

# Hyunku Shin

## List of Publications by Year in descending order

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Version: 2024-02-01

42  
papers

1,994  
citations

430754

18  
h-index

345118

36  
g-index

43  
all docs

43  
docs citations

43  
times ranked

2799  
citing authors

#	ARTICLE	IF	CITATIONS
1	Quantized plasmon quenching dips nanospectroscopy via plasmon resonance energy transfer. <i>Nature Methods</i> , 2007, 4, 1015-1017.	9.0	303
2	Early-Stage Lung Cancer Diagnosis by Deep Learning-Based Spectroscopic Analysis of Circulating Exosomes. <i>ACS Nano</i> , 2020, 14, 5435-5444.	7.3	248
3	Selective and sensitive detection of metal ions by plasmonic resonance energy transfer-based nanospectroscopy. <i>Nature Nanotechnology</i> , 2009, 4, 742-746.	15.6	236
4	Plasmon Resonance Energy Transfer (PRET)-based Molecular Imaging of Cytochrome <i>c</i> in Living Cells. <i>Nano Letters</i> , 2009, 9, 85-90.	4.5	192
5	Exosome Classification by Pattern Analysis of Surface-Enhanced Raman Spectroscopy Data for Lung Cancer Diagnosis. <i>Analytical Chemistry</i> , 2017, 89, 6695-6701.	3.2	183
6	Correlation between Cancerous Exosomes and Protein Markers Based on Surface-Enhanced Raman Spectroscopy (SERS) and Principal Component Analysis (PCA). <i>ACS Sensors</i> , 2018, 3, 2637-2643.	4.0	139
7	Plasmonic Nanosensors: Review and Prospect. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2012, 18, 1110-1121.	1.9	94
8	Tumor microenvironmental cytokines bound to cancer exosomes determine uptake by cytokine receptor-expressing cells and biodistribution. <i>Nature Communications</i> , 2021, 12, 3543.	5.8	69
9	Identification of Newly Emerging Influenza Viruses by Surface-Enhanced Raman Spectroscopy. <i>Analytical Chemistry</i> , 2015, 87, 11652-11659.	3.2	66
10	Intraoperative pulmonary neoplasm identification using near-infrared fluorescence imaging. <i>European Journal of Cardio-thoracic Surgery</i> , 2016, 49, 1497-1502.	0.6	55
11	Shadow Overlap Ion-beam Lithography for Nanoarchitectures. <i>Nano Letters</i> , 2009, 9, 3726-3731.	4.5	50
12	Identification of Newly Emerging Influenza Viruses by Detecting the Virally Infected Cells Based on Surface Enhanced Raman Spectroscopy and Principal Component Analysis. <i>Analytical Chemistry</i> , 2019, 91, 5677-5684.	3.2	47
13	Quantum biological tunnel junction for electron transfer imaging in live cells. <i>Nature Communications</i> , 2019, 10, 3245.	5.8	38
14	Autoenhanced Raman Spectroscopy via Plasmonic Trapping for Molecular Sensing. <i>Analytical Chemistry</i> , 2016, 88, 7633-7638.	3.2	27
15	Stem cell transplantation for Huntington's diseases. <i>Methods</i> , 2018, 133, 104-112.	1.9	27
16	Wrapping AgCl Nanostructures with Trimetallic Nanomeshes for Plasmon-Enhanced Catalysis and in Situ SERS Monitoring of Chemical Reactions. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 2842-2853.	4.0	25
17	Metal-Insulator-Metal Optical Nanoantenna with Equivalent Circuit Analysis. <i>Advanced Materials</i> , 2010, 22, 1754-1758.	11.1	23
18	Flexible and Stable Omniphobic Surfaces Based on Biomimetic Repulsive Air-Spring Structures. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 5877-5884.	4.0	23

#	ARTICLE	IF	CITATIONS
19	Extracellular Vesicle Identification Using Label-Free Surface-Enhanced Raman Spectroscopy: Detection and Signal Analysis Strategies. <i>Molecules</i> , 2020, 25, 5209.	1.7	21
20	The Potential of Exosomes Derived from Chronic Myelogenous Leukaemia Cells as a Biomarker. <i>Anticancer Research</i> , 2018, 38, 3935-3942.	0.5	19
21	Robust plasmonic sensors based on hybrid nanostructures with facile tunability. <i>Journal of Materials Chemistry</i> , 2012, 22, 13903.	6.7	18
22	Macrophage-Targeted Indocyanine Green-Neomannosyl Human Serum Albumin for Intraoperative Sentinel Lymph Node Mapping in Porcine Esophagus. <i>Annals of Thoracic Surgery</i> , 2016, 102, 1149-1155.	0.7	11
23	Levels of Extracellular Vesicles in Pulmonary and Peripheral Blood Correlate with Stages of Lung Cancer Patients. <i>World Journal of Surgery</i> , 2020, 44, 3522-3529.	0.8	11
24	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. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 27140-27150.	4.0	10
25	GCC2 as a New Early Diagnostic Biomarker for Non-Small Cell Lung Cancer. <i>Cancers</i> , 2021, 13, 5482.	1.7	9
26	A Proteomic Approach to Understand the Clinical Significance of Acute Myeloid Leukemia-Derived Extracellular Vesicles Reflecting Essential Characteristics of Leukemia. <i>Molecular and Cellular Proteomics</i> , 2021, 20, 100017.	2.5	8
27	Aqueous synthesis of highly monodisperse sub-100 nm AgCl nanospheres/cubes and their plasmonic nanomesh replicas as visible-light photocatalysts and single SERS probes. <i>Nanotechnology</i> , 2019, 30, 295604.	1.3	7
28	Dual size-exclusion chromatography for efficient isolation of extracellular vesicles from bone marrow derived human plasma. <i>Scientific Reports</i> , 2021, 11, 217.	1.6	7
29	Exosome identification for personalized diagnosis and therapy. <i>Biomedical Engineering Letters</i> , 2014, 4, 258-268.	2.1	5
30	Spatio-temporally controlled transfection by quantitative injection into a single cell. <i>Biomaterials</i> , 2015, 67, 225-231.	5.7	5
31	In-Situ Nanospectroscopic pH Monitoring by Plasmon Resonance Energy Transfer (PRET). <i>Journal of Nanoscience and Nanotechnology</i> , 2013, 13, 7287-7290.	0.9	4
32	3D Assembly of Metal Nanoparticles at Oleic Acid/Water Interface via Their Autonomous and Rapid Interfacial Locomotion. <i>Advanced Materials Interfaces</i> , 2018, 5, 1800981.	1.9	4
33	Innenteilbild: Simultaneous Optical Monitoring of the Overgrowth Modes of Individual Asymmetric Hybrid Nanoparticles ( <i>Angew. Chem.</i> 20/2011). <i>Angewandte Chemie</i> , 2011, 123, 4614-4614.	1.6	2
34	Femtoliter scale quantitative injection control by experimental and theoretical modeling. <i>Biomedical Engineering Letters</i> , 2016, 6, 250-255.	2.1	2
35	Lung cancer exosome specific protein 1 (LESP-1) as a potential factor for diagnosis and treatment of non-small cell lung cancer.. <i>Journal of Clinical Oncology</i> , 2020, 38, e15550-e15550.	0.8	2
36	Precise nanoinjection delivery of plasmid DNA into a single fibroblast for direct conversion of astrocyte. <i>Artificial Cells, Nanomedicine and Biotechnology</i> , 2018, 46, 1114-1122.	1.9	1

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37	Plasmonics: The Effect of Thermal Gradients in SERS Spectroscopy (Small 23/2010). <i>Small</i> , 2010, 6, 2622-2622.	5.2	0
38	Inside Cover: Simultaneous Optical Monitoring of the Overgrowth Modes of Individual Asymmetric Hybrid Nanoparticles (Angew. Chem. Int. Ed. 20/2011). <i>Angewandte Chemie - International Edition</i> , 2011, 50, 4520-4520.	7.2	0
39	Controlled overgrowth of gold on gold/PS dimeric nanoparticle. , 2011, , .		0
40	Special issue on nano/biotechnology. <i>Biomedical Engineering Letters</i> , 2013, 3, 199-200.	2.1	0
41	Metal Nanoparticles: 3D Assembly of Metal Nanoparticles at Oleic Acid/Water Interface via Their Autonomous and Rapid Interfacial Locomotion (Adv. Mater. Interfaces 20/2018). <i>Advanced Materials Interfaces</i> , 2018, 5, 1870101.	1.9	0
42	Correlation of levels of extracellular vesicles in peripheral and pulmonary blood plasma with pathological stages of lung cancer patients.. <i>Journal of Clinical Oncology</i> , 2020, 38, e15558-e15558.	0.8	0