

Se Gyu Jang

List of Publications by Year in descending order

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72
papers

4,346
citations

101543

36
h-index

106344

65
g-index

75
all docs

75
docs citations

75
times ranked

4999
citing authors

#	ARTICLE	IF	CITATIONS
1	Boron Nitride Nanotube-Based Separator for High-Performance Lithium-Sulfur Batteries. <i>Nanomaterials</i> , 2022, 12, 11.	4.1	21
2	Diacetylene-Containing Dual-Functional Liquid Crystal Epoxy Resin: Strategic Phase Control for Topochemical Polymerization of Diacetylenes and Thermal Conductivity Enhancement. <i>Macromolecules</i> , 2022, 55, 4402-4410.	4.8	19
3	Fluorescence Switchable Block Copolymer Particles with Doubly Alternate-Layered Nanoparticle Arrays. <i>Small</i> , 2021, 17, e2101222.	10.0	16
4	Subnanometer Thick Carbon-Layer-Encapsulated Silver Nanoparticles Selectively Neutralizing Human Cancer Cells and Pathogens through Controlled Release of Ag ⁺ Ions. <i>ACS Applied Nano Materials</i> , 2021, 4, 7295-7308.	5.0	7
5	Purification of boron nitride nanotubes by functionalization and removal of poly(4-vinylpyridine). <i>Applied Surface Science</i> , 2021, 555, 149722.	6.1	16
6	Insight into BN Impurity Formation during Boron Nitride Nanotube Synthesis by High-Temperature Plasma. <i>ACS Omega</i> , 2021, 6, 27418-27429.	3.5	9
7	Light-Active, Reversibly Shape-Shifting Block Copolymer Particles Using Photo-switchable Au Nanoparticle Surfactants. <i>Chemistry of Materials</i> , 2021, 33, 9769-9779.	6.7	14
8	Interfacial Instability-Driven Morphological Transition of Prolate Block Copolymer Particles: Striped Football, Larva to Sphere. <i>Macromolecules</i> , 2020, 53, 7198-7206.	4.8	24
9	Entropy-Driven Assembly of Nanoparticles within Emulsion-Evaporative Block Copolymer Particles: Crusted, Seeded, and Alternate-Layered Onions. <i>Chemistry of Materials</i> , 2020, 32, 7036-7043.	6.7	26
10	Single- and double-walled boron nitride nanotubes: Controlled synthesis and application for water purification. <i>Scientific Reports</i> , 2020, 10, 7416.	3.3	25
11	Chemically resistant and thermally stable quantum dots prepared by shell encapsulation with cross-linkable block copolymer ligands. <i>NPG Asia Materials</i> , 2020, 12, .	7.9	36
12	Effect of Polymeric <i>In Situ</i> Stabilizers on Dispersion Homogeneity of Nanofillers and Thermal Conductivity Enhancement of Composites. <i>Langmuir</i> , 2020, 36, 5563-5570.	3.5	9
13	Light-Responsive, Shape-Switchable Block Copolymer Particles. <i>Journal of the American Chemical Society</i> , 2019, 141, 15348-15355.	13.7	90
14	Dual growth mode of boron nitride nanotubes in high temperature pressure laser ablation. <i>Scientific Reports</i> , 2019, 9, 15674.	3.3	19
15	Liquid crystalline epoxy resin with improved thermal conductivity by intermolecular dipole-dipole interactions. <i>Journal of Polymer Science Part A</i> , 2019, 57, 708-715.	2.3	52
16	High-performance, recyclable ultrafiltration membranes from P4VP-assisted dispersion of flame-resistant boron nitride nanotubes. <i>Journal of Membrane Science</i> , 2018, 551, 172-179.	8.2	38
17	Mechanistic Study on the Shape Transition of Block Copolymer Particles Driven by Length-Controlled Nanorod Surfactants. <i>Chemistry of Materials</i> , 2018, 30, 8669-8678.	6.7	36
18	Enhanced Thermal Conductivity of Liquid Crystalline Epoxy Resin using Controlled Linear Polymerization. <i>ACS Macro Letters</i> , 2018, 7, 1180-1185.	4.8	64

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19	Multidimensional Design of Anisotropic Polymer Particles from Solvent-Evaporative Emulsion. <i>Advanced Functional Materials</i> , 2018, 28, 1802961.	14.9	140
20	Characteristic correlation between liquid crystalline epoxy and alumina filler on thermal conducting properties. <i>Composites Science and Technology</i> , 2017, 141, 99-105.	7.8	67
21	Processable high internal phase Pickering emulsions using depletion attraction. <i>Nature Communications</i> , 2017, 8, 14305.	12.8	127
22	Synthesis and characterization of new diamines containing rigid aromatic ester units as curing agent for high performance epoxy resin. <i>Macromolecular Research</i> , 2017, 25, 763-766.	2.4	3
23	Highly thermal conductive resins formed from wide-temperature-range eutectic mixtures of liquid crystalline epoxies bearing diglycidyl moieties at the side positions. <i>Polymer Chemistry</i> , 2017, 8, 2806-2814.	3.9	40
24	Boron nitride nanotubes as a heat sinking and stress-relaxation layer for high performance light-emitting diodes. <i>Nanoscale</i> , 2017, 9, 16223-16231.	5.6	6
25	Nanostructured Particles: Stimuli-Responsive, Shape-Transforming Nanostructured Particles (Adv.) <i>Tj ETQq1 1 0,784314 rgrBT /Overl</i>	21.0	70
26	Shape-Tunable Biphasic Janus Particles as pH-Responsive Switchable Surfactants. <i>Macromolecules</i> , 2017, 50, 9276-9285.	4.8	80
27	Stimuli-Responsive, Shape-Transforming Nanostructured Particles. <i>Advanced Materials</i> , 2017, 29, 1700608.	21.0	71
28	Development of Highly Thermal Conductive Liquid Crystalline Epoxy Resins for High Thermal Dissipation Composites. <i>Composites Research</i> , 2017, 30, 1-6.	0.1	1
29	Nanoparticles as structure-directing agents for controlling the orientation of block copolymer microdomain in thin films. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2016, 54, 118-127.	2.1	10
30	Tailoring block copolymer and polymer blend morphology using nanoparticle surfactants. <i>Journal of Polymer Science Part A</i> , 2016, 54, 228-237.	2.3	22
31	Particles with Tunable Porosity and Morphology by Controlling Interfacial Instability in Block Copolymer Emulsions. <i>ACS Nano</i> , 2016, 10, 5243-5251.	14.6	92
32	Isolation and Crystal Structure Determination of Piperazine Dicarbamate Obtained from a Direct Reaction between Piperazine and Carbon Dioxide in Methanol. <i>Bulletin of the Korean Chemical Society</i> , 2016, 37, 1854-1857.	1.9	6
33	Engineering the Shape of Block Copolymer Particles by Surface-Modulated Graphene Quantum Dots. <i>Chemistry of Materials</i> , 2016, 28, 830-837.	6.7	71
34	Performance and economic analysis of commercial-scale coal-fired power plant with post-combustion CO ₂ capture. <i>Korean Journal of Chemical Engineering</i> , 2015, 32, 800-807.	2.7	16
35	Monodisperse Nanostructured Spheres of Block Copolymers and Nanoparticles via Cross-Flow Membrane Emulsification. <i>Chemistry of Materials</i> , 2015, 27, 6314-6321.	6.7	72
36	Titelbild: A Facile Synthesis of Dynamic, Shape-Changing Polymer Particles (<i>Angew. Chem.</i> 27/2014). <i>Angewandte Chemie</i> , 2014, 126, 6947-6947.	2.0	0

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37	A Facile Synthesis of Dynamic, Shape-Changing Polymer Particles. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 7018-7022.	13.8	200
38	Size-Controlled Nanoparticle-Guided Assembly of Block Copolymers for Convex Lens-Shaped Particles. <i>Journal of the American Chemical Society</i> , 2014, 136, 9982-9989.	13.7	132
39	Multicolor Emission of Hybrid Block Copolymer-Quantum Dot Microspheres by Controlled Spatial Isolation of Quantum Dots. <i>Small</i> , 2013, 9, 2667-2672.	10.0	65
40	Striped, Ellipsoidal Particles by Controlled Assembly of Diblock Copolymers. <i>Journal of the American Chemical Society</i> , 2013, 135, 6649-6657.	13.7	220
41	Surface Intaglio Nanostructures on Microspheres of Gold-Cored Block Copolymer Spheres. <i>Chemistry of Materials</i> , 2013, 25, 4416-4422.	6.7	35
42	Test Bed Studies with Highly Efficient Amine CO ₂ Solvent (KoSol-4). <i>Korean Chemical Engineering Research</i> , 2013, 51, 267-271.	0.2	7
43	Morphology Evolution of PS- <i>b</i> -P2VP Diblock Copolymers via Supramolecular Assembly of Hydroxylated Gold Nanoparticles. <i>Macromolecules</i> , 2012, 45, 1553-1561.	4.8	85
44	Robust plasmonic sensors based on hybrid nanostructures with facile tunability. <i>Journal of Materials Chemistry</i> , 2012, 22, 13903.	6.7	18
45	Improved Performance of Protected Catecholic Polysiloxanes for Bioinspired Wet Adhesion to Surface Oxides. <i>Journal of the American Chemical Society</i> , 2012, 134, 20139-20145.	13.7	100
46	Mesostructured Block Copolymer Nanoparticles: Versatile Templates for Hybrid Inorganic/Organic Nanostructures. <i>Chemistry of Materials</i> , 2012, 24, 4036-4042.	6.7	51
47	Gold-Decorated Block Copolymer Microspheres with Controlled Surface Nanostructures. <i>ACS Nano</i> , 2012, 6, 2750-2757.	14.6	72
48	Supramolecular star polymers with compositional heterogeneity. <i>Journal of Polymer Science Part A</i> , 2012, 50, 1844-1850.	2.3	13
49	Effect of precursor chain-length on the formation and stability of poly(ethylene glycol)-based supramolecular star polymers. <i>Journal of Polymer Science Part A</i> , 2012, 50, 2415-2420.	2.3	7
50	Synthesis of thermally stable Au-core/Pt-shell nanoparticles and their segregation behavior in diblock copolymer mixtures. <i>Soft Matter</i> , 2011, 7, 6255.	2.7	47
51	High-Fidelity Optofluidic On-Chip Sensors Using Well-Defined Gold Nanowell Crystals. <i>Analytical Chemistry</i> , 2011, 83, 9174-9180.	6.5	41
52	Acid-Functionalized SBA-15-Type Silica Catalysts for Carbohydrate Dehydration. <i>ACS Catalysis</i> , 2011, 1, 719-728.	11.2	184
53	Bicontinuous Block Copolymer Morphologies Produced by Interfacially Active, Thermally Stable Nanoparticles. <i>Macromolecules</i> , 2011, 44, 9366-9373.	4.8	44
54	Controlling the Orientation of Block Copolymer Thin Films using Thermally-Stable Gold Nanoparticles with Tuned Surface Chemistry. <i>Macromolecules</i> , 2011, 44, 9356-9365.	4.8	57

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55	Controlled Supramolecular Assembly of Micelle-Like Gold Nanoparticles in PS- <i>b</i> -P2VP Diblock Copolymers via Hydrogen Bonding. <i>Journal of the American Chemical Society</i> , 2011, 133, 16986-16996.	13.7	132
56	Synthesis of Multifunctional Micrometer-Sized Particles with Magnetic, Amphiphilic, and Anisotropic Properties. <i>Advanced Materials</i> , 2011, 23, 2348-2352.	21.0	55
57	Photothermolysis of immobilized bacteria on gold nanograin arrays. <i>Applied Physics Letters</i> , 2011, 98, .	3.3	10
58	Facile synthesis of core-shell and Janus particles via 2-D dendritic growth of gold film. <i>Journal of Colloid and Interface Science</i> , 2010, 350, 387-395.	9.4	18
59	Perfectly Hydrophobic Surfaces with Patterned Nanoneedles of Controllable Features. <i>Langmuir</i> , 2010, 26, 5295-5299.	3.5	36
60	Gold Nanograins with Tunable Dipolar Multiple Plasmon Resonances. <i>Advanced Materials</i> , 2009, 21, 1726-1731.	21.0	61
61	Hierarchically Structured Colloids of Diblock Copolymers and Au Nanoparticles. <i>Chemistry of Materials</i> , 2009, 21, 3739-3741.	6.7	49
62	Nanoscale Ordered Voids and Metal Caps by Controlled Trapping of Colloidal Particles at Polymeric Film Surfaces. <i>Advanced Materials</i> , 2008, 20, 4862-4867.	21.0	67
63	Thermoresponsive Hydrogel Photonic Crystals by Three-Dimensional Holographic Lithography. <i>Advanced Materials</i> , 2008, 20, 3061-3065.	21.0	98
64	Metal nanograin arrays with tunable multiple dipolar plasmon modes in integrated optofluidic devices for ultrasensitive sensing of biomolecules. , 2008, , .		0
65	Creating Surfactant Nanoparticles for Block Copolymer Composites through Surface Chemistry. <i>Langmuir</i> , 2007, 23, 12693-12703.	3.5	182
66	Controlled Fabrication of Hollow Metal Pillar Arrays Using Colloidal Masks. <i>Chemistry of Materials</i> , 2006, 18, 6103-6105.	6.7	31
67	Nanoscale Pd Line Arrays Using Nanocontact Printed Dendrimers. <i>Langmuir</i> , 2006, 22, 3326-3331.	3.5	19
68	Nanomachining by Colloidal Lithography. <i>Small</i> , 2006, 2, 458-475.	10.0	559
69	Colloidal lithography with crosslinkable particles: fabrication of hierarchical nanopore arrays. <i>Chemical Communications</i> , 2005, , 4107.	4.1	24
70	Two-Dimensional Polymer Nanopattern by Using Particle-Assisted Soft Lithography. <i>Chemistry of Materials</i> , 2004, 16, 3410-3413.	6.7	48
71	Colloidal Lithographic Nanopatterning via Reactive Ion Etching. <i>Journal of the American Chemical Society</i> , 2004, 126, 7019-7025.	13.7	183
72	Arrays of Binary and Ternary Particles and Their Replica Pores on Patterned Microchannels. <i>Chemistry of Materials</i> , 2003, 15, 4169-4171.	6.7	15