

Hongseok Yun

List of Publications by Year in descending order

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49
papers

2,287
citations

201674

27
h-index

214800

47
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49
docs citations

49
times ranked

3612
citing authors

#	ARTICLE	IF	CITATIONS
1	Lens-Shaped Carbon Particles with Perpendicularly-Oriented Channels for High-Performance Proton Exchange Membrane Fuel Cells. <i>ACS Nano</i> , 2022, 16, 2988-2996.	14.6	24
2	Effect of Polymer Ligand Conformation on the Self-Assembly of Block Copolymers and Polymer-Grafted Nanoparticles within an Evaporative Emulsion. <i>Macromolecules</i> , 2021, 54, 3084-3092.	4.8	21
3	Fluorescence Switchable Block Copolymer Particles with Doubly Alternate-Layered Nanoparticle Arrays. <i>Small</i> , 2021, 17, e2101222.	10.0	16
4	Influence of Drying Conditions on Device Performances of Antisolvent-Assisted Roll-to-Roll Slot Die-Coated Perovskite Solar Cells. <i>ACS Applied Energy Materials</i> , 2021, 4, 7611-7621.	5.1	22
5	Photoswitchable Surfactant-Driven Reversible Shape- and Color-Changing Block Copolymer Particles. <i>Journal of the American Chemical Society</i> , 2021, 143, 13333-13341.	13.7	55
6	Ultra-Low Pt Loaded Porous Carbon Microparticles with Controlled Channel Structure for High-Performance Fuel Cell Catalysts. <i>Advanced Energy Materials</i> , 2021, 11, 2102970.	19.5	29
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	Highly durable fuel cell catalysts using crosslinkable block copolymer-based carbon supports with ultralow Pt loadings. <i>Energy and Environmental Science</i> , 2020, 13, 4921-4929.	30.8	61
9	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
10	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
11	Hydrogen Sensors Based on MoS ₂ Hollow Architectures Assembled by Pickering Emulsion. <i>ACS Nano</i> , 2020, 14, 9652-9661.	14.6	47
12	Softness- and Size-Dependent Packing Symmetries of Polymer-Grafted Nanoparticles. <i>ACS Nano</i> , 2020, 14, 9644-9651.	14.6	40
13	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
14	Chain-Length-Dependent Self-Assembly Behaviors of Discrete Conjugated Oligo(3-hexylthiophene). <i>Chemistry of Materials</i> , 2020, 32, 3597-3607.	6.7	29
15	Rapid solvo-microwave annealing for optimizing ordered nanostructures and crystallization of regioregular polythiophene-based block copolymers. <i>Polymer Chemistry</i> , 2019, 10, 4962-4972.	3.9	6
16	Symmetry Transitions of Polymer-Grafted Nanoparticles: Grafting Density Effect. <i>Chemistry of Materials</i> , 2019, 31, 5264-5273.	6.7	40
17	Regioregular-block-Regiorandom Poly(3-hexylthiophene) Copolymers for Mechanically Robust and High-Performance Thin-Film Transistors. <i>Macromolecules</i> , 2019, 52, 7721-7730.	4.8	40
18	Colloidal Self-Assembly of Inorganic Nanocrystals into Superlattice Thin-Films and Multiscale Nanostructures. <i>Nanomaterials</i> , 2019, 9, 1243.	4.1	10

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19	Shape and Color Switchable Block Copolymer Particles by Temperature and pH Dual Responses. ACS Nano, 2019, 13, 4230-4237.	14.6	76
20	Shape control of nanostructured cone-shaped particles by tuning the blend morphology of A-B diblock copolymers and C-type copolymers within emulsion droplets. Polymer Chemistry, 2019, 10, 2415-2423.	3.9	24
21	Bench-Scale Synthesis and Characterization of Biodegradable Aliphatic-Aromatic Random Copolymers with 1,4-Cyclohexanedimethanol Units Toward Sustainable Packaging Applications. ACS Sustainable Chemistry and Engineering, 2019, 7, 4734-4743.	6.7	16
22	Development of Shape-Tuned, Monodisperse Block Copolymer Particles through Solvent-Mediated Particle Restructuring. Chemistry of Materials, 2019, 31, 1066-1074.	6.7	51
23	3D Nanofabrication via Chemo-Mechanical Transformation of Nanocrystal/Bulk Heterostructures. Advanced Materials, 2018, 30, e1800233.	21.0	15
24	High-performance, recyclable ultrafiltration membranes from P4VP-assisted dispersion of flame-resistive boron nitride nanotubes. Journal of Membrane Science, 2018, 551, 172-179.	8.2	38
25	Modulating Regioregularity of Poly(3-hexylthiophene)-based Amphiphilic Block Copolymers To Control Solution Assembly from Nanowires to Micelles. Chemistry of Materials, 2018, 30, 7912-7921.	6.7	20
26	Mechanistic Study on the Shape Transition of Block Copolymer Particles Driven by Length-Controlled Nanorod Surfactants. Chemistry of Materials, 2018, 30, 8669-8678.	6.7	36
27	Photocatalytic Hydrogen Evolution from Substoichiometric Colloidal WO ₃ Nanowires. ACS Energy Letters, 2018, 3, 1904-1910.	17.4	145
28	Multidimensional Design of Anisotropic Polymer Particles from Solvent-Evaporative Emulsion. Advanced Functional Materials, 2018, 28, 1802961.	14.9	140
29	Hierarchical Materials Design by Pattern Transfer Printing of Self-Assembled Binary Nanocrystal Superlattices. Nano Letters, 2017, 17, 1387-1394.	9.1	40
30	Photothermal Imaging: Fluorescent Block Copolymer-MoS ₂ Nanocomposites for Real-Time Photothermal Heating and Imaging (Adv. Funct. Mater. 5/2017). Advanced Functional Materials, 2017, 27, .	14.9	0
31	Surface Plasmon Aided Ethanol Dehydrogenation Using Ag-Ni Binary Nanoparticles. ACS Catalysis, 2017, 7, 2294-2302.	11.2	42
32	Morphological Evolution of Block Copolymer Particles: Effect of Solvent Evaporation Rate on Particle Shape and Morphology. ACS Nano, 2017, 11, 2133-2142.	14.6	123
33	Impact of size control of graphene oxide nanosheets for enhancing electrical and mechanical properties of carbon nanotube-polymer composites. RSC Advances, 2017, 7, 30221-30228.	3.6	23
34	Solution-Assembled Blends of Regioregularity-Controlled Polythiophenes for Coexistence of Mechanical Resilience and Electronic Performance. ACS Applied Materials & Interfaces, 2017, 9, 14120-14128.	8.0	25
35	Fluorescent Block Copolymer-MoS ₂ Nanocomposites for Real-Time Photothermal Heating and Imaging. Advanced Functional Materials, 2017, 27, 1604403.	14.9	36
36	The dendritic effect and magnetic permeability in dendron coated nickel and manganese zinc ferrite nanoparticles. Nanoscale, 2017, 9, 13922-13928.	5.6	9

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37	High-strength magnetically switchable plasmonic nanorods assembled from a binary nanocrystal mixture. <i>Nature Nanotechnology</i> , 2017, 12, 228-232.	31.5	75
38	Visualizing non-equilibrium lithiation of spinel oxide via in situ transmission electron microscopy. <i>Nature Communications</i> , 2016, 7, 11441.	12.8	162
39	Alternate current magnetic property characterization of nonstoichiometric zinc ferrite nanocrystals for inductor fabrication via a solution based process. <i>Journal of Applied Physics</i> , 2016, 119, .	2.5	13
40	Mechanisms for High Selectivity in the Hydrodeoxygenation of 5-Hydroxymethylfurfural over PtCo Nanocrystals. <i>ACS Catalysis</i> , 2016, 6, 4095-4104.	11.2	124
41	Colorimetric Thermometer from Graphene Oxide Platform Integrated with Red, Green, and Blue Emitting, Responsive Block Copolymers. <i>Chemistry of Materials</i> , 2016, 28, 3446-3453.	6.7	51
42	Base metal-Pt alloys: A general route to high selectivity and stability in the production of biofuels from HMF. <i>Applied Catalysis B: Environmental</i> , 2016, 199, 439-446.	20.2	100
43	The H ₂ Pressure Dependence of Hydrodeoxygenation Selectivities for Furfural Over Pt/C Catalysts. <i>Catalysis Letters</i> , 2016, 146, 711-717.	2.6	54
44	Synthesis and Size-Selective Precipitation of Monodisperse Nonstoichiometric M _x Fe _{3-4x} O ₄ (M = Mn, Co) Nanocrystals and Their DC and AC Magnetic Properties. <i>Chemistry of Materials</i> , 2016, 28, 480-489.	6.7	42
45	Comparison of HMF hydrodeoxygenation over different metal catalysts in a continuous flow reactor. <i>Applied Catalysis A: General</i> , 2015, 508, 86-93.	4.3	68
46	Size- and Composition-Dependent Radio Frequency Magnetic Permeability of Iron Oxide Nanocrystals. <i>ACS Nano</i> , 2014, 8, 12323-12337.	14.6	44
47	Designing Tripodal and Triangular Gadolinium Oxide Nanoplates and Self-Assembled Nanofibrils as Potential Multimodal Bioimaging Probes. <i>ACS Nano</i> , 2013, 7, 2850-2859.	14.6	115
48	A Technology Overview of the PowerChip Development Program. <i>IEEE Transactions on Power Electronics</i> , 2013, 28, 4182-4201.	7.9	67
49	Construction and Applications of Genome-Scale in silico Metabolic Models for Strain Improvement. , 0, 355-385.		0