

Seunghyun Lee

List of Publications by Year in descending order

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38
papers

2,159
citations

331670

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330143

37
g-index

38
all docs

38
docs citations

38
times ranked

3422
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of reducing agents on the synthesis of anisotropic gold nanoparticles. Nano Convergence, 2022, 9, 5.	12.1	17
2	Understanding the Biomolecular Coronas of High-Density Lipoproteins on PEGylated Au Nanoparticles: Implication for Lipid Corona Formation in the Blood. ACS Applied Nano Materials, 2022, 5, 2018-2028.	5.0	5
3	High-Alkaline Water-Splitting Activity of Mesoporous 3D Heterostructures: An Amorphous-Shell@Crystalline-Core Nano-Assembly of Co-Ni-Phosphate Ultrathin-Nanosheets and V-Doped Cobalt-Nitride Nanowires. Advanced Science, 2022, 9, .	12.1	41
4	Photocatalytic hydrogen evolution from biomass conversion. Nano Convergence, 2021, 8, 6.	12.1	75
5	Improvement of the thermal stability of dendritic silver-coated copper microparticles by surface modification based on molecular self-assembly. Nano Convergence, 2021, 8, 15.	12.1	11
6	Development of porous silicon-coated gold nanoparticles as potential theragnostic material. Bulletin of the Korean Chemical Society, 2021, 42, 1706-1712.	1.9	5
7	Gold Nanoparticles Deposited on a Conical Anodic Aluminum Oxide Substrate for Improved Surface-Enhanced Raman Scattering. ACS Applied Nano Materials, 2021, 4, 12905-12912.	5.0	7
8	Emulsions stabilized by fine dust particles. Journal of Industrial and Engineering Chemistry, 2020, 82, 190-196.	5.8	5
9	Influence of the Preferred Orientation of Pyridine Derivatives with Donor Substituents on Chemical Interface Damping Induced in Silver-Coated Gold Nanorods with Different Shell Thicknesses. Journal of Physical Chemistry C, 2020, 124, 14818-14825.	3.1	16
10	Photosensitized Production of Singlet Oxygen via C60 Fullerene Covalently Attached to Functionalized Silica-coated Stainless-Steel Mesh: Remote Bacterial and Viral Inactivation. Applied Catalysis B: Environmental, 2020, 270, 118862.	20.2	41
11	Interpretation of Electrostatic Self-Potential Measurements Using Interface-Trapped Microspheres with Surface Heterogeneity. ACS Applied Polymer Materials, 2020, 2, 1304-1311.	4.4	6
12	Defective, oxygen-functionalized multi-walled carbon nanotubes as an efficient peroxymonosulfate activator for degradation of organic pollutants. Journal of Hazardous Materials, 2020, 396, 122757.	12.4	102
13	PEDOT:PSS nanocomposite via partial intercalation of monomer into colloidal graphite prepared by in-situ polymerization. Journal of Industrial and Engineering Chemistry, 2019, 76, 116-121.	5.8	8
14	Graphene laminated Cu nanoparticle arrays by spontaneous formation through dewetting. Journal of Industrial and Engineering Chemistry, 2018, 64, 367-372.	5.8	3
15	Rheological analysis of self-healing property of microcapsule-containing asphalt. Journal of Industrial and Engineering Chemistry, 2018, 64, 284-291.	5.8	17
16	Efficient Conversion Method of Bulk Silicon Powders into Porous Silicon Nanoparticles. Bulletin of the Korean Chemical Society, 2018, 39, 1455-1458.	1.9	3
17	Synthesis of biologically-active reduced graphene oxide by using fucoidan as a multifunctional agent for combination cancer therapy. Nanotechnology, 2018, 29, 475604.	2.6	16
18	Hyperpolarized Porous Silicon Nanoparticles: Potential Theragnostic Material for ²⁹ Si Magnetic Resonance Imaging. ChemPhysChem, 2018, 19, 2143-2147.	2.1	23

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19	The influence of oxidative debris on the fragmentation and laser desorption/ionization process of graphene oxide derivatives. <i>New Journal of Chemistry</i> , 2018, 42, 12692-12697.	2.8	8
20	Signal-Induced Release of Guests from a Photolabile Metal-Phenolic Supramolecular Cage and Its Hybrid Assemblies. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 5485-5489.	13.8	45
21	Facile Supramolecular Processing of Carbon Nanotubes and Polymers for Electromechanical Sensors. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 16180-16185.	13.8	35
22	Characterization of Surface Manipulation of Gold Nanorod with Self-Assembled Monolayers. <i>Journal of Nanoscience and Nanotechnology</i> , 2016, 16, 6450-6454.	0.9	0
23	Preparation and characterization of microcapsule-containing self-healing asphalt. <i>Journal of Industrial and Engineering Chemistry</i> , 2015, 29, 330-337.	5.8	82
24	Preparation and characterization of conducting polymer nanocomposite with partially reduced graphene oxide. <i>Synthetic Metals</i> , 2015, 201, 61-66.	3.9	27
25	Graphene laminated gold bipyramids as sensitive detection platforms for antibiotic molecules. <i>Chemical Communications</i> , 2015, 51, 15494-15497.	4.1	55
26	Water flattens graphene wrinkles: laser shock wrapping of graphene onto substrate-supported crystalline plasmonic nanoparticle arrays. <i>Nanoscale</i> , 2015, 7, 19885-19893.	5.6	41
27	Nanostructure shape effects on response of plasmonic aptamer sensors. <i>Journal of Molecular Recognition</i> , 2013, 26, 402-407.	2.1	14
28	Utilizing 3D SERS Active Volumes in Aligned Carbon Nanotube Scaffold Substrates. <i>Advanced Materials</i> , 2012, 24, 5261-5266.	21.0	103
29	Structural Transition in the Surfactant Layer that Surrounds Gold Nanorods as Observed by Analytical Surface-Enhanced Raman Spectroscopy. <i>Langmuir</i> , 2011, 27, 14748-14756.	3.5	88
30	A single molecule immunoassay by localized surface plasmon resonance. <i>Nanotechnology</i> , 2010, 21, 255503.	2.6	149
31	Hot plasmonic interactions: a new look at the photothermal efficacy of gold nanoparticles. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 12237.	2.8	34
32	Quantitative Measurements of Individual Gold Nanoparticle Scattering Cross Sections. <i>Journal of Physical Chemistry C</i> , 2010, 114, 11127-11132.	3.1	43
33	Enhanced Raman Scattering from Nanoparticle-Decorated Nanocone Substrates: A Practical Approach to Harness In-Plane Excitation. <i>ACS Nano</i> , 2010, 4, 5721-5730.	14.6	48
34	Plasmonic Nanobubbles as Transient Vapor Nanobubbles Generated around Plasmonic Nanoparticles. <i>ACS Nano</i> , 2010, 4, 2109-2123.	14.6	334
35	Improved Localized Surface Plasmon Resonance Immunoassay with Gold Bipyramid Substrates. <i>Analytical Chemistry</i> , 2009, 81, 4450-4455.	6.5	124
36	The stabilization and targeting of surfactant-synthesized gold nanorods. <i>Nanotechnology</i> , 2009, 20, 434005.	2.6	92

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37	A Label-Free Immunoassay Based Upon Localized Surface Plasmon Resonance of Gold Nanorods. ACS Nano, 2008, 2, 687-692.	14.6	414
38	Fabrication of nanostructures using scanning probe microscope lithography. Materials Science and Engineering C, 2004, 24, 3-9.	7.3	22