

Junhong Min

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

177
papers

2,729
citations

29
h-index

44
g-index

181
ext. papers

3,096
ext. citations

5.2
avg. IF

5.41
L-index

#	Paper	IF	Citations
177	Rapid, multiplexed, and nucleic acid amplification-free detection of SARS-CoV-2 RNA using an electrochemical biosensor. <i>Biosensors and Bioelectronics</i> , 2022 , 195, 113649	11.8	8
176	Differences in the gut microbiome composition of Korean children and adult samples based on different DNA isolation kits.. <i>PLoS ONE</i> , 2022 , 17, e0264291	3.7	0
175	Electrochemical biosensor with aptamer/porous platinum nanoparticle on round-type micro-gap electrode for saxitoxin detection in fresh water.. <i>Biosensors and Bioelectronics</i> , 2022 , 210, 114300	11.8	2
174	Property modulation of the alginate-based hydrogel via semi-interpenetrating polymer network (semi-IPN) with poly(vinyl alcohol). <i>International Journal of Biological Macromolecules</i> , 2021 , 193, 1068-1077	7.9	5
173	Facile and foldable point-of-care biochip for nucleic acid based-colorimetric detection of murine norovirus in fecal samples using G-quadruplex and graphene oxide coated microbeads.. <i>Biosensors and Bioelectronics</i> , 2021 , 199, 113878	11.8	0
172	Mismatch-introduced DNA probes constructed on the basis of thermodynamic analysis enable the discrimination of single nucleotide variants. <i>Analytical and Bioanalytical Chemistry</i> , 2021 , 1	4.4	
171	Discrimination and isolation of the virus from free RNA fragments for the highly sensitive measurement of SARS-CoV-2 abundance on surfaces using a graphene oxide nano surface. <i>Nano Convergence</i> , 2021 , 8, 31	9.2	4
170	Fabrication of an Electrochemical Aptasensor Composed of Multifunctional DNA Three-Way Junction on Au Microgap Electrode for Interferon Gamma Detection in Human Serum. <i>Biomedicines</i> , 2021 , 9,	4.8	2
169	Fabrication of ultrasensitive electrochemical biosensor for dengue fever viral RNA Based on CRISPR/Cpf1 reaction. <i>Sensors and Actuators B: Chemical</i> , 2021 , 326, 128677	8.5	20
168	Circulating Tumor Marker Isolation with the Chemically Stable and Instantly Degradable (CSID) Hydrogel Immunospheres. <i>Analytical Chemistry</i> , 2021 , 93, 1100-1109	7.8	2
167	Electrospun Nanofibers Embedded with Copper Oxide Nanoparticles to Improve Antiviral Function. <i>Journal of Nanoscience and Nanotechnology</i> , 2021 , 21, 4174-4178	1.3	5
166	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. <i>Analytical and Bioanalytical Chemistry</i> , 2021 , 1	4.4	0
165	Simple and portable on-site system for nucleic acid-based detection of Clostridium difficile in stool samples using two columns containing microbeads and loop-mediated isothermal amplification. <i>Analytical and Bioanalytical Chemistry</i> , 2021 , 1	4.4	
164	Fabrication of electrochemical biosensor composed of multi-functional DNA 4 way junction for TNF- α detection in human serum. <i>Bioelectrochemistry</i> , 2021 , 142, 107939	5.6	1
163	Mix-and-read, one-minute SARS-CoV-2 diagnostic assay: development of PIFE-based aptasensor. <i>Chemical Communications</i> , 2021 , 57, 10222-10225	5.8	2
162	Integrated microsystems for the in situ genetic detection of dengue virus in whole blood using direct sample preparation and isothermal amplification. <i>Analyst, The</i> , 2020 , 145, 2405-2411	5	8
161	Bacterial Isolation by Adsorption on Graphene Oxide from Large Volume Sample. <i>Journal of Nanoscience and Nanotechnology</i> , 2020 , 20, 6975-6979	1.3	2

160	Laser-induced graphene interdigitated electrodes for label-free or nanolabel-enhanced highly sensitive capacitive aptamer-based biosensors. <i>Biosensors and Bioelectronics</i> , 2020 , 164, 112272	11.8	38
159	Fabrication of Bioprobe Self-Assembled on Au-Te Nanoworm Structure for SERS Biosensor. <i>Materials</i> , 2020 , 13,	3.5	2
158	Improvement of Heat Sink Effect Using Zinc Oxide Nanostructure. <i>Journal of Nanoscience and Nanotechnology</i> , 2020 , 20, 6980-6984	1.3	
157	Recent Advances in Biomolecule-Nanomaterial Heterolayer-Based Charge Storage Devices for Bioelectronic Applications. <i>Materials</i> , 2020 , 13,	3.5	1
156	Gold nanoparticle/MXene for multiple and sensitive detection of oncomiRs based on synergetic signal amplification. <i>Biosensors and Bioelectronics</i> , 2020 , 159, 112208	11.8	44
155	Fabrication of electrochemical biosensor consisted of multi-functional DNA structure/porous au nanoparticle for avian influenza virus (H5N1) in chicken serum. <i>Materials Science and Engineering C</i> , 2019 , 99, 511-519	8.3	52
154	Relay-race RNA/barcode gold nanoflower hybrid for wide and sensitive detection of microRNA in total patient serum. <i>Biosensors and Bioelectronics</i> , 2019 , 141, 111468	11.8	16
153	High density gold nanostructure composites for precise electrochemical detection of human embryonic stem cells in cell mixture. <i>Colloids and Surfaces B: Biointerfaces</i> , 2019 , 180, 384-392	6	8
152	Nanostructured Au-Pt hybrid disk electrodes for enhanced parathyroid hormone detection in human serum. <i>Bioelectrochemistry</i> , 2019 , 128, 165-174	5.6	12
151	Rapid and sensitive electrochemical detection of anticancer effects of curcumin on human glioblastoma cells. <i>Sensors and Actuators B: Chemical</i> , 2019 , 288, 527-534	8.5	22
150	Robust Bioengineered Apoferritin Nanoprobes for Ultrasensitive Detection of Infectious Pancreatic Necrosis Virus. <i>Analytical Chemistry</i> , 2019 , 91, 5841-5849	7.8	10
149	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. <i>Colloids and Surfaces B: Biointerfaces</i> , 2019 , 182, 110341	6	36
148	A cell-loss-free concave microwell array based size-controlled multi-cellular tumoroid generation for anti-cancer drug screening. <i>PLoS ONE</i> , 2019 , 14, e0219834	3.7	8
147	Semi-automatic instrumentation for nucleic acid extraction and purification to quantify pathogens on surfaces. <i>Analyst, The</i> , 2019 , 144, 6586-6594	5	6
146	Fabrication of electrochemical biosensor composed of multi-functional DNA structure/Au nanospike on micro-gap/PCB system for detecting troponin I in human serum. <i>Colloids and Surfaces B: Biointerfaces</i> , 2019 , 175, 343-350	6	40
145	Electrochemical immunosensor for highly sensitive and quantitative detection of tumor necrosis factor- β in human serum. <i>Bioelectrochemistry</i> , 2018 , 122, 93-102	5.6	22
144	Three-Dimensional Graphene-RGD Peptide Nanoisland Composites That Enhance the Osteogenesis of Human Adipose-Derived Mesenchymal Stem Cells. <i>International Journal of Molecular Sciences</i> , 2018 , 19,	6.3	12
143	Label-Free Impedance Sensing of Aflatoxin B ₁ with Polyaniline Nanofibers/Au Nanoparticle Electrode Array. <i>Sensors</i> , 2018 , 18,	3.8	40

142	Size-dependent effects of graphene oxide on the osteogenesis of human adipose-derived mesenchymal stem cells. <i>Colloids and Surfaces B: Biointerfaces</i> , 2018 , 169, 20-29	6	29
141	Elimination of Humic Acid from Aqueous Sample Using Zinc Oxide/Graphene Oxide-Coated Microbeads. <i>Journal of Nanoscience and Nanotechnology</i> , 2018 , 18, 6360-6363	1.3	1
140	In situ label-free monitoring of human adipose-derived mesenchymal stem cell differentiation into multiple lineages. <i>Biomaterials</i> , 2018 , 154, 223-233	15.6	31
139	Fabrication of Electrochemical-Based Bioelectronic Device and Biosensor Composed of Biomaterial-Nanomaterial Hybrid. <i>Advances in Experimental Medicine and Biology</i> , 2018 , 1064, 263-296	3.6	7
138	Electrochemical detection of dopamine using periodic cylindrical gold nanoelectrode arrays. <i>Scientific Reports</i> , 2018 , 8, 14049	4.9	70
137	Short-Length DNA Adsorption on Graphene Oxide-Coated Microbeads for DNA Target Separation from Clinical Samples. <i>Journal of Nanoscience and Nanotechnology</i> , 2018 , 18, 6364-6368	1.3	2
136	A Simple Pipetting-based Method for Encapsulating Live Cells into Multi-layered Hydrogel Droplets. <i>Biochip Journal</i> , 2018 , 12, 184-192	4	1
135	Fabrication of peptide stabilized fluorescent gold nanocluster/graphene oxide nanocomplex and its application in turn-on detection of metalloproteinase-9. <i>Biosensors and Bioelectronics</i> , 2017 , 89, 666-672	11.8	59
134	Silica-encapsulated gold nanoparticle dimers for organelle-targeted cellular delivery. <i>Chemical Communications</i> , 2017 , 53, 5009-5012	5.8	8
133	A Novel Sensing Strategy for DNA Analysis Using Nanoscale Graphene Oxide-Coated Microbeads. <i>Journal of Nanoscience and Nanotechnology</i> , 2017 , 17, 7986-7990	1.3	
132	Recombinant azurin-CdSe/ZnS hybrid structures for nanoscale resistive random access memory device. <i>Biosensors and Bioelectronics</i> , 2017 , 90, 23-30	11.8	18
131	Direct buffer composition of blood pre-process for nucleic acid based diagnostics. <i>Biochip Journal</i> , 2017 , 11, 255-261	4	3
130	Multi-electrochemical signal generation using metalloprotein based on selective surface modification. <i>Biochip Journal</i> , 2017 , 11, 322-328	4	2
129	Enzyme Logic Gate with Summation Function Based on Putidaredoxin Reductase/Cytochrome c Enzyme Reaction. <i>Journal of Nanoscience and Nanotechnology</i> , 2017 , 17, 5189-5192	1.3	2
128	Impedimetric Horseradish Peroxidase Sensor Based on Polyaniline-Nanofiber-Modified Microdisk Electrode Arrays. <i>Science of Advanced Materials</i> , 2017 , 9, 1595-1602	2.3	3
127	A portable electromagnetic induction heating device for point-of-care diagnostics. <i>Biochip Journal</i> , 2016 , 10, 208-214	4	3
126	Electrical dual-sensing method for real-time quantitative monitoring of cell-secreted MMP-9 and cellular morphology during migration process. <i>Biosensors and Bioelectronics</i> , 2016 , 77, 631-7	11.8	17
125	Label-free and direct detection of C-reactive protein using reduced graphene oxide-nanoparticle hybrid impedimetric sensor. <i>Bioelectrochemistry</i> , 2016 , 107, 37-44	5.6	71

124	DNA-Recombinant Azurin Conjugation as a Biomemory Platform with Enhanced Sensitivity. <i>Journal of Nanoscience and Nanotechnology</i> , 2016 , 16, 11857-11861	1.3	2
123	Bacterial Adsorption on Nano Graphene Oxide-Coated Microbeads for Molecular Diagnosis. <i>Journal of Nanoscience and Nanotechnology</i> , 2016 , 16, 11887-11891	1.3	2
122	Electric Cell-Substrate Impedance Sensing (ECIS) with Microelectrode Arrays for Investigation of Cancer Cell-Fibroblasts Interaction. <i>PLoS ONE</i> , 2016 , 11, e0153813	3.7	29
121	Focused Ion BeamBased Fabrication and Electrical Impedance Characterization of Sub-Micropore Membrane. <i>Journal of Nanoscience and Nanotechnology</i> , 2016 , 16, 11928-11932	1.3	
120	Dual-Level Biomemory Device Composed of Cytochrome c/DNA/Myoglobin Heterolayer. <i>Journal of Nanoscience and Nanotechnology</i> , 2016 , 16, 8724-8727	1.3	1
119	The Effect of Chemical and Physical Characteristics of Nano Graphene Oxide Layer on Epithelial Cell Behavior. <i>Journal of Nanoscience and Nanotechnology</i> , 2016 , 16, 11882-11886	1.3	2
118	Nanomaterials in label-free impedimetric biosensor: Current process and future perspectives. <i>Biochip Journal</i> , 2016 , 10, 318-330	4	24
117	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	5.6	8
116	A microfluidic system for the separation and detection of E. coli O157:H7 in soil sample using ternary interactions between humic acid, bacteria, and a hydrophilic surface. <i>Sensors and Actuators B: Chemical</i> , 2015 , 208, 238-244	8.5	11
115	The microfluidic chip module for the detection of murine norovirus in oysters using charge switchable micro-bead beating. <i>Biosensors and Bioelectronics</i> , 2015 , 67, 625-33	11.8	30
114	Indium tin oxide based chip for optical and electrochemical characterization of proteinCell interaction. <i>Japanese Journal of Applied Physics</i> , 2015 , 54, 06FN03	1.4	4
113	Electrochemical Bioelectronic Device Consisting of Metalloprotein for Analog Decision Making. <i>Scientific Reports</i> , 2015 , 5, 14501	4.9	7
112	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	4.9	13
111	Fatigue Test of Cytochrome C Self-Assembled on a 11-MUA Layer Based on Electrochemical Analysis for Bioelectronic Device. <i>Journal of Nanoscience and Nanotechnology</i> , 2015 , 15, 5537-42	1.3	5
110	Microvalve-assisted bead-beating system for selective nucleic acid preparation from bacteria and viruses. <i>Biochip Journal</i> , 2015 , 9, 332-338	4	4
109	Fabrication of Magnetic Upconversion Nanohybrid for Luminescent Resonance Energy Transfer-Based Detection of Glutathione. <i>Journal of Nanoscience and Nanotechnology</i> , 2015 , 15, 7950-4	1.3	6
108	Detection of mRNA from Escherichia coli in drinking water on nanostructured polymeric surfaces using liquid crystals. <i>Colloid and Polymer Science</i> , 2014 , 292, 1163-1169	2.4	7
107	Bioprocessing Device Composed of Protein/DNA/Inorganic Material Hybrid. <i>Advanced Functional Materials</i> , 2014 , 24, 1781-1789	15.6	19

106	Electrosynthesis of ERGO-NP Nanocomposite Films for Bioelectrocatalysis of Horseradish Peroxidase towards H ₂ O ₂ . <i>Journal of the Electrochemical Society</i> , 2014 , 161, G133-G140	3.9	21
105	A fluorescence color-encoded lipid-supported polymeric particle. <i>Colloids and Surfaces B: Biointerfaces</i> , 2014 , 122, 840-845	6	1
104	Gold nanoparticle silica nanopeapods. <i>Journal of the American Chemical Society</i> , 2014 , 136, 3833-41	16.4	87
103	Fusion protein-based biofilm fabrication composed of recombinant azurin/hyoglobin for dual-level biomemory application. <i>Applied Surface Science</i> , 2014 , 320, 448-454	6.7	4
102	Magnetic silica nanotube-assisted impedimetric immunosensor for the separation and label-free detection of Salmonella typhimurium. <i>Sensors and Actuators B: Chemical</i> , 2014 , 197, 314-320	8.5	43
101	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, 215-21	6	3
100	Silica nanotube surface modification for multiplex detection of pathogenic bacteria. <i>Journal of Nanoscience and Nanotechnology</i> , 2014 , 14, 5646-9	1.3	2
99	Electrochemical-signal enhanced information storage device composed of cytochrome c/SNP bilayer. <i>Journal of Nanoscience and Nanotechnology</i> , 2014 , 14, 2466-71	1.3	2
98	Electrochemical Scanning Tunneling Microscopy (ECSTM) [From Theory to Future Applications 2014 ,		5
97	Upconversion nanoparticles in bioassays, optical imaging and therapy. <i>Journal of Nanoscience and Nanotechnology</i> , 2014 , 14, 157-74	1.3	30
96	Recombinant protein-based nanoscale biomemory devices. <i>Journal of Nanoscience and Nanotechnology</i> , 2014 , 14, 433-46	1.3	7
95	Fabrication of dual dye-doped silica nanotube as a fluorescent ratiometric pH sensor. <i>Journal of Nanoscience and Nanotechnology</i> , 2014 , 14, 8719-23	1.3	2
94	Multilevel electrochemical signal detections of metalloprotein heterolayers for bioelectronic device. <i>Thin Solid Films</i> , 2014 , 551, 174-180	2.2	7
93	Hydrogel-based diffusion chip with Electric Cell-substrate Impedance Sensing (ECIS) integration for cell viability assay and drug toxicity screening. <i>Biosensors and Bioelectronics</i> , 2013 , 50, 453-9	11.8	54
92	An enzymatic biosensor for hydrogen peroxide based on CeO ₂ nanostructure electrodeposited on ITO surface. <i>Biosensors and Bioelectronics</i> , 2013 , 47, 385-90	11.8	58
91	Nanoscale biomemory composed of recombinant azurin on a nanogap electrode. <i>Nanotechnology</i> , 2013 , 24, 365301	3.4	6
90	A simple process for the isolation of epithelial cells from bacteria-contaminated samples using anchoring molecules. <i>Process Biochemistry</i> , 2013 , 48, 1429-1435	4.8	
89	The control of cell adhesion on a PMMA polymer surface consisting of nanopillar arrays. <i>Journal of Biotechnology</i> , 2013 , 164, 543-8	3.7	10

88	Hydrophobic end-gated silica nanotubes for intracellular glutathione-stimulated drug delivery in drug-resistant cancer cells. <i>Chemical Communications</i> , 2013 , 49, 3194-6	5.8	13
87	Micro-fluidic chip platform for the characterization of breast cancer cells using aptamer-assisted immunohistochemistry. <i>Biosensors and Bioelectronics</i> , 2013 , 40, 161-6	11.8	17
86	A robust nanoscale biomemory device composed of recombinant azurin on hexagonally packed Au-nano array. <i>Biosensors and Bioelectronics</i> , 2013 , 40, 283-90	11.8	15
85	An electrochemical H ₂ O ₂ detection method based on direct electrochemistry of myoglobin immobilized on gold deposited ITO electrode. <i>Journal of Nanoscience and Nanotechnology</i> , 2013 , 13, 6424-8	1.3	5
84	Impedance spectroscopy of highly ordered nano-porous electrodes based on Au-AAO (anodic aluminum oxide) structure. <i>Journal of Nanoscience and Nanotechnology</i> , 2013 , 13, 7482-6	1.3	2
83	The simple and fast isolation of Escherichia coli O157:H7 using magnet nanoparticle embedded silica nanotube for the nucleic acid based detection. <i>Journal of Biomedical Nanotechnology</i> , 2013 , 9, 886-90	4	1
82	Fabrication of biomolecules self-assembled on Au nanodot array for bioelectronic device. <i>Journal of Nanoscience and Nanotechnology</i> , 2013 , 13, 6020-6	1.3	
81	Analysis of nanoscale protein film consisting of lactoferrin/11-MUA bilayers for bioelectronic device. <i>Journal of Biomedical Nanotechnology</i> , 2013 , 9, 849-55	4	3
80	Real-time monitoring in vitro cellular cytotoxicity of silica nanotubes using electric cell-substrate impedance sensing (ECIS). <i>Journal of Biomedical Nanotechnology</i> , 2013 , 9, 286-90	4	20
79	STM and cyclic voltammetric investigation of recombinant azurin-gold nanoparticle hybrids. <i>Bioelectrochemistry</i> , 2012 , 83, 8-14	5.6	11
78	Tumor-binding prodrug micelles of polymer-drug conjugates for anticancer therapy in HeLa cells. <i>Journal of Materials Chemistry</i> , 2012 , 22, 9385		24
77	Chemiluminescent enzyme-linked immunosorbent assay on a strip to detect Escherichia coli O157:H7. <i>International Journal of Environmental Analytical Chemistry</i> , 2012 , 92, 655-664	1.8	10
76	Electrochemical performance of gold nanoparticle-cytochrome c hybrid interface for H ₂ O ₂ detection. <i>Colloids and Surfaces B: Biointerfaces</i> , 2012 , 92, 161-7	6	58
75	Nanoscale biofilm modification-method concerning a myoglobin/11-MUA bilayers for bioelectronic device. <i>Journal of Nanoscience and Nanotechnology</i> , 2012 , 12, 4119-26	1.3	1
74	Functional integration of DNA purification and concentration into a real time micro-PCR chip. <i>Lab on A Chip</i> , 2011 , 11, 259-65	7.2	19
73	Epithelial cell patterns on a PDMS polymer surface using a micro plasma structure. <i>Journal of Biotechnology</i> , 2011 , 155, 308-11	3.7	16
72	Nano barcoding cell-based biosensor using fluorophor-embedded silica nanotubes. <i>Journal of Nanoscience and Nanotechnology</i> , 2011 , 11, 4419-23	1.3	
71	Nanoscale fabrication of myoglobin monolayer on self-assembled DTSSP for bioelectronic device. <i>Journal of Nanoscience and Nanotechnology</i> , 2011 , 11, 4217-21	1.3	

70	Fabrication of biofilm in nanoscale consisting of cytochrome f/2-MAA bilayer on Au surface for bioelectronic devices by self-assembly technique. <i>Journal of Nanoscience and Nanotechnology</i> , 2011 , 11, 7069-72	1.3	6
69	Top emitting organic light emitting diodes with opaque metal grid electrodes by transfer technique. <i>Journal of Nanoscience and Nanotechnology</i> , 2011 , 11, 4573-6	1.3	
68	Local transdermal delivery of phenylephrine to the anal sphincter muscle using microneedles. <i>Journal of Controlled Release</i> , 2011 , 154, 138-47	11.7	30
67	Multifunctional 4-bit biomemory chip consisting of recombinant azurin variants. <i>Biomaterials</i> , 2011 , 32, 3815-21	15.6	27
66	Multifunctional DNA-based biomemory device consisting of ssDNA/Cu heterolayers. <i>Biosensors and Bioelectronics</i> , 2011 , 26, 2304-10	11.8	10
65	Signal Enhancement of Electrochemical Biomemory Device Composed of Recombinant Azurin/Gold Nanoparticle. <i>Electroanalysis</i> , 2011 , 23, 2023-2029	3	14
64	Investigation of the redox property of a metalloprotein layer self-assembled on various chemical linkers. <i>Colloids and Surfaces B: Biointerfaces</i> , 2011 , 87, 36-41	6	9
63	Amperometric sensor for hydrogen peroxide based on direct electron transfer of spinach ferredoxin on Au electrode. <i>Bioelectrochemistry</i> , 2011 , 80, 169-74	5.6	29
62	The fabrication of protein nano arrays using 3-dimensional plastic nanopillar patterns. <i>Journal of Nanoscience and Nanotechnology</i> , 2011 , 11, 4231-5	1.3	4
61	Protein-based multi-bit biomemory device consisting of various metalloproteins on self-assembled 11-MUA layer. <i>Journal of Nanoscience and Nanotechnology</i> , 2011 , 11, 523-7	1.3	3
60	Fabrication of Biomemory Device Composed of Myoglobin on DTSSP Layer. <i>Molecular Crystals and Liquid Crystals</i> , 2010 , 519, 19-26	0.5	6
59	Biomolecular Memory Device Composed of Cytochrome c on a Self-Assembled 11-Mercaptoundecanoic Acid Layer. <i>Japanese Journal of Applied Physics</i> , 2010 , 49, 01AG01	1.4	1
58	The nanostructure effect on the adhesion and growth rates of epithelial cells with well-defined nanoporous alumina substrates. <i>Nanotechnology</i> , 2010 , 21, 125104	3.4	41
57	Ferredoxin molecular thin film with intrinsic switching mechanism for biomemory application. <i>Journal of Nanoscience and Nanotechnology</i> , 2010 , 10, 3220-3	1.3	5
56	Nanoscale film formation of recombinant azurin variants with various cysteine residues on gold substrate for bioelectronic device. <i>Journal of Nanoscience and Nanotechnology</i> , 2010 , 10, 3241-5	1.3	6
55	NANOSCALE BIOELECTRONIC DEVICE CONSISTING OF BIOMOLECULES 2010 , 347-374		
54	Electrochemical biomemory device consisting of recombinant protein molecules. <i>Biotechnology and Bioprocess Engineering</i> , 2010 , 15, 30-39	3.1	10
53	Targeted cell adhesion on selectively micropatterned polymer arrays on a poly(dimethylsiloxane) surface. <i>Biomedical Microdevices</i> , 2010 , 12, 13-21	3.7	7

52	Multilevel biomemory device consisting of recombinant azurin/cytochrome C. <i>Advanced Materials</i> , 2010 , 22, 510-4	24	98
51	Signal enhancement in a protein chip array using a 3-D nanosurface. <i>Ultramicroscopy</i> , 2010 , 110, 659-65	3.1	23
50	Verification of surfactant CHAPS effect using AFM for making biomemory device consisting of recombinant azurin monolayer. <i>Ultramicroscopy</i> , 2010 , 110, 712-7	3.1	5
49	Nanoscale protein-based memory device composed of recombinant azurin. <i>Biomaterials</i> , 2010 , 31, 1293-8	5.6	20
48	Highly sensitive Escherichia coli O157:H7 detection in a large volume sample using a conical polymer tube chamber consisting of micro-glass beads. <i>Biosensors and Bioelectronics</i> , 2010 , 26, 112-7	11.8	10
47	Bacteria adsorption on hydrophilic surfaces for the sensitive detection of pathogenic bacteria using a single tube chamber system. <i>Biosensors and Bioelectronics</i> , 2010 , 26, 1763-7	11.8	15
46	Fabrication of nano scaled protein monolayer consisting of cytochrome c on self-assembled 11-MUA layer for bioelectronic device. <i>Journal of Nanoscience and Nanotechnology</i> , 2009 , 9, 7136-40	1.3	4
45	Write-Once-Read-Many-Times (WORM) biomemory device consisting of cysteine modified ferredoxin. <i>Electrochemistry Communications</i> , 2009 , 11, 854-858	5.1	10
44	Nanoscaled redox active protein adsorption on Au-dot arrays: An electrochemical scanning probe microscopic investigation for application in nano-biodesives. <i>Thin Solid Films</i> , 2009 , 518, 634-637	2.2	14
43	Biomemory device composed of mutant azurin thin films modified by site-directed mutagenesis. <i>Thin Solid Films</i> , 2009 , 518, 682-687	2.2	5
42	Nanoscale film formation of ferritin and its application to biomemory device. <i>Ultramicroscopy</i> , 2009 , 109, 974-9	3.1	7
41	Morphological investigations of cells that adhered to the irregular patterned polydimethylsiloxane (PDMS) surface without reagents. <i>Ultramicroscopy</i> , 2009 , 109, 861-7	3.1	15
40	Multi-bit biomemory consisting of recombinant protein variants, azurin. <i>Biosensors and Bioelectronics</i> , 2009 , 24, 1503-7	11.8	20
39	Charge storage investigation in self-assembled monolayer of redox-active recombinant azurin. <i>Current Applied Physics</i> , 2009 , 9, e71-e75	2.6	7
38	Charge retention of self-assembled ferredoxin monolayer by the reduction-oxidation control for biomemory device. <i>Journal of Nanoscience and Nanotechnology</i> , 2009 , 9, 7113-7	1.3	1
37	The Application of Cell Based Biosensor and Biochip for Environmental Monitoring		2
36	Fabrication of recombinant azurin self-assembled layer for the application of bioelectronic device. <i>Journal of Nanoscience and Nanotechnology</i> , 2008 , 8, 4982-7	1.3	8
35	Molecular scale photodiode composed of recombinant ferredoxin/chlorophyll a heterostructure. <i>Journal of Nanoscience and Nanotechnology</i> , 2008 , 8, 4527-32	1.3	

34	The immobilization of animal cells using the cysteine-modified RGD oligopeptide. <i>Ultramicroscopy</i> , 2008 , 108, 1144-7	3.1	22
33	Fabrication of functional biomolecular layer using recombinant technique for the bioelectronic device. <i>Korean Journal of Chemical Engineering</i> , 2008 , 25, 1115-1119	2.8	5
32	The fabrication of functional biosurface composed of iron storage protein, ferritin. <i>Ultramicroscopy</i> , 2008 , 108, 1356-9	3.1	12
31	Direct immobilization of cupredoxin azurin modified by site-directed mutagenesis on gold surface. <i>Ultramicroscopy</i> , 2008 , 108, 1390-5	3.1	9
30	Ultra-sensitive surface plasmon resonance based immunosensor for prostate-specific antigen using gold nanoparticle-antibody complex. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2008 , 313-314, 655-659	5.1	62
29	Rectified photocurrent of biophotodiode composed of cytochrome c/chlorophyll a heterostructure. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2008 , 313-314, 636-641	5.1	2
28	Electrochemical characterization of molecular orientation effect on self-assembled recombinant ferredoxin. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2008 , 313-314, 439-443	5.1	2
27	Nanopore sensor for fast label-free detection of short double-stranded DNAs. <i>Biosensors and Bioelectronics</i> , 2007 , 22, 2926-31	11.8	61
26	Protein-based biomemory device consisting of the cysteine-modified azurin. <i>Applied Physics Letters</i> , 2007 , 91, 263902	3.4	46
25	Microfluidic device for bio analytical systems. <i>Biotechnology and Bioprocess Engineering</i> , 2004 , 9, 100-106	3.1	13
24	Characterization and Optimization of Interdigitated Ultramicroelectrode Arrays as Electrochemical Biosensor Transducers. <i>Electroanalysis</i> , 2004 , 16, 724-729	3	80
23	RNA biosensor for the rapid detection of viable Escherichia coli in drinking water. <i>Biosensors and Bioelectronics</i> , 2003 , 18, 405-13	11.8	162
22	Highly sensitive and specific detection of viable Escherichia coli in drinking water. <i>Analytical Biochemistry</i> , 2002 , 303, 186-93	3.1	81
21	Adsorption behavior and photoelectric response characteristics of bacteriorhodopsin thin films fabricated by self-assembly technique. <i>Colloids and Surfaces B: Biointerfaces</i> , 2002 , 23, 327-337	6	16
20	Optical peroxide biosensor using the electrically controlled-release technique. <i>Biosensors and Bioelectronics</i> , 2001 , 16, 141-6	11.8	10
19	Color image detection by biomolecular photoreceptor using bacteriorhodopsin-based complex LB films. <i>Biosensors and Bioelectronics</i> , 2001 , 16, 925-35	11.8	16
18	Optical organophosphorus biosensor consisting of acetylcholinesterase/viologen hetero Langmuir-Blodgett film. <i>Biosensors and Bioelectronics</i> , 2001 , 16, 937-43	11.8	71
17	Visual information processing using bacteriorhodopsin-based complex LB films. <i>Biosensors and Bioelectronics</i> , 2001 , 16, 917-23	11.8	8

16	Photoelectric conversion of bacteriorhodopsin films fabricated by self-assembly technique. <i>Synthetic Metals</i> , 2001 , 117, 141-143	3.6	7
15	Photoelectric Response Characteristics of Molecular Photoreceptor Using Bacteriorhodopsin/Flavin Complex LB Films. <i>Molecular Crystals and Liquid Crystals</i> , 2000 , 349, 299-302		
14	Bioelectronic Device Consisting of Bacteriorhodopsin for Pattern Recognition. <i>Molecular Crystals and Liquid Crystals</i> , 2000 , 349, 311-314		
13	Optimal Fabrication Condition of Bacteriorhodopsin Thin Films Onto Modified Self-Assembled Monolayers. <i>Molecular Crystals and Liquid Crystals</i> , 2000 , 349, 303-306		2
12	Approximated solution of model for three-phase fluidized bed biofilm reactor in wastewater treatment. <i>Biotechnology and Bioprocess Engineering</i> , 2000 , 5, 65-70	3.1	6
11	Noise Filtering by Bioelectronic Device Consisting of Bacteriorhodopsin and Spiropyran. <i>Molecular Crystals and Liquid Crystals</i> , 1999 , 327, 263-266		
10	Characterization and Optimization of Device Configuration Composed of Bacteriorhodopsin-Flavin Complex LB Films. <i>Molecular Crystals and Liquid Crystals</i> , 1999 , 327, 267-270		1
9	Fiber-optic biosensor for the detection of organophosphorus compounds using AChE-immobilized viologen LB films. <i>Thin Solid Films</i> , 1998 , 327-329, 676-680	2.2	16
8	Photocurrent of bacteriorhodopsin films deposited by electrophoretic method. <i>Thin Solid Films</i> , 1998 , 327-329, 698-702	2.2	19
7	Photoreceptor composed of spiropyran/CNQ films for image extraction. <i>Thin Solid Films</i> , 1998 , 327-329, 703-707	2.2	2
6	Molecular photoreceptor consisting of bacteriorhodopsin/flavin complex Langmuir-Blodgett films. <i>Biosensors and Bioelectronics</i> , 1998 , 13, 1069-1075	11.8	8
5	Photoreceptor consisting of spiropyran/Bacteriorhodopsin films for photosignal enhancement. <i>Biosensors and Bioelectronics</i> , 1998 , 13, 1151-1155	11.8	5
4	Optimal fabrication condition of bacteriorhodopsin films by electrophoretic sedimentation technique. <i>Supramolecular Science</i> , 1998 , 5, 687-690		10
3	Signal analysis of fiber-optic biosensor for the detection of organophosphorus compounds in the contaminated water. <i>Korean Journal of Chemical Engineering</i> , 1997 , 14, 101-108	2.8	9
2	Nanoscale biomemory device composed of recombinant protein variants		86-102
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