

Jinho Yoon

List of Publications by Year in descending order

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Version: 2024-02-01

40
papers

1,309
citations

304743

22
h-index

345221

36
g-index

41
all docs

41
docs citations

41
times ranked

1556
citing authors

#	ARTICLE	IF	CITATIONS
1	Bionanohybrid composed of metalloprotein/DNA/MoS ₂ /peptides to control the intracellular redox states of living cells and its applicability as a cell-based biomemory device. <i>Biosensors and Bioelectronics</i> , 2022, 196, 113725.	10.1	6
2	Fabrication of MERS-nanovesicle biosensor composed of multi-functional DNA aptamer/graphene-MoS ₂ nanocomposite based on electrochemical and surface-enhanced Raman spectroscopy. <i>Sensors and Actuators B: Chemical</i> , 2022, 352, 131060.	7.8	34
3	Dynamic Ligand Screening by Magnetic Nanoassembly Modulates Stem Cell Differentiation. <i>Advanced Materials</i> , 2022, 34, e2105460.	21.0	23
4	RNA interference (RNAi)-based plasmonic nanomaterials for cancer diagnosis and therapy. <i>Journal of Controlled Release</i> , 2022, 342, 228-240.	9.9	16
5	Receptor-Level Proximity and Fastening of Ligands Modulates Stem Cell Differentiation. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	11
6	Ultrasensitive Electrochemical Detection of Mutated Viral RNAs with Single-Nucleotide Resolution Using a Nanoporous Electrode Array (NPEA). <i>ACS Nano</i> , 2022, 16, 5764-5777.	14.6	20
7	Biomolecular Electron Controller Composed of Nanobiohybrid with Electrically Released Complex for Spatiotemporal Control of Neuronal Differentiation. <i>Small Methods</i> , 2022, 6, 2100912.	8.6	4
8	Electrochemical Cell Chips Based on Functionalized Nanometals. <i>Frontiers in Chemistry</i> , 2021, 9, 671922.	3.6	0
9	Clustered Regularly Interspaced Short Palindromic Repeats-Mediated Amplification-Free Detection of Viral DNAs Using Surface-Enhanced Raman Spectroscopy-Active Nanoarray. <i>ACS Nano</i> , 2021, 15, 13475-13485.	14.6	71
10	Magnetic Control and Real-Time Monitoring of Stem Cell Differentiation by the Ligand Nanoassembly. <i>Small</i> , 2021, 17, e2102892.	10.0	22
11	Graphene/MoS ₂ Nanohybrid for Biosensors. <i>Materials</i> , 2021, 14, 518.	2.9	25
12	Single Functionalized pRNA/Gold Nanoparticle for Ultrasensitive MicroRNA Detection Using Electrochemical Surface-Enhanced Raman Spectroscopy. <i>Advanced Science</i> , 2020, 7, 1902477.	11.2	53
13	Recent Advances in MXene Nanocomposite-Based Biosensors. <i>Biosensors</i> , 2020, 10, 185.	4.7	57
14	Recent Advances in Biomolecule-Based Nanomaterial Heterolayer-Based Charge Storage Devices for Bioelectronic Applications. <i>Materials</i> , 2020, 13, 3520.	2.9	3
15	Nanobiohybrid Material-Based Bioelectronic Devices. <i>Biotechnology Journal</i> , 2020, 15, e1900347.	3.5	13
16	Flexible electrochemical biosensors for healthcare monitoring. <i>Journal of Materials Chemistry B</i> , 2020, 8, 7303-7318.	5.8	64
17	Highly Sensitive Biosensors Based on Biomolecules and Functional Nanomaterials Depending on the Types of Nanomaterials: A Perspective Review. <i>Materials</i> , 2020, 13, 299.	2.9	70
18	H ₂ O ₂ biosensor consisted of hemoglobin-DNA conjugate on nanoporous gold thin film electrode with electrochemical signal enhancement. <i>Nano Convergence</i> , 2019, 6, 1.	12.1	75

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19	Fabrication of Troponin I Biosensor Composed of Multi-Functional DNA Structure/Au Nanocrystal Using Electrochemical and Localized Surface Plasmon Resonance Dual-Detection Method. <i>Nanomaterials</i> , 2019, 9, 1000.	4.1	30
20	Flexible HIV-1 Biosensor Based on the Au/MoS ₂ Nanoparticles/Au Nanolayer on the PET Substrate. <i>Nanomaterials</i> , 2019, 9, 1076.	4.1	34
21	Resistive switching biodevice composed of MoS ₂ -DNA heterolayer on the gold electrode. <i>Applied Surface Science</i> , 2019, 478, 134-141.	6.1	28
22	Multifunctional Nanobiohybrid Material Composed of Ag@Bi ₂ Se ₃ /RNA Three-Way Junction/miRNA/Retinoic Acid for Neuroblastoma Differentiation. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 8779-8788.	8.0	20
23	Flexible electrochemical glucose biosensor based on GOx/gold/MoS ₂ /gold nanofilm on the polymer electrode. <i>Biosensors and Bioelectronics</i> , 2019, 140, 111343.	10.1	83
24	Development of Bioelectronic Devices Using Bionanohybrid Materials for Biocomputation System. <i>Micromachines</i> , 2019, 10, 347.	2.9	11
25	Electrochemical Dopamine Biosensor Composed of Silver Encapsulated MoS ₂ Hybrid Nanoparticle. <i>Biotechnology and Bioprocess Engineering</i> , 2019, 24, 135-144.	2.6	41
26	Magnetic Oleosome as a Functional Lipophilic Drug Carrier for Cancer Therapy. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 9301-9309.	8.0	42
27	Electrochemical Biosensor Composed of Silver Ion-Mediated dsDNA on Au-Encapsulated Bi ₂ Se ₃ Nanoparticles for the Detection of H ₂ O ₂ Released from Breast Cancer Cells. <i>Small</i> , 2018, 14, e1703970.	10.0	74
28	Spectroelectrochemical detection of microRNA-155 based on functional RNA immobilization onto ITO/GNP nanopattern. <i>Journal of Biotechnology</i> , 2018, 274, 40-46.	3.8	24
29	Nanostructured surfaces for analysis of anticancer drug and cell diagnosis based on electrochemical and SERS tools. <i>Nano Convergence</i> , 2018, 5, 11.	12.1	37
30	Bifunctional Au@Bi ₂ Se ₃ Core-Shell Nanoparticle for Synergetic Therapy by SERS-Traceable AntagomiR Delivery and Photothermal Treatment. <i>Small</i> , 2018, 14, e1802934.	10.0	47
31	Electrochemical H ₂ O ₂ biosensor composed of myoglobin on MoS ₂ nanoparticle-graphene oxide hybrid structure. <i>Biosensors and Bioelectronics</i> , 2017, 93, 14-20.	10.1	113
32	Electrochemical nitric oxide biosensor based on amine-modified MoS ₂ /graphene oxide/myoglobin hybrid. <i>Colloids and Surfaces B: Biointerfaces</i> , 2017, 159, 729-736.	5.0	38
33	Electrochemical nucleic acid detection based on parallel structural dsDNA/recombinant azurin hybrid. <i>Biosensors and Bioelectronics</i> , 2017, 98, 292-298.	10.1	25
34	Multi-electrochemical signal generation using metalloprotein based on selective surface modification. <i>Biochip Journal</i> , 2017, 11, 322-328.	4.9	3
35	Silver Nanoparticle Modified Electrode Covered by Graphene Oxide for the Enhanced Electrochemical Detection of Dopamine. <i>Sensors</i> , 2017, 17, 2771.	3.8	56
36	Investigation of Hemoglobin/Gold Nanoparticle Heterolayer on Micro-Gap for Electrochemical Biosensor Application. <i>Sensors</i> , 2016, 16, 660.	3.8	9

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37	Dual-Level Biomemory Device Composed of Cytochrome c/DNA/Myoglobin Heterolayer. Journal of Nanoscience and Nanotechnology, 2016, 16, 8724-8727.	0.9	1
38	A biomemory chip composed of a myoglobin/CNT heterolayer fabricated by the protein-adsorption-precipitation-crosslinking (PAPC) technique. Colloids and Surfaces B: Biointerfaces, 2015, 136, 853-858.	5.0	6
39	Fusion protein-based biofilm fabrication composed of recombinant azurinâ€“myoglobin for dual-level biomemory application. Applied Surface Science, 2014, 320, 448-454.	6.1	4
40	3D Neural Network Composed of Neurospheroid and Bionanohybrid on Microelectrode Array to Realize the Spatial Input Signal Recognition in Neurospheroid. Small Methods, 0, , 2200127.	8.6	2