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 g-index
54 all docs	54 docs citations	54 times ranked	8007 citing authors

#	Article	IF	Citations
1	Optically Left-Handed Nanopearl Beads with Inductance-Capacitance Circuits at Visibleâ€“Near-Infrared Frequencies Based on Scalable Methods. ACS Applied Materials & Interfaces, 2022, 14, 7121-7129.	8.0	1
2	Multiâ€stimuliâ€responsive and Multiâ€functional Smart Windows. ChemNanoMat, 2022, 8, .	2.8	9
3	Solution Lithography for Colloidal Crystal Patterning: Revisiting Floryâ€“Huggins Interaction Parameters and Coâ€Nonsolvent Systems. Particle and Particle Systems Characterization, 2021, 38, 2000264.	2.3	2
4	Optical Magnetic Multipolar Resonances in Large Dynamic Metamolecules. Journal of Physical Chemistry C, 2021, 125, 16605-16619.	3.1	4
5	Detection of Lysyl Oxidase Activity in Tumor Extracellular Matrix Using Peptide-Functionalized Gold Nanoprobes. Cancers, 2021, 13, 4523.	3.7	3
6	Slippery Colloidal Crystal Monolayers for Sustainable Enhancement of Commercial Solar Cell Performance. ACS Applied Energy Materials, 2021, 4, 303-311.	5.1	1
7	Distinct Optical Magnetism in Gold and Silver Probed by Dynamic Metamolecules. Journal of Physical Chemistry C, 2020, 124, 20436-20444.	3.1	8
8	Hydrochromic Smart Windows to Remove Harmful Substances by Mimicking Medieval European Stained Glasses. ACS Applied Materials & Interfaces, 2020, 12, 16937-16945.	8.0	9
9	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. Langmuir, 2019, 35, 2719-2727.	3.5	0
10	Tunable Colloidal Crystalline Patterns on Flat and Periodically Micropatterned Surfaces as Antireflective Layers and Printableâ€“Erasable Substrates. Advanced Materials Interfaces, 2018, 5, 1800138.	3.7	6
11	Near-Infrared Shielding: Enhanced Near-Infrared Shielding and Light Scattering Using Surface-Roughened Hybrid Hollow Microparticles Synthesized with Polymer and TiO2 @Al(OH)3 for Cosmetic Applications (Part. Part. Syst. Charact. 6/2018). Particle and Particle Systems Characterization, 2018, 35, 1870017.	2.3	0
12	Enhanced Nearâ€Infrared Shielding and Light Scattering Using Surfaceâ€Roughened Hybrid Hollow Microparticles Synthesized with Polymer and TiO₂@Al(OH)₃ for Cosmetic Applications. Particle and Particle Systems Characterization, 2018, 35, 1800057.	2.3	3
13	Colloidal Crystal Patterns: Tunable Colloidal Crystalline Patterns on Flat and Periodically Micropatterned Surfaces as Antireflective Layers and Printable-Erasable Substrates (Adv. Mater.) Tj ETQq1 1 0.784314 rgBT /Overlock	3.1	1
14	A Surfactant-Free and Shape-Controlled Synthesis of Nonspherical Janus Particles with Thermally Tunable Amphiphilicity. Macromolecular Rapid Communications, 2017, 38, 1600621.	3.9	6
15	Nanoscale Structural Switching of Plasmonic Nanograin Layers on Hydrogel Colloidal Monolayers for Highly Sensitive and Dynamic SERS in Water with Areal Signal Reproducibility. Analytical Chemistry, 2017, 89, 11259-11268.	6.5	9
16	Solution-Processed Plasmonicâ€“Dielectric Sunlight-Collecting Nanofilms for Solar Thermoelectric Application. ACS Applied Materials & Interfaces, 2017, 9, 43583-43595.	8.0	6
17	A Hierarchically Modified Graphite Cathode with Au Nanoislands, Cysteamine, and Au Nanocolloids for Increased Electricity-Assisted Production of Isobutanol by Engineered Shewanella oneidensis MR-1. ACS Applied Materials & Interfaces, 2017, 9, 43563-43574.	8.0	14
18	Use of fluorescence signals generated by elastic scattering under monochromatic incident light for determining the scattering efficiencies of various plasmonic nanoparticles. Analyst, The, 2016, 141, 4632-4639.	3.5	4

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19	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. Analytica Chimica Acta, 2016, 933, 196-206.	5.4	5
20	Dual-responsive and Multi-functional Plasmonic Hydrogel Valves and Biomimetic Architectures Formed with Hydrogel and Gold Nanocolloids. Scientific Reports, 2016, 6, 34622.	3.3	30
21	Controlling molecular orientations of hydrogels in oilâ€“drug@hydrogel particle delivery systems for pH-selective/sustained release and stabilization of bioactive drugs. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2016, 490, 49-58.	4.7	5
22	Gold/Silver-Polymer Hybrid Nanostructures as Thermoreversible Optical Sensors and Probes for the Quantification Radical Compounds. Materials Research Society Symposia Proceedings, 2015, 1802, 41-44.	0.1	1
23	A Strategy for the Formation of Goldâ€“Palladium Supra-Nanoparticles from Gold Nanoparticles of Various Shapes and Their Application to High-Performance H₂O₂ Sensing. Journal of Physical Chemistry C, 2015, 119, 26164-26170.	3.1	40
24	Attomolar Level Detection of Raman Molecules with Hierarchical Silver Nanostructures Including Tiny Nanoparticles between Nanosized Gaps Generated in Silver Petals. ACS Applied Materials & Interfaces, 2015, 7, 14793-14800.	8.0	16
25	A Simple Evaporation Method for Large-Scale Production of Liquid Crystalline Lipid Nanoparticles with Various Internal Structures. ACS Applied Materials & Interfaces, 2015, 7, 20438-20446.	8.0	37
26	Gold Nanospheres Assembled on Hydrogel Colloids Display a Wide Range of Thermoreversible Changes in Optical Bandwidth for Various Plasmonic-Based Color Switches. Chemistry of Materials, 2014, 26, 3272-3279.	6.7	51
27	Ultrasonic Breaking of Fibers and Microparticles into Mesoporous Particles with High Loading of Magnetic Nanoparticles. Macromolecular Materials and Engineering, 2013, 298, 575-582.	3.6	4
28	Quantitative Analysis of the Fate of Gold Nanocages Inâ€…Vitro and Inâ€…Vivo after Uptake by U87â€MG Tumor Cells. Angewandte Chemie - International Edition, 2013, 52, 1152-1155.	13.8	25
29	A Strategy for Amorphous Arrangement of Gold Nanoparticles Using Eccentric Hybrid Particles. Chemistry Letters, 2012, 41, 1319-1321.	1.3	5
30	Synthesis and photovoltaic properties of benzo[1,2-b:4,5-bâ€²]dithiophene derivative-based polymers with deep HOMO levels. Journal of Materials Chemistry, 2012, 22, 17709.	6.7	31
31	Protein adhesion regulated by the nanoscale surface conformation. Soft Matter, 2012, 8, 11801.	2.7	10
32	A novel approach for the use of hyaluronic acid-based hydrogel nanoparticles as effective carriers for transdermal delivery systems. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2012, 402, 80-87.	4.7	30
33	Fabrication of pseudo-ceramide-based lipid microparticles for recovery of skin barrier function. Colloids and Surfaces B: Biointerfaces, 2012, 94, 236-241.	5.0	16
34	Monitoring Processes for the Heat-Induced Crystallization of Heptakis(2,6-di-O-methyl)-Î²-cyclodextrin in Water. Crystal Growth and Design, 2011, 11, 4296-4299.	3.0	9
35	Gold nanostructures: a class of multifunctional materials for biomedical applications. Chemical Society Reviews, 2011, 40, 44-56.	38.1	727
36	The effect of sedimentation and diffusion on cellular uptake of gold nanoparticles. Nature Nanotechnology, 2011, 6, 385-391.	31.5	637

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37	Synthesis of Gold Nanoâ€hexapods with Controllable Arm Lengths and Their Tunable Optical Properties. Angewandte Chemie - International Edition, 2011, 50, 6328-6331.	13.8	84
38	Gold Nanocages: A Novel Class of Multifunctional Nanomaterials for Theranostic Applications. Advanced Functional Materials, 2010, 20, 3684-3694.	14.9	216
39	Synthesis and Characterization of Nobleâ€Metal Nanostructures Containing Gold Nanorods in the Center. Advanced Materials, 2010, 22, 744-748.	21.0	166
40	A Simple Spectroscopic Method for Differentiating Cellular Uptakes of Gold Nanospheres and Nanorods from Their Mixtures. Angewandte Chemie - International Edition, 2010, 49, 1976-1980.	13.8	53
41	Thiol-Induced Assembly of Au Nanoparticles into Chainlike Structures and Their Fixing by Encapsulation in Silica Shells or Gelatin Microspheres. Langmuir, 2010, 26, 10005-10012.	3.5	58
42	Regulating Volume Transitions of Highly Responsive Hydrogel Scaffolds by Adjusting the Network Properties of Microgel Building Block Colloids. Langmuir, 2010, 26, 3854-3859.	3.5	20
43	Inorganic nanoparticle-based contrast agents for molecular imaging. Trends in Molecular Medicine, 2010, 16, 561-573.	6.7	221
44	Fine tuning the optical properties of Auâ€“Ag nanocages by selectively etching Ag with oxygen and a water-soluble thiol. Journal of Materials Chemistry, 2009, 19, 6317.	6.7	40
45	Measuring the Optical Absorption Cross Sections of Auâ^'Ag Nanocages and Au Nanorods by Photoacoustic Imaging. Journal of Physical Chemistry C, 2009, 113, 9023-9028.	3.1	120
46	Understanding the Role of Surface Charges in Cellular Adsorption versus Internalization by Selectively Removing Gold Nanoparticles on the Cell Surface with a I₂/KI Etchant. Nano Letters, 2009, 9, 1080-1084.	9.1	728
47	Highly Responsive Hydrogel Scaffolds Formed by Three-Dimensional Organization of Microgel Nanoparticles. Nano Letters, 2008, 8, 168-172.	9.1	135
48	Contact Angles of Oils on Solid Substrates in Aqueous Media: Correlation with AFM Data on Protein Adhesion. Langmuir, 2008, 24, 9974-9978.	3.5	28
49	Thermally responsive poly(N-isopropylacrylamide) monolayer on gold: synthesis, surface characterization, and protein interaction/adsorption studies. Polymer, 2004, 45, 3195-3204.	3.8	58
50	Role of Bound Water and Hydrophobic Interaction in Phase Transition of Poly(N-isopropylacrylamide) Aqueous Solution. Macromolecules, 2003, 36, 9929-9934.	4.8	229
51	Chemically Triggered Metamorphosis of Colloidal Bilayer Sheets into Nanomazes and Their Conversion into Silicon and Plasmonic Optical Nanomazes. Advanced Materials Interfaces, 0, , 2200228.	3.7	0