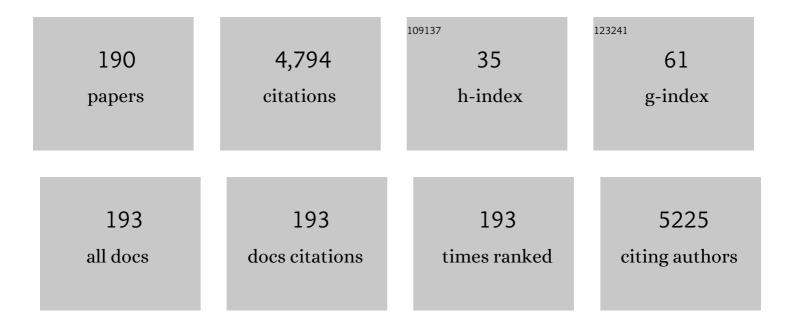
## Seiichi Takami

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Green materials synthesis with supercritical water. Green Chemistry, 2011, 13, 1380.	4.6	267
2	Extra-Low-Temperature Oxygen Storage Capacity of CeO <sub>2</sub> Nanocrystals with Cubic Facets. Nano Letters, 2011, 11, 361-364.	4.5	222
3	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
4	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
5	Surface-Initiated Ring-Opening Metathesis Polymerization on Si/SiO2. Macromolecules, 2000, 33, 2793-2795.	2.2	141
6	SUPERCRITICAL WATER TREATMENT OF BIOMASS FOR ENERGY AND MATERIAL RECOVERY. Combustion Science and Technology, 2006, 178, 509-536.	1.2	138
7	A Quantum Molecular Dynamics Simulation Study of the Initial Hydrolysis Step in Solâ^'Gel Process. Journal of Physical Chemistry B, 2003, 107, 1518-1524.	1.2	115
8	Hydrothermal synthesis of surface-modified iron oxide nanoparticles. Materials Letters, 2007, 61, 4769-4772.	1.3	111
9	Surfactant-assisted one-pot synthesis of superparamagnetic magnetite nanoparticle clusters with tunable cluster size and magnetic field sensitivity. Dalton Transactions, 2011, 40, 1073-1078.	1.6	93
10	Enhanced optical properties of metal oated nanoparticles. Journal of Applied Physics, 1993, 73, 1043-1048.	1.1	92
11	Growth Mechanism and Surface Chemical Characteristics of Dicarboxylic Acid-Modified CeO <sub>2</sub> Nanocrystals Produced in Supercritical Water: Tailor-Made Water-Soluble CeO <sub>2</sub> Nanocrystals. Crystal Growth and Design, 2009, 9, 5297-5303.	1.4	88
12	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
13	Hydrothermal synthesis of fine zinc oxide particles under supercritical conditions. Solid State Ionics, 2004, 172, 261-264.	1.3	79
14	Hydrothermal synthesis and in situ surface modification of boehmite nanoparticles in supercritical water. Journal of Supercritical Fluids, 2007, 40, 397-401.	1.6	79
15	Continuous synthesis of fine MgFe2O4 nanoparticles by supercritical hydrothermal reaction. Journal of Supercritical Fluids, 2010, 53, 92-94.	1.6	78
16	Atomic cale Valence State Distribution inside Ultrafine CeO <sub>2</sub> Nanocubes and Its Size Dependence. Small, 2018, 14, e1802915.	5.2	77
17	Crystal size and magnetic field effects in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"&gt;<mml:mrow><mml:msub><mml:mrow><mml:mtext>Co</mml:mtext></mml:mrow><mml:mn> nanocrystals. Physical Review B. 2009. 79</mml:mn></mml:msub></mml:mrow></mml:math 	3 <td>۲&gt;<b>۲6</b> </td>	۲> <b>۲6</b> 
19	Supercritical hydrothermal synthesis of hydrophilic polymer-modified water-dispersible	1 9	79

<sup>18</sup> CeO<sub>2</sub>nanoparticles. CrystEngComm, 2011, 13, 2841-2848.

1.3 72

#	Article	IF	CITATIONS
19	Supercritical hydrothermal synthesis of organic-inorganic hybrid nanoparticles. Journal of Materials Science, 2006, 41, 1445-1448.	1.7	71
20	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
21	Periodic density-functional study on oxidation of diamond (100) surfaces. Physical Review B, 2000, 61, 11025-11033.	1.1	55
22	Disassembly of lignin and chemical recovery in supercritical water and p-cresol mixture. Bioresource Technology, 2008, 99, 1846-1852.	4.8	55
23	Theoretical Investigation on Functionalization of Alkanes by a Rhodium Complex Catalyst. Organometallics, 2002, 21, 3703-3708.	1.1	54
24	Continuous synthesis of organic–inorganic hybridized cubic nanoassemblies of octahedral cerium oxide nanocrystals and hexanedioic acid. Dalton Transactions, 2008, , 5442.	1.6	51
25	Electronic structures and spectroscopic properties of dimers Cu2, Ag2, and Au2 calculated by density functional theory. Computational and Theoretical Chemistry, 2002, 579, 221-227.	1.5	47
26	Supercritical hydrothermal synthesis of metallic cobalt nanoparticles and its thermodynamic analysis. Journal of Supercritical Fluids, 2011, 60, 113-120.	1.6	47
27	Synthesis of surface-modified monoclinic ZrO2 nanoparticles using supercritical water. CrystEngComm, 2012, 14, 2132.	1.3	44
28	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
29	Simple and rapid synthesis of ZrO2 nanoparticles from Zr(OEt)4 and Zr(OH)4 using a hydrothermal method. CrystEngComm, 2012, 14, 2117.	1.3	41
30	Quantum Chemical Molecular Dynamics Simulation of the Plasma Etching Processes. Japanese Journal of Applied Physics, 2003, 42, 1859-1864.	0.8	40
31	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
32	Homogenous Spherical Mosslike Assembly of Pd Nanoparticles by using DNA Compaction: Application of Pd–DNA Hybrid Materials to Volumeâ€Expansion Hydrogen Switches. Advanced Materials, 2008, 20, 1122-1128.	11.1	39
33	First-principle study on reactions of diamond (100) surfaces with hydrogen and methyl radicals. Physical Review B, 2000, 62, 16995-17003.	1.1	37
34	Combinatorial computational chemistry approach to the design of deNOx catalysts. Applied Catalysis A: General, 2000, 194-195, 183-191.	2.2	36
35	Continuous hydrothermal synthesis of nickel oxide nanoplates and their use as nanoinks for p-type channel material in a bottom-gate field-effect transistor. Nanotechnology, 2010, 21, 134009.	1.3	36
36	Synthesis of monocarboxylic acid-modified CeO <sub>2</sub> nanoparticles using supercritical water. RSC Advances, 2014, 4, 49605-49613.	1.7	36

#	Article	IF	CITATIONS
37	Ring Opening of Methylenecyclopropane over Lanthanocene Catalyst:  A Quantum-Chemical Molecular Dynamics Simulation Study. Organometallics, 2003, 22, 2181-2183.	1.1	35
38	Direct and Selective Immobilization of Proteins by Means of an Inorganic Material-Binding Peptide: Discussion on Functionalization in the Elongation to Material-Binding Peptide. Journal of Physical Chemistry B, 2010, 114, 480-486.	1.2	35
39	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
40	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
41	Material-binding peptide application—ZnO crystal structure control by means of a ZnO-binding peptide. Journal of Bioscience and Bioengineering, 2011, 111, 140-145.	1.1	34
42	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
43	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
44	Structural Properties of LixMn2O4as Investigated by Molecular Dynamics and Density Functional Theory. Japanese Journal of Applied Physics, 2000, 39, 4318-4322.	0.8	30
45	Beneficial use of CeO2 nanocatalyst for black liquor conversion under sub and supercritical conditions. Journal of Supercritical Fluids, 2015, 105, 66-76.	1.6	30
46	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
47	Particle size for photocatalytic activity of anatase TiO2 nanosheets with highly exposed {001} facets. RSC Advances, 2013, 3, 19268.	1.7	29
48	Development of tight-binding, chemical-reaction-dynamics simulator for combinatorial computational chemistry. Applied Surface Science, 2004, 223, 188-195.	3.1	28
49	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
50	Molecular dynamics calculations of CO2/N2 mixture through the NaY type zeolite membrane. Journal of Membrane Science, 2001, 188, 21-28.	4.1	27
51	A density functional theory calculation on lanthanide monosulfides. Chemical Physics, 2002, 282, 197-206.	0.9	27
52	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
53	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
54	Comparative Investigation on the Adsorption Properties of Precious Metal Clusters toward NO:Â A Density Functional Study. Journal of Physical Chemistry B, 2000, 104, 5110-5117.	1.2	26

#	Article	IF	CITATIONS
55	Quantum Chemical Calculations of Sulfur Doping Reactions in Diamond CVD. Japanese Journal of Applied Physics, 2001, 40, 2830-2832.	0.8	26
56	Computational chemistry study on the dynamics of lubricant molecules under shear conditions. Tribology International, 2003, 36, 297-303.	3.0	26
57	Improvement in carrier mobility of poly(3,4â€ethylenedioxythiophene) nanowires synthesized in porous alumina templates. Journal of Polymer Science, Part B: Polymer Physics, 2011, 49, 1762-1768.	2.4	25
58	Neutron radiography and numerical simulation of mixing behavior in a reactor for supercritical hydrothermal synthesis. AICHE Journal, 2014, 60, 1168-1175.	1.8	25
59	Materials design of perovskite-based oxygen ion conductor by molecular dynamics method. Solid State Ionics, 2003, 160, 93-101.	1.3	24
60	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
61	Composite Monolayer of Ag and Cu on Au(111) by Sequential Underpotential Deposition. Langmuir, 2001, 17, 441-448.	1.6	23
62	Direct Imaging for Single Molecular Chain of Surfactant on CeO <sub>2</sub> Nanocrystals. Small, 2018, 14, e1801093.	5.2	23
63	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
64	X-ray detection properties of plastic scintillators containing surface-modified Bi <sub>2</sub> O <sub>3</sub> nanoparticles. Japanese Journal of Applied Physics, 2018, 57, 052203.	0.8	22
65	Title is missing!. Topics in Catalysis, 2000, 11/12, 271-278.	1.3	21
66	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
67	Exploitation of Surfaceâ€Sensitive Electrons in Scanning Electron Microscopy Reveals the Formation Mechanism of New Cubic and Truncated Octahedral CeO <sub>2</sub> Nanoparticles. ChemCatChem, 2011, 3, 1038-1044.	1.8	21
68	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
69	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
70	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
71	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
72	Rapid synthesis of tin-doped indium oxide microcrystals in supercritical water using hydrazine as reducing agent. Progress in Crystal Growth and Characterization of Materials, 2011, 57, 117-126.	1.8	19

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#	Article	IF	CITATIONS
73	Tuning surface grafting density of CeO <sub>2</sub> nanocrystals with near- and supercritical solvent characteristics. Physical Chemistry Chemical Physics, 2016, 18, 1727-1734.	1.3	19
74	Disassembly of Organosolv Lignin in Supercritieal Fluid-Phenol as a Suppressor for Repolymerization Nihon Enerugi Gakkaishi/Journal of the Japan Institute of Energy, 2005, 84, 486-490.	0.2	19
75	Combinatorial computational chemistry approach to the design of methanol synthesis catalyst. Applied Surface Science, 2002, 189, 253-259.	3.1	18
76	The development of computational chemistry approach to predict the viscosity of lubricants. Tribology International, 2003, 36, 455-458.	3.0	18
77	Impact of magnetic field on molecular alignment and electrical conductivity in phthalocyanine nanowires. Journal of Materials Chemistry, 2012, 22, 8629.	6.7	18
78	Atomistic origin of high-concentration Ce3+ in {100}-faceted Cr-substituted CeO2 nanocrystals. Acta Materialia, 2021, 203, 116473.	3.8	18
79	Organic-ligand-assisted hydrothermal synthesis of ultrafine and hydrophobic ZnO nanoparticles. Journal of Materials Research, 2010, 25, 219-223.	1.2	17
80	Green solvent for green materials: a supercritical hydrothermal method and shape-controlled synthesis of Cr-doped CeO <sub>2</sub> nanoparticles. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2015, 373, 20150012.	1.6	17
81	Hydrothermal synthesis of inorganic–organic hybrid gadolinium hydroxide nanoclusters with controlled size and morphology. Dalton Transactions, 2013, 42, 16176.	1.6	16
82	Highly Cr-Substituted CeO <sub>2</sub> Nanoparticles Synthesized Using a Non-equilibrium Supercritical Hydrothermal Process: High Oxygen Storage Capacity Materials Designed for a Low-Temperature Bitumen Upgrading Process. ACS Applied Energy Materials, 2020, 3, 4305-4319.	2.5	16
83	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
84	Computational Chemistry Study on Crystal Growth of InGaN/GaN. Japanese Journal of Applied Physics, 2001, 40, 2991-2995.	0.8	14
85	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
86	Computational chemical study on separation of benzene and cyclohexane by a NaY zeolite membrane. Desalination, 2002, 147, 339-344.	4.0	14
87	Controlled reduction of Cu2+ to Cu+ with an N,O-type chelate under hydrothermal conditions to produce Cu2O nanoparticles. Materials Letters, 2010, 64, 1049-1051.	1.3	14
88	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.	3.2	14
89	Formation dynamics of mesocrystals composed of organically modified CeO <sub>2</sub> nanoparticles: analogy to a particle formation model. CrystEngComm, 2019, 21, 3836-3843.	1.3	14
90	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

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91	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
92	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
93	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
94	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
95	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
96	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.	2.3	12
97	Interconnected 3D Framework of CeO <sub>2</sub> with High Oxygen Storage Capacity: High-Resolution Scanning Electron Microscopic Observation. ACS Applied Nano Materials, 2020, 3, 2346-2353.	2.4	12
98	Monolayer nitridation of silicon surfaces by a dry chemical process using dimethylhydrazine or ammonia. Applied Physics Letters, 1995, 66, 1527-1529.	1.5	11
99	Title is missing!. Tribology Letters, 2003, 15, 155-162.	1.2	11
100	Hydrothermal Synthesis of Cerium Oxide Nanoassemblies through Coordination Programming with Amino Acids. Chemistry Letters, 2014, 43, 1343-1345.	0.7	11
101	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
102	Selective chemical recovery from biomass under hydrothermal conditions using metal oxide nanocatalyst. Journal of Supercritical Fluids, 2018, 133, 726-737.	1.6	11
103	Adsorption properties of SO2 on ultrafine precious metal particles studied using density functional calculation. Applied Surface Science, 2001, 177, 180-188.	3.1	10
104	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
105	Supercritical hydrothermal synthesis of highly crystalline lanthanum zirconate nanoparticles. Journal of Supercritical Fluids, 2019, 143, 134-138.	1.6	10
106	Numerical simulations of dispersion and aggregation behavior of surface-modified nanoparticles under shear flow. Powder Technology, 2019, 343, 113-121.	2.1	10
107	Density functional theory calculations of molecular nitrogen on a ruthenium cluster. Chemical Physics Letters, 1999, 313, 279-282.	1.2	9
108	Computer-aided design of novel heterogeneous catalysts—A combinatorial computational chemistry approach. Studies in Surface Science and Catalysis, 2000, , 401-406.	1.5	9

#	Article	IF	CITATIONS
109	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
110	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
111	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
112	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
113	Annealingâ€promoted unidirectional migration of organicâ€modified nanoparticles embedded twoâ€dimensionally in polymer thin films. Journal of Applied Polymer Science, 2015, 132, .	1.3	9
114	Kinetic Study on Oxidation of Si(111) Surfaces using H2O. Japanese Journal of Applied Physics, 1997, 36, 2288-2291.	0.8	8
115	Combinatorial computational chemistry approach to the design of metal oxide electronics materials. , 2000, 3941, 2.		8
116	Density-functional theory of potassium atoms in zeolite. Chemical Physics Letters, 2000, 325, 1-6.	1.2	8
117	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
118	Monte Carlo simulation of hydrogen absorption in palladium and palladium–silver alloys. Catalysis Today, 2003, 82, 233-240.	2.2	8
119	Hydrothermal synthesis of luminescent GdVO4:Eu nanoparticles with dispersibility in organic solvents. Journal of Nanoparticle Research, 2014, 16, 1.	0.8	8
120	Multistage ordering and critical singularities inCo1â^'xZnxAl2O4(0≤â‰⊉): Dilution and pressure effects in a magnetically frustrated system. Physical Review B, 2015, 91, .	1.1	8
121	Synthesis of ZrO2 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
122	Flow visualization of heavy oil in a packed bed using real-time neutron radiography. Chemical Engineering Science, 2019, 196, 425-432.	1.9	8
123	Direct Observation Techniques Using Scanning Electron Microscope for Hydrothermally Synthesized Nanocrystals and Nanoclusters. Nanomaterials, 2021, 11, 908.	1.9	8
124	Radiosensitization Effect of Gold Nanoparticles on Plasmid DNA Damage Induced by Therapeutic MV X-rays. Nanomaterials, 2022, 12, 771.	1.9	8
125	Curcumin-Loaded Liposome Preparation in Ultrasound Environment under Pressurized Carbon Dioxide. Foods, 2022, 11, 1469.	1.9	8
126	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

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127	Fabrication of FeO -ZrO2 nanostructures for automotive three-way catalysts by supercritical hydrothermal synthesis with supercritical CO2 drying. Journal of Supercritical Fluids, 2019, 147, 302-309.	1.6	7
128	In-situ visualization of heavy oil behavior in supercritical water using neutron radiography. Chemical Engineering Science, 2020, 225, 115816.	1.9	7
129	Preparation of CuCl microcrystalsâ€doped SiO2 glass by coâ€sputtering method. Applied Physics Letters, 1996, 68, 1020-1021.	1.5	6
130	Theoretical Study on Fe-Based Metal Clusters: Application in Heterogeneous Catalysis. Materials Transactions, 2001, 42, 2180-2183.	0.4	6
131	Control of Designed High-Order DNA Conformation as a Template for Nano Particle Assembly. Kobunshi Ronbunshu, 2004, 61, 617-622.	0.2	6
132	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
133	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
134	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
135	Hybridisation of Sebacic Acid on the Surface of γ-Alumina Nanoparticles in Sub- and Supercritical Water. Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences, 2010, 65, 1045-1050.	0.3	6
136	Carbon-doped K4 nitrogen: A novel high energy density material. Chemical Physics Letters, 2011, 506, 175-178.	1.2	6
137	Pressure-dependent mechanical stability of simple cubic carbon. Physica B: Condensed Matter, 2011, 406, 2654-2657.	1.3	6
138	Supercritical Hydrothermal Synthesis. , 2013, , 949-978.		5
139	Supercritical Hydrothermal Synthesis of Nanoparticles. , 2018, , 683-689.		5
140	Integrated computational chemistry system for catalysts design. Bulletin of Materials Science, 1999, 22, 851-861.	0.8	4
141	Combinatorial computational chemistry approach to the design of catalysts. , 2000, 3941, 62.		4
142	Adsorption Properties of CH3OH on Al (111) and Fe (100) Surfaces: A Periodic First-Principles Investigation. Japanese Journal of Applied Physics, 2000, 39, 4275-4278.	0.8	4
143	A theoretical study of interaction of oxygen with noble metal clusters. Scripta Materialia, 2001, 44, 1919-1923.	2.6	4
144	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

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145	Oleic acid-enhanced dissolution of cellulose in high-temperature water. Research on Chemical Intermediates, 2011, 37, 415-419.	1.3	4
146	Co–Doping of Tin and Zinc into Indium Oxide Nanocrystals Using a Facile Hydrothermal Method. ChemistrySelect, 2016, 1, 518-523.	0.7	4
147	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
148	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
149	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
150	<title>Theoretical design of heterogenous catalysts by combinatorial computational chemistry approach: application to Fischer-Tropsch synthesis</title> .,2001,,.		3
151	<title>Design of the most active catalysts for methanol synthesis: combinatorial computational chemistry approach</title> . , 2001, 4281, 97.		3
152	Mechanical stabilities of K4 carbon and K4-like NaC2. Journal of Physics and Chemistry of Solids, 2012, 73, 1264-1267.	1.9	3
153	Stress inversion from initial tensile to compressive side during ultrathin oxide growth of the Si(100) surface. Journal of Physics Condensed Matter, 2013, 25, 355007.	0.7	3
154	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
155	Inhomogeneous magnetic phase in Co–Al–O spinel nanocrystals. Journal of Magnetism and Magnetic Materials, 2014, 350, 161-166.	1.0	3
156	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
157	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
158	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
159	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
160	Computational Chemistry Study on Initial Stages of Nitridation of Silicon Surfaces. Japanese Journal of Applied Physics, 2000, 39, 4443-4446.	0.8	2
161	Ab InitioCalculation of F Atom Desorption in Tungsten Chemical Vapor Deposition Process Using WF6and H2. Japanese Journal of Applied Physics, 2003, 42, 5751-5752.	0.8	2
162	Fluorescence millisecond oscillation in polar solvents regulates fluorescence intensity of colloidal quantum dots' solution. Journal of Nanophotonics, 2007, 1, 013516.	0.4	2

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163	Preparation of aqueous dispersible styrene–maleic amide encapsulated CoAl2O4 nanocrystals using supercritical water flow type apparatus. Materials Research Innovations, 2012, 16, 30-37.	1.0	2
164	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
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