Toshio Sakai

List of Publications by Year
in descending order

52	1,769	394421	265206
papers	citations	19 h-index	42 g-index

52	52	52	2077
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Colloidal Stability of Emulsifier-free Triolein-in-Water Emulsions: Effects of Temperature. Journal of Oleo Science, 2022, 71, 75-81.	1.4	4
2	Nanopore structure analysis of single wall carbon nanotube xerogels and cryogels. Adsorption, 2021, 27, 673-681.	3.0	1
3	Potential of High-Powered Bath-Type Ultrasonicator for Manufacturing of Emulsifier-Free Emulsions. Journal of the Japan Society of Colour Material, 2021, 94, 245-251.	0.1	3
4	Unimodal sized silica nanocapsules produced through water-in-oil emulsions prepared by sequential irradiation of kilo- and submega-hertz ultrasounds. RSC Advances, 2021, 11, 22921-22928.	3.6	3
5	Pore-Mouth Structure of Highly Agglomerated Detonation Nanodiamonds. Nanomaterials, 2021, 11, 2772.	4.1	1
6	Emulsifier-Free Emulsions. Journal of the Japan Society of Colour Material, 2020, 93, 105-110.	0.1	1
7	Unusual hygroscopic nature of nanodiamonds in comparison with well-known porous materials. Journal of Colloid and Interface Science, 2019, 549, 133-139.	9.4	12
8	Colloidal stabilization of surfactant-free emulsion by control of molecular diffusion among droplets. Journal of the Taiwan Institute of Chemical Engineers, 2018, 92, 123-128.	5.3	9
9	Organogel-in-Water Emulsions as Thermal-Energy Storage and Heat Transfer Fluids. Journal of the Japan Society of Colour Material, 2018, 91, 85-88.	0.1	1
10	Hexadecane-in-water emulsions as thermal-energy storage and heat transfer fluids: Connections between phase-transition temperature and period of hexadecane droplets dispersed in hexadecane-in-water emulsions and characteristics of surfactants. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2017, 529, 394-402.	4.7	15
11	In situ observation of Pt oxides on the low index planes of Pt using surface enhanced Raman spectroscopy. Physical Chemistry Chemical Physics, 2017, 19, 27570-27579.	2.8	33
12	Adsorption-desorption mediated separation of low concentrated D2O from water with hydrophobic activated carbon fiber. Journal of Colloid and Interface Science, 2017, 508, 14-17.	9.4	7
13	Water Adsorption Property of Hierarchically Nanoporous Detonation Nanodiamonds. Langmuir, 2017, 33, 11180-11188.	3.5	28
14	Colloidal Stability of Emulsifier-Free Oil-in-Water Emulsions:. Journal of the Japan Society of Colour Material, 2017, 90, 375-382.	0.1	0
15	Organic Phase-Change Material-in-Water Emulsions as Thermal-Energy Storage and Transfer Fluids. Journal of the Japan Society of Colour Material, 2017, 90, 168-173.	0.1	0
16	Potential of Organic Phase Change Material Gel and Organic Phase Change Material Gel-in-Water Emulsion as Heat Storage Materials. Journal of the Japan Society of Colour Material, 2016, 89, 251-257.	0.1	0
17	Emulsifier-Free Water-in-Oil Emulsions:. Journal of the Japan Society of Colour Material, 2016, 89, 333-339.	0.1	4
18	Metal Nano-coating on Polymer Particles in Aqueous Media Using Ultrasound. Hyomen Gijutsu/Journal of the Surface Finishing Society of Japan, 2016, 67, 175-178.	0.2	0

#	Article	IF	Citations
19	Essential Role of Viscosity of SWCNT Inks in Homogeneous Conducting Film Formation. Langmuir, 2016, 32, 6909-6916.	3.5	6
20	Preparation of porous thin-film polymethylsiloxane microparticles in a W/O emulsion system. Polymer Journal, 2015, 47, 449-455.	2.7	4
21	Block copolymer-mediated synthesis of silver nanoparticles from silver ions in aqueous media. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2015, 487, 84-91.	4.7	16
22	Fabrication of Nanomaterials Using Pluronic-type Surfactants. Oleoscience, 2014, 14, 47-54.	0.0	0
23	Hydrogen-assisted fabrication of spherical gold nanoparticles through sonochemical reduction of tetrachloride gold(III) ions in water. Ultrasonics Sonochemistry, 2014, 21, 946-950.	8.2	24
24	Encapsulation of a Polyoxometalate into an Organosilica Microcapsule for Highly Active Solid Acid Catalysis. ACS Catalysis, 2014, 4, 73-78.	11.2	35
25	Magnetic Rattle-Type Coreâ€“Shell Particles Containing Iron Compounds with Acid Tolerance by Dense Silica. Industrial & Engineering Chemistry Research, 2014, 53, 8759-8765.	3.7	10
26	Colloidal Stability of Emulsifier-free Water-in-Oil Emulsions: Effect of Oil Property. Journal of the Japan Society of Colour Material, 2014, 87, 387-392.	0.1	4
27	Block copolymer-mediated synthesis of gold nanoparticles in aqueous solutions: Segment effect on gold ion reduction, stabilization, and particle morphology. Journal of Colloid and Interface Science, 2013, 394, 124-131.	9.4	26
28	Titania/CnTAB Nanoskeleton as adsorbent and photocatalyst for removal of alkylphenols dissolved in water. Journal of Hazardous Materials, 2013, 248-249, 487-495.	12.4	11
29	Lateral Size Effect on Electrochemical Capacitor Performance of Reduced Graphite Oxide Nanosheets. Electrochemistry, 2013, 81, 873-876.	1.4	5
30	Autoreduction of tetrachloride gold(III) ions and spontaneous formation of gold nanoparticles in sonicated water. , 2012, , .		1
31	Swellable Microsphere of a Layered Silicate Produced by Using Monodispersed Silica Particles. Journal of Physical Chemistry C, 2012, 116, 21864-21869.	3.1	26
32	Multi-shaped Gold Nanoparticles Synthesized Using an Amino-terminated Poly(ethylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 227 Td (c 501-503.	1.3	4
33	A Facile Route of Gold Nanoparticle Synthesis and Surface Modification Using Amino-Terminated Poly(ethylene oxide)-Poly(propylene oxide) Block Copolymers. Journal of Nanoscience and Nanotechnology, 2010, 10, 919-926.	0.9	11
34	Highâ€¥ield Synthesis of Gold Microplates Using Amphiphilic Block Copolymers: Are Lyotropic Liquid Crystals Required?. Macromolecular Symposia, 2010, 289, 18-24.	0.7	13
35	Preparation of Highly Crystalline TiO2 Nanostructures by Acid-assisted Hydrothermal Treatment of Hexagonal-structured Nanocrystalline Titania/Cetyltrimethyammonium Bromide Nanoskeleton. Nanoscale Research Letters, 2010, 5, 1829-1835.	5.7	182
36	Pore-size expansion of hexagonal-structured nanocrystalline titania/CTAB Nanoskeleton using cosolvent organic molecules. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2010, 371, 29-39.	4.7	1

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37	Facile Preparation of Gold Nanoparticles-Liposome Composites. Journal of Nanoscience and Nanotechnology, 2009, 9, 461-466.	0.9	12
38	Surfactant- and reducer-free synthesis of gold nanoparticles in aqueous solutions. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2009, 347, 18-26.	4.7	56
39	Surfactant-free emulsions. Current Opinion in Colloid and Interface Science, 2008, 13, 228-235.	7.4	92
40	Formation Mechanism for Hexagonal-Structured Self-Assemblies of Nanocrystalline Titania Templated by Cetyltrimethylammonium Bromide. Journal of Oleo Science, 2008, 57, 629-637.	1.4	8
41	Ag and Au Monometallic and Bimetallic Colloids:â€‰ Morphogenesis in Amphiphilic Block Copolymer Solutions. Chemistry of Materials, 2006, 18, 2577-2583.	6.7	81
42	Facile preparation of Agâ€“Au bimetallic nanonetworks. Materials Letters, 2006, 60, 1983-1986.	2.6	15
43	Mechanism of Gold Metal Ion Reduction, Nanoparticle Growth and Size Control in Aqueous Amphiphilic Block Copolymer Solutions at Ambient Conditions. Journal of Physical Chemistry B, 2005, 109, 7766-7777.	2.6	288
44	Spontaneous Formation of Gold Nanoparticles in Poly(ethylene oxide)â^'Poly(propylene oxide) Solutions:â€‰ Solvent Quality and Polymer Structure Effects. Langmuir, 2005, 21, 8019-8025.	3.5	89
45	Size- and shape-controlled synthesis of colloidal gold through autoreduction of the auric cation by poly(ethylene oxide)â€“poly(propylene oxide) block copolymers in aqueous solutions at ambient conditions. Nanotechnology, 2005, 16, S344-S353.	2.6	97
46	Single-Step Synthesis and Stabilization of Metal Nanoparticles in Aqueous Pluronic Block Copolymer Solutions at Ambient Temperature. Langmuir, 2004, 20, 8426-8430.	3.5	274
47	Monitoring Growth of Surfactant-Free Nanodroplets Dispersed in Water by Single-Droplet Detection. Journal of Physical Chemistry B, 2003, 107, 2921-2926.	2.6	19
48	Dispersion and Stabilization in Water of Droplets of Hydrophobic Organic Liquids with the Addition of Hydrophobic Polymers. Langmuir, 2003, 19, 4063-4069.	3.5	31
49	Molecular Diffusion of Oil/Water Emulsions in Surfactant-Free Conditions. Langmuir, 2002, 18, 1985-1990.	3.5	69
50	Direct Observation of Flocculation/Coalescence of Metastable Oil Droplets in Surfactant-free Oil/Water Emulsion by Freeze-Fracture Electron Microscopy. Langmuir, 2001, 17, 255-259.	3.5	42
51	Surfactant-free O/W emulsion formation of oleic acid and its esters with ultrasonic dispersion. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2001, 180, 41-53.	4.7	53
52	Dispersion and Stabilizing Effects of n-Hexadecane on Tetralin and Benzene Metastable Droplets in Surfactant-Free Conditions. Langmuir, 1999, 15, 1913-1917.	3.5	42