Daisuke Nagao

List of Publications by Year
in descending order

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116	2,405	186209	254106
papers	citations	28	43
		h-index	g-index

121	121	121	3028
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Silica coating of silver nanoparticles using a modified StÃ¶ber method. Journal of Colloid and Interface Science, 2005, 283, 392-396.	5.0	314
2	Synthesis of submicrometer-sized titania spherical particles with a solâ€“gel method and their application to colloidal photonic crystals. Journal of Colloid and Interface Science, 2005, 291, 162-168.	5.0	89
3	Synthesis of Anisotropic Polymer Particles with Soapâ€Free Emulsion Polymerization in the Presence of a Reactive Silane Coupling Agent. Macromolecular Rapid Communications, 2008, 29, 1484-1488.	2.0	72
4	Synthesis of Highly Monodisperse Particles Composed of a Magnetic Core and Fluorescent Shell. Langmuir, 2008, 24, 9804-9808.	1.6	70
5	Synthesis of Hollow Asymmetrical Silica Dumbbells with a Movable Inner Core. Langmuir, 2010, 26, 5208-5212.	1.6	59
6	Effect of NiO content in mesoporous NiOâ€“Al2O3 catalysts for high pressure partial oxidation of methane to syngas. Applied Catalysis A: General, 2011, 395, 129-137.	2.2	58
7	Advanced soap-free emulsion polymerization for highly pure, micron-sized, monodisperse polymer particles. Polymer, 2014, 55, 535-539.	1.8	56
8	Deposition of gold nanoparticles on silica spheres by electroless metal plating technique. Journal of Colloid and Interface Science, 2005, 283, 601-604.	5.0	52
9	Preparation of highly monodisperse poly(methyl methacrylate) particles incorporating fluorescent rhodamine 6G for colloidal crystals. Journal of Colloid and Interface Science, 2006, 298, 232-237.	5.0	51
10	A Generalized Model for Describing Particle Formation in the Synthesis of Monodisperse Oxide Particles Based on the Hydrolysis and Condensation of Tetraethyl Orthosilicate. Journal of Colloid and Interface Science, 2000, 232, 102-110.	5.0	50
11	Fabrication of barium titanate nanoparticlesâ€polymethylmethacrylate composite films and their dielectric properties. Polymer Engineering and Science, 2009, 49, 1069-1075.	1.5	50
12	Particle formation in the hydrolysis of tetraethyl orthosilicate in pH buffer solution. Journal of Colloid and Interface Science, 2004, 279, 143-149.	5.0	49
13	Electrolyte-Added One-Pot Synthesis for Producing Monodisperse, Micrometer-Sized Silica Particles up to 7 Î¼m. Langmuir, 2010, 26, 7512-7515.	1.6	49
14	Preparation and colloidal stability of monodisperse magnetic polymer particles. Journal of Colloid and Interface Science, 2005, 289, 419-426.	5.0	47
15	Mesoporous NiOâ€“Al2O3 catalyst for high pressure partial oxidation of methane to syngas. Applied Catalysis A: General, 2011, 392, 86-92.	2.2	44
16	Directed Orientation of Asymmetric Composite Dumbbells by Electric Field Induced Assembly. Langmuir, 2012, 28, 6546-6550.	1.6	40
17	Membrane Surface-Enhanced Raman Spectroscopy for Sensitive Detection of Molecular Behavior of Lipid Assemblies. Analytical Chemistry, 2015, 87, 4772-4780.	3.2	38
18	Synthesis of spherical submicron-sized magnetite/silica nanocomposite particles. Journal of Sol-Gel Science and Technology, 2008, 45, 35-41.	1.1	35

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19	Fabrication of highly refractive, transparent BaTiO₃/poly(methyl methacrylate) composite films with high permittivities. Polymer International, 2011, 60, 1180-1184.	1.6	35
20	Preparation of multilayered silicaâ€“Gdâ€“silica core-shell particles and their magnetic resonance images. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2007, 308, 14-19.	2.3	34
21	Preparation of Asymmetrically Nanoparticle-Supported, Monodisperse Composite Dumbbells by Protruding a Smooth Polymer Bulge from Rugged Spheres. Langmuir, 2011, 27, 13302-13307.	1.6	34
22	Fabrication of highly refractive bariumâ€titanateâ€incorporated polyimide nanocomposite films with high permittivity and thermal stability. Polymer International, 2013, 62, 141-145.	1.6	31
23	Preparation of Micrometer-Sized Poly(methyl methacrylate) Particles with Amphoteric Initiator in Aqueous Media. Langmuir, 2004, 20, 7948-7951.	1.6	30
24	Effect of ultrasonic irradiation on carbon-supported Ptâ€“Ru nanoparticles prepared at high metal concentration. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2007, 302, 623-627.	2.3	30
25	Advanced synthesis for monodisperse polymer nanoparticles in aqueous media with sub-millimolar surfactants. Polymer, 2014, 55, 2772-2779.	1.8	30
26	Ellipsoidal Artificial Melanin Particles as Building Blocks for Biomimetic Structural Coloration. Langmuir, 2019, 35, 5574-5580.	1.6	30
27	Single- and multi-layered patterns of polystyrene and silica particles assembled with a simple dip-coating. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2008, 317, 722-729.	2.3	29
28	Colloidal Polarization of Yolk/Shell Particles by Reconfiguration of Inner Cores Responsive to an External Magnetic Field. Langmuir, 2013, 29, 9004-9009.	1.6	29
29	Electrostatic Interactions in Formation of Particles from Tetraethyl Orthosilicate.. Journal of Chemical Engineering of Japan, 2000, 33, 468-473.	0.3	29
30	Transparent, highly dielectric poly(vinylidene fluoride) nanocomposite film homogeneously incorporating BaTiO3 nanoparticles with fluoroalkylsilane surface modifier. European Polymer Journal, 2015, 66, 528-532.	2.6	25
31	Preparation of Micrometer-Sized Polymer Particles with Control of Initiator Dissociation during Soap-Free Emulsion Polymerization. Langmuir, 2006, 22, 10958-10962.	1.6	24
32	Synthesis of Submicron-Sized Titania-Coated Silica Particles with a Sol-Gel Method and Their Application to Colloidal Photonic Crystals. Journal of Sol-Gel Science and Technology, 2006, 38, 91-95.	1.1	24
33	Solvent Effects on Particle Formation in Hydrolysis of Tetraethyl Orthosilicate. Journal of Sol-Gel Science and Technology, 2005, 35, 197-201.	1.1	22
34	Multiformity of particle arrays assembled with a simple dip-coating. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2007, 311, 26-31.	2.3	22
35	Preparation of composite particles with magnetic silica core and fluorescent polymer shell. Colloid and Polymer Science, 2008, 286, 959-964.	1.0	21
36	Soap-free synthesis of highly monodisperse magnetic polymer particles with amphoteric initiator. Colloid and Polymer Science, 2010, 288, 55-61.	1.0	21

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37	Environmentally adaptable pathway to emulsion polymerization for monodisperse polymer nanoparticle synthesis. Polymer, 2015, 77, 64-69.	1.8	21
38	Preparation of silica-coated Coâ€“Pt alloy nanoparticles. Materials Letters, 2006, 60, 2046-2049.	1.3	19
39	Deposition of Gold Nanoparticles on Polystyrene Spheres by Electroless Metal Plating Technique. Journal of Physics: Conference Series, 2007, 61, 582-586.	0.3	19
40	Fabrication of barium titanate nanoparticlesâ€epoxy resin composite films and their dielectric properties. Polymer Composites, 2010, 31, 1179-1183.	2.3	18
41	Repetitive Heterocoagulation of Oppositely Charged Particles for Enhancement of Magnetic Nanoparticle Loading into Monodisperse Silica Particles. Langmuir, 2010, 26, 4207-4211.	1.6	18
42	Yolk/Shell Colloidal Crystals Incorporating Movable Cores with Their Motion Controlled by an External Electric Field. Langmuir, 2017, 33, 296-302.	1.6	18
43	Observation of Undamped 3D Brownian Motion of Nanoparticles Using Liquidâ€Cell Scanning Transmission Electron Microscopy. Particle and Particle Systems Characterization, 2020, 37, 2000003.	1.2	18
44	X-Ray Absorption of Gold Nanoparticles with Thin Silica Shell. Journal of Nanoscience and Nanotechnology, 2006, 6, 3503-3506.	0.9	17
45	Fabrication of sub-micrometer-sized jingle bell-shaped hollow spheres from multilayered coreâ€“shell particles. Journal of Colloid and Interface Science, 2004, 279, 281-283.	5.0	16
46	Quantitative understanding of the self-sharpening of growing polymer particle size distributions in soap-free emulsion polymerization. Polymer, 2015, 68, 176-182.	1.8	16
47	Synthesis of Silica Particles in the Hydrolysis of Tetraethyl Orthosilicate with Amine Catalysts. Journal of Chemical Engineering of Japan, 2004, 37, 905-907.	0.3	15
48	A durable PtRu/C catalyst with a thin protective layer for direct methanol fuel cells. Journal of Colloid and Interface Science, 2010, 351, 580-583.	5.0	15
49	Preparation of oil-containing, polymeric particles having a single depression with various shapes. Soft Matter, 2012, 8, 4652.	1.2	15
50	Direct observation of micron-sized silica rattles to demonstrate movability of inner spheres in the silica compartment suspended in aqueous media. Soft Matter, 2012, 8, 3442.	1.2	15
51	Compartmentalization of gold nanoparticle clusters in hollow silica spheres and their assembly induced by an external electric field. Journal of Colloid and Interface Science, 2020, 566, 202-210.	5.0	15
52	Preparation and catalytic use of silica-polymer coreâ€“shell microspheres with imidazolium-styrene copolymer shells. Catalysis Communications, 2009, 11, 227-231.	1.6	14
53	Novel Mini-Reactor of Silicone Oil Droplets for Synthesis of Morphology-Controlled Polymer Particles. Langmuir, 2012, 28, 17642-17646.	1.6	14
54	Magnetoresponsive, anisotropic composite particles reversibly changing their chain lengths by a combined external field. Soft Matter, 2012, 8, 11152.	1.2	14

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55	Dispersed-Nanoparticle Loading Synthesis for Monodisperse Au-Titania Composite Particles and Their Crystallization for Highly Active UV and Visible Photocatalysts. Langmuir, 2014, 30, 7244-7250.	1.6	14
56	Fabrication of Eu-coated silica particles by homogeneous precipitation method. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2008, 326, 109-114.	2.3	13
57	Magnetic Field Aligned Assembly of Nonmagnetic Composite Dumbbells in Nanoparticle-Based Aqueous Ferrofluid. Langmuir, 2015, 31, 5590-5595.	1.6	13
58	Depletion-interaction-driven assembly of golf ball-like particles for development of colloidal macromolecules. Journal of Colloid and Interface Science, 2019, 534, 81-87.	5.0	13
59	Fabrication of Mono- and Multi-Layers of Submicron-Sized Spheres by a Dip-Coating Technique and Their Transmittance Property. Journal of Chemical Engineering of Japan, 2004, 37, 614-621.	0.3	12
60	Synthesis of Ptâ€“Ru nanoparticles with a bifunctional stabilizer. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2006, 273, 97-100.	2.3	12
61	Rattle-Type Colloidal Crystals Composed of Spherical Hollow Particles Containing an Anisotropic, Movable Core. Langmuir, 2015, 31, 5306-5310.	1.6	12
62	The plasmonic properties of gold nanoparticle clusters formed via applying an AC electric field. Soft Matter, 2018, 14, 3372-3377.	1.2	12
63	Synthesis and properties of Coâ€“Pt alloy silica core-shell particles. Journal of Sol-Gel Science and Technology, 2008, 47, 16-22.	1.1	11
64	Silica coating of Coâ€“Pt alloy nanoparticles prepared in the presence of poly(vinylpyrrolidone). Journal of Nanoparticle Research, 2009, 11, 1787-1794.	0.8	11
65	Anionic liposome template synthesis of raspberry-like hollow silica particle under ambient conditions with basic catalyst. Colloids and Surfaces B: Biointerfaces, 2012, 92, 372-376.	2.5	11
66	Fabrication of highly refractive BaTiO3 nanocomposite films using heat resistant polymer as matrix. European Polymer Journal, 2013, 49, 3455-3459.	2.6	11
67	Imprinting Dimples on Narrowly Dispersed Polymeric Spheres by Heterocoagulation between Hard Polymer Particles and Soft Oil Droplets. Langmuir, 2016, 32, 11600-11605.	1.6	11
68	External-Stimuli-Assisted Control over Assemblies of Plasmonic Metals. Materials, 2018, 11, 794.	1.3	11
69	Size control of polystyrene nodules formed on silica particles in soap-free emulsion polymerization with amphoteric initiator. Colloid and Polymer Science, 2009, 287, 1051-1056.	1.0	10
70	Preparation of various Janus composite particles with two components differently combined. Colloid and Polymer Science, 2013, 291, 137-142.	1.0	9
71	Low temperature fabrication of barium titanate hybrid films and their dielectric properties. Thin Solid Films, 2011, 519, 1971-1975.	0.8	8
72	Polymer-coating of photocatalytic particles to prevent sintering in their calcination process. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2020, 599, 124782.	2.3	8

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73	Effect of silica-coating on crystal structure and magnetic properties of metallic nickel particles. Advanced Powder Technology, 2021, 32, 4177-4185.	2.0	8
74	Direct Coating of Particles by a Liquid Phase Process. Current Nanoscience, 2007, 3, 222-240.	0.7	7
75	Synthesis of phosphor-free luminescent, monodisperse, mesoporous silica nanoparticles in the co-presence of double- and single-chain cationic surfactants. Advanced Powder Technology, 2016, 27, 448-453.	2.0	7
76	Pore expanding effect of hydrophobic agent on 100 nm-sized mesoporous silica particles estimated based on Hansen solubility parameters. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 609, 125647.	2.3	7
77	Tunability of Interactions between the Core and Shell in Rattle-Type Particles Studied with Liquid-Cell Electron Microscopy. ACS Nano, 2021, 15, 11137-11149.	7.3	7
78	Preparation and properties of silica-coated metallic nickel particles. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 629, 127524.	2.3	7
79	Double-Inverse-Opal-Structured Particle Assembly as a Novel Immobilized Photocatalytic Material. Materials, 2021, 14, 28.	1.3	7
80	Fabrication of Sub-Micron Sized Titania Hollow Spheres. Journal of Chemical Engineering of Japan, 2004, 37, 912-914.	0.3	6
81	Miniaturization of anisotropic composite particles incorporating a silica particle smaller than 100Ânm. Colloid and Polymer Science, 2014, 292, 449-454.	1.0	6
82	Three-dimensional periodic structures of gold nanoclusters in the interstices of sub-100â€¯nm polymer particles toward surface-enhanced Raman scattering. Advanced Powder Technology, 2019, 30, 2957-2963.	2.0	6
83	Polyethylenimine-assisted synthesis of hollow silica spheres without shape deformation. Materials Chemistry and Physics, 2021, 262, 124267.	2.0	6
84	Development of X-ray contrast agents using single nanometer-sized gold nanoparticles and lactoferrin complex and their application in vascular imaging. Colloids and Surfaces B: Biointerfaces, 2021, 203, 111732.	2.5	6
85	A reinforced, high-Îº ternary polymer nanocomposite dielectrics of PVDF, barium titanate nanoparticles, and TEMPO-oxidized cellulose nanofibers. Composites Part C: Open Access, 2021, 5, 100163.	1.5	6
86	Influence of Different Parameters on the Particle and Crystallite Sizes of Barium Titanate Prepared by an Alkoxide Sol-Gel Method. Journal of the Ceramic Society of Japan, 2007, 115, 661-666.	0.5	5
87	Luminescence enhancement of Eu-doped amorphous barium titanate films with crystalline BaTiO3 nanoparticle incorporation. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2012, 409, 94-97.	2.3	5
88	A unified mechanism to quantitatively understand silica particle formation from tetraethyl orthosilicate in batch and semi-batch processes. Journal of Colloid and Interface Science, 2013, 394, 63-68.	5.0	5
89	Synthesis of monodisperse composite poly(N-isopropylacrylamide) microgels incorporating dispersive Pt nanoparticles with high contents. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2014, 446, 134-138.	2.3	5
90	Chemical bonding heterocoagulation of nanoparticles onto polymeric spheres by two-step addition of polymerizable coupling agent. Colloid and Polymer Science, 2015, 293, 2095-2100.	1.0	5

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91	Luminescence enhancement of ZnO-poly(methylmethacrylate) nanocomposite films by incorporation of crystalline BaTiO 3 nanoparticles. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2016, 211, 173-177.	1.7	5
92	Uniform formation of mesoporous silica shell on micron-sized cores in the presence of hydrocarbon used as a swelling agent. Journal of Sol-Gel Science and Technology, 2018, 85, 539-545.	1.1	5
93	Surface Characteristics of Antibacterial Polystyrene Nanoparticles Synthesized Using Cationic Initiator and Comonomers. ACS Applied Bio Materials, 2022, 5, 2202-2211.	2.3	5
94	Direct micropatterning of high dielectric BaTiO3 films by laser-induced pyrolysis with a nano-crystalline seeding technique. Applied Surface Science, 2007, 253, 5293-5301.	3.1	4
95	Fabrication of BaTiO₃â€“Y:Eu composite micropatterns by combination of laser induced pyrolysis method and nanocrystalline seeding technique. Surface Engineering, 2011, 27, 410-413.	1.1	4
96	Ceria nanoparticle vesicles formed in sodium oleate aqueous solution with mesoporous silica coating. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2014, 441, 638-642.	2.3	4
97	Fabrication of Double Inverse Opals via Binary Colloidal Crystals of Inorganic-Organic Core-Shell Particles and Inorganic Nanoparticles. Journal of Chemical Engineering of Japan, 2015, 48, 933-936.	0.3	4
98	Optimized Thermal Treatment for Preparation of Double Inverse Opals Incorporating Movable Cores. Journal of Chemical Engineering of Japan, 2017, 50, 64-67.	0.3	4
99	Characterization on magnetophoretic velocity of the cluster of submicron-sized composite particles applicable to magnetic separation and purification. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2019, 568, 141-146.	2.3	4
100	Low-temperature synthesis of water-dispersible magnetic composite particles with high monodispersity. Colloid and Polymer Science, 2016, 294, 2079-2085.	1.0	3
101	Fabrication of Monodispersed, Multilayered Silica-Y:Eu-Silica Core-Shell Particles and Their Photonic Crystals. Journal of Chemical Engineering of Japan, 2009, 42, 47-50.	0.3	3
102	An experimental study on emulsion polymerization for formation of monodisperse particles smaller than 50Ânm. Colloid and Polymer Science, 2022, 300, 397-405.	1.0	3
103	Agitation requirement for synthesis of micron-sized monodisperse polymer particles in soap-free polymerization method. Colloid and Polymer Science, 2007, 285, 581-586.	1.0	2
104	Development of High-throughput Screening Reactor Using Microwave Heating and Screening of Solid Catalysts for Friedel-Crafts Reaction. Journal of the Japan Petroleum Institute, 2011, 54, 30-35.	0.4	2
105	One Pot Soap-Free Synthesis of Fluorescent, Magnetic Composite Particles with High Monodispersity. Journal of Chemical Engineering of Japan, 2015, 48, 584-587.	0.3	2
106	Fabrication of highly refractive, heat-resistive barium titanate nanocomposite films using a blending route. Materials Today Communications, 2015, 4, 233-237.	0.9	2
107	Phosphor-free silica-coating of monodisperse cores for dual functionalization with luminescent and mesoporous shell. Microporous and Mesoporous Materials, 2017, 241, 366-371.	2.2	2
108	Unary- or binary-plasmonic nanoparticle-assemblies formed within hollow silica particles with a surfactant-assisted method. Materials Letters, 2018, 221, 256-259.	1.3	2

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109	Permittivity enhancement of transparent poly(vinylidene fluoride) nanocomposite films by loading titania-coated barium titanate nanoparticles. Journal of Nanoparticle Research, 2018, 20, 1.	0.8	2
110	Correlation of Secondary Particle Number with the Debyeâ€“HÃ¼ckel Parameter for Thickening Mesoporous Silica Shells Formed on Spherical Cores. ACS Omega, 2021, 6, 17734-17740.	1.6	2
111	Preparation of fluorescent polymer particles by emulsion polymerization. E-Polymers, 2005, 5, .	1.3	1
112	Multipoint Lock-and-Key Assembly of Particles with Anisotropic Dents toward Modeling Rigid Macromolecules in a Colloidal Scale. Langmuir, 2021, 37, 9451-9456.	1.6	1
113	Fabrication of BaTiO3 Micropatterns by a Combination of Laser-Induced Pyrolysis Method and Nano-Crystalline Seeding Technique and Their Dielectric Properties. Journal of Chemical Engineering of Japan, 2010, 43, 132-139.	0.3	1
114	Influence of Ammonia Concentration on Particle Size Distributions in Seeded Reaction of Hydrolysis and Condensation of Tetraethyl Orthosilicate. Kagaku Kogaku Ronbunshu, 2003, 29, 546-550.	0.1	1
115	Effects of Impeller Speed on Synthesis of Monodisperse Silica Particles. Kagaku Kogaku Ronbunshu, 2005, 31, 200-203.	0.1	0
116	Morphology Control of Photocatalytic Particles for Their Self-Propelled Motion. Hosokawa Powder Technology Foundation ANNUAL REPORT, 2022, 29, 51-55.	0.0	0