

Hyeon-Yeol Cho

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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.

37 papers	683 citations	15 h-index	25 g-index
39 ext. papers	890 ext. citations	8 avg, IF	4.29 L-index

#	Paper	IF	Citations
37	Application of Gold Nanoparticle to Plasmonic Biosensors. <i>International Journal of Molecular Sciences</i> , 2018 , 19,	6.3	63
36	Programmed degradation of a hierarchical nanoparticle with redox and light responsivity for self-activated photo-chemical enhanced chemodynamic therapy. <i>Biomaterials</i> , 2019 , 224, 119498	15.6	61
35	Simultaneous capture and in situ analysis of circulating tumor cells using multiple hybrid nanoparticles. <i>Biosensors and Bioelectronics</i> , 2013 , 47, 508-14	11.8	51
34	Selective isolation and noninvasive analysis of circulating cancer stem cells through Raman imaging. <i>Biosensors and Bioelectronics</i> , 2018 , 102, 372-382	11.8	42
33	Engineered Mesenchymal Stem Cell/Nanomedicine Spheroid as an Active Drug Delivery Platform for Combinational Glioblastoma Therapy. <i>Nano Letters</i> , 2019 , 19, 1701-1705	11.5	40
32	Synthesis of metal nanoparticles inside living human cells based on the intracellular formation process. <i>Advanced Materials</i> , 2014 , 26, 910-8	24	39
31	HO biosensor consisted of hemoglobin-DNA conjugate on nanoporous gold thin film electrode with electrochemical signal enhancement. <i>Nano Convergence</i> , 2019 , 6, 1	9.2	37
30	Overcoming Chemoresistance in Cancer via Combined MicroRNA Therapeutics with Anticancer Drugs Using Multifunctional Magnetic Core-Shell Nanoparticles. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 26954-26963	9.5	36
29	SERS-Based Quantification of Biomarker Expression at the Single Cell Level Enabled by Gold Nanostars and Truncated Aptamers. <i>Bioconjugate Chemistry</i> , 2018 , 29, 2970-2981	6.3	36
28	Nondestructive Characterization of Stem Cell Neurogenesis by a Magneto-Plasmonic Nanomaterial-Based Exosomal miRNA Detection. <i>ACS Nano</i> , 2019 , 13, 8793-8803	16.7	33
27	In situ monitoring of doxorubicin release from biohybrid nanoparticles modified with antibody and cell-penetrating peptides in breast cancer cells using surface-enhanced Raman spectroscopy. <i>Biosensors and Bioelectronics</i> , 2015 , 71, 300-305	11.8	30
26	Magnetic Oleosome as a Functional Lipophilic Drug Carrier for Cancer Therapy. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 9301-9309	9.5	30
25	Flexible electrochemical biosensors for healthcare monitoring. <i>Journal of Materials Chemistry B</i> , 2020 , 8, 7303-7318	7.3	25
24	Hybrid Graphene-Gold Nanoparticle-based Nucleic Acid Conjugates for Cancer-Specific Multimodal Imaging and Combined Therapeutics. <i>Advanced Functional Materials</i> , 2021 , 31, 2006918	15.6	21
23	Engineered peptide-based nanobiomaterials for electrochemical cell chip. <i>Nano Convergence</i> , 2016 , 3, 17	9.2	17
22	Tumor Homing Reactive Oxygen Species Nanoparticle for Enhanced Cancer Therapy. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 23909-23918	9.5	14
21	Cell chip with a thiolated chitosan self-assembled monolayer to detect the effects of anticancer drugs on breast normal and cancer cells. <i>Colloids and Surfaces B: Biointerfaces</i> , 2013 , 112, 387-92	6	13

20	Microdevice Platform for In Vitro Nervous System and Its Disease Model. <i>Bioengineering</i> , 2017 , 4,	5.3	12
19	Combinatorial biophysical cue sensor array for controlling neural stem cell fate. <i>Biosensors and Bioelectronics</i> , 2020 , 156, 112125	11.8	9
18	Neural Cell Chip Based Electrochemical Detection of Nanotoxicity. <i>Nanomaterials</i> , 2015 , 5, 1181-1199	5.4	9
17	Top2b is involved in the formation of outer segment and synapse during late-stage photoreceptor differentiation by controlling key genes of photoreceptor transcriptional regulatory network. <i>Journal of Neuroscience Research</i> , 2017 , 95, 1951-1964	4.4	8
16	Silver Nanostar Patterned Substrate for Label-Free Characterization of Breast Cancer Cells based on Surface-Enhanced Raman Spectroscopy. <i>Science of Advanced Materials</i> , 2014 , 6, 2491-2495	2.3	8
15	Subtyping of Magnetically Isolated Breast Cancer Cells Using Magnetic Force Microscopy. <i>Biotechnology Journal</i> , 2018 , 13, e1700625	5.6	6
14	Site-Specific Incorporation of a Dithiolane Containing Amino Acid into Proteins. <i>Bioconjugate Chemistry</i> , 2019 , 30, 2102-2105	6.3	5
13	Fabrication of carbon nanotubes/RGD peptide composites to enhance electrochemical performance of cell chip. <i>Journal of Biomedical Nanotechnology</i> , 2013 , 9, 1398-402	4	5
12	Microfluidic System to Analyze the Effects of Interleukin 6 on Lymphatic Breast Cancer Metastasis. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020 , 8, 611802	5.8	5
11	Electrophysiological Monitoring of Neurochemical-Based Neural Signal Transmission in a Human Brain-Spinal Cord Assembloid.. <i>ACS Sensors</i> , 2022 ,	9.2	4
10	DNA-Gold Nanoparticle Conjugates for Intracellular miRNA Detection Using Surface-Enhanced Raman Spectroscopy. <i>Biochip Journal</i> , 1	4	4
9	Gold Nanosphere-Deposited Substrate for Distinguishing of Breast Cancer Subtypes Using Surface-Enhanced Raman Spectroscopy. <i>Journal of Nanoscience and Nanotechnology</i> , 2016 , 16, 6299-303 ¹⁻³	1.3	4
8	Electrically controlled delivery of cargo into single human neural stem cell. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 20709-16	9.5	3
7	Microfluidic Chip-Based Cancer Diagnosis and Prediction of Relapse by Detecting Circulating Tumor Cells and Circulating Cancer Stem Cells. <i>Cancers</i> , 2021 , 13,	6.6	3
6	Fabrication of stem cell chip with peptide nanopatterned layer to detect cytotoxicity of environmental toxicants. <i>Journal of Nanoscience and Nanotechnology</i> , 2012 , 12, 834-9	1.3	2
5	Au-Crumpled Graphene Modified Electrode to Detect Neurotransmitters based on Spectroelectrochemical Method. <i>Science of Advanced Materials</i> , 2014 , 6, 2577-2581	2.3	2
4	Conductive GelMA-Collagen-AgNW Blended Hydrogel for Smart Actuator. <i>Polymers</i> , 2021 , 13,	4.5	2
3	Metallic Nanoparticle-Based Optical Cell Chip for Nondestructive Monitoring of Intra/Extracellular Signals. <i>Pharmaceutics</i> , 2020 , 12,	6.4	1

2	Disassembly of Nanospheres with a PEG Shell upon Adsorption onto PEGylated Substrates. <i>Langmuir</i> , 2020 , 36, 232-241	4	1
1	Fabrication of electrochemical biosensor composed of multi-functional DNA 4 way junction for TNF- α detection in human serum. <i>Bioelectrochemistry</i> , 2021 , 142, 107939	5.6	1