

Toshio Sakai

List of Publications by Year in descending order

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52
papers

1,769
citations

394421

19
h-index

265206

42
g-index

52
all docs

52
docs citations

52
times ranked

2077
citing authors

#	ARTICLE	IF	CITATIONS
1	Mechanism of Gold Metal Ion Reduction, Nanoparticle Growth and Size Control in Aqueous Amphiphilic Block Copolymer Solutions at Ambient Conditions. <i>Journal of Physical Chemistry B</i> , 2005, 109, 7766-7777.	2.6	288
2	Single-Step Synthesis and Stabilization of Metal Nanoparticles in Aqueous Pluronic Block Copolymer Solutions at Ambient Temperature. <i>Langmuir</i> , 2004, 20, 8426-8430.	3.5	274
3	Preparation of Highly Crystalline TiO ₂ Nanostructures by Acid-assisted Hydrothermal Treatment of Hexagonal-structured Nanocrystalline Titania/Cetyltrimethylammonium Bromide Nanoskeleton. <i>Nanoscale Research Letters</i> , 2010, 5, 1829-1835.	5.7	182
4	Size- and shape-controlled synthesis of colloidal gold through autoreduction of the auric cation by poly(ethylene oxide)-poly(propylene oxide) block copolymers in aqueous solutions at ambient conditions. <i>Nanotechnology</i> , 2005, 16, S344-S353.	2.6	97
5	Surfactant-free emulsions. <i>Current Opinion in Colloid and Interface Science</i> , 2008, 13, 228-235.	7.4	92
6	Spontaneous Formation of Gold Nanoparticles in Poly(ethylene oxide)-Poly(propylene oxide) Solutions: Solvent Quality and Polymer Structure Effects. <i>Langmuir</i> , 2005, 21, 8019-8025.	3.5	89
7	Ag and Au Monometallic and Bimetallic Colloids: Morphogenesis in Amphiphilic Block Copolymer Solutions. <i>Chemistry of Materials</i> , 2006, 18, 2577-2583.	6.7	81
8	Molecular Diffusion of Oil/Water Emulsions in Surfactant-Free Conditions. <i>Langmuir</i> , 2002, 18, 1985-1990.	3.5	69
9	Surfactant- and reducer-free synthesis of gold nanoparticles in aqueous solutions. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2009, 347, 18-26.	4.7	56
10	Surfactant-free O/W emulsion formation of oleic acid and its esters with ultrasonic dispersion. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2001, 180, 41-53.	4.7	53
11	Dispersion and Stabilizing Effects of n-Hexadecane on Tetralin and Benzene Metastable Droplets in Surfactant-Free Conditions. <i>Langmuir</i> , 1999, 15, 1913-1917.	3.5	42
12	Direct Observation of Flocculation/Coalescence of Metastable Oil Droplets in Surfactant-free Oil/Water Emulsion by Freeze-Fracture Electron Microscopy. <i>Langmuir</i> , 2001, 17, 255-259.	3.5	42
13	Encapsulation of a Polyoxometalate into an Organosilica Microcapsule for Highly Active Solid Acid Catalysis. <i>ACS Catalysis</i> , 2014, 4, 73-78.	11.2	35
14	In situ observation of Pt oxides on the low index planes of Pt using surface enhanced Raman spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 27570-27579.	2.8	33
15	Dispersion and Stabilization in Water of Droplets of Hydrophobic Organic Liquids with the Addition of Hydrophobic Polymers. <i>Langmuir</i> , 2003, 19, 4063-4069.	3.5	31
16	Water Adsorption Property of Hierarchically Nanoporous Detonation Nanodiamonds. <i>Langmuir</i> , 2017, 33, 11180-11188.	3.5	28
17	Swellable Microsphere of a Layered Silicate Produced by Using Monodispersed Silica Particles. <i>Journal of Physical Chemistry C</i> , 2012, 116, 21864-21869.	3.1	26
18	Block copolymer-mediated synthesis of gold nanoparticles in aqueous solutions: Segment effect on gold ion reduction, stabilization, and particle morphology. <i>Journal of Colloid and Interface Science</i> , 2013, 394, 124-131.	9.4	26

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19	Hydrogen-assisted fabrication of spherical gold nanoparticles through sonochemical reduction of tetrachloride gold(III) ions in water. <i>Ultrasonics Sonochemistry</i> , 2014, 21, 946-950.	8.2	24
20	Monitoring Growth of Surfactant-Free Nanodroplets Dispersed in Water by Single-Droplet Detection. <i>Journal of Physical Chemistry B</i> , 2003, 107, 2921-2926.	2.6	19
21	Block copolymer-mediated synthesis of silver nanoparticles from silver ions in aqueous media. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2015, 487, 84-91.	4.7	16
22	Facile preparation of Ag@Au bimetallic nanonetworks. <i>Materials Letters</i> , 2006, 60, 1983-1986.	2.6	15
23	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. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2017, 529, 394-402.	4.7	15
24	High-Yield Synthesis of Gold Microplates Using Amphiphilic Block Copolymers: Are Lyotropic Liquid Crystals Required?. <i>Macromolecular Symposia</i> , 2010, 289, 18-24.	0.7	13
25	Facile Preparation of Gold Nanoparticles-Liposome Composites. <i>Journal of Nanoscience and Nanotechnology</i> , 2009, 9, 461-466.	0.9	12
26	Unusual hygroscopic nature of nanodiamonds in comparison with well-known porous materials. <i>Journal of Colloid and Interface Science</i> , 2019, 549, 133-139.	9.4	12
27	A Facile Route of Gold Nanoparticle Synthesis and Surface Modification Using Amino-Terminated Poly(ethylene oxide)-Poly(propylene oxide) Block Copolymers. <i>Journal of Nanoscience and Nanotechnology</i> , 2010, 10, 919-926.	0.9	11
28	Titania/CnTAB Nanoskeleton as adsorbent and photocatalyst for removal of alkylphenols dissolved in water. <i>Journal of Hazardous Materials</i> , 2013, 248-249, 487-495.	12.4	11
29	Magnetic Rattle-Type Core-Shell Particles Containing Iron Compounds with Acid Tolerance by Dense Silica. <i>Industrial & Engineering Chemistry Research</i> , 2014, 53, 8759-8765.	3.7	10
30	Colloidal stabilization of surfactant-free emulsion by control of molecular diffusion among droplets. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2018, 92, 123-128.	5.3	9
31	Formation Mechanism for Hexagonal-Structured Self-Assemblies of Nanocrystalline Titania Templated by Cetyltrimethylammonium Bromide. <i>Journal of Oleo Science</i> , 2008, 57, 629-637.	1.4	8
32	Adsorption-desorption mediated separation of low concentrated D2O from water with hydrophobic activated carbon fiber. <i>Journal of Colloid and Interface Science</i> , 2017, 508, 14-17.	9.4	7
33	Essential Role of Viscosity of SWCNT Inks in Homogeneous Conducting Film Formation. <i>Langmuir</i> , 2016, 32, 6909-6916.	3.5	6
34	Lateral Size Effect on Electrochemical Capacitor Performance of Reduced Graphite Oxide Nanosheets. <i>Electrochemistry</i> , 2013, 81, 873-876.	1.4	5
35	Multi-shaped Gold Nanoparticles Synthesized Using an Amino-terminated Poly(ethylene) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 501-503.	1.3	4
36	Colloidal Stability of Emulsifier-free Water-in-Oil Emulsions: Effect of Oil Property. <i>Journal of the Japan Society of Colour Material</i> , 2014, 87, 387-392.	0.1	4

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37	Preparation of porous thin-film polymethylsiloxane microparticles in a W/O emulsion system. <i>Polymer Journal</i> , 2015, 47, 449-455.	2.7	4
38	Emulsifier-Free Water-in-Oil Emulsions:. <i>Journal of the Japan Society of Colour Material</i> , 2016, 89, 333-339.	0.1	4
39	Colloidal Stability of Emulsifier-free Triolein-in-Water Emulsions: Effects of Temperature. <i>Journal of Oleo Science</i> , 2022, 71, 75-81.	1.4	4
40	Potential of High-Powered Bath-Type Ultrasonicator for Manufacturing of Emulsifier-Free Emulsions. <i>Journal of the Japan Society of Colour Material</i> , 2021, 94, 245-251.	0.1	3
41	Unimodal sized silica nanocapsules produced through water-in-oil emulsions prepared by sequential irradiation of kilo- and submega-hertz ultrasounds. <i>RSC Advances</i> , 2021, 11, 22921-22928.	3.6	3
42	Pore-size expansion of hexagonal-structured nanocrystalline titania/CTAB Nanoskeleton using cosolvent organic molecules. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2010, 371, 29-39.	4.7	1
43	Autoreduction of tetrachloride gold(III) ions and spontaneous formation of gold nanoparticles in sonicated water. , 2012, , .		1
44	Organogel-in-Water Emulsions as Thermal-Energy Storage and Heat Transfer Fluids. <i>Journal of the Japan Society of Colour Material</i> , 2018, 91, 85-88.	0.1	1
45	Nanopore structure analysis of single wall carbon nanotube xerogels and cryogels. <i>Adsorption</i> , 2021, 27, 673-681.	3.0	1
46	Pore-Mouth Structure of Highly Agglomerated Detonation Nanodiamonds. <i>Nanomaterials</i> , 2021, 11, 2772.	4.1	1
47	Emulsifier-Free Emulsions. <i>Journal of the Japan Society of Colour Material</i> , 2020, 93, 105-110.	0.1	1
48	Fabrication of Nanomaterials Using Pluronic-type Surfactants. <i>Oleoscience</i> , 2014, 14, 47-54.	0.0	0
49	Potential of Organic Phase Change Material Gel and Organic Phase Change Material Gel-in-Water Emulsion as Heat Storage Materials. <i>Journal of the Japan Society of Colour Material</i> , 2016, 89, 251-257.	0.1	0
50	Metal Nano-coating on Polymer Particles in Aqueous Media Using Ultrasound. <i>Hyomen Gijutsu/Journal of the Surface Finishing Society of Japan</i> , 2016, 67, 175-178.	0.2	0
51	Colloidal Stability of Emulsifier-Free Oil-in-Water Emulsions:. <i>Journal of the Japan Society of Colour Material</i> , 2017, 90, 375-382.	0.1	0
52	Organic Phase-Change Material-in-Water Emulsions as Thermal-Energy Storage and Transfer Fluids. <i>Journal of the Japan Society of Colour Material</i> , 2017, 90, 168-173.	0.1	0