

Eun Chul Cho

List of Publications by Year in descending order

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51
papers

3,969
citations

279798

23
h-index

182427

51
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54
all docs

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docs citations

54
times ranked

8007
citing authors

#	ARTICLE	IF	CITATIONS
1	Understanding the Role of Surface Charges in Cellular Adsorption versus Internalization by Selectively Removing Gold Nanoparticles on the Cell Surface with a KI Etchant. <i>Nano Letters</i> , 2009, 9, 1080-1084.	9.1	728
2	Gold nanostructures: a class of multifunctional materials for biomedical applications. <i>Chemical Society Reviews</i> , 2011, 40, 44-56.	38.1	727
3	The effect of sedimentation and diffusion on cellular uptake of gold nanoparticles. <i>Nature Nanotechnology</i> , 2011, 6, 385-391.	31.5	637
4	Role of Bound Water and Hydrophobic Interaction in Phase Transition of Poly(N-isopropylacrylamide) Aqueous Solution. <i>Macromolecules</i> , 2003, 36, 9929-9934.	4.8	229
5	Inorganic nanoparticle-based contrast agents for molecular imaging. <i>Trends in Molecular Medicine</i> , 2010, 16, 561-573.	6.7	221
6	Gold Nanocages: A Novel Class of Multifunctional Nanomaterials for Theranostic Applications. <i>Advanced Functional Materials</i> , 2010, 20, 3684-3694.	14.9	216
7	Synthesis and Characterization of Noble-Metal Nanostructures Containing Gold Nanorods in the Center. <i>Advanced Materials</i> , 2010, 22, 744-748.	21.0	166
8	Highly Responsive Hydrogel Scaffolds Formed by Three-Dimensional Organization of Microgel Nanoparticles. <i>Nano Letters</i> , 2008, 8, 168-172.	9.1	135
9	Measuring the Optical Absorption Cross Sections of $\text{Au}^{\sim}\text{Ag}$ Nanocages and Au Nanorods by Photoacoustic Imaging. <i>Journal of Physical Chemistry C</i> , 2009, 113, 9023-9028.	3.1	120
10	Synthesis of Gold Nano-hexapods with Controllable Arm Lengths and Their Tunable Optical Properties. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 6328-6331.	13.8	84
11	Thermally responsive poly(N-isopropylacrylamide) monolayer on gold: synthesis, surface characterization, and protein interaction/adsorption studies. <i>Polymer</i> , 2004, 45, 3195-3204.	3.8	58
12	Thiol-Induced Assembly of Au Nanoparticles into Chainlike Structures and Their Fixing by Encapsulation in Silica Shells or Gelatin Microspheres. <i>Langmuir</i> , 2010, 26, 10005-10012.	3.5	58
13	A Simple Spectroscopic Method for Differentiating Cellular Uptakes of Gold Nanospheres and Nanorods from Their Mixtures. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 1976-1980.	13.8	53
14	Gold Nanospheres Assembled on Hydrogel Colloids Display a Wide Range of Thermoreversible Changes in Optical Bandwidth for Various Plasmonic-Based Color Switches. <i>Chemistry of Materials</i> , 2014, 26, 3272-3279.	6.7	51
15	Fine tuning the optical properties of $\text{Au}^{\sim}\text{Ag}$ nanocages by selectively etching Ag with oxygen and a water-soluble thiol. <i>Journal of Materials Chemistry</i> , 2009, 19, 6317.	6.7	40
16	A Strategy for the Formation of Gold-Palladium Supra-Nanoparticles from Gold Nanoparticles of Various Shapes and Their Application to High-Performance H_2O_2 Sensing. <i>Journal of Physical Chemistry C</i> , 2015, 119, 26164-26170.	3.1	40
17	A Simple Evaporation Method for Large-Scale Production of Liquid Crystalline Lipid Nanoparticles with Various Internal Structures. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 20438-20446.	8.0	37
18	Synthesis and photovoltaic properties of benzo[1,2-b:4,5-b']dithiophene derivative-based polymers with deep HOMO levels. <i>Journal of Materials Chemistry</i> , 2012, 22, 17709.	6.7	31

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19	A novel approach for the use of hyaluronic acid-based hydrogel nanoparticles as effective carriers for transdermal delivery systems. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2012, 402, 80-87.	4.7	30
20	Dual-responsive and Multi-functional Plasmonic Hydrogel Valves and Biomimetic Architectures Formed with Hydrogel and Gold Nanocolloids. <i>Scientific Reports</i> , 2016, 6, 34622.	3.3	30
21	Contact Angles of Oils on Solid Substrates in Aqueous Media: Correlation with AFM Data on Protein Adhesion. <i>Langmuir</i> , 2008, 24, 9974-9978.	3.5	28
22	Quantitative Analysis of the Fate of Gold Nanocages In Vitro and In Vivo after Uptake by U87MG Tumor Cells. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 1152-1155.	13.8	25
23	Regulating Volume Transitions of Highly Responsive Hydrogel Scaffolds by Adjusting the Network Properties of Microgel Building Block Colloids. <i>Langmuir</i> , 2010, 26, 3854-3859.	3.5	20
24	Fabrication of pseudo-ceramide-based lipid microparticles for recovery of skin barrier function. <i>Colloids and Surfaces B: Biointerfaces</i> , 2012, 94, 236-241.	5.0	16
25	Attomolar Level Detection of Raman Molecules with Hierarchical Silver Nanostructures Including Tiny Nanoparticles between Nanosized Gaps Generated in Silver Petals. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 14793-14800.	8.0	16
26	A Hierarchically Modified Graphite Cathode with Au Nanoislands, Cysteamine, and Au Nanocolloids for Increased Electricity-Assisted Production of Isobutanol by Engineered <i>Shewanella oneidensis</i> MR-1. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 43563-43574.	8.0	14
27	Protein adhesion regulated by the nanoscale surface conformation. <i>Soft Matter</i> , 2012, 8, 11801.	2.7	10
28	Monitoring Processes for the Heat-Induced Crystallization of Heptakis(2,6-di-O-methyl)- β -cyclodextrin in Water. <i>Crystal Growth and Design</i> , 2011, 11, 4296-4299.	3.0	9
29	Nanoscale Structural Switching of Plasmonic Nanograin Layers on Hydrogel Colloidal Monolayers for Highly Sensitive and Dynamic SERS in Water with Areal Signal Reproducibility. <i>Analytical Chemistry</i> , 2017, 89, 11259-11268.	6.5	9
30	Hydrochromic Smart Windows to Remove Harmful Substances by Mimicking Medieval European Stained Glasses. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 16937-16945.	8.0	9
31	Multi-stimuli-responsive and Multi-functional Smart Windows. <i>ChemNanoMat</i> , 2022, 8, .	2.8	9
32	Distinct Optical Magnetism in Gold and Silver Probed by Dynamic Metamolecules. <i>Journal of Physical Chemistry C</i> , 2020, 124, 20436-20444.	3.1	8
33	A Surfactant-Free and Shape-Controlled Synthesis of Nonspherical Janus Particles with Thermally Tunable Amphiphilicity. <i>Macromolecular Rapid Communications</i> , 2017, 38, 1600621.	3.9	6
34	Solution-Processed Plasmonic Dielectric Sunlight-Collecting Nanofilms for Solar Thermoelectric Application. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 43583-43595.	8.0	6
35	Tunable Colloidal Crystalline Patterns on Flat and Periodically Micropatterned Surfaces as Antireflective Layers and Printable Erasable Substrates. <i>Advanced Materials Interfaces</i> , 2018, 5, 1800138.	3.7	6
36	A Strategy for Amorphous Arrangement of Gold Nanoparticles Using Eccentric Hybrid Particles. <i>Chemistry Letters</i> , 2012, 41, 1319-1321.	1.3	5

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37	Plasmonic-based colorimetric and spectroscopic discrimination of acetic and butyric acids produced by different types of Escherichia coli through the different assembly structures formation of gold nanoparticles. <i>Analytica Chimica Acta</i> , 2016, 933, 196-206.	5.4	5
38	Controlling molecular orientations of hydrogels in oil-in-water drug@hydrogel particle delivery systems for pH-selective/sustained release and stabilization of bioactive drugs. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2016, 490, 49-58.	4.7	5
39	Ultrasonic Breaking of Fibers and Microparticles into Mesoporous Particles with High Loading of Magnetic Nanoparticles. <i>Macromolecular Materials and Engineering</i> , 2013, 298, 575-582.	3.6	4
40	Use of fluorescence signals generated by elastic scattering under monochromatic incident light for determining the scattering efficiencies of various plasmonic nanoparticles. <i>Analyst</i> , 2016, 141, 4632-4639.	3.5	4
41	Optical Magnetic Multipolar Resonances in Large Dynamic Metamolecules. <i>Journal of Physical Chemistry C</i> , 2021, 125, 16605-16619.	3.1	4
42	Enhanced Near-Infrared Shielding and Light Scattering Using Surface-Roughened Hybrid Hollow Microparticles Synthesized with Polymer and TiO ₂ @Al(OH) ₃ for Cosmetic Applications. <i>Particle and Particle Systems Characterization</i> , 2018, 35, 1800057.	2.3	3
43	Detection of Lysyl Oxidase Activity in Tumor Extracellular Matrix Using Peptide-Functionalized Gold Nanoprobes. <i>Cancers</i> , 2021, 13, 4523.	3.7	3
44	Solution Lithography for Colloidal Crystal Patterning: Revisiting Flory-Huggins Interaction Parameters and Co-solvent Systems. <i>Particle and Particle Systems Characterization</i> , 2021, 38, 2000264.	2.3	2
45	Gold/Silver-Polymer Hybrid Nanostructures as Thermoreversible Optical Sensors and Probes for the Quantification Radical Compounds. <i>Materials Research Society Symposia Proceedings</i> , 2015, 1802, 41-44.	0.1	1
46	Colloidal Crystal Patterns: Tunable Colloidal Crystalline Patterns on Flat and Periodically Micropatterned Surfaces as Antireflective Layers and Printable-Erasable Substrates (<i>Adv. Mater.</i>)	4.0	10
47	Slippery Colloidal Crystal Monolayers for Sustainable Enhancement of Commercial Solar Cell Performance. <i>ACS Applied Energy Materials</i> , 2021, 4, 303-311.	5.1	1
48	Optically Left-Handed Nanoparticle Beads with Inductance-Capacitance Circuits at Visible-Near-Infrared Frequencies Based on Scalable Methods. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 7121-7129.	8.0	1
49	Near-Infrared Shielding: Enhanced Near-Infrared Shielding and Light Scattering Using Surface-Roughened Hybrid Hollow Microparticles Synthesized with Polymer and TiO ₂ @Al(OH) ₃ for Cosmetic Applications (Part. Part. Syst. Charact. 6/2018). <i>Particle and Particle Systems Characterization</i> , 2018, 35, 1870017.	2.3	0
50	Flow Behaviors of Polymer Colloids and Curing Resins Affect Pore Diameters and Heights of Periodic Porous Polymer Films to Direct Their Surface and Optical Characteristics. <i>Langmuir</i> , 2019, 35, 2719-2727.	3.5	0
51	Chemically Triggered Metamorphosis of Colloidal Bilayer Sheets into Nanomazes and Their Conversion into Silicon and Plasmonic Optical Nanomazes. <i>Advanced Materials Interfaces</i> , 2022, 0, 2200228.	3.7	0