## Jae-Seung Lee

## List of Publications by Year in descending order

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

#	Article	IF	CITATIONS
1	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
2	A DNAâ^'Gold Nanoparticle-Based Colorimetric Competition Assay for the Detection of Cysteine. Nano Letters, 2008, 8, 529-533.	4.5	459
3	Silver Nanoparticleâ^'Oligonucleotide Conjugates Based on DNA with Triple Cyclic Disulfide Moieties. Nano Letters, 2007, 7, 2112-2115.	4.5	457
4	Multiplexed Detection of Protein Cancer Markers with Biobarcoded Nanoparticle Probes. Journal of the American Chemical Society, 2006, 128, 8378-8379.	6.6	409
5	Nanoparticle-based bio-barcode assay redefines "undetectable―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
6	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
7	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
8	Three-Layer Composite Magnetic Nanoparticle Probes for DNA. Journal of the American Chemical Society, 2005, 127, 15362-15363.	6.6	289
9	Gold, Poly( $\hat{l}^2$ -amino ester) Nanoparticles for Small Interfering RNA Delivery. Nano Letters, 2009, 9, 2402-2406.	4.5	258
10	Multiplexed DNA Detection with Biobarcoded Nanoparticle Probes. Angewandte Chemie - International Edition, 2006, 45, 3303-3306.	7.2	249
11	Chip-Based Scanometric Detection of Mercuric Ion Using DNA-Functionalized Gold Nanoparticles. Analytical Chemistry, 2008, 80, 6805-6808.	3.2	206
12	Imaging deep within a scattering medium using collective accumulation of single-scattered waves. Nature Photonics, 2015, 9, 253-258.	15.6	147
13	DNA-Induced Size-Selective Separation of Mixtures of Gold Nanoparticles. Journal of the American Chemical Society, 2006, 128, 8899-8903.	6.6	96
14	Recent advances in optical detection of dopamine using nanomaterials. Mikrochimica Acta, 2017, 184, 1239-1266.	2.5	90
15	Structures of DNA-Linked Nanoparticle Aggregates. Journal of Physical Chemistry B, 2006, 110, 12673-12681.	1.2	87
16	Synthesis and Thermally Reversible Assembly of DNAâ^'Gold Nanoparticle Cluster Conjugates. Nano Letters, 2009, 9, 4564-4569.	4.5	86
17	Designed Hybridization Properties of DNA–Gold Nanoparticle Conjugates for the Ultraselective Detection of a Single-Base Mutation in the Breast Cancer Gene <i>BRCA1</i> . Analytical Chemistry, 2011, 83, 7364-7370.	3.2	73
18	Synthesis and Thermodynamically Controlled Anisotropic Assembly of DNAâ^'Silver Nanoprism Conjugates for Diagnostic Applications. Chemistry of Materials, 2010, 22, 6684-6691.	3.2	50

#	Article	IF	CITATIONS
19	Deep eutectic solvents as versatile media for the synthesis of noble metal nanomaterials. Nanotechnology Reviews, 2017, 6, 271-278.	2.6	44
20	Recent advances in chemical functionalization of nanoparticles with biomolecules for analytical applications. Analytical and Bioanalytical Chemistry, 2015, 407, 8627-8645.	1.9	42
21	Thermodynamically Controlled Separation of Polyvalent 2-nm Gold Nanoparticle-Oligonucleotide Conjugates. Journal of the American Chemical Society, 2008, 130, 5430-5431.	6.6	39
22	Combinatorial Polymer Library Approach for the Synthesis of Silver Nanoplates. Chemistry of Materials, 2012, 24, 4424-4433.	3.2	36
23	A microfluidic detection system based upon a surface immobilized biobarcode assay. Biosensors and Bioelectronics, 2009, 24, 2397-2403.	5.3	35
24	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
25	Salt concentration-induced dehybridisation of DNA–gold nanoparticle conjugate assemblies for diagnostic applications. Chemical Communications, 2010, 46, 6382.	2.2	33
26	Masking Nanoparticle Surfaces for Sensitive and Selective Colorimetric Detection of Proteins. Analytical Chemistry, 2013, 85, 10542-10548.	3.2	33
27	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
28	Shape-Dependent Reversible Assembly Properties of Polyvalent DNA–Silver Nanocube Conjugates. Journal of Physical Chemistry C, 2012, 116, 2278-2284.	1.5	31
29	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
30	Real-time phase-contrast imaging of photothermal treatment of head and neck squamous cell carcinoma: an <i>in vitro</i> study of macrophages as a vector for the delivery of gold nanoshells. Journal of Biomedical Optics, 2012, 17, 128003.	1.4	28
31	Highly crystalline Fe <sub>2</sub> GeS <sub>4</sub> nanocrystals: green synthesis and their structural and optical characterization. Journal of Materials Chemistry A, 2015, 3, 2265-2270.	5.2	26
32	Insights into Characterization Methods and Biomedical Applications of Nanoparticle–Protein Corona. Materials, 2020, 13, 3093.	1.3	26
33	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
34	Library Approach for Reliable Synthesis and Properties of DNA–Gold Nanorod Conjugates. Analytical Chemistry, 2013, 85, 6580-6586.	3.2	25
35	In vivo photothermal treatment by the peritumoral injection of macrophages loaded with gold nanoshells. Biomedical Optics Express, 2016, 7, 185.	1.5	25
36	Wrapping AgCl Nanostructures with Trimetallic Nanomeshes for Plasmon-Enhanced Catalysis and in Situ SERS Monitoring of Chemical Reactions. ACS Applied Materials & Samp; Interfaces, 2020, 12, 2842-2853.	4.0	25

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37	Synthesis of Length-Controlled Polyvalent Silver Nanowire–DNA Conjugates for Sensitive and Selective Detection of DNA Targets. Langmuir, 2012, 28, 828-832.	1.6	24
38	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
39	Synthesis of Gold Nanoparticleâ€Embedded Silver Cubic Mesh Nanostructures Using AgCl Nanocubes for Plasmonic Photocatalysis. Small, 2017, 13, 1701751.	5.2	19
40	Colorimetric detection of acetylcholine with plasmonic nanomaterials signaling. Analytical and Bioanalytical Chemistry, 2014, 406, 7591-7600.	1.9	18
41	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
42	Influences of Extended Selenization on Cu <sub>2</sub> ZnSnSe <sub>4</sub> Solar Cells Prepared from Quaternary Nanocrystal Ink. Journal of Physical Chemistry C, 2014, 118, 27657-27663.	1.5	16
43	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
44	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
45	Deep tissue space-gated microscopy via acousto-optic interaction. Nature Communications, 2020, 11, 710.	5.8	13
46	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 & Diterfaces, 2016, 8, 27140-27150.	4.0	10
47	Effective and sustainable Cs <sup>+</sup> remediation <i>via</i> exchangeable sodium-ion sites in graphene oxide fibers. Journal of Materials Chemistry A, 2019, 7, 17754-17760.	5.2	9
48	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
49	Room-Temperature Colorimetric Detection of Coralyne Using DNA-Functionalized Nanoparticle Probes. Bulletin of the Korean Chemical Society, 2012, 33, 329-332.	1.0	9
50	Assembly-Based Titration for the Determination of Monodisperse Plasmonic Nanoparticle Concentrations Using DNA. Analytical Chemistry, 2011, 83, 4989-4995.	3.2	8
51	In vivo photothermal treatment with real-time monitoring by optical fiber-needle array. Biomedical Optics Express, 2017, 8, 3482.	1.5	8
52	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
53	Functionalized nanoparticle probes for protein detection. Electronic Materials Letters, 2015, 11, 336-345.	1.0	7
54	A foolproof method for phase transfer of metal nanoparticles via centrifugation. Chemical Communications, 2016, 52, 1625-1628.	2.2	7

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55	Recent developments in affinity-based selection of aptamers for binding disease-related protein targets. Chemical Papers, 2019, 73, 2637-2653.	1.0	7
56	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
57	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
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	Divalent metal ion-mediated assembly of spherical nucleic acids: the case study of Cu <sup>2+</sup> . Physical Chemistry Chemical Physics, 2015, 17, 30292-30299.	1.3	5
60	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
61	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
62	Multiplexed Detection of Oligonucleotides with Biobarcoded Gold Nanoparticle Probes. Methods in Molecular Biology, $2011, 726, 17-31$ .	0.4	4
63	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
64	Silver nanomaterials for the detection of chemical and biological targets. Nanotechnology Reviews, $2014, 3, .$	2.6	3
65	Controlling Chemical Equilibrium for Efficient Nanoparticle Conjugation and Release of DNA. Bulletin of the Korean Chemical Society, 2015, 36, 2962-2965.	1.0	3
66	Functionality of Nonfunctional Diluent Ligands within Bicomponent Layers on Nanoparticles. Journal of Physical Chemistry C, 2017, 121, 13906-13915.	1.5	3
67	Ultrasensitive colorimetric detection of NF-κB protein at picomolar levels using target-induced passivation of nanoparticles. Analytical and Bioanalytical Chemistry, 2018, 410, 1397-1403.	1.9	3
68	Continuous Composition Spread and Electrochemical Studies of Low Cobalt Content Li(Ni,Mn,Co)O2 Cathode Materials. Coatings, 2019, 9, 366.	1.2	3
69	Structurally and Compositionally Tunable Absorption Properties of AgCl@AgAu Nanocatalysts for Plasmonic Photocatalytic Degradation of Environmental Pollutants. Catalysts, 2020, 10, 405.	1.6	3
70	Kinetic analysis of RNA interference for lamin A/C in HeLa cells. Acta Biochimica Et Biophysica Sinica, 2010, 42, 623-627.	0.9	2
71	Pyridine: a Denaturant or Stabilizer of Spherical Nucleic Acids?. Analytical Chemistry, 2017, 89, 4581-4586.	3.2	2
72	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

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73	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
74	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
75	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
76	Solid–Solution–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
77	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
78	Assembling Gold Nanocubes Into a Nanoporous Gold Material. Bulletin of the Korean Chemical Society, 2012, 33, 1777-1780.	1.0	1
79	Tailoring the Optical Properties of Silver Nanomaterials for Diagnostic Applications. , 2013, , 287-309.		O
80	Moving from convergence to divergence: the future of nanotechnology. Nanotechnology Reviews, $2014, 3, .$	2.6	0
81	Deep-tissue imaging with collective accumulation of single scattering microscopy. , 2015, , .		O
82	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
83	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
84	H <sub>2</sub> O <sub>2</sub> -Assisted One-pot Synthesis of Silver Nanoplates Using Polymeric Materials. Bulletin of the Korean Chemical Society, 2013, 34, 3537-3538.	1.0	0