced by Therapeutic MV X-rays. <i>Nanomaterials</i> , 2022, 12, 771.	1.9	8
2	Curcumin-Loaded Liposome Preparation in Ultrasound Environment under Pressurized Carbon Dioxide. <i>Foods</i> , 2022, 11, 1469.	1.9	8
3	Atomistic origin of high-concentration Ce ³⁺ in {100}-faceted Cr-substituted CeO ₂ nanocrystals. <i>Acta Materialia</i> , 2021, 203, 116473.	3.8	18
4	One-step solvothermal synthesis and growth mechanism of well-crystallized $\text{In}_2\text{Ga}_2\text{O}_3$ nanoparticles in isopropanol. <i>CrystEngComm</i> , 2021, 23, 6567-6573.	1.3	2
5	Direct Observation Techniques Using Scanning Electron Microscope for Hydrothermally Synthesized Nanocrystals and Nanoclusters. <i>Nanomaterials</i> , 2021, 11, 908.	1.9	8
6	Shape controlled Hafnium oxide nanoparticles grafted with organic acid molecules synthesized in supercritical water. <i>Nano Structures Nano Objects</i> , 2020, 24, 100540.	1.9	1
7	In-situ visualization of heavy oil behavior in supercritical water using neutron radiography. <i>Chemical Engineering Science</i> , 2020, 225, 115816.	1.9	7
8	Highly Cr-Substituted CeO ₂ Nanoparticles Synthesized Using a Non-equilibrium Supercritical Hydrothermal Process: High Oxygen Storage Capacity Materials Designed for a Low-Temperature Bitumen Upgrading Process. <i>ACS Applied Energy Materials</i> , 2020, 3, 4305-4319.	2.5	16
9	Interconnected 3D Framework of CeO ₂ with High Oxygen Storage Capacity: High-Resolution Scanning Electron Microscopic Observation. <i>ACS Applied Nano Materials</i> , 2020, 3, 2346-2353.	2.4	12
10	Hydrothermal Synthesis of Organic Modified Metal Oxide Nanoparticles. <i>Materia Japan</i> , 2020, 59, 199-206.	0.1	2
11	Supercritical hydrothermal synthesis of highly crystalline lanthanum zirconate nanoparticles. <i>Journal of Supercritical Fluids</i> , 2019, 143, 134-138.	1.6	10
12	Dispersion and rheology of nanofluids with various concentrations of organic modified nanoparticles: Modifier and solvent effects. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2019, 583, 123876.	2.3	12
13	Formation dynamics of mesocrystals composed of organically modified CeO ₂ nanoparticles: analogy to a particle formation model. <i>CrystEngComm</i> , 2019, 21, 3836-3843.	1.3	14
14	Flow visualization of heavy oil in a packed bed using real-time neutron radiography. <i>Chemical Engineering Science</i> , 2019, 196, 425-432.	1.9	8
15	Numerical simulations of dispersion and aggregation behavior of surface-modified nanoparticles under shear flow. <i>Powder Technology</i> , 2019, 343, 113-121.	2.1	10
16	Fabrication of FeO-ZrO ₂ nanostructures for automotive three-way catalysts by supercritical hydrothermal synthesis with supercritical CO ₂ drying. <i>Journal of Supercritical Fluids</i> , 2019, 147, 302-309.	1.6	7
17	X-ray detection properties of plastic scintillators containing surface-modified Bi ₂ O ₃ nanoparticles. <i>Japanese Journal of Applied Physics</i> , 2018, 57, 052203.	0.8	22
18	Selective chemical recovery from biomass under hydrothermal conditions using metal oxide nanocatalyst. <i>Journal of Supercritical Fluids</i> , 2018, 133, 726-737.	1.6	11

#	ARTICLE	IF	CITATIONS
19	X-ray detection capabilities of plastic scintillators incorporated with hafnium oxide nanoparticles surface-modified with phenyl propionic acid. Japanese Journal of Applied Physics, 2018, 57, 012601.	0.8	20
20	Effect of Surface Modifier of Nanoparticles on Dewetting Behaviors of Polymer Nanocomposite Thin Films. Journal of Chemical Engineering of Japan, 2018, 51, 282-288.	0.3	3
21	Crack Formation in Polymer Nanocomposite Thin Films Containing Surface-Modified Nanoparticles during Solution Casting. Journal of Chemical Engineering of Japan, 2018, 51, 460-468.	0.3	4
22	Numerical Simulation of Dispersion and Aggregation Behavior of Surface-modified Nanoparticles in Organic Solvents. Journal of Chemical Engineering of Japan, 2018, 51, 492-500.	0.3	10
23	Cerium Valence State Distribution: Atomic-Scale Valence State Distribution inside Ultrafine CeO ₂ Nanocubes and Its Size Dependence (Small 42/2018). Small, 2018, 14, 1870195.	5.2	0
24	Atomic-Scale Valence State Distribution inside Ultrafine CeO ₂ Nanocubes and Its Size Dependence. Small, 2018, 14, e1802915.	5.2	77
25	Direct Imaging for Single Molecular Chain of Surfactant on CeO ₂ Nanocrystals. Small, 2018, 14, e1801093.	5.2	23
26	Supercritical Hydrothermal Synthesis of Nanoparticles. , 2018, , 683-689.		5
27	Surface Modification of Inorganic Nanoparticles by Organic Functional Groups. , 2018, , 809-812.		0
28	Microscale Incorporation of Elemental Cu from the Roller during Splat Cooling of Amorphous Metal Ribbon. Kagaku Kogaku Ronbunshu, 2018, 44, 217-219.	0.1	0
29	Synthesis of ZrO ₂ nanoparticles for liquid scintillators used in the detection of neutrinoless double beta decay. Journal of Radioanalytical and Nuclear Chemistry, 2017, 314, 611-615.	0.7	8
30	Phase-Field Simulation of Polymerization-Induced Phase Separation: II. Effect of Volume Fraction and Mobility of Network Polymer. Journal of Chemical Engineering of Japan, 2017, 50, 79-85.	0.3	2
31	Titanium peroxide nanoparticles enhanced cytotoxic effects of X-ray irradiation against pancreatic cancer model through reactive oxygen species generation in vitro and in vivo. Radiation Oncology, 2016, 11, 91.	1.2	67
32	Relationship between size distribution of synthesized nanoparticles and flow and thermal fields in a flow-type reactor for supercritical hydrothermal synthesis. Journal of Supercritical Fluids, 2016, 109, 43-50.	1.6	20
33	Co ²⁺ Doping of Tin and Zinc into Indium Oxide Nanocrystals Using a Facile Hydrothermal Method. ChemistrySelect, 2016, 1, 518-523.	0.7	4
34	Tuning surface grafting density of CeO ₂ nanocrystals with near- and supercritical solvent characteristics. Physical Chemistry Chemical Physics, 2016, 18, 1727-1734.	1.3	19
35	Kinetics study to identify reaction-controlled conditions for supercritical hydrothermal nanoparticle synthesis with flow-type reactors. Journal of Supercritical Fluids, 2016, 110, 161-166.	1.6	31
36	Annealing-promoted unidirectional migration of organically modified nanoparticles embedded two-dimensionally in polymer thin films. Journal of Applied Polymer Science, 2015, 132, .	1.3	9

#	ARTICLE	IF	CITATIONS
37	Study on Metal Oxide Nanostructures Using Scanning Electron Microscopy. Hyomen Kagaku, 2015, 36, 166-171.	0.0	0
38	In-situ Neutron Tomography on Mixing Behavior of Supercritical Water and Room Temperature Water in a Tubular Flow Reactor. Physics Procedia, 2015, 69, 564-569.	1.2	11
39	Multistage ordering and critical singularities in $\text{Co}_{1-x}\text{Zn}_x\text{Al}_2\text{O}_4$ ($0 \leq x \leq 1$): Dilution and pressure effects in a magnetically frustrated system. Physical Review B, 2015, 91, .	1.1	8
40	Beneficial use of CeO_2 nanocatalyst for black liquor conversion under sub and supercritical conditions. Journal of Supercritical Fluids, 2015, 105, 66-76.	1.6	30
41	Influence of the crystal structure on the physical properties of monoclinic ZrO_2 nanocrystals. Nano Structures Nano Objects, 2015, 1, 1-6.	1.9	3
42	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.	1.6	17
43	Environmentally Benign Route for Nanomaterial Synthesis by Using SCW. , 2014, , 99-110.		2
44	Neutron radiography and numerical simulation of mixing behavior in a reactor for supercritical hydrothermal synthesis. AIChE Journal, 2014, 60, 1168-1175.	1.8	25
45	Hydrothermal synthesis of luminescent $\text{GdVO}_4:\text{Eu}$ nanoparticles with dispersibility in organic solvents. Journal of Nanoparticle Research, 2014, 16, 1.	0.8	8
46	Synthesis of monocarboxylic acid-modified CeO_2 nanoparticles using supercritical water. RSC Advances, 2014, 4, 49605-49613.	1.7	36
47	Inhomogeneous magnetic phase in $\text{Co}^{\text{II}}\text{Al}^{\text{III}}\text{O}$ spinel nanocrystals. Journal of Magnetism and Magnetic Materials, 2014, 350, 161-166.	1.0	3
48	Hydrothermal Synthesis of Cerium Oxide Nanoassemblies through Coordination Programming with Amino Acids. Chemistry Letters, 2014, 43, 1343-1345.	0.7	11
49	Particle size for photocatalytic activity of anatase TiO_2 nanosheets with highly exposed {001} facets. RSC Advances, 2013, 3, 19268.	1.7	29
50	Supercritical Hydrothermal Synthesis. , 2013, , 949-978.		5
51	Catalytic Cracking Reaction of Heavy Oil in the Presence of Cerium Oxide Nanoparticles in Supercritical Water. Energy & Fuels, 2013, 27, 4624-4631.	2.5	88
52	Hydrothermal synthesis of inorganic-organic hybrid gadolinium hydroxide nanoclusters with controlled size and morphology. Dalton Transactions, 2013, 42, 16176.	1.6	16
53	Rapid and continuous synthesis of cobalt aluminate nanoparticles under subcritical hydrothermal conditions with in-situ surface modification. Chemical Engineering Science, 2013, 85, 50-54.	1.9	35
54	Stress inversion from initial tensile to compressive side during ultrathin oxide growth of the $\text{Si}(100)$ surface. Journal of Physics Condensed Matter, 2013, 25, 355007.	0.7	3

#	ARTICLE	IF	CITATIONS
55	Supercritical Hydrothermal Synthesis of Organic Modified Nanoparticles Towards Superhybrid Materials. Journal of the Adhesion Society of Japan, 2013, 49, 191-196.	0.0	0
56	Phase-Field Simulation of Polymerization-Induced Phase Separation: I. Effect of Reaction Rate and Coexisting Polymer. Journal of Chemical Engineering of Japan, 2013, 46, 709-715.	0.3	3
57	Surface modification of inorganic nanoparticles by organic functional groups. , 2012, , 593-596.		1
58	Preparation of aqueous dispersible styrene- ϵ -maleic amide encapsulated CoAl ₂ O ₄ nanocrystals using supercritical water flow type apparatus. Materials Research Innovations, 2012, 16, 30-37.	1.0	2
59	Mechanical stabilities of K ₄ carbon and K ₄ -like NaC ₂ . Journal of Physics and Chemistry of Solids, 2012, 73, 1264-1267.	1.9	3
60	Continuous hydrothermal synthesis of 3,4-dihydroxyhydrocinnamic acid-modified magnetite nanoparticles with stealth-functionality against immunological response. Journal of Materials Chemistry, 2012, 22, 9041.	6.7	33
61	Synthesis of surface-modified monoclinic ZrO ₂ nanoparticles using supercritical water. CrystEngComm, 2012, 14, 2132.	1.3	44
62	Impact of magnetic field on molecular alignment and electrical conductivity in phthalocyanine nanowires. Journal of Materials Chemistry, 2012, 22, 8629.	6.7	18
63	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.	1.3	9
64	Kinetic Study on the Selective Production of 2-(Hydroxybenzyl)-4-methylphenol from Organosolv Lignin in a Mixture of Supercritical Water and <i>p</i> -Cresol. Industrial & Engineering Chemistry Research, 2012, 51, 4804-4808.	1.8	29
65	Surfactant-Assisted Hydrothermal Synthesis of Water-Dispersible Hafnium Oxide Nanoparticles in Highly Alkaline Media. Crystal Growth and Design, 2012, 12, 5219-5226.	1.4	24
66	Supercritical Hydrothermal Synthesis and In situ Organic Modification of Indium Tin Oxide Nanoparticles Using Continuous-Flow Reaction System. ACS Applied Materials & Interfaces, 2012, 4, 351-354.	4.0	28
67	Simple and rapid synthesis of ZrO ₂ nanoparticles from Zr(OEt) ₄ and Zr(OH) ₄ using a hydrothermal method. CrystEngComm, 2012, 14, 2117.	1.3	41
68	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.	0.1	2
69	Synthesis of shape-controlled and organic-hybridized hafnium oxide nanoparticles under sub- and supercritical hydrothermal conditions. Journal of Supercritical Fluids, 2012, 62, 190-196.	1.6	27
70	Neutron radiography on tubular flow reactor for hydrothermal synthesis: In situ monitoring of mixing behavior of supercritical water and room-temperature water. Journal of Supercritical Fluids, 2012, 63, 46-51.	1.6	27
71	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.	1.8	22
72	Extra-Low-Temperature Oxygen Storage Capacity of CeO ₂ Nanocrystals with Cubic Facets. Nano Letters, 2011, 11, 361-364.	4.5	222

#	ARTICLE	IF	CITATIONS
73	Green materials synthesis with supercritical water. <i>Green Chemistry</i> , 2011, 13, 1380.	4.6	267
74	Surfactant-assisted one-pot synthesis of superparamagnetic magnetite nanoparticle clusters with tunable cluster size and magnetic field sensitivity. <i>Dalton Transactions</i> , 2011, 40, 1073-1078.	1.6	93
75	Supercritical hydrothermal synthesis of hydrophilic polymer-modified water-dispersible CeO ₂ nanoparticles. <i>CrystEngComm</i> , 2011, 13, 2841-2848.	1.3	72
76	Supercritical hydrothermal synthesis of metallic cobalt nanoparticles and its thermodynamic analysis. <i>Journal of Supercritical Fluids</i> , 2011, 60, 113-120.	1.6	47
77	Rapid synthesis of tin-doped indium oxide microcrystals in supercritical water using hydrazine as reducing agent. <i>Progress in Crystal Growth and Characterization of Materials</i> , 2011, 57, 117-126.	1.8	19
78	Material-binding peptide application of ZnO crystal structure control by means of a ZnO-binding peptide. <i>Journal of Bioscience and Bioengineering</i> , 2011, 111, 140-145.	1.1	34
79	Exploitation of Surface Sensitive Electrons in Scanning Electron Microscopy Reveals the Formation Mechanism of New Cubic and Truncated Octahedral CeO ₂ Nanoparticles. <i>ChemCatChem</i> , 2011, 3, 1038-1044.	1.8	21
80	Oleic acid-enhanced dissolution of cellulose in high-temperature water. <i>Research on Chemical Intermediates</i> , 2011, 37, 415-419.	1.3	4
81	Improvement in carrier mobility of poly(3,4-ethylenedioxythiophene) nanowires synthesized in porous alumina templates. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2011, 49, 1762-1768.	2.4	25
82	Carbon-doped K4 nitrogen: A novel high energy density material. <i>Chemical Physics Letters</i> , 2011, 506, 175-178.	1.2	6
83	Pressure-dependent mechanical stability of simple cubic carbon. <i>Physica B: Condensed Matter</i> , 2011, 406, 2654-2657.	1.3	6
84	Controlled reduction of Cu ²⁺ to Cu ⁺ with an N,O-type chelate under hydrothermal conditions to produce Cu ₂ O nanoparticles. <i>Materials Letters</i> , 2010, 64, 1049-1051.	1.3	14
85	Continuous synthesis of fine MgFe ₂ O ₄ nanoparticles by supercritical hydrothermal reaction. <i>Journal of Supercritical Fluids</i> , 2010, 53, 92-94.	1.6	78
86	Continuous hydrothermal synthesis of nickel oxide nanoplates and their use as nanoinks for p-type channel material in a bottom-gate field-effect transistor. <i>Nanotechnology</i> , 2010, 21, 134009.	1.3	36
87	Hybridisation of Sebacic Acid on the Surface of γ -Alumina Nanoparticles in Sub- and Supercritical Water. <i>Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences</i> , 2010, 65, 1045-1050.	0.3	6
88	Organic-ligand-assisted hydrothermal synthesis of ultrafine and hydrophobic ZnO nanoparticles. <i>Journal of Materials Research</i> , 2010, 25, 219-223.	1.2	17
89	Fabrication of Two-Dimensional Structures of Metal Oxide Nanocrystals Using Si Substrate Modified with 3,4-Dihydroxyhydrocinnamic Acid. <i>Chemistry of Materials</i> , 2010, 22, 1862-1869.	3.2	14
90	Direct and Selective Immobilization of Proteins by Means of an Inorganic Material-Binding Peptide: Discussion on Functionalization in the Elongation to Material-Binding Peptide. <i>Journal of Physical Chemistry B</i> , 2010, 114, 480-486.	1.2	35

#	ARTICLE	IF	CITATIONS
91	Synthesis of Functional Nanoparticles Using Supercritical Fluids. Journal of the Vacuum Society of Japan, 2009, 52, 550-556.	0.3	1
92	Phthalocyanine molecular nanowires that were prepared using porous alumina as a template: Development in the sample preparation procedure to evaluate electronic properties. Thin Solid Films, 2009, 518, 692-694.	0.8	6
93	Growth Mechanism and Surface Chemical Characteristics of Dicarboxylic Acid-Modified CeO ₂ Nanocrystals Produced in Supercritical Water: Tailor-Made Water-Soluble CeO ₂ Nanocrystals. Crystal Growth and Design, 2009, 9, 5297-5303.	1.4	88
94	Crystal size and magnetic field effects in $\text{Co}_{3 \times 76}$ nanocrystals. Physical Review B, 2009, 79, .	1.1	76
95	Temperature control for the expansion of artificial DNA motif. Journal of Materials Science, 2008, 43, 2426-2430.	1.7	0
96	Homogenous Spherical Mosslike Assembly of Pd Nanoparticles by using DNA Compaction: Application of Pd-DNA Hybrid Materials to Volume-Expansion Hydrogen Switches. Advanced Materials, 2008, 20, 1122-1128.	11.1	39
97	Control of molecular packing structure of a derivative of vanadyl-phthalocyanine using pore wall of porous alumina and/or magnetic field. Thin Solid Films, 2008, 516, 2438-2442.	0.8	4
98	Disassembly of lignin and chemical recovery in supercritical water and p-cresol mixture. Bioresource Technology, 2008, 99, 1846-1852.	4.8	55
99	Synthesis of octabutoxyphthalocyanine nanorods using porous alumina as a template and magnetic-field-directed control of the molecular orientation in the nanorods. Journal of Materials Chemistry, 2008, 18, 4347.	6.7	6
100	Continuous synthesis of organic-inorganic hybridized cubic nanoassemblies of octahedral cerium oxide nanocrystals and hexanedioic acid. Dalton Transactions, 2008, , 5442.	1.6	51
101	Fluorescence millisecond oscillation in polar solvents regulates fluorescence intensity of colloidal quantum dots' solution. Journal of Nanophotonics, 2007, 1, 013516.	0.4	2
102	Hydrothermal synthesis and in situ surface modification of boehmite nanoparticles in supercritical water. Journal of Supercritical Fluids, 2007, 40, 397-401.	1.6	79
103	Hydrothermal synthesis of surface-modified iron oxide nanoparticles. Materials Letters, 2007, 61, 4769-4772.	1.3	111
104	SUPERCritical WATER TREATMENT OF BIOMASS FOR ENERGY AND MATERIAL RECOVERY. Combustion Science and Technology, 2006, 178, 509-536.	1.2	138
105	Biomass-assisted Hydrothermal Synthesis of Ceria Nanoparticle - A New Application of Lignin as a Bio-nanopool. Chemistry Letters, 2006, 35, 732-733.	0.7	6
106	Supercritical hydrothermal synthesis of organic-inorganic hybrid nanoparticles. Journal of Materials Science, 2006, 41, 1445-1448.	1.7	71
107	Bioassisted Room-Temperature Immobilization and Mineralization of Zinc Oxide - The Structural Ordering of ZnO Nanoparticles into a Flower-Type Morphology. Advanced Materials, 2005, 17, 2571-2575.	11.1	217
108	Chemical reaction dynamics of PeCB and TCDD decomposition: A tight-binding quantum chemical molecular dynamics study with first-principles parameterization. International Journal of Quantum Chemistry, 2005, 102, 318-327.	1.0	21

#	ARTICLE	IF	CITATIONS
109	Disassembly of Organosolv Lignin in Supercritical Fluid-Phenol as a Suppressor for Repolymerization-. Nihon Enerugi Gakkaishi/Journal of the Japan Institute of Energy, 2005, 84, 486-490.	0.2	19
110	Efficient conversion of lignin into single chemical species by solvothermal reaction in water/p-cresol solvent. Journal of Physics Condensed Matter, 2004, 16, S1325-S1330.	0.7	42
111	Development of tight-binding, chemical-reaction-dynamics simulator for combinatorial computational chemistry. Applied Surface Science, 2004, 223, 188-195.	3.1	28
112	Disassembly of lignin and chemical recovery—rapid depolymerization of lignin without char formation in water/phenol mixtures. Fuel Processing Technology, 2004, 85, 803-813.	3.7	172
113	Hydrothermal synthesis of fine zinc oxide particles under supercritical conditions. Solid State Ionics, 2004, 172, 261-264.	1.3	79
114	Design of new catalysts for ecological high-quality transportation fuels by combinatorial computational chemistry and tight-binding quantum chemical molecular dynamics approaches. Catalysis Today, 2004, 89, 479-493.	2.2	12
115	Control of Designed High-Order DNA Conformation as a Template for Nano Particle Assembly. Kobunshi Ronbunshu, 2004, 61, 617-622.	0.2	6
116	Title is missing!. Tribology Letters, 2003, 15, 155-162.	1.2	11
117	Quantum Chemical Molecular Dynamics Simulation of the Plasma Etching Processes. Japanese Journal of Applied Physics, 2003, 42, 1859-1864.	0.8	40
118	Materials design of perovskite-based oxygen ion conductor by molecular dynamics method. Solid State Ionics, 2003, 160, 93-101.	1.3	24
119	Computational chemistry study on the dynamics of lubricant molecules under shear conditions. Tribology International, 2003, 36, 297-303.	3.0	26
120	The development of computational chemistry approach to predict the viscosity of lubricants. Tribology International, 2003, 36, 455-458.	3.0	18
121	Monte Carlo simulation of hydrogen absorption in palladium and palladium-silver alloys. Catalysis Today, 2003, 82, 233-240.	2.2	8
122	A Quantum Molecular Dynamics Simulation Study of the Initial Hydrolysis Step in Sol-Gel Process. Journal of Physical Chemistry B, 2003, 107, 1518-1524.	1.2	115
123	Ring Opening of Methylene cyclopropane over Lanthanocene Catalyst: A Quantum-Chemical Molecular Dynamics Simulation Study. Organometallics, 2003, 22, 2181-2183.	1.1	35
124	Combinatorial Computational Chemistry Approach to the High-Throughput Screening of Metal Sulfide Catalysts for CO Hydrogenation Process. Energy & Fuels, 2003, 17, 857-861.	2.5	9
125	Quantum Chemical Molecular Dynamics Studies on the Chemical Mechanical Polishing Process of Cu Surface. Japanese Journal of Applied Physics, 2003, 42, 1897-1902.	0.8	20
126	A Theoretical Study on the Realistic Low Concentration Doping in Silicon Semiconductors by Accelerated Quantum Chemical Molecular Dynamics Method. Japanese Journal of Applied Physics, 2003, 42, 1877-1881.	0.8	12

#	ARTICLE	IF	CITATIONS
127	Ab Initio Calculation of F Atom Desorption in Tungsten Chemical Vapor Deposition Process Using WF ₆ and H ₂ . Japanese Journal of Applied Physics, 2003, 42, 5751-5752.	0.8	2
128	Combinatorial Computational Chemistry Approach in the Design of New Catalysts and Functional Materials. , 2003, , .		0
129	Development of New Tight-Binding Molecular Dynamics Program to Simulate Chemical-Mechanical Polishing Processes. Japanese Journal of Applied Physics, 2002, 41, 2410-2413.	0.8	39
130	Recent Developments in Transition Metal-Catalyzed Polymerization I. Molecular Dynamics Study of Propylene Polymerization on Ziegler-Natta Catalyst.. Kobunshi Ronbunshu, 2002, 59, 224-229.	0.2	0
131	Theoretical Investigation on Functionalization of Alkanes by a Rhodium Complex Catalyst. Organometallics, 2002, 21, 3703-3708.	1.1	54
132	Electronic structures and spectroscopic properties of dimers Cu ₂ , Ag ₂ , and Au ₂ calculated by density functional theory. Computational and Theoretical Chemistry, 2002, 579, 221-227.	1.5	47
133	Combinatorial computational chemistry approach to the design of cathode materials for a lithium secondary battery. Applied Surface Science, 2002, 189, 313-318.	3.1	14
134	Combinatorial computational chemistry approach to the design of methanol synthesis catalyst. Applied Surface Science, 2002, 189, 253-259.	3.1	18
135	Tight-binding quantum chemical molecular dynamics study of cathode materials for lithium secondary battery. Solid State Ionics, 2002, 152-153, 273-277.	1.3	20
136	Development and application of nonequilibrium simulation program for ion diffusion in battery. Solid State Ionics, 2002, 152-153, 279-284.	1.3	1
137	Non-equilibrium molecular simulation studies on gas separation by microporous membranes using dual ensemble molecular simulation techniques. Fluid Phase Equilibria, 2002, 194-197, 319-326.	1.4	12
138	A theoretical study on electronic structures and spectroscopic properties of cyclopropane in ground and excited states. Chemical Physics, 2002, 279, 7-14.	0.9	12
139	A density functional theory calculation on lanthanide monosulfides. Chemical Physics, 2002, 282, 197-206.	0.9	27
140	Combinatorial computational chemistry approach as a promising method for design of Fischer-Tropsch catalysts based on Fe and Co. Applied Surface Science, 2002, 189, 245-252.	3.1	34
141	The adsorption of nitrogen oxides and water on rare-earth ion-exchanged ZSM-5: a density functional study. Applied Surface Science, 2002, 202, 283-288.	3.1	8
142	Computational chemical study on separation of benzene and cyclohexane by a NaY zeolite membrane. Desalination, 2002, 147, 339-344.	4.0	14
143	Functionalization of Underpotentially Deposited Metal Layers with Organics, Metals, and Ions. , 2002, , 69-81.		0
144	Effect of S and O on the growth of chemical-vapor deposition diamond (100) surfaces. Journal of Chemical Physics, 2001, 115, 5284-5291.	1.2	9

#	ARTICLE	IF	CITATIONS
145	Composite Monolayer of Ag and Cu on Au(111) by Sequential Underpotential Deposition. Langmuir, 2001, 17, 441-448.	1.6	23
146	Theoretical Study on Fe-Based Metal Clusters: Application in Heterogeneous Catalysis. Materials Transactions, 2001, 42, 2180-2183.	0.4	6
147	Molecular dynamics calculations of CO ₂ /N ₂ mixture through the NaY type zeolite membrane. Journal of Membrane Science, 2001, 188, 21-28.	4.1	27
148	The Fate of a Cluster Colliding onto a Substrate Dissipation of Translational Kinetic Energy. Journal of Nanoparticle Research, 2001, 3, 213-218.	0.8	13
149	Adsorption properties of SO ₂ on ultrafine precious metal particles studied using density functional calculation. Applied Surface Science, 2001, 177, 180-188.	3.1	10
150	A theoretical study of interaction of oxygen with noble metal clusters. Scripta Materialia, 2001, 44, 1919-1923.	2.6	4
151	<title>Theoretical design of heterogenous catalysts by combinatorial computational chemistry approach: application to Fischer-Tropsch synthesis</title>. , 2001, , .		3
152	<title>Design of the most active catalysts for methanol synthesis: combinatorial computational chemistry approach</title>. , 2001, 4281, 97.		3
153	Computational Chemistry Study on Crystal Growth of InGaN/GaN. Japanese Journal of Applied Physics, 2001, 40, 2991-2995.	0.8	14
154	Quantum Chemical Calculations of Sulfur Doping Reactions in Diamond CVD. Japanese Journal of Applied Physics, 2001, 40, 2830-2832.	0.8	26
155	CVD Material Processing. Interaction between SiO ₂ Surface and Au Clusters Studied by Computational Chemistry.. Kagaku Kogaku Ronbunshu, 2000, 26, 770-775.	0.1	1
156	Computer-aided design of novel heterogeneous catalystsâ€™A combinatorial computational chemistry approach. Studies in Surface Science and Catalysis, 2000, , 401-406.	1.5	9
157	Combinatorial computational chemistry approach to the design of catalysts. , 2000, 3941, 62.		4
158	Combinatorial computational chemistry approach to the design of metal oxide electronics materials. , 2000, 3941, 2.		8
159	Combinatorial computational chemistry approach to the design of deNO _x catalysts. Applied Catalysis A: General, 2000, 194-195, 183-191.	2.2	36
160	Periodic density functional study on adsorption properties of organic molecules on clean Al (111) surface. Applied Surface Science, 2000, 158, 38-42.	3.1	12
161	Density-functional theory of potassium atoms in zeolite. Chemical Physics Letters, 2000, 325, 1-6.	1.2	8
162	Title is missing!. Topics in Catalysis, 2000, 11/12, 271-278.	1.3	21

#	ARTICLE	IF	CITATIONS
163	Investigation of Hydrogen Chemisorption on GaAs (111)A Ga Surface byIn SituMonitoring andAb InitioCalculation. Japanese Journal of Applied Physics, 2000, 39, 6174-6179.	0.8	1
164	Investigation of Initial Growth Process of GaN Film on Sapphire Using Computational Chemistry. Japanese Journal of Applied Physics, 2000, 39, 2380-2384.	0.8	3
165	Investigation of Thermal Annealing Process of GaN Layer on Sapphire by Molecular Dynamics. Japanese Journal of Applied Physics, 2000, 39, 4400-4403.	0.8	9
166	Molecular Dynamics Simulations of Adhesional Forces via Hydrocarbon Films. Japanese Journal of Applied Physics, 2000, 39, 4425-4426.	0.8	0
167	Potential Energy Surface and Dynamics of Pd/MgO(001) System as Investigated by Periodic Density Functional Calculations and Classical Molecular Dynamics Simulations. Japanese Journal of Applied Physics, 2000, 39, 4255-4260.	0.8	14
168	Molecular Adsorption on Ultrafine Precious Metal Particles Studied by Density Functional Calculation. Japanese Journal of Applied Physics, 2000, 39, 4261-4265.	0.8	1
169	Nonlinear Susceptibility of Second Harmonic Generation Corresponded to the Diamond (100) Surface Structures. Japanese Journal of Applied Physics, 2000, 39, 1845-1848.	0.8	2
170	Computational Chemistry Study on Initial Stages of Nitridation of Silicon Surfaces. Japanese Journal of Applied Physics, 2000, 39, 4443-4446.	0.8	2
171	Ab InitioStudy for Si-H Bond Vibration on the Surface of Silicon Vacancy. Japanese Journal of Applied Physics, 2000, 39, 4292-4294.	0.8	0
172	Adsorption Properties of CH ₃ OH on Al (111) and Fe (100) Surfaces: A Periodic First-Principles Investigation. Japanese Journal of Applied Physics, 2000, 39, 4275-4278.	0.8	4
173	Periodic density-functional study on oxidation of diamond (100) surfaces. Physical Review B, 2000, 61, 11025-11033.	1.1	55
174	Surface-Initiated Ring-Opening Metathesis Polymerization on Si/SiO ₂ . Macromolecules, 2000, 33, 2793-2795.	2.2	141
175	Molecular Dynamics Studies of Surface Difference Effect on Gas Separation by Zeolite Membranes. Japanese Journal of Applied Physics, 2000, 39, 4385-4388.	0.8	7
176	First-principle study on reactions of diamond (100) surfaces with hydrogen and methyl radicals. Physical Review B, 2000, 62, 16995-17003.	1.1	37
177	Comparative Investigation on the Adsorption Properties of Precious Metal Clusters toward NO: A Density Functional Study. Journal of Physical Chemistry B, 2000, 104, 5110-5117.	1.2	26
178	Structural Properties of Li _x Mn ₂ O ₄ as Investigated by Molecular Dynamics and Density Functional Theory. Japanese Journal of Applied Physics, 2000, 39, 4318-4322.	0.8	30
179	Tight-binding Molecular Dynamics Simulation of Silicon Plasma Oxidation.. Hyomen Kagaku, 2000, 21, 188-192.	0.0	1
180	Surface and Interface of Double Oxides. Surfaces and Interfaces of Metal Oxides. A Molecular Simulation Study.. Hyomen Kagaku, 2000, 21, 81-88.	0.0	0

#	ARTICLE	IF	CITATIONS
181	Structures and Properties of Atoms and Molecules Confined in Nanospaces. Dynamic Behavior of Molecules in Nano-Structured Materials as Investigated by Computer Simulation.. Hyomen Kagaku, 2000, 21, 32-38.	0.0	1
182	Density functional theory calculations of molecular nitrogen on a ruthenium cluster. Chemical Physics Letters, 1999, 313, 279-282.	1.2	9
183	Integrated computational chemistry system for catalysts design. Bulletin of Materials Science, 1999, 22, 851-861.	0.8	4
184	Surface Protrusions of Chemical Vapor Deposited TiN Films Caused by Cu Contamination of Silicon Substrates. Japanese Journal of Applied Physics, 1998, 37, L607-L609.	0.8	2
185	Kinetic Study on Oxidation of Si(111) Surfaces using H ₂ O. Japanese Journal of Applied Physics, 1997, 36, 2288-2291.	0.8	8
186	Control of Selective Tungsten Chemical Vapor Deposition by Monolayer Nitridation of Silicon Surface. Journal of the Electrochemical Society, 1996, 143, L38-L40.	1.3	3
187	Preparation of CuCl microcrystals doped SiO ₂ glass by co-sputtering method. Applied Physics Letters, 1996, 68, 1020-1021.	1.5	6
188	Monolayer nitridation of silicon surfaces by a dry chemical process using dimethylhydrazine or ammonia. Applied Physics Letters, 1995, 66, 1527-1529.	1.5	11
189	Synchrotron radiation photochemical vapor deposition of amorphous carbon. Journal of Applied Physics, 1995, 77, 3453-3457.	1.1	1
190	Enhanced optical properties of metal-coated nanoparticles. Journal of Applied Physics, 1993, 73, 1043-1048.	1.1	92