

Jinhee Jo

List of Publications by Year in descending order

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160
papers

5,181
citations

71102

41
h-index

110387

64
g-index

168
all docs

168
docs citations

168
times ranked

7378
citing authors

#	ARTICLE	IF	CITATIONS
1	A reusable Gemini surfactant-based electrochemical sensor for As(III) detection. <i>International Journal of Environmental Analytical Chemistry</i> , 2023, 103, 9036-9047.	3.3	2
2	A stable naked-eye colorimetric sensor for monitoring release of extracellular gamma-aminobutyric acid (GABA) neurotransmitter from SH-SY5Y cells. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2022, 267, 120517.	3.9	5
3	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
4	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
5	DNA-Gold Nanoparticle Conjugates for Intracellular miRNA Detection Using Surface-Enhanced Raman Spectroscopy. <i>Biochip Journal</i> , 2022, 16, 33-40.	4.9	16
6	Fabrication of Hollow Nanocones Membrane with an Extraordinary Surface Area as CO ₂ Sucker. <i>Polymers</i> , 2022, 14, 183.	4.5	3
7	RNA interference (RNAi)-based plasmonic nanomaterials for cancer diagnosis and therapy. <i>Journal of Controlled Release</i> , 2022, 342, 228-240.	9.9	16
8	Electrophysiological Monitoring of Neurochemical-Based Neural Signal Transmission in a Human Brain-Spinal Cord Assembloid. <i>ACS Sensors</i> , 2022, 7, 409-414.	7.8	12
9	Actuation-Augmented Biohybrid Robot by Hyaluronic Acid-Modified Au Nanoparticles in Muscle Bundles to Evaluate Drug Effects. <i>ACS Sensors</i> , 2022, 7, 740-747.	7.8	15
10	Modified Industrial Three-Dimensional Polylactic Acid Scaffold Cell Chip Promotes the Proliferation and Differentiation of Human Neural Stem Cells. <i>International Journal of Molecular Sciences</i> , 2022, 23, 2204.	4.1	3
11	Receptor-Level Proximity and Fastening of Ligands Modulates Stem Cell Differentiation. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	11
12	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
13	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
14	Recent progress in nanomaterial-based bioelectronic devices for biocomputing system. <i>Biosensors and Bioelectronics</i> , 2022, 212, 114427.	10.1	10
15	CRISPR-Cas12a-Based Nucleic Acid Amplification-Free DNA Biosensor via Au Nanoparticle-Assisted Metal-Enhanced Fluorescence and Colorimetric Analysis. <i>Nano Letters</i> , 2021, 21, 693-699.	9.1	221
16	Hybrid Graphene-Gold Nanoparticle-Based Nucleic Acid Conjugates for Cancer-Specific Multimodal Imaging and Combined Therapeutics. <i>Advanced Functional Materials</i> , 2021, 31, 2006918.	14.9	55
17	Microfluidic Chip-Based Cancer Diagnosis and Prediction of Relapse by Detecting Circulating Tumor Cells and Circulating Cancer Stem Cells. <i>Cancers</i> , 2021, 13, 1385.	3.7	18
18	Electrochemical Cell Chips Based on Functionalized Nanometals. <i>Frontiers in Chemistry</i> , 2021, 9, 671922.	3.6	0

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19	Drug Evaluation Based on a Multi-Channel Cell Chip with a Horizontal Co-Culture. <i>International Journal of Molecular Sciences</i> , 2021, 22, 6997.	4.1	4
20	Nanomaterial-Based Fluorescence Resonance Energy Transfer (FRET) and Metal-Enhanced Fluorescence (MEF) to Detect Nucleic Acid in Cancer Diagnosis. <i>Biomedicines</i> , 2021, 9, 928.	3.2	21
21	Sensitive and Direct Optical Monitoring of Release and Cellular Uptake of Aqueous CO from CO-Releasing Molecules. <i>Analytical Chemistry</i> , 2021, 93, 9927-9932.	6.5	3
22	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
23	Electrochemical Microbiosensor for Detecting COVID-19 in a Patient Sample Based on Gold Microcuboids Pattern. <i>Biochip Journal</i> , 2021, 15, 287-295.	4.9	42
24	Magnetic Control and Real-Time Monitoring of Stem Cell Differentiation by the Ligand Nanoassembly. <i>Small</i> , 2021, 17, e2102892.	10.0	22
25	Graphene/MoS ₂ Nanohybrid for Biosensors. <i>Materials</i> , 2021, 14, 518.	2.9	25
26	Controlled fabrication of gold nanobipyramids/polypyrrole for shell-isolated nanoparticle-enhanced Raman spectroscopy to detect ¹³ C-aminobutyric acid. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2020, 229, 117890.	3.9	20
27	In Vitro Blood-Brain Barrier-Integrated Neurological Disorder Models Using a Microfluidic Device. <i>Micromachines</i> , 2020, 11, 21.	2.9	19
28	Recent Advances in MXene Nanocomposite-Based Biosensors. <i>Biosensors</i> , 2020, 10, 185.	4.7	57
29	Flexible Electronics for Monitoring in vivo Electrophysiology and Metabolite Signals. <i>Frontiers in Chemistry</i> , 2020, 8, 547591.	3.6	4
30	<i>In Situ</i> Detection of Neurotransmitters from Stem Cell-Derived Neural Interface at the Single-Cell Level via Graphene-Hybrid SERS Nanobiosensing. <i>Nano Letters</i> , 2020, 20, 7670-7679.	9.1	46
31	Applications of Bionano Sensor for Extracellular Vesicles Analysis. <i>Materials</i> , 2020, 13, 3677.	2.9	9
32	Droplet-based Synthesis of Homogeneous Gold Nanoparticles for Enhancing HRP-based ELISA Signals. <i>Biochip Journal</i> , 2020, 14, 298-307.	4.9	19
33	Metal-Enhanced Fluorescence by Bifunctional Au Nanoparticles for Highly Sensitive and Simple Detection of Proteolytic Enzyme. <i>Nano Letters</i> , 2020, 20, 7100-7107.	9.1	60
34	Surface-Modified Industrial Acrylonitrile Butadiene Styrene 3D Scaffold Fabrication by Gold Nanoparticle for Drug Screening. <i>Nanomaterials</i> , 2020, 10, 529.	4.1	8
35	Nanobiohybrid Material-Based Bioelectronic Devices. <i>Biotechnology Journal</i> , 2020, 15, e1900347.	3.5	13
36	Noble Metal-Assisted Surface Plasmon Resonance Immunosensors. <i>Sensors</i> , 2020, 20, 1003.	3.8	33

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37	Combinatorial biophysical cue sensor array for controlling neural stem cell fate. <i>Biosensors and Bioelectronics</i> , 2020, 156, 112125.	10.1	20
38	Application of Conducting Polymer Nanostructures to Electrochemical Biosensors. <i>Molecules</i> , 2020, 25, 307.	3.8	66
39	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
40	Metallic Nanoparticle-Based Optical Cell Chip for Nondestructive Monitoring of Intra/Extracellular Signals. <i>Pharmaceutics</i> , 2020, 12, 50.	4.5	1
41	Microfluidic System to Analyze the Effects of Interleukin 6 on Lymphatic Breast Cancer Metastasis. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 611802.	4.1	17
42	Nanosheet composed of gold nanoparticle/graphene/epoxy resin based on ultrasonic fabrication for flexible dopamine biosensor using surface-enhanced Raman spectroscopy. <i>Nano Convergence</i> , 2020, 7, 15.	12.1	41
43	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
44	Label-free detection of ¹³ C-aminobutyric acid based on silicon nanowire biosensor. <i>Nano Convergence</i> , 2019, 6, 13.	12.1	39
45	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
46	Nondestructive Characterization of Stem Cell Neurogenesis by a Magneto-Plasmonic Nanomaterial-Based Exosomal miRNA Detection. <i>ACS Nano</i> , 2019, 13, 8793-8803.	14.6	65
47	Dual-Enhanced Raman Scattering-Based Characterization of Stem Cell Differentiation Using Graphene-Plasmonic Hybrid Nanoarray. <i>Nano Letters</i> , 2019, 19, 8138-8148.	9.1	59
48	Magnetic-Assisted Cell Alignment within a Magnetic Nanoparticle-Decorated Reduced Graphene Oxide/Collagen 3D Nanocomposite Hydrogel. <i>Nanomaterials</i> , 2019, 9, 1293.	4.1	33
49	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
50	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
51	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
52	Tumor Homing Reactive Oxygen Species Nanoparticle for Enhanced Cancer Therapy. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 23909-23918.	8.0	27
53	Development of Bioelectronic Devices Using Bionanohybrid Materials for Biocomputation System. <i>Micromachines</i> , 2019, 10, 347.	2.9	11
54	High selective spectroelectrochemical biosensor for HCV-RNA detection based on a specific peptide nucleic acid. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2019, 217, 288-293.	3.9	22

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55	Electrical Property of Graphene and Its Application to Electrochemical Biosensing. <i>Nanomaterials</i> , 2019, 9, 297.	4.1	88
56	Electrochemical Dopamine Biosensor Composed of Silver Encapsulated MoS ₂ Hybrid Nanoparticle. <i>Biotechnology and Bioprocess Engineering</i> , 2019, 24, 135-144.	2.6	41
57	pH controlled synthesis of porous graphene sphere and application to supercapacitors. <i>Advanced Powder Technology</i> , 2019, 30, 18-22.	4.1	11
58	Magnetic Oleosome as a Functional Lipophilic Drug Carrier for Cancer Therapy. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 9301-9309.	8.0	42
59	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
60	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
61	Subtyping of Magnetically Isolated Breast Cancer Cells Using Magnetic Force Microscopy. <i>Biotechnology Journal</i> , 2018, 13, 1700625.	3.5	8
62	Selective isolation and noninvasive analysis of circulating cancer stem cells through Raman imaging. <i>Biosensors and Bioelectronics</i> , 2018, 102, 372-382.	10.1	50
63	Application of Plasmonic Gold Nanoparticle for Drug Delivery System. <i>Current Drug Targets</i> , 2018, 19, 271-278.	2.1	23
64	Nondestructive Real-Time Monitoring of Enhanced Stem Cell Differentiation Using a Graphene-Au Hybrid Nanoelectrode Array. <i>Advanced Materials</i> , 2018, 30, e1802762.	21.0	44
65	Application of Gold Nanoparticle to Plasmonic Biosensors. <i>International Journal of Molecular Sciences</i> , 2018, 19, 2021.	4.1	108
66	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.	8.0	52
67	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
68	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
69	Live cell biosensing platforms using graphene-based hybrid nanomaterials. <i>Biosensors and Bioelectronics</i> , 2017, 94, 485-499.	10.1	50
70	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
71	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
72	Electrochemical nucleic acid detection based on parallel structural dsDNA/recombinant azurin hybrid. <i>Biosensors and Bioelectronics</i> , 2017, 98, 292-298.	10.1	25

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73	Recombinant azurin-CdSe/ZnS hybrid structures for nanoscale resistive random access memory device. <i>Biosensors and Bioelectronics</i> , 2017, 90, 23-30.	10.1	24
74	Multi-electrochemical signal generation using metalloprotein based on selective surface modification. <i>Biochip Journal</i> , 2017, 11, 322-328.	4.9	3
75	Magnetic Force-Driven Graphene Patterns to Direct Synaptogenesis of Human Neuronal Cells. <i>Materials</i> , 2017, 10, 1151.	2.9	15
76	Electrochemical Detection of Dopamine Using 3D Porous Graphene Oxide/Gold Nanoparticle Composites. <i>Sensors</i> , 2017, 17, 861.	3.8	72
77	Silver Nanoparticle Modified Electrode Covered by Graphene Oxide for the Enhanced Electrochemical Detection of Dopamine. <i>Sensors</i> , 2017, 17, 2771.	3.8	56
78	Microdevice Platform for In Vitro Nervous System and Its Disease Model. <i>Bioengineering</i> , 2017, 4, 77.	3.5	15
79	Azurin/CdSe-ZnS-Based Bio-Nano Hybrid Structure for Nanoscale Resistive Memory Device. <i>Materials</i> , 2017, 10, 803.	2.9	4
80	Electrical Impedance Monitoring of C2C12 Myoblast Differentiation on an Indium Tin Oxide Electrode. <i>Sensors</i> , 2016, 16, 2068.	3.8	13
81	Investigation of Hemoglobin/Gold Nanoparticle Heterolayer on Micro-Gap for Electrochemical Biosensor Application. <i>Sensors</i> , 2016, 16, 660.	3.8	9
82	Nano-Biosensor for Monitoring the Neural Differentiation of Stem Cells. <i>Nanomaterials</i> , 2016, 6, 224.	4.1	18
83	Phototactic guidance of a tissue-engineered soft-robotic ray. <i>Science</i> , 2016, 353, 158-162.	12.6	534
84	Dual-Level Biomemory Device Composed of Cytochrome c/DNA/Myoglobin Heterolayer. <i>Journal of Nanoscience and Nanotechnology</i> , 2016, 16, 8724-8727.	0.9	1
85	General and programmable synthesis of hybrid liposome/metal nanoparticles. <i>Science Advances</i> , 2016, 2, e1601838.	10.3	55
86	Control of electrochemical signals from quantum dots conjugated to organic materials by using DNA structure in an analog logic gate. <i>Bioelectrochemistry</i> , 2016, 111, 1-6.	4.6	8
87	Engineered peptide-based nanobiomaterials for electrochemical cell chip. <i>Nano Convergence</i> , 2016, 3, 17.	12.1	20
88	Priming nanoparticle-guided diagnostics and therapeutics towards human organs-on-chips microphysiological system. <i>Nano Convergence</i> , 2016, 3, 24.	12.1	20
89	Fabrication of fusion protein-based heterolayers composed of redox protein/myoglobin for bioelectronic device. <i>Biochip Journal</i> , 2016, 10, 103-110.	4.9	4
90	Silver nanoflower-reduced graphene oxide composite based micro-disk electrode for insulin detection in serum. <i>Biosensors and Bioelectronics</i> , 2016, 80, 307-314.	10.1	76

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91	In situ label-free quantification of human pluripotent stem cells with electrochemical potential. <i>Biomaterials</i> , 2016, 75, 250-259.	11.4	25
92	DNA-Recombinant Azurin Conjugation as a Biomemory Platform with Enhanced Sensitivity. <i>Journal of Nanoscience and Nanotechnology</i> , 2016, 16, 11857-11861.	0.9	2
93	Nanoelectrodes: Large-Scale Nanoelectrode Arrays to Monitor the Dopaminergic Differentiation of Human Neural Stem Cells (<i>Adv. Mater.</i> 41/2015). <i>Advanced Materials</i> , 2015, 27, 6306-6306.	21.0	2
94	Electrochemical Bioelectronic Device Consisting of Metalloprotein for Analog Decision Making. <i>Scientific Reports</i> , 2015, 5, 14501.	3.3	8
95	A Fluorescent Tile DNA Diagnocode System for In Situ Rapid and Selective Diagnosis of Cytosolic RNA Cancer Markers. <i>Scientific Reports</i> , 2015, 5, 18497.	3.3	13
96	A biomemory chip composed of a myoglobin/CNT heterolayer fabricated by the protein-adsorption-precipitation-crosslinking (PAPC) technique. <i>Colloids and Surfaces B: Biointerfaces</i> , 2015, 136, 853-858.	5.0	6
97	Large-Scale Nanoelectrode Arrays to Monitor the Dopaminergic Differentiation of Human Neural Stem Cells. <i>Advanced Materials</i> , 2015, 27, 6356-6362.	21.0	63
98	Graphene-Based Materials for Stem Cell Applications. <i>Materials</i> , 2015, 8, 8674-8690.	2.9	59
99	Monitoring in vitro neural stem cell differentiation based on surface-enhanced Raman spectroscopy using a gold nanostar array. <i>Journal of Materials Chemistry C</i> , 2015, 3, 3848-3859.	5.5	50
100	Development of a HIV-1 Virus Detection System Based on Nanotechnology. <i>Sensors</i> , 2015, 15, 9915-9927.	3.8	22
101	Construction of RNA-Quantum Dot Chimera for Nanoscale Resistive Biomemory Application. <i>ACS Nano</i> , 2015, 9, 6675-6682.	14.6	52
102	Three-dimensional crumpled graphene-based platinum-gold alloy nanoparticle composites as superior electrocatalysts for direct methanol fuel cells. <i>Carbon</i> , 2015, 93, 869-877.	10.3	76
103	Synthesis of 3D Silver-Graphene-Titanium Dioxide Composite via Aerosol Spray Pyrolysis for Sensitive Glucose Biosensor. <i>Aerosol Science and Technology</i> , 2015, 49, 538-546.	3.1	21
104	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.	10.1	39
105	Controlling Differentiation of Adipose-Derived Stem Cells Using Combinatorial Graphene Hybrid-Pattern Arrays. <i>ACS Nano</i> , 2015, 9, 3780-3790.	14.6	139
106	Surface-enhanced Raman spectroscopy detection of dopamine by DNA Targeting amplification assay in Parkinson's model. <i>Biosensors and Bioelectronics</i> , 2015, 67, 739-746.	10.1	72
107	Fabrication of new single cell chip to monitor intracellular and extracellular redox state based on spectroelectrochemical method. <i>Biomaterials</i> , 2015, 40, 80-87.	11.4	33
108	3D label-free prostate specific antigen (PSA) immunosensor based on graphene-gold composites. <i>Biosensors and Bioelectronics</i> , 2015, 63, 546-551.	10.1	165

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109	Development of a Microbe-Zeolite Carrier for the Effective Elimination of Heavy Metals from Seawater. <i>Journal of Microbiology and Biotechnology</i> , 2015, 25, 1542-1546.	2.1	89
110	Aerosol Processing of Graphene and Its Application to Oil Absorbent and Glucose Biosensor. <i>KONA Powder and Particle Journal</i> , 2014, 31, 111-125.	1.7	11
111	In-situ detection of neurotransmitter release from PC12 cells using Surface Enhanced Raman Spectroscopy. <i>Biotechnology and Bioprocess Engineering</i> , 2014, 19, 1069-1076.	2.6	16
112	Protein Based Electrochemical Biosensors for H ₂ O ₂ Detection Towards Clinical Diagnostics. <i>Electroanalysis</i> , 2014, 26, 1259-1276.	2.9	36
113	Bioprocessing Device Composed of Protein/DNA/Inorganic Material Hybrid. <i>Advanced Functional Materials</i> , 2014, 24, 1781-1789.	14.9	20
114	A fluorescence color-encoded lipid-supported polymeric particle. <i>Colloids and Surfaces B: Biointerfaces</i> , 2014, 122, 840-845.	5.0	1
115	Predictive evaluation for the preparation of a synthetic Y-shaped DNA nanostructure. <i>Biotechnology and Bioprocess Engineering</i> , 2014, 19, 262-268.	2.6	1
116	Fusion protein-based biofilm fabrication composed of recombinant azurin-myoglobin for dual-level biomemory application. <i>Applied Surface Science</i> , 2014, 320, 448-454.	6.1	4
117	Fusion protein bilayer fabrication composed of recombinant azurin/cytochrome P450 by the sortase-mediated ligation method. <i>Colloids and Surfaces B: Biointerfaces</i> , 2014, 120, 215-221.	5.0	3
118	Nanoscale biomemory composed of recombinant azurin on a nanogap electrode. <i>Nanotechnology</i> , 2013, 24, 365301.	2.6	8
119	One-Step Synthesis of Pt-Nanoparticles-Laden Graphene Crumples by Aerosol Spray Pyrolysis and Evaluation of Their Electrocatalytic Activity. <i>Aerosol Science and Technology</i> , 2013, 47, 93-98.	3.1	48
120	Specific Protein Markers for Stem Cell Cross-Talk with Neighboring Cells in the Environment. <i>International Journal of Stem Cells</i> , 2013, 6, 75-86.	1.8	2
121	Current perspectives of biodegradable drug-eluting stents for improved safety. <i>Biotechnology and Bioprocess Engineering</i> , 2012, 17, 912-924.	2.6	7
122	Detection of β -Amyloid (1-42) on Protein Array Based on Electrical Detection Technique Using Scanning Tunneling Microscopy. <i>Journal of Nanoscience and Nanotechnology</i> , 2011, 11, 4200-4204.	0.9	4
123	Signal Enhancement of Electrochemical Biomemory Device Composed of Recombinant Azurin/Gold Nanoparticle. <i>Electroanalysis</i> , 2011, 23, 2023-2029.	2.9	16
124	NANOSCALE BIOELECTRONIC DEVICE CONSISTING OF BIOMOLECULES. , 2010, , 347-374.		0
125	Electrochemical biomemory device consisting of recombinant protein molecules. <i>Biotechnology and Bioprocess Engineering</i> , 2010, 15, 30-39.	2.6	10
126	Electrical detection-based analytic biodevice technology. <i>Biochip Journal</i> , 2010, 4, 1-8.	4.9	19

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127	Multilevel Biomemory Device Consisting of Recombinant Azurin/Cytochrome c. <i>Advanced Materials</i> , 2010, 22, 510-514.	21.0	105
128	Electrochemical Detection of Bisphenol A Induced Neuronal Toxicity Using RGD Peptide Modified ITO Electrode Cell Chip. <i>Molecular Crystals and Liquid Crystals</i> , 2010, 519, 36-42.	0.9	9
129	Fabrication of Biomemory Device Composed of Myoglobin on DTSSP Layer. <i>Molecular Crystals and Liquid Crystals</i> , 2010, 519, 19-26.	0.9	6
130	Biomemory device composed of recombinant azurin. , 2010, , .		0
131	Polyaniline based catalase biosensor for the detection of hydrogen peroxide and azide. <i>Biotechnology and Bioprocess Engineering</i> , 2009, 14, 443-449.	2.6	26
132	Fabrication of functional biomolecular layer using recombinant technique for the bioelectronic device. <i>Korean Journal of Chemical Engineering</i> , 2008, 25, 1115-1119.	2.7	5
133	The fabrication of functional biosurface composed of iron storage protein, ferritin. <i>Ultramicroscopy</i> , 2008, 108, 1356-1359.	1.9	13
134	The development of protein chip using protein G for the simultaneous detection of various pathogens. <i>Ultramicroscopy</i> , 2008, 108, 1396-1400.	1.9	7
135	Self-Assembled Monolayer of DTSSP Modified Azurin for Biomolecular Electronic Device. <i>Molecular Crystals and Liquid Crystals</i> , 2008, 492, 1/[365]-10/[374].	0.9	1
136	Fabrication of Mouse Embryonic Stem Cell Chip Using Self-Assembled Layer of Cysteine-Modified RGD Oligopeptide. <i>Molecular Crystals and Liquid Crystals</i> , 2008, 492, 184/[548]-191/[555].	0.9	6
137	Ultrasensitive immunoassay for prostate specific antigen using scanning tunneling microscopy-based electrical detection. <i>Applied Physics Letters</i> , 2008, 93, .	3.3	13
138	Molecular Scale Photodiode Composed of Recombinant Ferredoxin/Chlorophyll a Heterostructure. <i>Journal of Nanoscience and Nanotechnology</i> , 2008, 8, 4527-4532.	0.9	0
139	Nanoscale Fabrication of P. aeruginosa Azurin on Self-Assembled Monolayer. <i>Molecular Crystals and Liquid Crystals</i> , 2007, 463, 281/[563]-289/[571].	0.9	3
140	Antibody Immobilization for Immunosensor on Protein A Fabricated by Electrostatic Interaction of Synthetic Peptide. <i>Molecular Crystals and Liquid Crystals</i> , 2007, 463, 245/[527]-254/[536].	0.9	1
141	Polyelectrolyte multilayer microcapsules: Self-assembly and toward biomedical applications. <i>Biotechnology and Bioprocess Engineering</i> , 2007, 12, 323-332.	2.6	52
142	Nanotechnology in biodevices. <i>Journal of Microbiology and Biotechnology</i> , 2007, 17, 5-14.	2.1	51
143	The Fabrication of Molecular Memory Device Composed of Iron Storage Protein, Ferritin. , 2006, , .		0
144	Application of complement 1q for the site-selective recognition of immune complex in protein chip. <i>Biosensors and Bioelectronics</i> , 2006, 22, 764-767.	10.1	12

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145	Application of computational fluid dynamics analysis for improving performance of commercial scale selective catalytic reduction. Korean Journal of Chemical Engineering, 2006, 23, 43-56.	2.7	10
146	Rectified photocurrent of biophodiode composed of cytochrome c/chlorophyll a hetero-structure. , 2006, , .		0
147	Bio electroluminescent device composed of cytochrome c/chlorophyll a hetero-structure. , 2006, , .		1
148	The Methodology to Improve the Performance of a Selective Catalytic Reduction System Installed in HRSG Using Computational Fluid Dynamics Analysis. Environmental Engineering Science, 2006, 23, 863-873.	1.6	3
149	Biomolecular photonic device consisting of Chl a/Chl b/phycoerythrin/phycoyanin hetero structure. Journal of Nanoscience and Nanotechnology, 2006, 6, 3526-31.	0.9	0
150	Fabrication of DNA-protein conjugate layer on gold-substrate and its application to immunosensor. Colloids and Surfaces B: Biointerfaces, 2005, 40, 173-177.	5.0	22
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