

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	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
2	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
3	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
4	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
5	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
6	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
7	Flexible electrochemical biosensors for healthcare monitoring. <i>Journal of Materials Chemistry B</i> , 2020, 8, 7303-7318.	5.8	64
8	Recent Advances in MXene Nanocomposite-Based Biosensors. <i>Biosensors</i> , 2020, 10, 185.	4.7	57
9	Silver Nanoparticle Modified Electrode Covered by Graphene Oxide for the Enhanced Electrochemical Detection of Dopamine. <i>Sensors</i> , 2017, 17, 2771.	3.8	56
10	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
11	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
12	Magnetic Oleosome as a Functional Lipophilic Drug Carrier for Cancer Therapy. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 9301-9309.	8.0	42
13	Electrochemical Dopamine Biosensor Composed of Silver Encapsulated MoS ₂ Hybrid Nanoparticle. <i>Biotechnology and Bioprocess Engineering</i> , 2019, 24, 135-144.	2.6	41
14	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
15	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
16	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
17	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
18	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

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19	Resistive switching biodevice composed of MoS ₂ -DNA heterolayer on the gold electrode. Applied Surface Science, 2019, 478, 134-141.	6.1	28
20	Electrochemical nucleic acid detection based on parallel structural dsDNA/recombinant azurin hybrid. Biosensors and Bioelectronics, 2017, 98, 292-298.	10.1	25
21	Graphene/MoS ₂ Nanohybrid for Biosensors. Materials, 2021, 14, 518.	2.9	25
22	Spectroelectrochemical detection of microRNA-155 based on functional RNA immobilization onto ITO/GNP nanopattern. Journal of Biotechnology, 2018, 274, 40-46.	3.8	24
23	Dynamic Ligand Screening by Magnetic Nanoassembly Modulates Stem Cell Differentiation. Advanced Materials, 2022, 34, e2105460.	21.0	23
24	Magnetic Control and Real-time Monitoring of Stem Cell Differentiation by the Ligand Nanoassembly. Small, 2021, 17, e2102892.	10.0	22
25	Multifunctional Nanobiohybrid Material Composed of Ag@Bi ₂ Se ₃ /RNA Three-Way Junction/miRNA/Retinoic Acid for Neuroblastoma Differentiation. ACS Applied Materials & Interfaces, 2019, 11, 8779-8788.	8.0	20
26	Ultrasensitive Electrochemical Detection of Mutated Viral RNAs with Single-Nucleotide Resolution Using a Nanoporous Electrode Array (NPEA). ACS Nano, 2022, 16, 5764-5777.	14.6	20
27	RNA interference (RNAi)-based plasmonic nanomaterials for cancer diagnosis and therapy. Journal of Controlled Release, 2022, 342, 228-240.	9.9	16
28	Nanobiohybrid Material-Based Bioelectronic Devices. Biotechnology Journal, 2020, 15, e1900347.	3.5	13
29	Development of Bioelectronic Devices Using Bionanohybrid Materials for Biocomputation System. Micromachines, 2019, 10, 347.	2.9	11
30	Receptor-Level Proximity and Fastening of Ligands Modulates Stem Cell Differentiation. Advanced Functional Materials, 2022, 32, .	14.9	11
31	Investigation of Hemoglobin/Gold Nanoparticle Heterolayer on Micro-Gap for Electrochemical Biosensor Application. Sensors, 2016, 16, 660.	3.8	9
32	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
33	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. Biosensors and Bioelectronics, 2022, 196, 113725.	10.1	6
34	Fusion protein-based biofilm fabrication composed of recombinant azurin-myoglobin for dual-level biomemory application. Applied Surface Science, 2014, 320, 448-454.	6.1	4
35	Biomolecular Electron Controller Composed of Nanobiohybrid with Electrically Released Complex for Spatiotemporal Control of Neuronal Differentiation. Small Methods, 2022, 6, 2100912.	8.6	4
36	Multi-electrochemical signal generation using metalloprotein based on selective surface modification. Biochip Journal, 2017, 11, 322-328.	4.9	3

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37	Recent Advances in Biomoleculeâ€“Nanomaterial Heterolayer-Based Charge Storage Devices for Bioelectronic Applications. <i>Materials</i> , 2020, 13, 3520.	2.9	3
38	3D Neural Network Composed of Neurospheroid and Bionanohybrid on Microelectrode Array to Realize the Spatial Input Signal Recognition in Neurospheroid. <i>Small Methods</i> , 0, , 2200127.	8.6	2
39	Dual-Level Biomemory Device Composed of Cytochrome <i>c</i> /DNA/Myoglobin Heterolayer. <i>Journal of Nanoscience and Nanotechnology</i> , 2016, 16, 8724-8727.	0.9	1
40	Electrochemical Cell Chips Based on Functionalized Nanometals. <i>Frontiers in Chemistry</i> , 2021, 9, 671922.	3.6	0