Seunghyun Lee

List of Publications by Year
in descending order

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38	2,159	331670	330143
papers	citations	21 h-index	37 g-index

38	38	38	3422
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A Label-Free Immunoassay Based Upon Localized Surface Plasmon Resonance of Gold Nanorods. ACS Nano, 2008, 2, 687-692.	14.6	414
2	Plasmonic Nanobubbles as Transient Vapor Nanobubbles Generated around Plasmonic Nanoparticles. ACS Nano, 2010, 4, 2109-2123.	14.6	334
3	A single molecule immunoassay by localized surface plasmon resonance. Nanotechnology, 2010, 21, 255503.	2.6	149
4	Improved Localized Surface Plasmon Resonance Immunoassay with Gold Bipyramid Substrates. Analytical Chemistry, 2009, 81, 4450-4455.	6.5	124
5	Utilizing 3D SERS Active Volumes in Aligned Carbon Nanotube Scaffold Substrates. Advanced Materials, 2012, 24, 5261-5266.	21.0	103
6	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
7	The stabilization and targeting of surfactant-synthesized gold nanorods. Nanotechnology, 2009, 20, 434005.	2.6	92
8	Structural Transition in the Surfactant Layer that Surrounds Gold Nanorods as Observed by Analytical Surface-Enhanced Raman Spectroscopy. Langmuir, 2011, 27, 14748-14756.	3.5	88
9	Preparation and characterization of microcapsule-containing self-healing asphalt. Journal of Industrial and Engineering Chemistry, 2015, 29, 330-337.	5.8	82
10	Photocatalytic hydrogen evolution from biomass conversion. Nano Convergence, 2021, 8, 6.	12.1	75
11	Graphene laminated gold bipyramids as sensitive detection platforms for antibiotic molecules. Chemical Communications, 2015, 51, 15494-15497.	4.1	55
12	Enhanced Raman Scattering from Nanoparticle-Decorated Nanocone Substrates: A Practical Approach to Harness In-Plane Excitation. ACS Nano, 2010, 4, 5721-5730.	14.6	48
13	Signalâ€Induced Release of Guests from a Photolatent Metalâ€“Phenolic Supramolecular Cage and Its Hybrid Assemblies. Angewandte Chemie - International Edition, 2017, 56, 5485-5489.	13.8	45
14	Quantitative Measurements of Individual Gold Nanoparticle Scattering Cross Sections. Journal of Physical Chemistry C, 2010, 114, 11127-11132.	3.1	43
15	Water flattens graphene wrinkles: laser shock wrapping of graphene onto substrate-supported crystalline plasmonic nanoparticle arrays. Nanoscale, 2015, 7, 19885-19893.	5.6	41
16	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
17	Highâ€Alkaline Waterâ€Splitting Activity of Mesoporous 3D Heterostructures: An Amorphousâ€Shell@Crystallineâ€Core Nanoâ€Assembly of Coâ€Niâ€Phosphate Ultrathinâ€Nanosheets and Vâ€Doped Cobaltâ€Nitride Nanowires. Advanced Science, 2022, 9, .	12.1	41
18	Facile Supramolecular Processing of Carbon Nanotubes and Polymers for Electromechanical Sensors. Angewandte Chemie - International Edition, 2017, 56, 16180-16185.	13.8	35

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19	Hot plasmonic interactions: a new look at the photothermal efficacy of gold nanoparticles. Physical Chemistry Chemical Physics, 2010, 12, 12237.	2.8	34
20	Preparation and characterization of conducting polymer nanocomposite with partially reduced graphene oxide. Synthetic Metals, 2015, 201, 61-66.	3.9	27
21	Hyperpolarized Porous Silicon Nanoparticles: Potential Theragnostic Material for ²⁹Si Magnetic Resonance Imaging. ChemPhysChem, 2018, 19, 2143-2147.	2.1	23
22	Fabrication of nanostructures using scanning probe microscope lithography. Materials Science and Engineering C, 2004, 24, 3-9.	7.3	22
23	Rheological analysis of self-healing property of microcapsule-containing asphalt. Journal of Industrial and Engineering Chemistry, 2018, 64, 284-291.	5.8	17
24	Effect of reducing agents on the synthesis of anisotropic gold nanoparticles. Nano Convergence, 2022, 9, 5.	12.1	17
25	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
26	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
27	Nanostructure shape effects on response of plasmonic aptamer sensors. Journal of Molecular Recognition, 2013, 26, 402-407.	2.1	14
28	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
29	The influence of oxidative debris on the fragmentation and laser desorption/ionization process of graphene oxide derivatives. New Journal of Chemistry, 2018, 42, 12692-12697.	2.8	8
30	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
31	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
32	Interpretation of Electrostatic Self-Potential Measurements Using Interface-Trapped Microspheres with Surface Heterogeneity. ACS Applied Polymer Materials, 2020, 2, 1304-1311.	4.4	6
33	Emulsions stabilized by fine dust particles. Journal of Industrial and Engineering Chemistry, 2020, 82, 190-196.	5.8	5
34	Development of porous siliconâ€coated gold nanoparticles as potential theragnostic material. Bulletin of the Korean Chemical Society, 2021, 42, 1706-1712.	1.9	5
35	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
36	Graphene laminated Cu nanoparticle arrays by spontaneous formation through dewetting. Journal of Industrial and Engineering Chemistry, 2018, 64, 367-372.	5.8	3

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37	Efficient Conversion Method of Bulk Silicon Powders into Porous Silicon Nanoparticles. Bulletin of the Korean Chemical Society, 2018, 39, 1455-1458.	1.9	3
38	Characterization of Surface Manipulation of Gold Nanorod with Self-Assembled Monolayers. Journal of Nanoscience and Nanotechnology, 2016, 16, 6450-6454.	0.9	0