

Jwa-Min Nam

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131
papers

12,949
citations

46
h-index

113
g-index

149
ext. papers

14,774
ext. citations

13
avg, IF

6.63
L-index

#	Paper	IF	Citations
131	Nanoparticle-based bio-bar codes for the ultrasensitive detection of proteins. <i>Science</i> , 2003 , 301, 1884-633	33.3	2209
130	Present and Future of Surface-Enhanced Raman Scattering. <i>ACS Nano</i> , 2020 , 14, 28-117	16.7	1000
129	Nanogap-engineerable Raman-active nanodumbbells for single-molecule detection. <i>Nature Materials</i> , 2010 , 9, 60-7	27	956
128	Highly uniform and reproducible surface-enhanced Raman scattering from DNA-tailorable nanoparticles with 1-nm interior gap. <i>Nature Nanotechnology</i> , 2011 , 6, 452-60	28.7	877
127	Nanoparticle-based detection in cerebral spinal fluid of a soluble pathogenic biomarker for Alzheimer's disease. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005 , 102, 2273-6	11.5	699
126	Bio-bar-code-based DNA detection with PCR-like sensitivity. <i>Journal of the American Chemical Society</i> , 2004 , 126, 5932-3	16.4	695
125	Raman dye-labeled nanoparticle probes for proteins. <i>Journal of the American Chemical Society</i> , 2003 , 125, 14676-7	16.4	394
124	UV/ozone-oxidized large-scale graphene platform with large chemical enhancement in surface-enhanced Raman scattering. <i>ACS Nano</i> , 2011 , 5, 9799-806	16.7	298
123	Bio-barcodes based on oligonucleotide-modified nanoparticles. <i>Journal of the American Chemical Society</i> , 2002 , 124, 3820-1	16.4	245
122	Plasmonic Nanogap-Enhanced Raman Scattering with Nanoparticles. <i>Accounts of Chemical Research</i> , 2016 , 49, 2746-2755	24.3	227
121	Plasmonic Photothermal Nanoparticles for Biomedical Applications. <i>Advanced Science</i> , 2019 , 6, 1900471	13.6	206
120	A bio-barcode assay for on-chip attomolar-sensitivity protein detection. <i>Lab on A Chip</i> , 2006 , 6, 1293-9	7.2	191
119	Direct-write dip-pen nanolithography of proteins on modified silicon oxide surfaces. <i>Angewandte Chemie - International Edition</i> , 2003 , 42, 2309-12	16.4	190
118	A modular microfluidic architecture for integrated biochemical analysis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005 , 102, 9745-50	11.5	158
117	Multicomponent Plasmonic Nanoparticles: From Heterostructured Nanoparticles to Colloidal Composite Nanostructures. <i>Chemical Reviews</i> , 2019 , 119, 12208-12278	68.1	153
116	Tumor targeting and imaging using cyclic RGD-PEGylated gold nanoparticle probes with directly conjugated iodine-125. <i>Small</i> , 2011 , 7, 2052-60	11	150
115	Plasmonically Engineered Nanoprobes for Biomedical Applications. <i>Journal of the American Chemical Society</i> , 2016 , 138, 14509-14525	16.4	149

114	Biomimetic nanopatterns as enabling tools for analysis and control of live cells. <i>Advanced Materials</i> , 2010 , 22, 4551-66	24	135
113	Oxidative nanopeeling chemistry-based synthesis and photodynamic and photothermal therapeutic applications of plasmonic core-petal nanostructures. <i>Journal of the American Chemical Society</i> , 2014 , 136, 16317-25	16.4	134
112	Thermally Controlled, Patterned Graphene Transfer Printing for Transparent and Wearable Electronic/Optoelectronic System. <i>Advanced Functional Materials</i> , 2015 , 25, 7109-7118	15.6	134
111	Real-time multicolor DNA detection with chemoresponsive diffraction gratings and nanoparticle probes. <i>Journal of the American Chemical Society</i> , 2003 , 125, 13541-7	16.4	127
110	A fluorophore-based bio-barcode amplification assay for proteins. <i>Small</i> , 2006 , 2, 103-8	11	126
109	Tuning and maximizing the single-molecule surface-enhanced Raman scattering from DNA-tethered nanodumbbells. <i>ACS Nano</i> , 2012 , 6, 9574-84	16.7	122
108	Living templates for the hierarchical assembly of gold nanoparticles. <i>Angewandte Chemie - International Edition</i> , 2003 , 42, 2306-9	16.4	119
107	Colorimetric bio-barcode amplification assay for cytokines. <i>Analytical Chemistry</i> , 2005 , 77, 6985-8	7.8	114
106	Plasmonic nanosnowmen with a conductive junction as highly tunable nanoantenna structures and sensitive, quantitative and multiplexable surface-enhanced Raman scattering probes. <i>Nano Letters</i> , 2014 , 14, 6217-25	11.5	108
105	Bioactive protein nanoarrays on nickel oxide surfaces formed by dip-pen nanolithography. <i>Angewandte Chemie - International Edition</i> , 2004 , 43, 1246-9	16.4	106
104	Thiolated DNA-based chemistry and control in the structure and optical properties of plasmonic nanoparticles with ultrasmall interior nanogap. <i>Journal of the American Chemical Society</i> , 2014 , 136, 14052-9	16.4	105
103	Detection of proteins using a colorimetric bio-barcode assay. <i>Nature Protocols</i> , 2007 , 2, 1438-44	18.8	103
102	Nonnoble-Metal-Based Plasmonic Nanomaterials: Recent Advances and Future Perspectives. <i>Advanced Materials</i> , 2018 , 30, e1704528	24	102
101	Hot-Electron-Mediated Photochemical Reactions: Principles, Recent Advances, and Challenges. <i>Advanced Optical Materials</i> , 2017 , 5, 1700004	8.1	99
100	Surface passivation for single-molecule protein studies. <i>Journal of Visualized Experiments</i> , 2014 ,	1.6	96
99	Directional synthesis and assembly of bimetallic nanosnowmen with DNA. <i>Journal of the American Chemical Society</i> , 2012 , 134, 5456-9	16.4	96
98	Responsive nematic gels from the self-assembly of aqueous nanofibres. <i>Nature Communications</i> , 2011 , 2, 459	17.4	95
97	DNA-embedded Au/Ag core-shell nanoparticles. <i>Chemical Communications</i> , 2008 , 5312-4	5.8	79

96	Precisely Shaped, Uniformly Formed Gold Nanocubes with Ultrahigh Reproducibility in Single-Particle Scattering and Surface-Enhanced Raman Scattering. <i>Nano Letters</i> , 2018 , 18, 6475-6482	11.5	76
95	Bio-barcode gel assay for microRNA. <i>Nature Communications</i> , 2014 , 5, 3367	17.4	72
94	Carbon Nanotube Monolayer Patterns for Directed Growth of Mesenchymal Stem Cells. <i>Advanced Materials</i> , 2007 , 19, 2530-2534	24	72
93	Single-molecule and single-particle-based correlation studies between localized surface plasmons of dimeric nanostructures with ~1 nm gap and surface-enhanced Raman scattering. <i>Nano Letters</i> , 2013 , 13, 6113-21	11.5	68
92	Fibronectin-carbon-nanotube hybrid nanostructures for controlled cell growth. <i>Small</i> , 2011 , 7, 56-61	11	67
91	How Do the Size, Charge and Shape of Nanoparticles Affect Amyloid Aggregation on Brain Lipid Bilayer?. <i>Scientific Reports</i> , 2016 , 6, 19548	4.9	67
90	Plasmonic colloidosomes of black gold for solar energy harvesting and hotspots directed catalysis for CO to fuel conversion. <i>Chemical Science</i> , 2019 , 10, 6594-6603	9.4	57
89	Lipid-gold-nanoparticle hybrid-based gene delivery. <i>Small</i> , 2008 , 4, 1651-5	11	57
88	Ultrasensitive optical biodiagnostic methods using metallic nanoparticles. <i>Nanomedicine</i> , 2008 , 3, 215-325.6	3.6	51
87	Emerging plasmonic nanostructures for controlling and enhancing photoluminescence. <i>Chemical Science</i> , 2017 , 8, 4696-4704	9.4	50
86	Tuning and assembling metal nanostructures with DNA. <i>Chemical Communications</i> , 2013 , 49, 2597-609	5.8	46
85	Optokinetically Encoded Nanoprobe-Based Multiplexing Strategy for MicroRNA Profiling. <i>Journal of the American Chemical Society</i> , 2017 , 139, 3558-3566	16.4	43
84	Quantitative Plasmon Mode and Surface-Enhanced Raman Scattering Analyses of Strongly Coupled Plasmonic Nanotrimers with Diverse Geometries. <i>Nano Letters</i> , 2015 , 15, 4628-36	11.5	43
83	Dealloyed Intra-Nanogap Particles with Highly Robust, Quantifiable Surface-Enhanced Raman Scattering Signals for Biosensing and Bioimaging Applications. <i>ACS Central Science</i> , 2018 , 4, 277-287	16.8	43
82	Glutathione dimerization-based plasmonic nanoswitch for biodetection of reactive oxygen and nitrogen species. <i>ACS Nano</i> , 2013 , 7, 2221-30	16.7	43
81	Synthesis, Optical Properties, and Multiplexed Raman Bio-Imaging of Surface Roughness-Controlled Nanobridged Nanogap Particles. <i>Small</i> , 2016 , 12, 4726-34	11	43
80	A sensitive and specific nanosensor for monitoring extracellular potassium levels in the brain. <i>Nature Nanotechnology</i> , 2020 , 15, 321-330	28.7	42
79	Massively parallel and highly quantitative single-particle analysis on interactions between nanoparticles on supported lipid bilayer. <i>Journal of the American Chemical Society</i> , 2014 , 136, 4081-8	16.4	40

78	Natural polypeptide-based supramolecular nanogels for stable noncovalent encapsulation. <i>Biomacromolecules</i> , 2013 , 14, 3515-22	6.9	38
77	Transformative Heterointerface Evolution and Plasmonic Tuning of Anisotropic Trimetallic Nanoparticles. <i>Journal of the American Chemical Society</i> , 2017 , 139, 10180-10183	16.4	38
76	Lipid-nanostructure hybrids and their applications in nanobiotechnology. <i>NPG Asia Materials</i> , 2013 , 5, e48-e48	10.3	36
75	Highly Controlled Synthesis and Super-Radiant Photoluminescence of Plasmonic Cube-in-Cube Nanoparticles. <i>Nano Letters</i> , 2016 , 16, 7962-7967	11.5	35
74	Protein-Nanoparticle Interaction-Induced Changes in Protein Structure and Aggregation. <i>Chemistry - an Asian Journal</i> , 2016 , 11, 1869-77	4.5	35
73	Myoglobin and Polydopamine-Engineered Raman Nanoprobes for Detecting, Imaging, and Monitoring Reactive Oxygen Species in Biological Samples and Living Cells. <i>Small</i> , 2017 , 13, 1701584	11	34
72	Single nanoparticle tracking-based detection of membrane receptor-ligand interactions. <i>Analytical Chemistry</i> , 2009 , 81, 2564-8	7.8	34
71	A fluid membrane-based soluble ligand-display system for live-cell assays. <i>ChemBioChem</i> , 2006 , 7, 436-40,8		34
70	Quantitative Nanoplasmonics. <i>ACS Central Science</i> , 2018 , 4, 1303-1314	16.8	34
69	Controlled Co-Assembly of Nanoparticles and Polymer into Ultralong and Continuous One-Dimensional Nanochains. <i>Journal of the American Chemical Society</i> , 2015 , 137, 8030-3	16.4	31
68	Water-soluble, lignin-derived carbon dots with high fluorescent emissions and their applications in bioimaging. <i>Journal of Industrial and Engineering Chemistry</i> , 2018 , 66, 387-395	6.3	31
67	Nanoparticle-functionalized polymer platform for controlling metastatic cancer cell adhesion, shape, and motility. <i>ACS Nano</i> , 2011 , 5, 5444-56	16.7	30
66	Dealloying-based facile synthesis and highly catalytic properties of Au core/porous shell nanoparticles. <i>Nanoscale</i> , 2016 , 8, 11707-17	7.7	30
65	Restriction-enzyme-coded gold-nanoparticle probes for multiplexed DNA detection. <i>Small</i> , 2009 , 5, 2665-8		28
64	Tunable layer-by-layer polyelectrolyte platforms for comparative cell assays. <i>Biomacromolecules</i> , 2009 , 10, 2254-60	6.9	26
63	Sensitive, Quantitative Naked-Eye Biodetection with Polyhedral Cu Nanoshells. <i>Advanced Materials</i> , 2017 , 29, 1702945	24	25
62	Surface-enhanced Raman scattering-based detection of hazardous chemicals in various phases and matrices with plasmonic nanostructures. <i>Nanoscale</i> , 2019 , 11, 20379-20391	7.7	24
61	Hierarchic Interfacial Nanocube Assembly for Sensitive, Selective, and Quantitative DNA Detection with Surface-Enhanced Raman Scattering. <i>Analytical Chemistry</i> , 2019 , 91, 10467-10476	7.8	23

60	Synthesis and Single-Particle Surface-Enhanced Raman Scattering Study of Plasmonic Tripod Nanoframes with Y-Shaped Hot-Zones. <i>Nano Letters</i> , 2020 , 20, 4362-4369	11.5	22
59	Cyclopentane-modified PNA improves the sensitivity of nanoparticle-based scanometric DNA detection. <i>Chemical Communications</i> , 2005 , 2101-3	5.8	21
58	Amyloid- β Aggregation with gold nanoparticles on brain lipid bilayer. <i>Small</i> , 2014 , 10, 1779-89	11	20
57	Metal alloy hybrid nanoparticles with enhanced catalytic activities in fuel cell applications. <i>Journal of Solid State Chemistry</i> , 2019 , 270, 295-303	3.3	20
56	Associating and Dissociating Nanodimer Analysis for Quantifying Ultrasmall Amounts of DNA. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 9877-9880	16.4	19
55	Nano-bio-computing lipid nanotablet. <i>Science Advances</i> , 2019 , 5, eaau2124	14.3	18
54	Metal Nanoparticles for Virus Detection. <i>ChemNanoMat</i> , 2016 , 2, 927-936	3.5	18
53	Controlled Assembly of Plasmonic Nanoparticles: From Static to Dynamic Nanostructures. <i>Advanced Materials</i> , 2021 , 33, e2007668	24	18
52	Bioactive Protein Nanoarrays on Nickel Oxide Surfaces Formed by Dip-Pen Nanolithography. <i>Angewandte Chemie</i> , 2004 , 116, 1266-1269	3.6	15
51	Synthesis, Assembly, Optical Properties, and Sensing Applications of Plasmonic Gap Nanostructures. <i>Advanced Materials</i> , 2021 , 33, e2006966	24	15
50	Highly Efficient Photothermal Therapy with Cell-Penetrating Peptide-Modified Bumpy Au Triangular Nanoprisms using Low Laser Power and Low Probe Dose. <i>Nano Letters</i> , 2021 , 21, 731-739	11.5	15
49	Silver Double Nanorings with Circular Hot Zone. <i>Journal of the American Chemical Society</i> , 2020 , 142, 12341-12348	16.4	14
48	Minimally stable nanoparticle-based colorimetric assay for simple, rapid, and sensitive antibody structure and activity evaluation. <i>Small</i> , 2011 , 7, 648-55	11	14
47	Functional nanomaterial-based amplified bio-detection strategies. <i>Journal of Materials Chemistry</i> , 2009 , 19, 2107		14
46	Multifunctional nanocomposite membrane for chemomechanical transducer. <i>Sensors and Actuators B: Chemical</i> , 2010 , 147, 691-696	8.5	13
45	Three-Dimensional Gold Nanosphere Hexamers Linked with Metal Bridges: Near-Field Focusing for Single Particle Surface Enhanced Raman Scattering. <i>Journal of the American Chemical Society</i> , 2020 , 142, 15412-15419	16.4	13
44	Plasmonic Nanoparticle-Interfaced Lipid Bilayer Membranes. <i>Accounts of Chemical Research</i> , 2019 , 52, 2793-2805	24.3	12
43	Electrofluidic lipid membrane biosensor. <i>Small</i> , 2012 , 8, 832-7	11	12

42	Supported lipid bilayers as dynamic platforms for tethered particles. <i>Nanoscale</i> , 2015 , 7, 66-76	7.7	11
41	DNA-tailored plasmonic nanoparticles for biosensing applications. <i>Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology</i> , 2013 , 5, 96-109	9.2	11
40	Synthesis and Surface Plasmonic Characterization of Asymmetric Au Split Nanorings. <i>Nano Letters</i> , 2020 , 20, 7774-7782	11.5	11
39	Mitochondrial oxidative phosphorylation complexes exist in the sarcolemma of skeletal muscle. <i>BMB Reports</i> , 2016 , 49, 116-21	5.5	11
38	DNA-Engineerable Ultraflat-Faceted Core-Shell Nanocuboids with Strong, Quantitative Plasmon-Enhanced Fluorescence Signals for Sensitive, Reliable MicroRNA Detection. <i>Nano Letters</i> , 2021 , 21, 2132-2140	11.5	11
37	High-precision measurement-based correlation studies among atomic force microscopy, Rayleigh scattering, and surface-enhanced Raman scattering at the single-molecule level. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 4243-9	3.6	10
36	Direct-write nanoparticle microarrays for cell assays. <i>Small</i> , 2008 , 4, 1930-5	11	10
35	Cyclodextrin-Based Synthesis and Host-Guest Chemistry of Plasmonic Nanogap Particles with Strong, Quantitative, and Highly Multiplexable Surface-Enhanced Raman Scattering Signals. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 8358-8364	6.4	10
34	Single-Particle Analysis on Plasmonic Nanogap Systems for Quantitative SERS. <i>Journal of Raman Spectroscopy</i> , 2021 , 52, 375-385	2.3	10
33	Plasmonic Nanomaterials: Nonnoble-Metal-Based Plasmonic Nanomaterials: Recent Advances and Future Perspectives (Adv. Mater. 42/2018). <i>Advanced Materials</i> , 2018 , 30, 1870320	24	10
32	Radionuclide-labeled nanostructures for In Vivo imaging of cancer. <i>Nano Convergence</i> , 2015 , 2,	9.2	9
31	A Lipid-Nanopillar-Array-Based Immunosorbent Assay. <i>Advanced Materials</i> , 2020 , 32, e2001360	24	8
30	Biocomputing with Nanostructures on Lipid Bilayers. <i>Small</i> , 2019 , 15, e1900998	11	7
29	Transparent, nanoporous, and transferable membrane-based cell-cell paracrine signaling assay. <i>Advanced Materials</i> , 2015 , 27, 1893-9	24	7
28	Highly stable, amphiphilic DNA-encoded nanoparticle conjugates for DNA encoding/decoding applications. <i>Journal of Materials Chemistry</i> , 2011 , 21, 9467		7
27	Single-Walled Carbon Nanotubes and C60 Encapsulated by a Molecular Macrocyclic. <i>Journal of Physical Chemistry B</i> , 2003 , 107, 4705-4710	3.4	7
26	Protein-coated nanofibers for promotion of T cell activity. <i>Chemical Communications</i> , 2013 , 49, 3949-51	5.8	6
25	Nanoparticle-based computing architecture for nanoparticle neural networks. <i>Science Advances</i> , 2020 , 6, eabb3348	14.3	5

24	Dark-field-based observation of single-nanoparticle dynamics on a supported lipid bilayer for in situ analysis of interacting molecules and nanoparticles. <i>ChemPhysChem</i> , 2015 , 16, 77-84	3.2	4
23	Stepwise silver-staining-based immunosorbent assay for amyloid-beta autoantibody detection. <i>Nanomedicine</i> , 2008 , 3, 485-93	5.6	4
22	Electrochromic response and control of plasmonic metal nanoparticles. <i>Nanoscale</i> , 2021 , 13, 9541-9552	7.7	4
21	PCR-like sensitivity for proteins with bio-bar-code amplification. <i>Discovery Medicine</i> , 2003 , 3, 58-60	2.5	4
20	Statistical Modeling of Ligand-Mediated Multimeric Nanoparticle Assembly. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 21195-21206	3.8	3
19	Hot-Electron-Mediated Reactions: Hot-Electron-Mediated Photochemical Reactions: Principles, Recent Advances, and Challenges (Advanced Optical Materials 15/2017). <i>Advanced Optical Materials</i> , 2017 , 5,	8.1	3
18	A rapid and sensitive fluorescence biosensor based on plasmonic PCR. <i>Nanoscale</i> , 2021 , 13, 7348-7354	7.7	3
17	Au nanolenses for near-field focusing. <i>Chemical Science</i> , 2021 , 12, 6355-6361	9.4	3
16	Au Nanorings with Intertwined Triple Rings. <i>Journal of the American Chemical Society</i> , 2021 , 143, 15113-15119	15.1	3
15	Associating and Dissociating Nanodimer Analysis for Quantifying Ultrasmall Amounts of DNA. <i>Angewandte Chemie</i> , 2017 , 129, 10009-10012	3.6	2
14	Web-above-a-Ring (WAR) and Web-above-a-Lens (WAL): Nanostructures for Highly Engineered Plasmonic-Field Tuning and SERS Enhancement. <i>Small</i> , 2021 , 17, e2101262	11	2
13	One-Pot Heterointerfacial Metamorphosis for Synthesis and Control of Widely Varying Heterostructured Nanoparticles. <i>Journal of the American Chemical Society</i> , 2021 , 143, 3383-3392	16.4	2
12	Multiplex SNP Genotyping Using SWITCH: Sequence-Specific Nanoparticle with Interpretative Toehold-Mediated Sequence Decoding in Hydrogel.. <i>Small</i> , 2021 , e2105538	11	2
11	Detection of Viruses: A Lipid-Nanopillar-Array-Based Immunosorbent Assay (Adv. Mater. 26/2020). <i>Advanced Materials</i> , 2020 , 32, 2070195	24	1
10	Engineered Nanostructures for the Ultrasensitive DNA Detection. <i>Soft and Biological Matter</i> , 2012 , 67-87	7.8	1
9	Synthesis, Assembly, Optical Properties, and Sensing Applications of Plasmonic Gap Nanostructures (Adv. Mater. 46/2021). <i>Advanced Materials</i> , 2021 , 33, 2170360	24	1
8	Nontrivial, Unconventional Electrochromic Behaviors of Plasmonic Nanocubes. <i>Nano Letters</i> , 2021 , 21, 7512-7518	11.5	1
7	Synthesis of morphology controlled PtAu@Ag nanorings through concentric and eccentric growth pathways. <i>Chemical Communications</i> , 2021 , 57, 10616-10619	5.8	1

6	Polysorbate- and DNA-Mediated Synthesis and Strong, Stable, and Tunable Near-Infrared Photoluminescence of Plasmonic Long-Body Nanosnowmen. <i>ACS Nano</i> , 2021 ,	16.7	1
5	Enormous Enhancement in Single-Particle Surface-Enhanced Raman Scattering with Size-Controllable Au Double Nanorings. <i>Chemistry of Materials</i> , 2022 , 34, 2197-2205	9.6	0
4	Membranes: Transparent, Nanoporous, and Transferable Membrane-Based Cell-Cell Paracrine Signaling Assay (Adv. Mater. 11/2015). <i>Advanced Materials</i> , 2015 , 27, 1802-1802	24	
3	Hybrid Nanostructures: Fibronectin-Carbon-Nanotube Hybrid Nanostructures for Controlled Cell Growth (Small 1/2011). <i>Small</i> , 2011 , 7, 55-55	11	
2	Plasmon-Enhanced Spectroscopy 2022 , 135-173		
1	DNA Nanotechnology for Plasmonics 2022 , 271-323		