

Ayae Sugawara-Narutaki

List of Publications by Year in descending order

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67
papers

2,645
citations

218662

26
h-index

182417

51
g-index

67
all docs

67
docs citations

67
times ranked

2679
citing authors

#	ARTICLE	IF	CITATIONS
1	Calcium Carbonateâ€“Organic Hybrid Materials. <i>Advanced Materials</i> , 2002, 14, 869.	21.0	327
2	Self-Organized Calcium Carbonate with Regular Surface-Relief Structures. <i>Angewandte Chemie - International Edition</i> , 2003, 42, 5299-5303.	13.8	178
3	Crystallization Behavior of Zeolite Beta in OSDA-Free, Seed-Assisted Synthesis. <i>Journal of Physical Chemistry C</i> , 2011, 115, 744-750.	3.1	172
4	Template Effect of Crystalline Poly(vinyl alcohol) for Selective Formation of Aragonite and Vaterite CaCO ₃ Thin Films. <i>Macromolecules</i> , 2003, 36, 6449-6452.	4.8	152
5	Self-Organization of Oriented Calcium Carbonate/Polymer Composites: Effects of a Matrix Peptide Isolated from the Exoskeleton of a Crayfish. <i>Angewandte Chemie - International Edition</i> , 2006, 45, 2876-2879.	13.8	143
6	Aragonite CaCO ₃ thin-film formation by cooperation of Mg ²⁺ and organic polymer matrices. <i>Chemical Communications</i> , 2000, , 487-488.	4.1	141
7	Porous Siloxaneâ€“Organic Hybrid with Ultrahigh Surface Area through Simultaneous Polymerizationâ€“Destruction of Functionalized Cubic Siloxane Cages. <i>Journal of the American Chemical Society</i> , 2011, 133, 13832-13835.	13.7	115
8	Two-Phase Synthesis of Monodisperse Silica Nanospheres with Amines or Ammonia Catalyst and Their Controlled Self-Assembly. <i>ACS Applied Materials & Interfaces</i> , 2011, 3, 1538-1544.	8.0	107
9	Hybrid Porous Materials with High Surface Area Derived from Bromophenylethenylâ€“Functionalized Cubic Siloxaneâ€“Based Building Units. <i>Chemistry - A European Journal</i> , 2010, 16, 6006-6014.	3.3	94
10	Nanogel-Templated Mineralization: Polymer-Calcium Phosphate Hybrid Nanomaterials. <i>Macromolecular Rapid Communications</i> , 2006, 27, 441-446.	3.9	88
11	Microporous Hybrid Polymer with a Certain Crystallinity Built from Functionalized Cubic Siloxane Cages as a Singular Building Unit. <i>Chemistry of Materials</i> , 2010, 22, 4841-4843.	6.7	80
12	Three-Dimensional Relief Structures of CaCO ₃ Crystal Assemblies Formed by Spontaneous Two-Step Crystal Growth on a Polymer Thin Film. <i>Crystal Growth and Design</i> , 2009, 9, 622-625.	3.0	57
13	Self-Assembly of Elastinâ€“Mimetic Double Hydrophobic Polypeptides. <i>Biomacromolecules</i> , 2013, 14, 1028-1034.	5.4	57
14	Elastin-like polypeptides as building motifs toward designing functional nanobiomaterials. <i>Molecular Systems Design and Engineering</i> , 2019, 4, 545-565.	3.4	57
15	Direct Hydrothermal Synthesis of Hierarchically Porous Siliceous Zeolite by Using Alkoxysilylated Nonionic Surfactant. <i>Langmuir</i> , 2010, 26, 2731-2735.	3.5	52
16	Assembled structures of nanocrystals in polymer/calcium carbonate thin-film composites formed by the cooperation of chitosan and poly(aspartate). <i>Journal of Polymer Science Part A</i> , 2006, 44, 5153-5160.	2.3	48
17	Effects of Peptides on CaCO ₃ Crystallization: Mineralization Properties of an Acidic Peptide Isolated from Exoskeleton of Crayfish and Its Derivatives. <i>Crystal Growth and Design</i> , 2008, 8, 4062-4065.	3.0	48
18	One-Dimensional Assembly of Silica Nanospheres Mediated by Block Copolymer in Liquid Phase. <i>Journal of the American Chemical Society</i> , 2009, 131, 16344-16345.	13.7	46

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19	Calcium Carbonate/Polymer Thin-Film Hybrids: Induction of the Formation of Patterned Aragonite Crystals by Thermal Treatment of a Polymer Matrix. <i>Polymer Journal</i> , 2009, 41, 522-523.	2.7	38
20	A new synthesis of well-dispersed, core-shell Ag@SiO ₂ mesoporous nanoparticles using amino acids and sugars. <i>Journal of Materials Chemistry B</i> , 2013, 1, 2451.	5.8	34
21	Hybrid Nanoapatite by Polysaccharide Nanogel-templated Mineralization. <i>Journal of Bioactive and Compatible Polymers</i> , 2009, 24, 151-168.	2.1	32
22	Antibacterial Activity of Silver-Loaded "Green Zeolites". <i>European Journal of Inorganic Chemistry</i> , 2012, 2012, 3398-3402.	2.0	30
23	One-Dimensional Assembly of Silica Nanospheres: Effects of Nonionic Block Copolymers. <i>Langmuir</i> , 2012, 28, 13181-13188.	3.5	28
24	Bio-inspired synthesis of polymer-inorganic nanocomposite materials in mild aqueous systems. <i>Polymer Journal</i> , 2013, 45, 269-276.	2.7	28
25	Calcium carbonate/polymer composites: polymorph control for aragonite. <i>Composite Interfaces</i> , 2004, 11, 287-295.	2.3	26
26	Self-organization of Patterned CaCO ₃ /Polymer Composite Films: Tuning of Their Morphologies by the Change of Molecular Weights of Acidic Polymers. <i>Chemistry Letters</i> , 2006, 35, 310-311.	1.3	26
27	Preparation of Anisotropic Silica Nanoparticles via Controlled Assembly of Presynthesized Spherical Seeds. <i>Langmuir</i> , 2010, 26, 18491-18498.	3.5	25
28	Biphasic synthesis of colloidal mesoporous silica nanoparticles using primary amine catalysts. <i>Journal of Colloid and Interface Science</i> , 2012, 385, 41-47.	9.4	25
29	Hydroxyapatite formation on oxidized cellulose nanofibers in a solution mimicking body fluid. <i>Polymer Journal</i> , 2015, 47, 158-163.	2.7	25
30	Generation of Surface-Bound Multicomponent Protein Gradients. <i>ChemBioChem</i> , 2009, 10, 2617-2619.	2.6	24
31	Diol-Linked Microporous Networks of Cubic Siloxane Cages. <i>Chemistry - A European Journal</i> , 2013, 19, 1700-1705.	3.3	23
32	Synthesis of ordered photoresponsive azobenzene-siloxane hybrids by self-assembly. <i>Journal of Materials Chemistry C</i> , 2013, 1, 6989.	5.5	23
33	Development of paclitaxel-loaded poly(lactic acid)/hydroxyapatite core-shell nanoparticles as a stimuli-responsive drug delivery system. <i>Royal Society Open Science</i> , 2021, 8, 202030.	2.4	23
34	Elastin-based silver-binding proteins with antibacterial capabilities. <i>Nanomedicine</i> , 2013, 8, 567-575.	3.3	22
35	Double-hydrophobic elastin-like polypeptides with added functional motifs: Self-assembly and cytocompatibility. <i>Journal of Biomedical Materials Research - Part A</i> , 2017, 105, 2475-2484.	4.0	16
36	Nanogel-Calcium Phosphate Hybrid Nanoparticles with Negative or Positive Charges for Potential Biomedical Applications. <i>Bulletin of the Chemical Society of Japan</i> , 2009, 82, 416-418.	3.2	15

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37	Nanoparticle Vesicles with Controllable Surface Topographies through Block Copolymer-Mediated Self-Assembly of Silica Nanospheres. <i>Langmuir</i> , 2015, 31, 13214-13220.	3.5	15
38	Possible Molecular Evolution of Biomembranes: from Single-Chain to Double-Chain Lipids. <i>Chemistry and Biodiversity</i> , 2007, 4, 837-848.	2.1	14
39	Chain-like nanostructures from anisotropic self-assembly of semiconducting metal oxide nanoparticles with a block copolymer. <i>Chemical Communications</i> , 2012, 48, 11115.	4.1	14
40	Tough and Three-Dimensional-Printable Poly(2-methoxyethyl acrylate)-Silica Composite Elastomer with Antiplatelet Adhesion Property. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 46621-46628.	8.0	14
41	Thixotropic Hydrogels Composed of Self-Assembled Nanofibers of Double-Hydrophobic Elastin-Like Block Polypeptides. <i>International Journal of Molecular Sciences</i> , 2021, 22, 4104.	4.1	14
42	Tri(quaternary ammonium) Surfactant with a Benzene Core as a Novel Template for Synthesis of Ordered Porous Silica. <i>Chemistry Letters</i> , 2010, 39, 236-237.	1.3	11
43	Supported and Free-Standing Sulfonic Acid Functionalized Mesostructured Silica Films with High Proton Conductivity. <i>European Journal of Inorganic Chemistry</i> , 2010, 2010, 3993-3999.	2.0	11
44	Ring assembly of silica nanospheres mediated by amphiphilic block copolymers with oxyethylene moieties. <i>Polymer Journal</i> , 2015, 47, 128-135.	2.7	11
45	Ring-Like Assembly of Silica Nanospheres in the Presence of Amphiphilic Block Copolymer: Effects of Particle Size. <i>Langmuir</i> , 2018, 34, 7751-7758.	3.5	11
46	Structure and Rheology of Poly(vinylidene difluoride-co-hexafluoropropylene) in an Ionic Liquid: The Solvent Behaves as a Weak Cross-Linker through Ion-Dipole Interaction. <i>Macromolecules</i> , 2022, 55, 5591-5600.	4.8	11
47	Facile Synthesis of Well-dispersed Hollow Mesoporous Silica Nanoparticles Using Iron Oxide Nanoparticles as Template. <i>Chemistry Letters</i> , 2013, 42, 316-317.	1.3	10
48	Beaded nanofibers assembled from double-hydrophobic elastin-like block polypeptides: Effects of trifluoroethanol. <i>Biopolymers</i> , 2015, 103, 175-185.	2.4	9
49	Hierarchical porous silica via solid-phase hydrolysis/polycondensation of cubic siloxane-based molecular units. <i>Journal of Materials Chemistry A</i> , 2013, 1, 671-676.	10.3	8
50	Synthesis of string-bean-like anisotropic titania nanoparticles with basic amino acids. <i>RSC Advances</i> , 2014, 4, 9233.	3.6	7
51	Dendritic Silica Nanoparticles Synthesized by a Block Copolymer-Directed Seed-Regrowth Approach. <i>Langmuir</i> , 2015, 31, 1610-1614.	3.5	7
52	Rheology of Dispersions of High-Aspect-Ratio Nanofibers Assembled from Elastin-Like Double-Hydrophobic Polypeptides. <i>International Journal of Molecular Sciences</i> , 2019, 20, 6262.	4.1	7
53	Organic-Inorganic Composites Toward Biomaterial Application. <i>Frontiers of Oral Biology</i> , 2015, 17, 33-38.	1.5	7
54	Tearable and Fillable Composite Sponges Capable of Heat Generation and Drug Release in Response to Alternating Magnetic Field. <i>Materials</i> , 2020, 13, 3637.	2.9	5

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55	Effect of Base Molecules on One-dimensional Assembly of Silica Nanospheres Mediated by a Block Copolymer. <i>Chemistry Letters</i> , 2013, 42, 481-482.	1.3	4
56	Crosslinking-assisted Stabilization of Beaded Nanofibers from Elastin-like Double Hydrophobic Polypeptides. <i>Chemistry Letters</i> , 2015, 44, 530-532.	1.3	4
57	Plant opal-mimetic bunching silica nanoparticles mediated by long-chain polyethyleneimine. <i>RSC Advances</i> , 2016, 6, 1301-1306.	3.6	4
58	Bioinspired Approach to Silica Nanoparticle Synthesis Using Amine-Containing Block Copoly(vinyl) Tj ETQq0 0 0 rgBT/Overlock 10 Tf 50	3.5	4
59	Organic modification of layered zirconium phosphate/phosphonate for controlled release of therapeutic inorganic ions. <i>Science and Technology of Advanced Materials</i> , 2021, 22, 1000-1012.	6.1	4
60	Preparation of layered calcium silicate organically modified with two types of functional groups for varying chemical stability. <i>Journal of Asian Ceramic Societies</i> , 2021, 9, 113-123.	2.3	4
61	Amino Acid-assisted One-dimensional Assembly of Semiconducting Metal Oxide Nanoparticles in Aqueous Alcohol Media. <i>Chemistry Letters</i> , 2014, 43, 934-935.	1.3	3
62	Human stem cell response to layered zirconium phosphate. <i>RSC Advances</i> , 2020, 10, 36051-36057.	3.6	3
63	Evaluation of Drug-Loading Ability of Poly(Lactic Acid)/Hydroxyapatite Core-Shell Particles. <i>Materials</i> , 2021, 14, 1959.	2.9	3
64	Polymer-induced liquid precursors (PILPs) and bone regeneration. , 2021, , 391-398.		1
65	Designer Biopolymers: Self-Assembling Proteins and Nucleic Acids. <i>International Journal of Molecular Sciences</i> , 2020, 21, 3276.	4.1	0
66	Introduction of Alkylammonium into Calcium Silicate Hydrate Towards Application in Development of Novel Biomaterial. <i>Funtai Oyobi Fummatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy</i> , 2018, 65, 325-327.	0.2	0
67	Transformation behaviour of salts composed of calcium ions and phosphate esters with different linear alkyl chain structures in a simulated body fluid modified with alkaline phosphatase. <i>Science and Technology of Advanced Materials</i> , 0, , .	6.1	0