Jae-Seung Lee

List of Publications by Year
in descending order

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84 papers	6,405 citations	159358 30 h-index	62479 80 g-index
88 all docs	88 docs citations	88 times ranked	8533 citing authors

#	Article	IF	Citations
1	Silver halide-induced catalyst poisoning of Ag-M bimetallic nanoparticles (biNPs) and their chemical regeneration. Journal of Alloys and Compounds, 2022, 899, 163260.	2.8	2
2	Solidâ€“Solutionâ€“Solid (SSS) phase transitions for Gram-Scale and High-Throughput synthesis of noble metal nanoparticles in deep eutectic solvents. Journal of Industrial and Engineering Chemistry, 2022, 112, 182-192.	2.9	2
3	Interfacial interactions of SERS-active noble metal nanostructures with functional ligands for diagnostic analysis of protein cancer markers. Mikrochimica Acta, 2021, 188, 164.	2.5	16
4	Dynamic metallization of spherical DNA via conformational transition into gold nanostructures with controlled sizes and shapes. Journal of Colloid and Interface Science, 2021, 594, 160-172.	5.0	8
5	Application of M1 macrophage as a live vector in delivering nanoparticles for in vivo photothermal treatment. Journal of Advanced Research, 2021, 31, 155-163.	4.4	9
6	Synthesis of Uniformly Sized Bi0.5Sb1.5Te3.0 Nanoparticles via Mechanochemical Process and Wet-Milling for Reduced Thermal Conductivity. Materials, 2021, 14, 536.	1.3	0
7	Wrapping AgCl Nanostructures with Trimetallic Nanomeshes for Plasmon-Enhanced Catalysis and in Situ SERS Monitoring of Chemical Reactions. ACS Applied Materials & Interfaces, 2020, 12, 2842-2853.	4.0	25
8	Insights into Characterization Methods and Biomedical Applications of Nanoparticleâ€“Protein Corona. Materials, 2020, 13, 3093.	1.3	26
9	Deep tissue space-gated microscopy via acousto-optic interaction. Nature Communications, 2020, 11, 710.	5.8	13
10	Structurally and Compositionally Tunable Absorption Properties of AgCl@AgAu Nanocatalysts for Plasmonic Photocatalytic Degradation of Environmental Pollutants. Catalysts, 2020, 10, 405.	1.6	3
11	Roles of zwitterionic charges in polymers on synthesis of Ag seeds with anisotropic growth properties. Journal of Industrial and Engineering Chemistry, 2020, 89, 166-174.	2.9	4
12	One-Pot Synthesis of a Zwitterionic Small Molecule Bearing Disulfide Moiety for Antibiofouling Macro- and Nanoscale Gold Surfaces. Langmuir, 2019, 35, 1768-1777.	1.6	2
13	Oneâ€Pot Synthesis of Highly Monodisperse Poly(lacticâ€coâ€glycolic Acid) Particles with Controlled Porosity as Efficient Drug Delivery Vehicles. Bulletin of the Korean Chemical Society, 2019, 40, 851-856.	1.0	1
14	Effective and sustainable Cs⁺ remediation via exchangeable sodium-ion sites in graphene oxide fibers. Journal of Materials Chemistry A, 2019, 7, 17754-17760.	5.2	9
15	Recent developments in affinity-based selection of aptamers for binding disease-related protein targets. Chemical Papers, 2019, 73, 2637-2653.	1.0	7
16	Continuous Composition Spread and Electrochemical Studies of Low Cobalt Content Li(Ni,Mn,Co)O2 Cathode Materials. Coatings, 2019, 9, 366.	1.2	3
17	Aqueous synthesis of highly monodisperse sub-100 nm AgCl nanospheres/cubes and their plasmonic nanomesh replicas as visible-light photocatalysts and single SERS probes. Nanotechnology, 2019, 30, 295604.	1.3	7
18	Rapid One-Step Plasma Test for the Electrochemical and Colorimetric Detection of a Universal Cancer Biomarker. Clinical Chemistry, 2019, 65, 824-826.	1.5	0

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19	Staring at protein-surfactant interactions: Fundamental approaches and comparative evaluation of their combinations - A review. Analytica Chimica Acta, 2019, 1063, 18-39.	2.6	31
20	Ultrasensitive colorimetric detection of NF-Î²B protein at picomolar levels using target-induced passivation of nanoparticles. Analytical and Bioanalytical Chemistry, 2018, 410, 1397-1403.	1.9	3
21	Oneâ€Pot Photochemical Synthesis of Gold Nanoplates Using Nonionic Diblock Copolymers and their Surface Functionalization. Bulletin of the Korean Chemical Society, 2018, 39, 1165-1170.	1.0	2
22	Functionality of Nonfunctional Diluent Ligands within Bicomponent Layers on Nanoparticles. Journal of Physical Chemistry C, 2017, 121, 13906-13915.	1.5	3
23	Deep eutectic solvents as versatile media for the synthesis of noble metal nanomaterials. Nanotechnology Reviews, 2017, 6, 271-278.	2.6	44
24	Pyridine: a Denaturant or Stabilizer of Spherical Nucleic Acids?. Analytical Chemistry, 2017, 89, 4581-4586.	3.2	2
25	Recent advances in optical detection of dopamine using nanomaterials. Mikrochimica Acta, 2017, 184, 1239-1266.	2.5	90
26	Synthesis of Gold Nanoparticleâ€Embedded Silver Cubic Mesh Nanostructures Using AgCl Nanocubes for Plasmonic Photocatalysis. Small, 2017, 13, 1701751.	5.2	19
27	Thiol-Ligand-Catalyzed Quenching and Etching in Mixtures of Colloidal Quantum Dots and Silver Nanoparticles. Journal of Physical Chemistry C, 2017, 121, 28566-28575.	1.5	18
28	In vivo photothermal treatment with real-time monitoring by optical fiber-needle array. Biomedical Optics Express, 2017, 8, 3482.	1.5	8
29	In vivo photothermal treatment by the peritumoral injection of macrophages loaded with gold nanoshells. Biomedical Optics Express, 2016, 7, 185.	1.5	25
30	In-Plate and On-Plate Structural Control of Ultra-Stable Gold/Silver Bimetallic Nanoplates as Redox Catalysts, Nanobuilding Blocks, and Single-Nanoparticle Surface-Enhanced Raman Scattering Probes. ACS Applied Materials & Interfaces, 2016, 8, 27140-27150.	4.0	10
31	A foolproof method for phase transfer of metal nanoparticles via centrifugation. Chemical Communications, 2016, 52, 1625-1628.	2.2	7
32	Controlling Chemical Equilibrium for Efficient Nanoparticle Conjugation and Release of DNA. Bulletin of the Korean Chemical Society, 2015, 36, 2962-2965.	1.0	3
33	Highly crystalline Fe₂GeS₄ nanocrystals: green synthesis and their structural and optical characterization. Journal of Materials Chemistry A, 2015, 3, 2265-2270.	5.2	26
34	Deep-tissue imaging with collective accumulation of single scattering microscopy. , 2015, , .		0
35	Divalent metal ion-mediated assembly of spherical nucleic acids: the case study of Cu²⁺. Physical Chemistry Chemical Physics, 2015, 17, 30292-30299.	1.3	5
36	Imaging deep within a scattering medium using collective accumulation of single-scattered waves. Nature Photonics, 2015, 9, 253-258.	15.6	147

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37	Functionalized nanoparticle probes for protein detection. Electronic Materials Letters, 2015, 11, 336-345.	1.0	7
38	Recent advances in chemical functionalization of nanoparticles with biomolecules for analytical applications. Analytical and Bioanalytical Chemistry, 2015, 407, 8627-8645.	1.9	42
39	One-pot photochemical synthesis of silver nanodisks using a conventional metal-halide lamp. Materials Chemistry and Physics, 2015, 149-150, 678-685.	2.0	32
40	Synthesis of Gold Microstructures with Surface Nanoroughness Using a Deep Eutectic Solvent for Catalytic and Diagnostic Applications. Journal of Nanoscience and Nanotechnology, 2014, 14, 3753-3757.	0.9	21
41	Moving from convergence to divergence: the future of nanotechnology. Nanotechnology Reviews, 2014, 3, .	2.6	0
42	Silver nanomaterials for the detection of chemical and biological targets. Nanotechnology Reviews, 2014, 3, .	2.6	3
43	Colorimetric detection of acetylcholine with plasmonic nanomaterials signaling. Analytical and Bioanalytical Chemistry, 2014, 406, 7591-7600.	1.9	18
44	Influences of Extended Selenization on Cu₂ZnSnSe₄ Solar Cells Prepared from Quaternary Nanocrystal Ink. Journal of Physical Chemistry C, 2014, 118, 27657-27663.	1.5	16
45	Solvent-free synthesis of Cu2ZnSnS4 nanocrystals: a facile, green, up-scalable route for low cost photovoltaic cells. Nanoscale, 2014, 6, 11703-11711.	2.8	34
46	Synthesis of Large Bumpy Silver Nanostructures with Controlled Sizes and Shapes for Catalytic Applications. Bulletin of the Korean Chemical Society, 2014, 35, 1001-1004.	1.0	2
47	Masking Nanoparticle Surfaces for Sensitive and Selective Colorimetric Detection of Proteins. Analytical Chemistry, 2013, 85, 10542-10548.	3.2	33
48	Seed-mediated synthesis and structural analysis of hierarchical silver microparticles (HiAgMPs) with highly nanotextured surfaces. Materials Research Bulletin, 2013, 48, 2333-2339.	2.7	4
49	Tailoring the Optical Properties of Silver Nanomaterials for Diagnostic Applications. , 2013, , 287-309.		0
50	Library Approach for Reliable Synthesis and Properties of DNAâ€“Gold Nanorod Conjugates. Analytical Chemistry, 2013, 85, 6580-6586.	3.2	25
51	H₂O₂-Assisted One-pot Synthesis of Silver Nanoplates Using Polymeric Materials. Bulletin of the Korean Chemical Society, 2013, 34, 3537-3538.	1.0	0
52	Real-time phase-contrast imaging of photothermal treatment of head and neck squamous cell carcinoma: anin vitrostudy of macrophages as a vector for the delivery of gold nanoshells. Journal of Biomedical Optics, 2012, 17, 128003.	1.4	28
53	Multiplexed DNA Detection with DNA-Functionalized Silver and Silver/Gold Nanoparticle Superstructure Probes. Bulletin of the Korean Chemical Society, 2012, 33, 221-226.	1.0	13
54	Combinatorial Polymer Library Approach for the Synthesis of Silver Nanoplates. Chemistry of Materials, 2012, 24, 4424-4433.	3.2	36

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55	Hierarchically branched silver nanostructures (HBAgNSs) as surface plasmon regulating platforms for multiplexed colorimetric DNA detection. Journal of Materials Chemistry, 2012, 22, 20223.	6.7	25
56	Synthesis of Length-Controlled Polyvalent Silver Nanowireâ€“DNA Conjugates for Sensitive and Selective Detection of DNA Targets. Langmuir, 2012, 28, 828-832.	1.6	24
57	Shape-Dependent Reversible Assembly Properties of Polyvalent DNAâ€“Silver Nanocube Conjugates. Journal of Physical Chemistry C, 2012, 116, 2278-2284.	1.5	31
58	Controlled structural evolution of large silver nanoparticles and their DNA-Mediated bimetallic reversible assemblies. Materials Letters, 2012, 68, 118-121.	1.3	5
59	Room-Temperature Colorimetric Detection of Coralyne Using DNA-Functionalized Nanoparticle Probes. Bulletin of the Korean Chemical Society, 2012, 33, 329-332.	1.0	9
60	Assembling Gold Nanocubes Into a Nanoporous Gold Material. Bulletin of the Korean Chemical Society, 2012, 33, 1777-1780.	1.0	1
61	Assembly-Based Titration for the Determination of Monodisperse Plasmonic Nanoparticle Concentrations Using DNA. Analytical Chemistry, 2011, 83, 4989-4995.	3.2	8
62	Designed Hybridization Properties of DNAâ€“Gold Nanoparticle Conjugates for the Ultraselective Detection of a Single-Base Mutation in the Breast Cancer Gene BRCA1. Analytical Chemistry, 2011, 83, 7364-7370.	3.2	73
63	Multiplexed Detection of Oligonucleotides with Biobarcoded Gold Nanoparticle Probes. Methods in Molecular Biology, 2011, 726, 17-31.	0.4	4
64	Kinetic analysis of RNA interference for lamin A/C in HeLa cells. Acta Biochimica Et Biophysica Sinica, 2010, 42, 623-627.	0.9	2
65	Salt concentration-induced dehybridisation of DNAâ€“gold nanoparticle conjugate assemblies for diagnostic applications. Chemical Communications, 2010, 46, 6382.	2.2	33
66	Synthesis and Thermodynamically Controlled Anisotropic Assembly of DNAâ^'Silver Nanoprism Conjugates for Diagnostic Applications. Chemistry of Materials, 2010, 22, 6684-6691.	3.2	50
67	Offering English-Mediated Chemistry Classes in South Korea: A Note on This Nationwide Experiment. Journal of Chemical Education, 2010, 87, 470-471.	1.1	5
68	A microfluidic detection system based upon a surface immobilized biobarcode assay. Biosensors and Bioelectronics, 2009, 24, 2397-2403.	5.3	35
69	Synthesis and Thermally Reversible Assembly of DNAâ^'Gold Nanoparticle Cluster Conjugates. Nano Letters, 2009, 9, 4564-4569.	4.5	86
70	Gold, Poly(Î²-amino ester) Nanoparticles for Small Interfering RNA Delivery. Nano Letters, 2009, 9, 2402-2406.	4.5	258
71	Colorimetric Nitrite and Nitrate Detection with Gold Nanoparticle Probes and Kinetic End Points. Journal of the American Chemical Society, 2009, 131, 6362-6363.	6.6	325
72	Nanoparticle-based bio-barcode assay redefines â€œundetectableâ€•PSA and biochemical recurrence after radical prostatectomy. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 18437-18442.	3.3	378

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73	A DNAâ^'Gold Nanoparticle-Based Colorimetric Competition Assay for the Detection of Cysteine. Nano Letters, 2008, 8, 529-533.	4.5	459
74	Chip-Based Scanometric Detection of Mercuric Ion Using DNA-Functionalized Gold Nanoparticles. Analytical Chemistry, 2008, 80, 6805-6808.	3.2	206
75	Thermodynamically Controlled Separation of Polyvalent 2-nm Gold Nanoparticle-Oligonucleotide Conjugates. Journal of the American Chemical Society, 2008, 130, 5430-5431.	6.6	39
76	Silver Nanoparticleâ^'Oligonucleotide Conjugates Based on DNA with Triple Cyclic Disulfide Moieties. Nano Letters, 2007, 7, 2112-2115.	4.5	457
77	Colorimetric Detection of Mercuric Ion (Hg2+) in Aqueous Media using DNA-Functionalized Gold Nanoparticles. Angewandte Chemie - International Edition, 2007, 46, 4093-4096.	7.2	1,203
78	Multiplexed Detection of Protein Cancer Markers with Biobarcoded Nanoparticle Probes. Journal of the American Chemical Society, 2006, 128, 8378-8379.	6.6	409
79	Structures of DNA-Linked Nanoparticle Aggregates. Journal of Physical Chemistry B, 2006, 110, 12673-12681.	1.2	87
80	DNA-Induced Size-Selective Separation of Mixtures of Gold Nanoparticles. Journal of the American Chemical Society, 2006, 128, 8899-8903.	6.6	96
81	Multiplexed DNA Detection with Biobarcoded Nanoparticle Probes. Angewandte Chemie - International Edition, 2006, 45, 3303-3306.	7.2	249
82	Three-Layer Composite Magnetic Nanoparticle Probes for DNA. Journal of the American Chemical Society, 2005, 127, 15362-15363.	6.6	289
83	Synthesis of mesoporous carbons with various pore diameters via control of pore wall thickness of mesoporous silicas. Studies in Surface Science and Catalysis, 2003, , 33-36.	1.5	4
84	Synthesis of Mesoporous Silicas of Controlled Pore Wall Thickness and Their Replication to Ordered Nanoporous Carbons with Various Pore Diameters. Journal of the American Chemical Society, 2002, 124, 1156-1157.	6.6	349