

Joonseok Lee

List of Publications by Year in descending order

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44
papers

3,134
citations

201674

27
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254184

43
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docs citations

44
times ranked

5986
citing authors

#	ARTICLE	IF	CITATIONS
1	Highly Photoactive, Low Bandgap TiO ₂ Nanoparticles Wrapped by Graphene. <i>Advanced Materials</i> , 2012, 24, 1084-1088.	21.0	848
2	Spatial Control of Cell Adhesion and Patterning through Mussel-Inspired Surface Modification by Polydopamine. <i>Langmuir</i> , 2010, 26, 15104-15108.	3.5	226
3	Self-Assembled Light-Harvesting Peptide Nanotubes for Mimicking Natural Photosynthesis. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 517-520.	13.8	213
4	Graphene-Based Chemiluminescence Resonance Energy Transfer for Homogeneous Immunoassay. <i>ACS Nano</i> , 2012, 6, 2978-2983.	14.6	208
5	Beta-Sheet-Forming, Self-Assembled Peptide Nanomaterials towards Optical, Energy, and Healthcare Applications. <i>Small</i> , 2015, 11, 3623-3640.	10.0	161
6	Self-Assembly of Semiconducting Photoluminescent Peptide Nanowires in the Vapor Phase. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 1164-1167.	13.8	94
7	Photoexcited Porphyrins as a Strong Suppressor of β -Amyloid Aggregation and Synaptic Toxicity. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 11472-11476.	13.8	92
8	Rapid and background-free detection of avian influenza virus in opaque sample using NIR-to-NIR upconversion nanoparticle-based lateral flow immunoassay platform. <i>Biosensors and Bioelectronics</i> , 2018, 112, 209-215.	10.1	85
9	Photo-induced inhibition of Alzheimer's β -amyloid aggregation in vitro by rose bengal. <i>Biomaterials</i> , 2015, 38, 43-49.	11.4	73
10	Mussel-Inspired Plasmonic Nanohybrids for Light Harvesting. <i>Advanced Materials</i> , 2014, 26, 4463-4468.	21.0	72
11	Bio-inspired fabrication of superhydrophobic surfaces through peptide self-assembly. <i>Soft Matter</i> , 2009, 5, 2717.	2.7	66
12	Bio-inspired strategy for on-surface synthesis of silver nanoparticles for metal/organic hybrid nanomaterials and LDI-MS substrates. <i>Nanotechnology</i> , 2011, 22, 494020.	2.6	65
13	Enhancement of Local Piezoresponse in Polymer Ferroelectrics via Nanoscale Control of Microstructure. <i>ACS Nano</i> , 2015, 9, 1809-1819.	14.6	65
14	Rattle-Structured Upconversion Nanoparticles for Near-Infrared-Induced Suppression of Alzheimer's β -Amyloid Aggregation. <i>Small</i> , 2017, 13, 1603139.	10.0	64
15	Zn-containing porphyrin as a biomimetic light-harvesting molecule for biocatalyzed artificial photosynthesis. <i>Chemical Communications</i> , 2011, 47, 10227.	4.1	63
16	Gold Nanoparticle Enlargement Coupled with Fluorescence Quenching for Highly Sensitive Detection of Analytes. <i>Langmuir</i> , 2009, 25, 13302-13305.	3.5	51
17	A microfluidic system incorporated with peptide/Pd nanowires for heterogeneous catalytic reactions. <i>Lab on A Chip</i> , 2011, 11, 378-380.	6.0	47
18	Artificial photosynthesis on a chip: microfluidic cofactor regeneration and photoenzymatic synthesis under visible light. <i>Lab on A Chip</i> , 2011, 11, 2309.	6.0	40

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19	Fast, Ratiometric FRET from Quantum Dot Conjugated Stabilized Single Chain Variable Fragments for Quantitative Botulinum Neurotoxin Sensing. <i>Nano Letters</i> , 2015, 15, 7161-7167.	9.1	40
20	Targeted multimodal nano-reporters for pre-procedural MRI and intra-operative image-guidance. <i>Biomaterials</i> , 2016, 109, 69-77.	11.4	40
21	An efficient NIR-to-NIR signal-based LRET system for homogeneous competitive immunoassay. <i>Biosensors and Bioelectronics</i> , 2020, 150, 111921.	10.1	40
22	High-Throughput Analysis of Alzheimer's β -Amyloid Aggregation Using a Microfluidic Self-Assembly of Monomers. <i>Analytical Chemistry</i> , 2009, 81, 2751-2759.	6.5	38
23	Lanthanide-Doped Upconversion Nanomaterials: Recent Advances and Applications. <i>Biochip Journal</i> , 2020, 14, 124-135.	4.9	38
24	Sequential MR Image-Guided Local Immune Checkpoint Blockade Cancer Immunotherapy Using Ferumoxytol Capped Ultralarge Pore Mesoporous Silica Carriers after Standard Chemotherapy. <i>Small</i> , 2019, 15, e1904378.	10.0	36
25	Graphene-Rh-complex hydrogels for boosting redox biocatalysis. <i>Journal of Materials Chemistry A</i> , 2013, 1, 1040-1044.	10.3	35
26	Microfluidic Self-Assembly of Insulin Monomers into Amyloid Fibrils on a Solid Surface. <i>Langmuir</i> , 2008, 24, 7068-7071.	3.5	29
27	Tumor Microenvironment Targeting Nano-Bio Emulsion for Synergistic Combinational X-Ray PDT with Oncolytic Bacteria Therapy. <i>Advanced Healthcare Materials</i> , 2020, 9, e1901812.	7.6	29
28	Graphene-Oxide-Based Immunosensing through Fluorescence Quenching by Peroxidase-Catalyzed Polymerization. <i>Small</i> , 2012, 8, 1994-1999.	10.0	28
29	A self-calibrating electrochemical aptasensing platform: Correcting external interference errors for the reliable and stable detection of avian influenza viruses. <i>Biosensors and Bioelectronics</i> , 2020, 152, 112010.	10.1	27
30	In situ growth of gold nanoparticles by enzymatic glucose oxidation within alginate gel matrix. <i>Biotechnology and Bioengineering</i> , 2010, 105, 210-214.	3.3	25
31	Near-Infrared-Light-Driven Artificial Photosynthesis by Nanobiocatalytic Assemblies. <i>Chemistry - A European Journal</i> , 2014, 20, 3584-3588.	3.3	25
32	Integrated Bioaerosol Sampling/Monitoring Platform: Field-Deployable and Rapid Detection of Airborne Viruses. <i>ACS Sensors</i> , 2020, 5, 3915-3922.	7.8	24
33	Silica Nanodepletors: Targeting and Clearing Alzheimer's β -Amyloid Plaques. <i>Advanced Functional Materials</i> , 2020, 30, 1910475.	14.9	24
34	A Size-Selectively Biomolecule-Immobilized Nanoprobe-Based Chemiluminescent Lateral Flow Immunoassay for Detection of Avian-Origin Viruses. <i>Analytical Chemistry</i> , 2021, 93, 792-800.	6.5	22
35	Microfluidic dissociation and clearance of Alzheimer's β -amyloid aggregates. <i>Biomaterials</i> , 2010, 31, 6789-6795.	11.4	20
36	Self-adhesive graphene oxide-wrapped TiO ₂ nanoparticles for UV-activated colorimetric oxygen detection. <i>Sensors and Actuators B: Chemical</i> , 2015, 213, 322-328.	7.8	20

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37	An NIR dual-emitting/absorbing inorganic compact pair: A self-calibrating LRET system for homogeneous virus detection. <i>Biosensors and Bioelectronics</i> , 2021, 190, 113369.	10.1	15
38	Modular Layer-by-Layer Assembly of Polyelectrolytes, Nanoparticles, and Molecular Catalysts into Solar-to-Chemical Energy Conversion Devices. <i>Advanced Functional Materials</i> , 2019, 29, 1906407.	14.9	13
39	Multi-layered stacks of fluorescent dye-doped silica nanoparticles decorated by gold nanoparticles for solid-phase optical biosensing. <i>Journal of Materials Chemistry</i> , 2011, 21, 17623.	6.7	10
40	Macroscopic Assembly of Sericin toward Self-Healable Silk. <i>Biomacromolecules</i> , 2021, 22, 4337-4346.	5.4	10
41	Paper-Based Airborne Bacteria Collection and DNA Extraction Kit. <i>Biosensors</i> , 2021, 11, 375.	4.7	6
42	Flexible 3D Nanonetworked Silica Film as a Polymer-Free Drug-Eluting Stent Platform to Effectively Suppress Tissue Hyperplasia in Rat Esophagus. <i>Advanced Healthcare Materials</i> , 2022, 11, e2200389.	7.6	4
43	Activatable Peptides for Rapid and Simple Visualization of Protease Activity Secreted in Living Cells. <i>International Journal of Molecular Sciences</i> , 2022, 23, 1605.	4.1	2
44	Gold Nanoparticle Enlargement Coupled with Fluorescence Decrease for Highly Sensitive Detection of Analytes. <i>Materials Research Society Symposia Proceedings</i> , 2011, 1301, 235.	0.1	1