Hyeon-Yeol Cho

List of Publications by Year in Descending Order

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	Electrophysiological Monitoring of Neurochemical-Based Neural Signal Transmission in a Human Brain-Spinal Cord Assembloid.. *ACS Sensors*, **2022**,	9.2	4
36	Conductive GelMA-Collagen-AgNW Blended Hydrogel for Smart Actuator. *Polymers*, **2021**, 13,	4.5	2
35	Hybrid Graphene-Gold Nanoparticle-based Nucleic Acid Conjugates for Cancer-Specific Multimodal Imaging and Combined Therapeutics. *Advanced Functional Materials*, **2021**, 31, 2006918	15.6	21
34	Microfluidic Chip-Based Cancer Diagnosis and Prediction of Relapse by Detecting Circulating Tumor Cells and Circulating Cancer Stem Cells. *Cancers*, **2021**, 13,	6.6	3
33	Fabrication of electrochemical biosensor composed of multi-functional DNA 4 way junction for TNF-□detection in human serum. *Bioelectrochemistry*, **2021**, 142, 107939	5.6	1
32	Flexible electrochemical biosensors for healthcare monitoring. *Journal of Materials Chemistry B*, **2020**, 8, 7303-7318	7.3	25
31	Combinatorial biophysical cue sensor array for controlling neural stem cell fate. *Biosensors and Bioelectronics*, **2020**, 156, 112125	11.8	9
30	Metallic Nanoparticle-Based Optical Cell Chip for Nondestructive Monitoring of Intra/Extracellular Signals. *Pharmaceutics*, **2020**, 12,	6.4	1
29	Disassembly of Nanospheres with a PEG Shell upon Adsorption onto PEGylated Substrates. *Langmuir*, **2020**, 36, 232-241	4	1
28	Microfluidic System to Analyze the Effects of Interleukin 6 on Lymphatic Breast Cancer Metastasis. *Frontiers in Bioengineering and Biotechnology*, **2020**, 8, 611802	5.8	5
27	Programmed degradation of a hierarchical nanoparticle with redox and light responsivity for self-activated photo-chemical enhanced chemodynamic therapy. *Biomaterials*, **2019**, 224, 119498	15.6	61
26	Tumor Homing Reactive Oxygen Species Nanoparticle for Enhanced Cancer Therapy. *ACS Applied Materials & Interfaces*, **2019**, 11, 23909-23918	9.5	14
25	HO biosensor consisted of hemoglobin-DNA conjugate on nanoporous gold thin film electrode with electrochemical signal enhancement. *Nano Convergence*, **2019**, 6, 1	9.2	37
24	Site-Specific Incorporation of a Dithiolane Containing Amino Acid into Proteins. *Bioconjugate Chemistry*, **2019**, 30, 2102-2105	6.3	5
23	Nondestructive Characterization of Stem Cell Neurogenesis by a Magneto-Plasmonic Nanomaterial-Based Exosomal miRNA Detection. *ACS Nano*, **2019**, 13, 8793-8803	16.7	33
22	Engineered Mesenchymal Stem Cell/Nanomedicine Spheroid as an Active Drug Delivery Platform for Combinational Glioblastoma Therapy. *Nano Letters*, **2019**, 19, 1701-1705	11.5	40
21	Magnetic Oleosome as a Functional Lipophilic Drug Carrier for Cancer Therapy. *ACS Applied Materials & Interfaces*, **2018**, 10, 9301-9309	9.5	30

20	Subtyping of Magnetically Isolated Breast Cancer Cells Using Magnetic Force Microscopy. *Biotechnology Journal*, **2018**, 13, e1700625	5.6	6
19	Application of Gold Nanoparticle to Plasmonic Biosensors. *International Journal of Molecular Sciences*, **2018**, 19,	6.3	63
18	Overcoming Chemoresistance in Cancer via Combined MicroRNA Therapeutics with Anticancer Drugs Using Multifunctional Magnetic Core-Shell Nanoparticles. *ACS Applied Materials & Interfaces*, **2018**, 10, 26954-26963	9.5	36
17	SERS-Based Quantification of Biomarker Expression at the Single Cell Level Enabled by Gold Nanostars and Truncated Aptamers. *Bioconjugate Chemistry*, **2018**, 29, 2970-2981	6.3	36
16	Selective isolation and noninvasive analysis of circulating cancer stem cells through Raman imaging. *Biosensors and Bioelectronics*, **2018**, 102, 372-382	11.8	42
15	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. *Journal of Neuroscience Research*, **2017**, 95, 1951-1964	4.4	8
14	Microdevice Platform for In Vitro Nervous System and Its Disease Model. *Bioengineering*, **2017**, 4,	5.3	12
13	Engineered peptide-based nanobiomaterials for electrochemical cell chip. *Nano Convergence*, **2016**, 3, 17	9.2	17
12	Gold Nanosphere-Deposited Substrate for Distinguishing of Breast Cancer Subtypes Using Surface-Enhanced Raman Spectroscopy. *Journal of Nanoscience and Nanotechnology*, **2016**, 16, 6299-303	1.3	4
11	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. *Biosensors and Bioelectronics*, **2015**, 71, 300-305	11.8	30
10	Neural Cell Chip Based Electrochemical Detection of Nanotoxicity. *Nanomaterials*, **2015**, 5, 1181-1199	5.4	9
9	Synthesis of metal nanoparticles inside living human cells based on the intracellular formation process. *Advanced Materials*, **2014**, 26, 910-8	24	39
8	Electrically controlled delivery of cargo into single human neural stem cell. *ACS Applied Materials & Interfaces*, **2014**, 6, 20709-16	9.5	3
7	Au-Crumpled Graphene Modified Electrode to Detect Neurotransmitters based on Spectroelectrochemical Method. *Science of Advanced Materials*, **2014**, 6, 2577-2581	2.3	2
6	Silver Nanostar Patterned Substrate for Label-Free Characterization of Breast Cancer Cells based on Surface-Enhanced Raman Spectroscopy. *Science of Advanced Materials*, **2014**, 6, 2491-2495	2.3	8
5	Simultaneous capture and in situ analysis of circulating tumor cells using multiple hybrid nanoparticles. *Biosensors and Bioelectronics*, **2013**, 47, 508-14	11.8	51
4	Cell chip with a thiolated chitosan self-assembled monolayer to detect the effects of anticancer drugs on breast normal and cancer cells. *Colloids and Surfaces B: Biointerfaces*, **2013**, 112, 387-92	6	13
3	Fabrication of carbon nanotubes/RGD peptide composites to enhance electrochemical performance of cell chip. *Journal of Biomedical Nanotechnology*, **2013**, 9, 1398-402	4	5

2	Fabrication of stem cell chip with peptide nanopatterned layer to detect cytotoxicity of environmental toxicants. *Journal of Nanoscience and Nanotechnology*, **2012**, 12, 834-9	1.3	2
1	DNA□Gold Nanoparticle Conjugates for Intracellular miRNA Detection Using Surface-Enhanced Raman Spectroscopy. *Biochip Journal*,1	4	4