Taek Lee

List of Publications by Year in descending order

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TAERLEE

#	Article	IF	CITATIONS
1	Fabrication of a surface-enhanced Raman spectroscopy-based analytical method consisting of multifunctional DNA three-way junction-conjugated porous gold nanoparticles and Au-Te nanoworm for C-reactive protein detection. Analytical and Bioanalytical Chemistry, 2022, 414, 3197-3204.	3.7	13
2	Fabrication of MERS-nanovesicle biosensor composed of multi-functional DNA aptamer/graphene-MoS2 nanocomposite based on electrochemical and surface-enhanced Raman spectroscopy. Sensors and Actuators B: Chemical, 2022, 352, 131060.	7.8	34
3	A pretreatment-free electrical capacitance biosensor for exosome detection in undiluted serum. Biosensors and Bioelectronics, 2022, 199, 113872.	10.1	28
4	Improved Productivity of Naringin Oleate with Flavonoid and Fatty Acid by Efficient Enzymatic Esterification. Antioxidants, 2022, 11, 242.	5.1	13
5	Enhanced Production of Bacterial Cellulose from Miscanthus as Sustainable Feedstock through Statistical Optimization of Culture Conditions. International Journal of Environmental Research and Public Health, 2022, 19, 866.	2.6	21
6	Efficient Production of Naringin Acetate with Different Acyl Donors via Enzymatic Transesterification by Lipases. International Journal of Environmental Research and Public Health, 2022, 19, 2972.	2.6	6
7	Recent Trends in Biosensors Based on Electrochemical and Optical Techniques for Cyanobacterial Neurotoxin Detection. Biochip Journal, 2022, 16, 146-157.	4.9	10
8	Rapid electrochemical dual-target biosensor composed of an Aptamer/MXene hybrid on Au microgap electrodes for cytokines detection. Biosensors and Bioelectronics, 2022, 207, 114159.	10.1	36
9	Electrochemical biosensor with aptamer/porous platinum nanoparticle on round-type micro-gap electrode for saxitoxin detection in fresh water. Biosensors and Bioelectronics, 2022, 210, 114300.	10.1	23
10	Recent Advances in DNA Nanotechnology for Plasmonic Biosensor Construction. Biosensors, 2022, 12, 418.	4.7	5
11	Plasmaâ€mediated enhancement of enzyme secretion in Aspergillus oryzae. Microbial Biotechnology, 2021, 14, 262-276.	4.2	16
12	Fabrication of ultrasensitive electrochemical biosensor for dengue fever viral RNA Based on CRISPR/Cpf1 reaction. Sensors and Actuators B: Chemical, 2021, 326, 128677.	7.8	54
13	Fabrication of Electrochemical Influenza Virus (H1N1) Biosensor Composed of Multifunctional DNA Four-Way Junction and Molybdenum Disulfide Hybrid Material. Materials, 2021, 14, 343.	2.9	20
14	Fabrication of an electrochemical biosensor composed of multi-functional Ag ion intercalated DNA four-way junctions/rhodium nanoplate heterolayer on a micro-gap for C-reactive protein detection in human serum. Analyst, The, 2021, 146, 2131-2137.	3.5	17
15	Improved production of bacterial cellulose through investigation of effects of inhibitory compounds from lignocellulosic hydrolysates. GCB Bioenergy, 2021, 13, 436-444.	5.6	16
16	Recent Advances in CRP Biosensor Based on Electrical, Electrochemical and Optical Methods. Sensors, 2021, 21, 3024.	3.8	13
17	Fabrication of an Electrochemical Aptasensor Composed of Multifunctional DNA Three-Way Junction on Au Microgap Electrode for Interferon Gamma Detection in Human Serum. Biomedicines, 2021, 9, 692.	3.2	9
18	Fabrication of electrochemical biosensor composed of multi-functional DNA 4 way junction for TNF-α detection in human serum. Bioelectrochemistry, 2021, 142, 107939.	4.6	5

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19	Development of Colorimetric Whole-Cell Biosensor for Detection of Heavy Metals in Environment for Public Health. International Journal of Environmental Research and Public Health, 2021, 18, 12721.	2.6	6
20	Improving Biosensors by the Use of Different Nanomaterials: Case Study with Microcystins as Target Analytes. Biosensors, 2021, 11, 525.	4.7	7
21	Recent Advances in Aptasensor for Cytokine Detection: A Review. Sensors, 2021, 21, 8491.	3.8	18
22	Enhancing Neurogenesis of Neural Stem Cells Using Homogeneous Nanohole Pattern-Modified Conductive Platform. International Journal of Molecular Sciences, 2020, 21, 191.	4.1	15
23	Single Functionalized pRNA/Gold Nanoparticle for Ultrasensitive MicroRNA Detection Using Electrochemical Surfaceâ€Enhanced Raman Spectroscopy. Advanced Science, 2020, 7, 1902477.	11.2	53
24	Novel and Efficient Synthesis of Phenethyl Formate via Enzymatic Esterification of Formic Acid. Biomolecules, 2020, 10, 70.	4.0	21
25	Flexible Electronics for Monitoring in vivo Electrophysiology and Metabolite Signals. Frontiers in Chemistry, 2020, 8, 547591.	3.6	4
26	Fabrication of Bioprobe Self-Assembled on Au–Te Nanoworm Structure for SERS Biosensor. Materials, 2020, 13, 3234.	2.9	7
27	Enzymatic Synthesis of Formate Ester through Immobilized Lipase and Its Reuse. Polymers, 2020, 12, 1802.	4.5	23
28	Recent Advances in Biomolecule–Nanomaterial Heterolayer-Based Charge Storage Devices for Bioelectronic Applications. Materials, 2020, 13, 3520.	2.9	3
29	Recent Development of Aptasensor for Influenza Virus Detection. Biochip Journal, 2020, 14, 327-339.	4.9	38
30	Nanobiohybrid Materialâ€Based Bioelectronic Devices. Biotechnology Journal, 2020, 15, e1900347.	3.5	13
31	Novel Hybrid Conductor of Irregularly Patterned Graphene Mesh and Silver Nanowire Networks. Micromachines, 2020, 11, 578.	2.9	3
32	Fabrication of electrochemical biosensor composed of multi-functional DNA/rhodium nanoplate heterolayer for thyroxine detection in clinical sample. Colloids and Surfaces B: Biointerfaces, 2020, 195, 111240.	5.0	28
33	Highly Sensitive Biosensors Based on Biomolecules and Functional Nanomaterials Depending on the Types of Nanomaterials: A Perspective Review. Materials, 2020, 13, 299.	2.9	70
34	Recent advances in nanomaterial-modified electrical platforms for the detection of dopamine in living cells. Nano Convergence, 2020, 7, 40.	12.1	30
35	H2O2 biosensor consisted of hemoglobin-DNA conjugate on nanoporous gold thin film electrode with electrochemical signal enhancement. Nano Convergence, 2019, 6, 1.	12.1	75
36	Fabrication of Troponin I Biosensor Composed of Multi-Functional DNA Structure/Au Nanocrystal Using Electrochemical and Localized Surface Plasmon Resonance Dual-Detection Method. Nanomaterials, 2019, 9, 1000.	4.1	30

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37	Label-free localized surface plasmon resonance biosensor composed of multi-functional DNA 3 way junction on hollow Au spike-like nanoparticles (HAuSN) for avian influenza virus detection. Colloids and Surfaces B: Biointerfaces, 2019, 182, 110341.	5.0	56
38	Flexible HIV-1 Biosensor Based on the Au/MoS2 Nanoparticles/Au Nanolayer on the PET Substrate. Nanomaterials, 2019, 9, 1076.	4.1	34
39	Enhanced l-Lysine into 1,5-Diaminopentane Conversion via Statistical Optimization of Whole-Cell Decarboxylation System. Polymers, 2019, 11, 1372.	4.5	15
40	Fabrication of electrochemical biosensor consisted of multi-functional DNA structure/porous au nanoparticle for avian influenza virus (H5N1) in chicken serum. Materials Science and Engineering C, 2019, 99, 511-519.	7.3	87
41	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
42	Flexible electrochemical glucose biosensor based on GOx/gold/MoS2/gold nanofilm on the polymer electrode. Biosensors and Bioelectronics, 2019, 140, 111343.	10.1	83
43	Development of Bioelectronic Devices Using Bionanohybrid Materials for Biocomputation System. Micromachines, 2019, 10, 347.	2.9	11
44	Development of the Troponin Detection System Based on the Nanostructure. Micromachines, 2019, 10, 203.	2.9	17
45	Fabrication of electrochemical biosensor composed of multi-functional DNA structure/Au nanospike on micro-gap/PCB system for detecting troponin I in human serum. Colloids and Surfaces B: Biointerfaces, 2019, 175, 343-350.	5.0	54
46	Magnetic Oleosome as a Functional Lipophilic Drug Carrier for Cancer Therapy. ACS Applied Materials & Interfaces, 2018, 10, 9301-9309.	8.0	42
47	Electrochemical Biosensor Composed of Silver Ionâ€Mediated dsDNA on Auâ€Encapsulated Bi ₂ Se ₃ Nanoparticles for the Detection of H ₂ O ₂ Released from Breast Cancer Cells. Small, 2018, 14, e1703970.	10.0	74
48	Spectroelectrochemical detection of microRNA-155 based on functional RNA immobilization onto ITO/GNP nanopattern. Journal of Biotechnology, 2018, 274, 40-46.	3.8	24
49	Fabrication of Electrochemical-Based Bioelectronic Device and Biosensor Composed of Biomaterial-Nanomaterial Hybrid. Advances in Experimental Medicine and Biology, 2018, 1064, 263-296.	1.6	10
50	Recent Advances in AIV Biosensors Composed of Nanobio Hybrid Material. Micromachines, 2018, 9, 651.	2.9	31
51	Nanobiosensing Platforms for Real-time and Non-Invasive Monitoring of Stem Cell Pluripotency and Differentiation. Sensors, 2018, 18, 2755.	3.8	23
52	Improved reutilization of industrial crude lysine to 1,5-diaminopentane by enzymatic decarboxylation using various detergents and organic solvents. Korean Journal of Chemical Engineering, 2018, 35, 1854-1859.	2.7	9
53	Bifunctional Au@Bi ₂ Se ₃ Core–Shell Nanoparticle for Synergetic Therapy by SERSâ€Traceable AntagomiR Delivery and Photothermal Treatment. Small, 2018, 14, e1802934.	10.0	47
54	Electrochemical H2O2 biosensor composed of myoglobin on MoS2 nanoparticle-graphene oxide hybrid structure. Biosensors and Bioelectronics, 2017, 93, 14-20.	10.1	113

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55	Electrochemical nitric oxide biosensor based on amine-modified MoS2/graphene oxide/myoglobin hybrid. Colloids and Surfaces B: Biointerfaces, 2017, 159, 729-736.	5.0	38
56	Electrochemical nucleic acid detection based on parallel structural dsDNA/recombinant azurin hybrid. Biosensors and Bioelectronics, 2017, 98, 292-298.	10.1	25
57	Recombinant azurin-CdSe/ZnS hybrid structures for nanoscale resistive random access memory device. Biosensors and Bioelectronics, 2017, 90, 23-30.	10.1	24
58	Azurin/CdSe-ZnS-Based Bio-Nano Hybrid Structure for Nanoscale Resistive Memory Device. Materials, 2017, 10, 803.	2.9	4
59	Investigation of Hemoglobin/Gold Nanoparticle Heterolayer on Micro-Gap for Electrochemical Biosensor Application. Sensors, 2016, 16, 660.	3.8	9
60	Nano-Biosensor for Monitoring the Neural Differentiation of Stem Cells. Nanomaterials, 2016, 6, 224.	4.1	18
61	Dual-Level Biomemory Device Composed of Cytochrome c/DNA/Myoglobin Heterolayer. Journal of Nanoscience and Nanotechnology, 2016, 16, 8724-8727.	0.9	1
62	Fabrication of fusion protein-based heterolayers composed of redox protein/myoglobin for bioelectronic device. Biochip Journal, 2016, 10, 103-110.	4.9	4
63	DNA-Recombinant Azurin Conjugation as a Biomemory Platform with Enhanced Sensitivity. Journal of Nanoscience and Nanotechnology, 2016, 16, 11857-11861.	0.9	2
64	Electrochemical Bioelectronic Device Consisting of Metalloprotein for Analog Decision Making. Scientific Reports, 2015, 5, 14501.	3.3	8
65	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
66	Graphene-Based Materials for Stem Cell Applications. Materials, 2015, 8, 8674-8690.	2.9	59
67	Construction of RNA–Quantum Dot Chimera for Nanoscale Resistive Biomemory Application. ACS Nano, 2015, 9, 6675-6682.	14.6	52
68	RNA as a stable polymer to build controllable and defined nanostructures for material and biomedical applications. Nano Today, 2015, 10, 631-655.	11.9	103
69	Fusion protein bilayer fabrication composed of recombinant azurin/cytochrome P450 by the sortase-mediated ligation method. Colloids and Surfaces B: Biointerfaces, 2014, 120, 215-221.	5.0	3
70	Fabrication of Biomolecules Self-Assembled on Au Nanodot Array for Bioelectronic Device. Journal of Nanoscience and Nanotechnology, 2013, 13, 6020-6026.	0.9	0
71	Nanoscale Biofilm Modification-Method Concerning a Myoglobin/11-MUA Bilayers for Bioelectronic Device. Journal of Nanoscience and Nanotechnology, 2012, 12, 4119-4126.	0.9	1
72	Multifunctional 4-bit biomemory chip consisting of recombinant azurin variants. Biomaterials, 2011, 32, 3815-3821.	11.4	28

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73	Multifunctional DNA-based biomemory device consisting of ssDNA/Cu heterolayers. Biosensors and Bioelectronics, 2011, 26, 2304-2310.	10.1	10
74	Signal Enhancement of Electrochemical Biomemory Device Composed of Recombinant Azurin/Gold Nanoparticle. Electroanalysis, 2011, 23, 2023-2029.	2.9	16
75	Protein-Based Multi-Bit Biomemory Device Consisting of Various Metalloproteins on Self-Assembled 11-MUA Layer. Journal of Nanoscience and Nanotechnology, 2011, 11, 523-527.	0.9	3
76	NANOSCALE BIOELECTRONIC DEVICE CONSISTING OF BIOMOLECULES. , 2010, , 347-374.		0
77	Electrochemical biomemory device consisting of recombinant protein molecules. Biotechnology and Bioprocess Engineering, 2010, 15, 30-39.	2.6	10
78	Multilevel Biomemory Device Consisting of Recombinant Azurin/Cytochrome c. Advanced Materials, 2010, 22, 510-514.	21.0	105
79	Verification of surfactant CHAPS effect using AFM for making biomemory device consisting of recombinant azurin monolayer. Ultramicroscopy, 2010, 110, 712-717.	1.9	7
80	Fabrication of Biomemory Device Composed of Myoglobin on DTSSP Layer. Molecular Crystals and Liquid Crystals, 2010, 519, 19-26.	0.9	6
81	Fabrication of Nano Scaled Protein Monolayer Consisting of Cytochrome c on Self-Assembled 11-MUA Layer for Bioelectronic Device. Journal of Nanoscience and Nanotechnology, 2009, 9, 7136-40.	0.9	6