

Jung Heon Lee

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

87

papers

3,931

citations

26

h-index

62

g-index

93

ext. papers

4,458

ext. citations

7.4

avg, IF

5.46

L-index

#	Paper	IF	Citations
87	Highly sensitive and selective colorimetric sensors for uranyl (UO ₂ (2+)): development and comparison of labeled and label-free DNAzyme-gold nanoparticle systems. <i>Journal of the American Chemical Society</i> , 2008 , 130, 14217-26	16.4	399
86	Label-Free Colorimetric Detection of Lead Ions with a Nanomolar Detection Limit and Tunable Dynamic Range by using Gold Nanoparticles and DNAzyme. <i>Advanced Materials</i> , 2008 , 20, 3263-3267	24	391
85	Soft, smart contact lenses with integrations of wireless circuits, glucose sensors, and displays. <i>Science Advances</i> , 2018 , 4, eaap9841	14.3	321
84	Highly sensitive "turn-on" fluorescent sensor for Hg ²⁺ in aqueous solution based on structure-switching DNA. <i>Chemical Communications</i> , 2008 , 6005-7	5.8	242
83	Quantum dot encoding of aptamer-linked nanostructures for one-pot simultaneous detection of multiple analytes. <i>Analytical Chemistry</i> , 2007 , 79, 4120-5	7.8	242
82	Molecular diagnostic and drug delivery agents based on aptamer-nanomaterial conjugates. <i>Advanced Drug Delivery Reviews</i> , 2010 , 62, 592-605	18.5	241
81	Direct observation of nanoparticle-cancer cell nucleus interactions. <i>ACS Nano</i> , 2012 , 6, 3318-26	16.7	220
80	Nanoscale patterns of oligonucleotides formed by electrohydrodynamic jet printing with applications in biosensing and nanomaterials assembly. <i>Nano Letters</i> , 2008 , 8, 4210-6	11.5	165
79	Transparent, low-power pressure sensor matrix based on coplanar-gate graphene transistors. <i>Advanced Materials</i> , 2014 , 26, 4735-40	24	160
78	Retarding charge recombination in perovskite solar cells using ultrathin MgO-coated TiO ₂ nanoparticulate films. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 9160-9164	13	142
77	Smart "turn-on" magnetic resonance contrast agents based on aptamer-functionalized superparamagnetic iron oxide nanoparticles. <i>ChemBioChem</i> , 2007 , 8, 1675-8	3.8	127
76	Flexible and transparent metallic grid electrodes prepared by evaporative assembly. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 12380-7	9.5	111
75	Site-specific control of distances between gold nanoparticles using phosphorothioate anchors on DNA and a short bifunctional molecular fastener. <i>Angewandte Chemie - International Edition</i> , 2007 , 46, 9006-10	16.4	94
74	Conductive and Stretchable Adhesive Electronics with Miniaturized Octopus-Like Suckers against Dry/Wet Skin for Biosignal Monitoring. <i>Advanced Functional Materials</i> , 2018 , 28, 1805224	15.6	69
73	Reverse micelle synthesis of colloidal nickel-manganese layered double hydroxide nanosheets and their pseudocapacitive properties. <i>Chemistry - A European Journal</i> , 2014 , 20, 14880-4	4.8	67
72	A Biodegradation Study of SBA-15 Microparticles in Simulated Body Fluid and in Vivo. <i>Langmuir</i> , 2015 , 31, 6457-62	4	55
71	Gold nanostar-mediated neural activity control using plasmonic photothermal effects. <i>Biomaterials</i> , 2018 , 153, 59-69	15.6	49

70	Controlled alignment of multiple proteins and nanoparticles with nanometer resolution via backbone-modified phosphorothioate DNA and bifunctional linkers. <i>Journal of the American Chemical Society</i> , 2010 , 132, 8906-8	16.4	44
69	Hydration of r.f. magnetron sputtered MgO thin films for a protective layer in AC plasma display panel. <i>Thin Solid Films</i> , 2003 , 435, 95-101	2.2	43
68	Rapid, High-Resolution 3D Interference Printing of Multilevel Ultralong Nanochannel Arrays for High-Throughput Nanofluidic Transport. <i>Advanced Materials</i> , 2015 , 27, 8000-6	24	40
67	Graphene-graphene oxide floating gate transistor memory. <i>Small</i> , 2015 , 11, 311-8	11	39
66	Aspartic Acid-Assisted Synthesis of Multifunctional Strontium-Substituted Hydroxyapatite Microspheres. <i>Crystal Growth and Design</i> , 2016 , 16, 4318-4326	3.5	34
65	Size-controlled growth and antibacterial mechanism for Cu:C nanocomposite thin films. <i>Physical Chemistry Chemical Physics</i> , 2016 , 19, 237-244	3.6	33
64	Citric acid mediated green synthesis of copper nanoparticles using cinnamon bark extract and its multifaceted applications. <i>Journal of Cleaner Production</i> , 2021 , 292, 125974	10.3	28
63	Physicochemical characterization of porcine bone-derived grafting material and comparison with bovine xenografts for dental applications. <i>Journal of Periodontal and Implant Science</i> , 2017 , 47, 388-401 ²		27
62	The protection of MgO film against hydration by using Al ₂ O ₃ capping layer deposited by magnetron sputtering method. <i>Thin Solid Films</i> , 2003 , 435, 199-204	2.2	26
61	Ultrastable-Stealth Large Gold Nanoparticles with DNA Directed Biological Functionality. <i>Langmuir</i> , 2015 , 31, 13773-82	4	25
60	Statistical Characterization of the Morphologies of Nanoparticles through Machine Learning Based Electron Microscopy Image Analysis. <i>ACS Nano</i> , 2020 ,	16.7	23
59	Polyol synthesis of silver nanostructures: Inducing the growth of nanowires by a heat-up process. <i>Chemical Physics Letters</i> , 2014 , 602, 10-15	2.5	21
58	Low temperature plasma processing for cell growth inspired carbon thin films fabrication. <i>Archives of Biochemistry and Biophysics</i> , 2016 , 605, 41-8	4.1	21
57	Systematic Review and Meta-analysis of Pharmacist-Led Transitions of Care Services on the 30-Day All-Cause Readmission Rate of Patients with Congestive Heart Failure. <i>Clinical Drug Investigation</i> , 2019 , 39, 703-712	3.2	19
56	Systematic study of interdependent relationship on gold nanorod synthesis assisted by electron microscopy image analysis. <i>Nanoscale</i> , 2017 , 9, 7114-7123	7.7	18
55	Controlled Heterogeneous Nucleation for Synthesis of Uniform Mesoporous Silica-Coated Gold Nanorods with Tailorable Rotational Diffusion and 1 nm-Scale Size Tunability. <i>Crystal Growth and Design</i> , 2018 , 18, 4731-4736	3.5	18
54	A significant enhancement of color transition from an on-off type achromatic colorimetric nanosensor for highly sensitive multi-analyte detection with the naked eye. <i>Nanoscale</i> , 2016 , 8, 18341-18351	7.7	18
53	Single-Chain Atomic Crystals as Extracellular Matrix-Mimicking Material with Exceptional Biocompatibility and Bioactivity. <i>Nano Letters</i> , 2018 , 18, 7619-7627	11.5	18

52	Chemical effects of organo-silanized SiO ₂ nanofillers on epoxy adhesives. <i>Journal of Industrial and Engineering Chemistry</i> , 2017 , 54, 184-189	6.3	17
51	Surfactant-free nanoparticle-DNA complexes with ultrahigh stability against salt for environmental and biological sensing. <i>Analyst, The</i> , 2014 , 139, 5936-44	5	17
50	DNA Binding Peptide Directed Synthesis of Continuous DNA Nanowires for Analysis of Large DNA Molecules by Scanning Electron Microscope. <i>Small</i> , 2017 , 13, 1601926	11	15
49	pn-Heterojunction effects of perylene tetracarboxylic diimide derivatives on pentacene field-effect transistor. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 2025-31	9.5	15
48	Photocatalytic antibacterial study of N-doped TiO ₂ thin films synthesized by ICP assisted plasma sputtering method. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2019 , 106, 187-193	3	15
47	A new rigid planar low band gap PTTDPP-DT-DTT polymer for organic transistors and performance improvement through the use of a binary solvent system. <i>Dyes and Pigments</i> , 2016 , 126, 138-146	4.6	14
46	Surface energy and wettability control in bio-inspired PEG like thin films. <i>Materials and Design</i> , 2016 , 92, 405-413	8.1	14
45	Biologically Benign Multi-functional Mesoporous Silica Encapsulated Gold/Silver Nanorods for Anti-bacterial Applications by On-demand Release of Silver Ions. <i>Biochip Journal</i> , 2019 , 13, 362-369	4	13
44	Exceptional Mechanical Properties of Phase-Separation-Free MoSe-Chain-Reinforced Hydrogel Prepared by Polymer Wrapping Process. <i>Nano Letters</i> , 2019 , 19, 5717-5724	11.5	11
43	Achromatic-chromatic colorimetric sensors for on-off type detection of analytes. <i>Analyst, The</i> , 2014 , 139, 6486-93	5	11
42	ZnO@graphene oxide core@shell nanoparticles prepared via one-pot approach based on laser ablation in water. <i>Applied Surface Science</i> , 2020 , 531, 147365	6.7	11
41	Role of surface-electrical properties on the cell-viability of carbon thin films grown in nanodomain morphology. <i>Journal Physics D: Applied Physics</i> , 2016 , 49, 264001	3	10
40	Multifunctional Heterogeneous Carbon Nanotube Nanocomposites Assembled by DNA-Binding Peptide Anchors. <i>Small</i> , 2020 , 16, e1905821	11	10
39	Reduction by water for eco-friendly, capping agent-free synthesis of ultrasmall platinum nanocrystals. <i>Chemical Physics Letters</i> , 2014 , 595-596, 77-82	2.5	9
38	A Paper-Based Platform for Long-Term Deposition of Nanoparticles with Exceptional Redispersibility, Stability, and Functionality. <i>Particle and Particle Systems Characterization</i> , 2019 , 36, 1800483	3.1	8
37	Directed self-assembly of organic semiconductors via confined evaporative capillary flows for use in organic field-effect transistors. <i>Organic Electronics</i> , 2014 , 15, 2322-2327	3.5	8
36	Hierarchical Surface Texturing of Hydroxyapatite Ceramics: Influence on the Adhesive Bonding Strength of Polymeric Polycaprolactone. <i>Journal of Functional Biomaterials</i> , 2020 , 11,	4.8	8
35	A one-step colorimetric acid-base titration sensor using a complementary color changing coordination system. <i>Analyst, The</i> , 2016 , 141, 3890-7	5	8

34	From a precursor to an etchant: spontaneous inversion of the role of Au(III) chloride for one-pot synthesis of smooth and spherical gold nanoparticles. <i>Nanoscale Advances</i> , 2019 , 1, 2157-2161	5.1	7
33	Dental Hetero-Graft Materials with Nano Hydroxyapatite Surface Treatment. <i>Journal of Nanoscience and Nanotechnology</i> , 2015 , 15, 7942-9	1.3	7
32	Size-tunable and scalable synthesis of uniform copper nanocrystals. <i>RSC Advances</i> , 2015 , 5, 2756-2761	3.7	7
31	Multifunctional Nanomaterial-alginate Drug Delivery and Imaging System for Cancer Therapy. <i>Biochip Journal</i> , 2019 , 13, 236-242	4	7
30	Formation mechanism of rutile TiO ₂ rods on fluorine doped tin oxide glass. <i>Journal of Nanoscience and Nanotechnology</i> , 2014 , 14, 8839-44	1.3	7
29	An Antibacterial Nanorobotic Approach for the Specific Targeting and Removal of Multiple Drug-Resistant Staphylococcus aureus. <i>Small</i> , 2021 , 17, e2100257	11	7
28	Facile large-scale synthesis of mesoporous silica nanoparticles at room temperature in a monophasic system with fine size control. <i>Microporous and Mesoporous Materials</i> , 2019 , 288, 109595	5.3	6
27	The Effect of EPotential and Hydrodynamic Size on Nanoparticle Interactions in Hydrogels. <i>Particle and Particle Systems Characterization</i> , 2019 , 36, 1800292	3.1	6
26	Fluorescence-coded DNA Nanostructure Probe System to Enable Discrimination of Tumor Heterogeneity via a Screening of Dual Intracellular microRNA Signatures in situ. <i>Scientific Reports</i> , 2017 , 7, 13499	4.9	5
25	Molecular-Level Interactions between Engineered Materials and Cells. <i>International Journal of Molecular Sciences</i> , 2019 , 20,	6.3	5
24	Stability of a gold nanoparticle-DNA system in seawater. <i>Journal of Nanoscience and Nanotechnology</i> , 2013 , 13, 7254-8	1.3	5
23	Bioinspired Adenosine Triphosphate as an "All-In-One" Green Flame Retardant via Extremely Intumescent Char Formation. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 22935-22945	9.5	5
22	Pulsed DC-plasma sputtering induced synthesis of hydrogenated carbon thin films for L-929 cell cultivation. <i>Surface and Coatings Technology</i> , 2016 , 307, 1119-1123	4.4	5
21	Surface-Tunable Bioluminescence Resonance Energy Transfer via Geometry-Controlled ZnO Nanorod Coordination. <i>Small</i> , 2015 , 11, 3469-75	11	4
20	Solution-Processable Transparent Organic Molecular Nanoadhesives for Exceptionally Durable Nanowire Electrodes. <i>Advanced Electronic Materials</i> , 2020 , 6, 1901440	6.4	4
19	High-Throughput Characterization and In Situ Control of Three-Dimensional Orientations of Single Gold Nanorods Coated with Spherical Mesoporous Silica Shell. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 14279-14286	3.8	4
18	Differences in DNA Probe-Mediated Aggregation Behavior of Gold Nanomaterials Based on Their Geometric Appearance. <i>Langmuir</i> , 2018 , 34, 14869-14874	4	4
17	Enhancement in the adhesion properties of polycarbonate surfaces through chemical functionalization with organosilicon coupling agents. <i>Journal of Materials Science: Materials in Electronics</i> , 2019 , 30, 17773-17779	2.1	4

16	Effect of Si3N4 thickness on the optical characterization of grapheme. <i>Journal of Nanoscience and Nanotechnology</i> , 2014 , 14, 9119-23	1.3	3
15	Aqueous dispersion of 1D van der Waals Mo6S3I6 crystal using biocompatible tri-block copolymer. <i>Ceramics International</i> , 2021 , 47, 11935-11941	5.1	3
14	Synergistic enhancement of antibacterial activity of Cu:C nanocomposites through plasma induced microstructural engineering. <i>Applied Surface Science</i> , 2020 , 500, 143996	6.7	3
13	Significant Enhancement of the Adhesion Properties of Chemically Functionalized Polypropylene. <i>Science of Advanced Materials</i> , 2019 , 11, 1699-1704	2.3	2
12	DNAzyme-Based Sensing for Metal Ions in Ocean Platform. <i>Springer Protocols</i> , 2012 , 103-116	0.3	2
11	Portable Au Nanoparticle-Based Colorimetric Sensor Strip for Rapid On-Site Detection of Cd ²⁺ Ions in Potable Water. <i>Biochip Journal</i> , 2021 , 15, 276-286	4	2
10	Biomimetics: Conductive and Stretchable Adhesive Electronics with Miniaturized Octopus-Like Suckers against Dry/Wet Skin for Biosignal Monitoring (Adv. Funct. Mater. 52/2018). <i>Advanced Functional Materials</i> , 2018 , 28, 1870372	15.6	2
9	Bio-essential Inorganic Molecular Nanowires as a Bioactive Muscle Extracellular-Matrix-Mimicking Material. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 39135-39141	9.5	2
8	A study on the bio-applicability of aqueous-dispersed van der Waals 1-D material NbSe using poloxamer. <i>Scientific Reports</i> , 2021 , 11, 176	4.9	2
7	Natural bone-mimicking nanopore-incorporated hydroxyapatite scaffolds for enhanced bone tissue regeneration.. <i>Biomaterials Research</i> , 2022 , 26, 7	16.8	2
6	High-throughput in-focus differential interference contrast imaging of three-dimensional orientations of single gold nanorods coated with a mesoporous silica shell.. <i>RSC Advances</i> , 2020 , 10, 29868-29872	2.7	2
5	Progress and perspectives of metal-ion-substituted hydroxyapatite for bone tissue engineering: comparison with hydroxyapatite. <i>Journal of the Korean Ceramic Society</i> , 1	2.2	1
4	Boron induced c-axis growth and ammonia sensing signatures of spray pyrolysis deposited ZnO thin films [Relation between crystallinity and sensing. <i>Thin Solid Films</i> , 2022 , 746, 139126	2.2	0
3	Surface Polarity-Insensitive Organosilicasome-Based Clustering of Nanoparticles with Intragap Distance Tunability. <i>Chemistry of Materials</i> , 2021 , 33, 5257-5267	9.6	0
2	Optical DNA Based Sensors for Cervical Cancers 2021 , 71-83		0
1	A simple and highly reliable method to enhance the adhesion properties of polyethylene using Kapton-taping process. <i>International Journal of Adhesion and Adhesives</i> , 2021 , 110, 102937	3.4	