CITATION REPORT List of articles citing



DOI: 10.1114/1.225 Annals of Biomedical Engineering, 1999, 27, 697-711.

Source: https://exaly.com/paper-pdf/30486796/citation-report.pdf

Version: 2024-04-28

This report has been generated based on the citations recorded by exaly.com for the above article. For the latest version of this publication list, visit the link given above.

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

#	Paper	IF	Citations
326	Cell-Electronic Sensing of Cellular Responses to Micro- and Nanoparticles for Environmental Applications. 2000 , 1-28		
325	Primary neural precursor cell expansion, differentiation and cytosolic Ca(2+) response in three-dimensional collagen gel. 2000 , 102, 187-95		88
324	Cell-gels: hydrogels with cell-like surface modifications.		О
323	Genetically engineered whole-cell sensing systems: coupling biological recognition with reporter genes. 2000 , 100, 2705-38		356
322	Piezoelectric biosensors: recent advances and applications.		8
321	Survival and neurite outgrowth of rat cortical neurons in three-dimensional agarose and collagen gel matrices. 2001 , 304, 189-93		110
320	Neurophysiologic effects of chemical agent hydrolysis products on cortical neurons in vitro. 2001 , 22, 393-400		25
319	Advances in Medical Biological Defense Technology. 2001 , 21, 679-690		1
318	Direct biologically based biosensing of dynamic physiological function. 2001 , 280, H2006-10		4
317	A multicellular spheroid-based sensor for anti-cancer therapeutics. <i>Biosensors and Bioelectronics</i> , 2001 , 16, 261-9	11.8	57
316	A two-cell biosensor that couples neuronal cells to optically monitored fish chromatophores. <i>Biosensors and Bioelectronics</i> , 2001 , 16, 447-55	11.8	11
315	Design and demonstration of an automated cell-based biosensor. <i>Biosensors and Bioelectronics</i> , 2001 , 16, 535-42	11.8	42
314	Portable cell-based biosensor system using integrated CMOS cell-cartridges. <i>Biosensors and Bioelectronics</i> , 2001 , 16, 543-56	11.8	141
313	General purpose, field-portable cell-based biosensor platform. <i>Biosensors and Bioelectronics</i> , 2001 , 16, 557-64	11.8	60
312	Cardiomyocyte-transistor-hybrids for sensor application. <i>Biosensors and Bioelectronics</i> , 2001 , 16, 565-70	11.8	88
311	Identification of differential gene expression profiles in rat cortical cells exposed to the neuroactive agents trimethylolpropane phosphate and bicuculline. <i>Biosensors and Bioelectronics</i> , 2001 , 16, 593-601	11.8	4
310	Engineering mammalian cells for solid-state sensor applications. <i>Biosensors and Bioelectronics</i> , 2001 , 16, 603-8	11.8	30

(2003-2001)

309	The use of GABA(A) receptors expressed in neural precursor cells for cell-based assays. <i>Biosensors and Bioelectronics</i> , 2001 , 16, 481-9	11.8	5
308	A genetically engineered cell-based biosensor for functional classification of agents. <i>Biosensors and Bioelectronics</i> , 2001 , 16, 571-7	11.8	49
307	Modification of the cell based assay for brevetoxins using human cardiac voltage dependent sodium channels expressed in HEK-293 cells. <i>Biosensors and Bioelectronics</i> , 2001 , 16, 579-86	11.8	22
306	Detection of physiologically active compounds using cell-based biosensors. 2001 , 19, 304-9		175
305	Validation of the use of field effect transistors for extracellular signal recording in pharmacological bioassays. 2001 , 45, 207-14		44
304	Matrix Assisted Pulsed Laser Evaporation-Direct Write (Maple-Dw): A New Method to Rapidly Prototype Organic and Inorganic Materials. 2002 , 517-553		3
303	•		
302	Immuno-surface fabrication for biosensor optimization.		
301	Characterization of mesoporous thin films formed with added organophosphonate and organosilane. 2002 , 141, 213-220		1
300	Designing in vitro patterned neuronal networks.		
299	Physics and applications of microfluidics in biology. 2002 , 4, 261-86		1286
298	Enhanced myocyte-based biosensing of the blood-borne signals regulating chronotropy. 2002 , 92, 581-5		9
297	Generation of mesoscopic patterns of viable Escherichia coli by ambient laser transfer. 2002 , 23, 161-6		121
296	Cholera toxin-induced modulation of gene expression: elucidation via cDNA microarray for rational cell-based sensor design. 2002 , 457, 97-108		12
295	Development and Use of Antibodies in Surface Plasmon Resonance-Based Immunosensors for Environmental Monitoring. 2003 , 83, 525-543		8
294	Application of an immunosensor for the detection of the Elactam antibiotic, cephalexin. 2003, 15, 225-23	34	16
293	Acute neuropharmacologic action of chloroquine on cortical neurons in vitro. 2003, 959, 280-6		26
292	Patterning hydroxyapatite biocoating by electrophoretic deposition. 2003 , 67, 270-5		32

291	Comparison of antibody functionality using different immobilization methods. 2003 , 84, 215-23	102
2 90	64-Channel extended gate electrode arrays for extracellular signal recording. 2003 , 48, 3355-3362	42
289	Assessing the feasibility of using neural precursor cells and peripheral blood mononuclear cells for detection of bioactive Sindbis virus. <i>Biosensors and Bioelectronics</i> , 2003 , 18, 1065-72	16
288	Bioelectrochemical signal monitoring of in-vitro cultured cells by means of an automated microsystem based on solid state sensor-array. <i>Biosensors and Bioelectronics</i> , 2003 , 18, 621-6	46
287	A portable microelectrode array recording system incorporating cultured neuronal networks for neurotoxin detection. <i>Biosensors and Bioelectronics</i> , 2003 , 18, 1339-47	100
286	Use of fluorescently labeled phage in the detection and identification of bacterial species. 2003 , 57, 1138-44	60
285	Electronic sensors with living cellular components. 2003 , 91, 915-929	96
284	Emerging biomedical sensing technologies and their applications. 2003 , 3, 251-266	111
283	Laser deposition of polymer and biomaterial films. 2003 , 103, 553-76	437
282	Biosensor immunosurface engineering inspired by B-cell membrane-bound antibodies: modeling and analysis of multivalent antigen capture by immobilized antibodies. 2003 , 2, 14-25	8
281	Current Issues and Advances in Dissociated Cell Culturing on Nano-and Microfabricated Substrates. 2003 , 251-318	3
280	Nanotexturing gold surfaces with dendrimers for selective cell adhesion.	
279	Single Osteoblast Chemical Sensor via Non-invasive Bio-Electronic Interface. 2003 , 782, 1	
278	Absorbing film assisted laser induced forward transfer of fungi (Trichoderma conidia). 2004 , 96, 3478-3481	95
277	Sensitivity of the neuronal network biosensor to environmental threats. 2004 , 67, 809-18	13
276	Controlling cell attachment selectively onto biological polymer-colloid templates using polymer-on-polymer stamping. 2004 , 20, 7215-22	57
275	BioMEMS: state-of-the-art in detection, opportunities and prospects. 2004 , 56, 1565-86	336
274	CMOS microelectrode array for the monitoring of electrogenic cells. <i>Biosensors and Bioelectronics</i> , 2004 , 20, 358-66	128

(2005-2004)

273	Dielectrophoretic registration of living cells to a microelectrode array. <i>Biosensors and Bioelectronics</i> , 2004 , 19, 1765-74	1.8	119
272	Construction of high-density bacterial colony arrays and patterns by the ink-jet method. 2004 , 85, 29-33		113
271	Neuron-based microarray sensors for environmental sensing. 2004 , 25, 3746-60		17
270	Integrated microfluidic devices. 2004 , 507, 11-26		530
269	Guided cell patterning on gold-silicon dioxide substrates by surface molecular engineering. 2004 , 25, 3315-24		74
268	Dielectrophoretic registration of living cells to a microelectrode array. <i>Biosensors and Bioelectronics</i> , 2004 , 19, 771-80	1.8	118
267	A comparison of microscope slide substrates for use in transfected cell microarrays. <i>Biosensors and Bioelectronics</i> , 2004 , 20, 773-9	1.8	35
266	Discrimination between ricin and sulphur mustard toxicity in vitro using Raman spectroscopy. 2004 , 1, 79-90		183
265	Development of a whole-cell-based biosensor for detecting histamine as a model toxin. 2004 , 76, 4156-67	1	45
264	Pharmacological effects of the marine toxins, brevetoxin and saxitoxin, on murine frontal cortex neuronal networks. 2004 , 44, 669-76		34
263	Detection of biological threats. A challenge for directed molecular evolution. 2004 , 58, 147-68		81
262	Bioassay using living cells integrated on a chip. 2004 , 53, 367-382		5
261	A large transistor-based sensor array chip for direct extracellular imaging. <i>Sensors and Actuators B: Chemical</i> , 2005 , 111-112, 347-353	5.5	46
2 60	Multi-channel 3-D cell culture device integrated on a silicon chip for anticancer drug sensitivity test. 2005 , 26, 2165-72		109
259	Preparation of inert magnetic nano-particles for the directed immobilization of antibodies. Biosensors and Bioelectronics, 2005 , 20, 1380-7	1.8	77
258	Surface modification of silicon and gold-patterned silicon surfaces for improved biocompatibility and cell patterning selectivity. <i>Biosensors and Bioelectronics</i> , 2005 , 20, 1697-708	1.8	128
257	Cell-based biosensors based on light-addressable potentiometric sensors for single cell monitoring. Biosensors and Bioelectronics, 2005 , 20, 1757-63	1.8	103
256	Novel assay format permitting the prolonged use of regeneration-based sensor chip technology. 2005 , 296, 77-82		17

255	Fidelity of micropatterned cell cultures. 2005 , 74, 92-103	11
254	Neuron-transistor coupling: interpretation of individual extracellular recorded signals. 2005 , 34, 144-54	47
253	Biosensors for real-time in vivo measurements. <i>Biosensors and Bioelectronics</i> , 2005 , 20, 2388-403	558
252	Towards numerical prototyping of labs-on-chip: modeling for integrated microfluidic devices. 2005 , 1, 301-318	129
251	Dynamic Substrates for Cell Biology. 2005 , 30, 180-184	50
250	Chapter 10 Non-affinity sensing technology: the exploitation of biocatalytic events for environmental analysis. 2005 , 429-537	3
249	Design Proposal for a Chip Jointing VLSI and Rat Spinal Cord Neurons on a Single Silicon Wafer.	
248	A new hybrid neural system interfacing neurons and silicon hardware for fast signal recognition.	
247	Patterned biomimetic membranes: effect of concentration and pH. 2005 , 21, 7468-75	25
246	A scalable addressable positive-dielectrophoretic cell-sorting array. 2005 , 77, 7976-83	146
245	Dielectrophoretic traps for single-particle patterning. 2005 , 88, 2193-205	148
244	Assembly of multicellular constructs and microarrays of cells using magnetic nanowires. 2005 , 5, 598-605	120
243	Electrohydrodynamic jetting of mouse neuronal cells. 2006 , 394, 375-8	58
242	Laser-guided assembly of heterotypic three-dimensional living cell microarrays. 2006 , 91, 3465-73	85
241	Rapid heterogeneous liver-cell on-chip patterning via the enhanced field-induced dielectrophoresis trap. 2006 , 6, 724-34	221
240	Microelectrode array biochip: tool for in vitro drug screening based on the detection of a drug effect on dopamine release from PC12 cells. 2006 , 78, 6347-55	71
239	Electroactive self-assembled monolayers that permit orthogonal control over the adhesion of cells to patterned substrates. 2006 , 22, 10816-20	116
238	Effect of silicon oxidation on long-term cell selectivity of cell-patterned Au/SiO2 platforms. 2006 , 128, 1197-203	47

(2007-2006)

237	The smart Petri dish: a nanostructured photonic crystal for real-time monitoring of living cells. 2006 , 22, 7084-90		98
236	Detection of marine toxins, brevetoxin-3 and saxitoxin, in seawater using neuronal networks. 2006 , 40, 578-83		33
235	Visualization and sensing of intermolecular interactions with two-color fluorescent probes. 2006 , 580, 2951-7		63
234	Microelectrode array recordings of cardiac action potentials as a high throughput method to evaluate pesticide toxicity. 2006 , 20, 375-81		59
233	Plasma-Aided Micro- and Nanopatterning Processes for Biomedical Applications. 2006 , 3, 456-469		132
232	Cells on chips. 2006 , 442, 403-11		1791
231	Association of different prediction methods for determination of the efficiency and selectivity on neuron-based sensors. <i>Biosensors and Bioelectronics</i> , 2006 , 21, 1045-58	11.8	3
230	Protein-DNA interaction-based detection of small molecules by employing Renilla luciferase fusion protein: quantitative and generic measurement of tetracyclines with a Renilla luciferase-tagged Tet repressor protein. 2006 , 358, 301-3		6
229	Study on metal microparticle content of the material transferred with Absorbing Film Assisted Laser Induced Forward Transfer when using silver absorbing layer. 2006 , 252, 4738-4742		38
228	In situ temporal detection of dopamine exocytosis from l-dopa-incubated MN9D cells using microelectrode array-integrated biochip. <i>Sensors and Actuators B: Chemical</i> , 2006 , 115, 634-641	8.5	23
227	Covalent microcontact printing of proteins for cell patterning. 2006 , 12, 6290-7		111
226	Fluorescence sensing of intermolecular interactions and development of direct molecular biosensors. 2006 , 19, 459-77		64
225	Live Lymphocyte Arrays for Biosensing. 2006 , 16, 1313-1323		55
224	Fluorescence-Signaling Nucleic Acid-Based Sensors. 2006 , 49-72		2
223	Design and microfabrication of a high-aspect-ratio PDMS microbeam array for parallel nanonewton force measurement and protein printing. 2007 , 17, 623-632		58
222	Raman Spectroscopy Cell-based Biosensors. 2007 , 7, 1343-1358		238
221	Cellular impedance biosensors for drug screening and toxin detection. 2007, 132, 835-41		129
220	nDEP microwells for single-cell patterning in physiological media. 2007 , 7, 1146-53		102

219 Embryonic Stem Cells Biosensor and Its Application in Drug Analysis and Toxin Detection. **2007**, 7, 1625-1631 8

- . 0	Application of call based biospaces for the detection of bacterial elicitor flagellia 2007, 70, 102.7		• •
218	Application of cell-based biosensors for the detection of bacterial elicitor flagellin. 2007 , 70, 192-7		20
217	Bipolar resistivity profiling of 3D tissue culture. <i>Biosensors and Bioelectronics</i> , 2007 , 22, 789-96	11.8	29
216	Protein and cell micropatterning and its integration with micro/nanoparticles assembly. <i>Biosensors and Bioelectronics</i> , 2007 , 22, 775-88	11.8	130
215	Lytic phage as a specific and selective probe for detection of Staphylococcus aureusA surface plasmon resonance spectroscopic study. <i>Biosensors and Bioelectronics</i> , 2007 , 22, 948-55	11.8	194
214	Patterned cell adhesion by self-assembled structures for use with a CMOS cell-based biosensor. <i>Biosensors and Bioelectronics</i> , 2007 , 22, 1426-33	11.8	31
213	Adhesion of eukaryotic cell lines on the gold surface modified with extracellular matrix proteins monitored by the piezoelectric sensor. <i>Biosensors and Bioelectronics</i> , 2007 , 22, 1896-901	11.8	53
212	A living cell-based biosensor utilizing G-protein coupled receptors: principles and detection methods. <i>Biosensors and Bioelectronics</i> , 2007 , 22, 3230-7	11.8	17
211	Surface plasmon resonance biosensor for dopamine using D3 dopamine receptor as a biorecognition molecule. <i>Biosensors and Bioelectronics</i> , 2007 , 23, 421-7	11.8	56
21 0	Drug profiling using planar microelectrode arrays. 2007 , 387, 2673-80		27
209	Hybridoma Ped-2E9 cells cultured under modified conditions can sensitively detect Listeria monocytogenes and Bacillus cereus. 2007 , 73, 1423-34		13
208	Preparing a highly specific inert immunomolecular-magnetic beads for rapid detection and separation of S. aureus and group G Streptococcus. 2007 , 75, 1209-16		25
207	Embryonic stem cells as a novel cell source of cell-based biosensors. <i>Biosensors and Bioelectronics</i> , 2007 , 22, 810-5	11.8	28
206	Advances in engineered surfaces for functional performance. 2008 , 57, 750-769		462
205	A whole-cell assay for the high throughput screening of calmodulin antagonists. 2008, 390, 2073-9		6
204	Sensors for detecting biological agents. 2008 , 11, 38-49		79
203	Dielectrophoretic capture of mammalian cells using transparent indium tin oxide electrodes in microfluidic systems. 2008 , 29, 5047-54		22
202	Probing the bioelectrochemistry of living cells. 2008 , 53, 6690-6697		22

(2009-2008)

201	Development of a mast cell-based biosensor. <i>Biosensors and Bioelectronics</i> , 2008 , 23, 1024-31	2.8	44
200	Microcavity array (MCA)-based biosensor chip for functional drug screening of 3D tissue models. Biosensors and Bioelectronics, 2008, 23, 1473-80	1.8	67
199	A discrete-time control algorithm applied to closed-loop pacing of HL-1 cardiomyocytes. 2008 , 55, 21-30		3
198	Development of an in vitro multicellular tumor spheroid model using microencapsulation and its application in anticancer drug screening and testing. 2005 , 21, 1289-96		130
197	Multi-path mapping for alignment strategies in emerging science and technologies. 2008, 75, 517-538		75
196	Biosensors and bio-based methods for the separation and detection of foodborne pathogens. 2008 , 54, 1-44		89
195	Higher-order chemical sensing. 2008 , 108, 563-613		323
194	Three-dimensional neural constructs: a novel platform for neurophysiological investigation. 2008 , 5, 333-41		93
193	Drug testing on 3D in vitro tissues trapped on a microcavity chip. 2008 , 8, 879-84		74
192	Microplatform for intercellular communication. 2008,		9
192 191	Microplatform for intercellular communication. 2008, Recent advances in cell micropatterning techniques for bioanalytical and biomedical sciences. 2008, 24, 67-72		9
	Recent advances in cell micropatterning techniques for bioanalytical and biomedical sciences. 2008 ,		
191	Recent advances in cell micropatterning techniques for bioanalytical and biomedical sciences. 2008 , 24, 67-72 Comparison of Cell-Based Biosensors with Traditional Analytical Techniques for Cytotoxicity		97
191 190	Recent advances in cell micropatterning techniques for bioanalytical and biomedical sciences. 2008, 24, 67-72 Comparison of Cell-Based Biosensors with Traditional Analytical Techniques for Cytotoxicity Monitoring and Screening of Polycyclic Aromatic Hydrocarbons in the Environment. 2009, 42, 1-28		97
191 190 189	Recent advances in cell micropatterning techniques for bioanalytical and biomedical sciences. 2008, 24, 67-72 Comparison of Cell-Based Biosensors with Traditional Analytical Techniques for Cytotoxicity Monitoring and Screening of Polycyclic Aromatic Hydrocarbons in the Environment. 2009, 42, 1-28 On-chip detection of cellular activity. 2010, 117, 179-91 Generation of functional neural artificial tissue from human umbilical cord blood stem cells. 2009,		97 27 1
191 190 189	Recent advances in cell micropatterning techniques for bioanalytical and biomedical sciences. 2008, 24, 67-72 Comparison of Cell-Based Biosensors with Traditional Analytical Techniques for Cytotoxicity Monitoring and Screening of Polycyclic Aromatic Hydrocarbons in the Environment. 2009, 42, 1-28 On-chip detection of cellular activity. 2010, 117, 179-91 Generation of functional neural artificial tissue from human umbilical cord blood stem cells. 2009, 15, 365-72		97 27 1 41
191 190 189 188	Recent advances in cell micropatterning techniques for bioanalytical and biomedical sciences. 2008, 24, 67-72 Comparison of Cell-Based Biosensors with Traditional Analytical Techniques for Cytotoxicity Monitoring and Screening of Polycyclic Aromatic Hydrocarbons in the Environment. 2009, 42, 1-28 On-chip detection of cellular activity. 2010, 117, 179-91 Generation of functional neural artificial tissue from human umbilical cord blood stem cells. 2009, 15, 365-72 Mammalian cell-based biosensors for pathogens and toxins. 2009, 27, 179-88	5	97 27 1 41 127

183	Patterning of neural stem cells on poly(lactic-co-glycolic acid) film modified by hydrophobin. 2009 , 74, 370-4		38
182	Biomicrofluidics: Recent trends and future challenges. 2009 , 34, 573-590		17
181	SU-8 microstructure for quasi-three-dimensional cell-based biosensing. <i>Sensors and Actuators B: Chemical</i> , 2009 , 140, 349-355	8.5	19
180	Biosensing based on surface plasmon resonance and living cells. <i>Biosensors and Bioelectronics</i> , 2009 , 24, 1667-73	11.8	101
179	Detecting and differentiating microbes by dendritic cells for the development of cell-based biosensors. <i>Biosensors and Bioelectronics</i> , 2009 , 24, 2598-603	11.8	3
178	Patterned Au/poly(dimethylsiloxane) substrate fabricated by chemical plating coupled with electrochemical etching for cell patterning. 2009 , 25, 10402-7		45
177	Recent advances in peptide probe-based biosensors for detection of infectious agents. 2009 , 78, 10-9		77
176	Smart tissue culture: in situ monitoring of the activity of protease enzymes secreted from live cells using nanostructured photonic crystals. 2009 , 9, 2021-5		83
175	New Advances in Cell Adhesion Technology. 2009 , 69-130		1
174	Detection of drug-induced cellular changes using confocal Raman spectroscopy on patterned single-cell biosensors. 2009 , 134, 1440-6		45
173	A portable cell-based impedance sensor for toxicity testing of drinking water. 2009 , 9, 2176-83		97
172	Assays Based on Integrated Cell System Properties. 2010 , 289-306		1
171	Neurochip based on light-addressable potentiometric sensor with wavelet transform de-noising. 2010 , 11, 323-31		3
170	Extracellular recording of glycine receptor chloride channel activity as a prototype for biohybrid sensors. <i>Biosensors and Bioelectronics</i> , 2010 , 26, 155-61	11.8	11
169	Micropatterned Fibrous Scaffolds Fabricated Using Electrospinning and Hydrogel Lithography: New Platforms to Create Cellular Micropatterns. <i>Sensors and Actuators B: Chemical</i> , 2010 , 148, 504-510	8.5	17
168	An overview of foodborne pathogen detection: in the perspective of biosensors. 2010 , 28, 232-54		802
167	A Reusable Interface Constructed by 3-Aminophenylboronic Acid-Functionalized Multiwalled Carbon Nanotubes for Cell Capture, Release, and Cytosensing. 2010 , 20, 992-999		79
166	Reproducible fashion of the HSP70BR promoter-induced cytotoxic response on a live cell-based biosensor by cell cycle synchronization. 2010 , 107, 561-5		5

165	Polymer-lipid microbubbles for biosensing and the formation of porous structures. 2010 , 344, 521-7		27
164	Neural stem cells from human cord blood on bioengineered surfacesnovel approach to multiparameter bio-tests. 2010 , 270, 35-42		24
163	Nanostructured electrodes for biocompatible CMOS integrated circuits. <i>Sensors and Actuators B: Chemical</i> , 2010 , 147, 697-706	8.5	9
162	Selective adhesion of intestinal epithelial cells on patterned films with amine functionalities formed by plasma enhanced chemical vapor deposition. 2010 , 257, 398-403		6
161	Live cell-based sensor cells. 2010 , 31, 5911-5		22
160	Response characteristics of single-cell impedance sensors employed with surface-modified microelectrodes. <i>Biosensors and Bioelectronics</i> , 2010 , 25, 1963-9	11.8	50
159	A novel sweet taste cell-based sensor. <i>Biosensors and Bioelectronics</i> , 2010 , 26, 929-34	11.8	35
158	Olfactory receptor cells respond to odors in a tissue and semiconductor hybrid neuron chip. <i>Biosensors and Bioelectronics</i> , 2010 , 26, 1672-8	11.8	32
157	Measurement of contractile stress generated by cultured rat muscle on silicon cantilevers for toxin detection and muscle performance enhancement. <i>PLoS ONE</i> , 2010 , 5, e11042	3.7	66
156	Biosensing Systems Based on Genetically Engineered Whole Cells. 2010 , 565-598		5
155	Chemoelectrical Energy Conversion of Adenosine Triphosphate using ATPases. 2010 , 21, 201-212		6
154	Nano-Bio Electrochemical Interfacing[linking Cell Biology and Micro-Electronics. 2010 , 169-183		Ο
153	Nanobiosensing Electronics and Nanochemistry for Biosensor Packaging. 2010 , 613-663		1
152	Biophotoreceptor Arrays. 2010 , 1		
151	Microcup arrays for the efficient isolation and cloning of cells. 2010 , 82, 3161-7		16
150	Mammalian cell-based sensor system. 2010 , 117, 21-55		10
149	Multiplexed amino acid array utilizing bioluminescent Escherichia coli auxotrophs. 2010 , 82, 4072-7		14
148	Development and validation of a cellular biosensor detecting pesticide residues in tomatoes. 2010 , 80, 1799-804		24

147	Real-time electrochemical monitoring of cellular H2O2 integrated with in situ selective cultivation of living cells based on dual functional protein microarrays at Au-TiO2 surfaces. 2010 , 82, 6512-8		59
146	Cytogenetic characterization and cell cycle analysis of three human colon adenocarcinoma cell lines: comparison between two- and three-dimensional cell culture systems. 2010 , 28, 7-12		4
145	Stem cell applications in military medicine. 2011 , 2, 40		16
144	A novel urea amperometric biosensor based on secretion of carnation petal cells modified on a graphite-epoxy composite electrode. 2011 , 136, 841-6		3
143	Multi-parameter on-line cell health monitoring system. 2011 ,		
142	Necessity of a Thorough Characterization of Functionalized Silicon Wafers before Biointerface Studies. 2011 , 115, 11102-11111		27
141	Biosensors and Measurement. 2011 , 199-275		
140	Whole-cell biochips for bio-sensing: integration of live cells and inanimate surfaces. 2011 , 31, 337-53		41
139	Downsizing the Methods. 2011 , 157-184		4
138	Cytosensing and Cell Surface Carbohydrate Assay by Assembly of Nanoparticles. 2011 , 485-534		
137	Application of cellular biosensors for analysis of bioactivity associated with airborne particulate matter. 2011 , 25, 1132-42		7
136	Quantitative control of neuron adhesion at a neural interface using a conducting polymer composite with low electrical impedance. 2011 , 3, 16-21		28
135	Analysis of intracellular state based on controlled 3D nanostructures mediated surface enhanced Raman scattering. <i>PLoS ONE</i> , 2011 , 6, e15836	3.7	34
134	In vivo electrochemical impedance measurement on single cell membrane. 2011 , 88, 3094-3100		4
133	Growing Cells Atop Microelectronic Chips: Interfacing Electrogenic Cells In Vitro With CMOS-Based Microelectrode Arrays. 2011 , 99, 252-284		100
132	High spatial resolution impedance measurement of EIS sensors for light addressable cell adhesion monitoring. <i>Biosensors and Bioelectronics</i> , 2011 , 26, 2822-7	11.8	17
131	Microbial biosensors for organophosphate pesticides. 2011 , 165, 687-99		33
130	Detection and quantification of poliovirus infection using FTIR spectroscopy and cell culture. 2011 , 5, 16		23

(2013-2011)

129	In vitro assessing the risk of drug-induced cardiotoxicity by embryonic stem cell-based biosensor. <i>Sensors and Actuators B: Chemical</i> , 2011 , 155, 214-219	8.5	28
128	Non-positional cell microarray prepared by shape-coded polymeric microboards: A new microarray format for multiplex and high throughput cell-based assays. 2011 , 5, 32001-3200110		7
127	Exploitation of physical and chemical constraints for three-dimensional microtissue construction in microfluidics. 2011 , 5, 22203		38
126	Integrated biosensors for personalized medicine. 2012,		2
125	Surface-immobilization of chromatographically purified bacteriophages for the optimized capture of bacteria. 2012 , 2, 15-24		42
124	Development of Cell-Based Olfactory Biosensors. 2012 , 45, 202-218		6
123	Cell-Based Biosensors: Electrical Sensing in Microfluidic Devices. 2012 , 2, 83-96		23
122	Biosensors for non-invasive measurements. 2012 , 263-300		
121	Long-term storage and impedance-based water toxicity testing capabilities of fluidic biochips seeded with RTgill-W1 cells. 2012 , 26, 736-45		33
120	Design and Applications of Genetically Engineered Nanocomposites. 2012,		
119	A New Bacteriophage-Modified Piezoelectric Sensor for Rapid and Specific detection of Mycobacterium. 2012 , 45, 1242-1253		9
118	A magnetic cell-based sensor. 2012 , 12, 4465-71		32
117	A new electrochemical assay method for gene expression using HeLa cells with a secreted alkaline phosphatase (SEAP) reporter system. 2012 , 109, 2163-7		22
116	Genetic Programming as a tool for identification of analyte-specificity from complex response patterns using a non-specific whole-cell biosensor. <i>Biosensors and Bioelectronics</i> , 2012 , 33, 254-9	11.8	6
115	Sweet and bitter tastants specific detection by the taste cell-based sensor. <i>Biosensors and Bioelectronics</i> , 2012 , 35, 429-438	11.8	42
114	Development and demonstration of a disposable low-cost microelectrode array for cultured neuronal network recording. <i>Sensors and Actuators B: Chemical</i> , 2012 , 161, 655-660	8.5	15
113	Recent trends in in-vitro nanodiagnostics for detection of pathogens. 2012 , 159, 164-80		67
112	User-Friendly Universal and Durable Subcellular-Scaled Template for Protein Binding: Application to Single-Cell Patterning. 2013 , 23, 5840-5845		7

111	Electrochemical impedance spectrum frequency optimization of bitter taste cell-based sensors. Biosensors and Bioelectronics, 2013 , 47, 164-70	28
110	Suitability of invertebrate and vertebrate cells in a portable impedance-based toxicity sensor: temperature mediated impacts on long-term survival. 2013 , 27, 2061-6	17
109	Light-guiding hydrogels for cell-based sensing and optogenetic synthesis. 2013 , 7, 987-994	217
108	Cellular impedance sensing combined with LAPS as a new means for real-time monitoring cell growth and metabolism. 2013 , 199, 136-142	16
107	Application of cellular micropatterns to miniaturized cell-based biosensor. 2013 , 3, 117-130	6
106	Label-free optical biosensors based on a planar optical waveguide. 2013 , 7, 295-318	15
105	Study of long-term viability of endothelial cells for lab-on-a-chip devices. <i>Sensors and Actuators B: Chemical</i> , 2013 , 182, 696-705	22
104	Round-tip dielectrophoresis-based tweezers for single micro-object manipulation. <i>Biosensors and Bioelectronics</i> , 2013 , 47, 206-12	16
103	Umami evaluation in taste epithelium on microelectrode array by extracellular electrophysiological recording. 2013 , 438, 334-9	13
102	A novel cell-based hybrid acoustic wave biosensor with impedimetric sensing capabilities. 2013 , 13, 3039-55	22
101	Creating "living" polymer surfaces to pattern biomolecules and cells on common plastics. 2013 , 14, 1278-86	15
100	Biotoxin detection using cell-based sensors. 2013 , 5, 2366-83	39
99	Thermomicrocapillaries as temperature biosensors in single cells. 2013 , 102, 103505	6
98	A microscale neuron and Schwann cell coculture model for increasing detection sensitivity of botulinum neurotoxin type A. 2013 , 134, 64-72	21
97	Responsiveness of voltage-gated calcium channels in SH-SY5Y human neuroblastoma cells on quasi-three-dimensional micropatterns formed with poly (l-lactic acid). 2013 , 8, 93-107	6
96	Reduced graphene oxide-based sensing platform for electric cell¶ubstrate impedance sensing. 2014 , 211, 1404-1409	8
95	Cellular membrane collapse by atmospheric-pressure plasma jet. 2014 , 104, 013701	27
94	Introduction to Molecular Sensors. 2014 , 1-42	

93	Sweet and bitter tastant discrimination from complex chemical mixtures using taste cell-based sensor. <i>Sensors and Actuators B: Chemical</i> , 2014 , 192, 361-368	24
92	Recent advances in taste cell- and receptor-based biosensors. <i>Sensors and Actuators B: Chemical</i> , 2014 , 201, 75-85	25
91	A lab-on-chip cell-based biosensor for label-free sensing of water toxicants. 2014 , 14, 1270-80	35
90	Biomimetic construction of cellular shell by adjusting the interfacial energy. 2014 , 111, 386-95	17
89	Tastant quantitative analysis from complex mixtures using taste cell-based sensor and double-layered cascaded series stochastic resonance. 2014 , 136, 75-88	12
88	Light-addressable Potentiometric Sensor (LAPS) Combined with Multi-chamber Structures to Investigate the Metabolic Activity of Cells. 2015 , 120, 384-387	6
87	Bioanalytical Chemistry, Biosensors. 2015 , 1-24	
86	Synthetic methodology for asymmetric ferrocene derived bio-conjugate systems via solid phase resin-based methodology. 2015 ,	
85	Paper-Based Electrodeposition Chip for 3D Alginate Hydrogel Formation. 2015 , 6, 1546-1559	10
84	Cell suspension concentration monitoring by using a miniaturized serial high frequency SAWR sensor. 2015 , 6, 351-6	2
83	A UAV-Mounted Whole Cell Biosensor System for Environmental Monitoring Applications. 2015 , 14, 811-7	32
82	Investigation on effects of stochastic resonance potential barrier parameters on tastant perception abilities of taste cell-based sensor. 2015 , 157, 307-313	2
81	Impedimetric toxicity assay in microfluidics using free and liposome-encapsulated anticancer drugs. 2015 , 87, 2204-12	27
80	Evaluation and refinement of a field-portable drinking water toxicity sensor utilizing electric cell-substrate impedance sensing and a fluidic biochip. 2015 , 35, 701-8	13
79	Manipulating and Monitoring On-Surface Biological Reactions by Light-Triggered Local pH Alterations. 2015 , 15, 4758-68	28
78	A portable automatic endpoint detection system for amplicons of loop mediated isothermal amplification on microfluidic compact disk platform. 2015 , 15, 5376-89	23
77	Investigating the effect of design parameters on the response time of a highly sensitive microbial hydrogen sulfide biosensor based on oxygen consumption. <i>Biosensors and Bioelectronics</i> , 2015 , 70, 106-14.8	8
76	Toxicity studies using mammalian cells and impedance spectroscopy method. 2015 , 3, 112-121	16

Angiogenic tube formation of bovine aortic endothelial cells grown on patterns formed by H2/He plasma treatment of the plasma polymerized hexamethyldisiloxane film. **2015**, 10, 029503

74	Taste Sensors with Gustatory Cells. 2015 , 197-224		1
73	TOXOR: Design and Application of an Electrochemical Toxicity Biosensor for Environmental Monitoring. 2015 , 27, 58-66		4
72	Determination of the extracellular acidification of Escherichia coli K12 with a multi-chamber-based LAPS system. 2016 , 213, 1479-1485		18
71	Micro/Nano Cell-Substrate Impedance Biosensors. 2016 , 73-95		
70	Preparation and Testing of Impedance-based Fluidic Biochips with RTgill-W1 Cells for Rapid Evaluation of Drinking Water Samples for Toxicity. 2016 ,		7
69	Autonomous real-time water quality sensing as an alternative to conventional monitoring to improve the detection of food, energy, and water indicators. 2016 , 6, 200-207		9
68	A luminescent hybridoma-based biosensor for rapid detection of V. cholerae upon induction of calcium signaling pathway. <i>Biosensors and Bioelectronics</i> , 2016 , 79, 213-9	.8	11
67	Methods for evaluating the pollution impact of urban wet weather discharges on biocenosis: A review. 2016 , 89, 330-54		50
66	Evaluation of Silk Inverse Opals for "Smart" Tissue Culture. 2017 , 2, 470-477		12
65	The physics and chemistry of silica-in-silicates nanocomposite hydrogels and their phycocompatibility. 2017 , 5, 2931-2940		5
64	A localized chemical pulse generator for the development of a microfluidic cell-based biosensor. Sensors and Actuators B: Chemical, 2017 , 251, 112-119	;	10
63	Study of small-cell lung cancer cell-based sensor and its applications in chemotherapy effects rapid evaluation for anticancer drugs. <i>Biosensors and Bioelectronics</i> , 2017 , 97, 184-195	.8	38
62	Differential imaging of the metabolism of bacteria and eukaryotic cells based on light-addressable potentiometric sensors. 2017 , 246, 234-241		17
61	Fluorescent nanobiosensors for the targeted detection of foodborne bacteria. 2017 , 97, 120-135		56
60	Bioelectronic nose: Current status and perspectives. <i>Biosensors and Bioelectronics</i> , 2017 , 87, 480-494 11	.8	104
59	The Application of Whole Cell-Based Biosensors for Use in Environmental Analysis and in Medical Diagnostics. 2017 , 17,		156
58	Cell Microarray Technologies for High-Throughput Cell-Based Biosensors. 2017 , 17,		30

57	Application of stem cells in tissue engineering for defense medicine. 2018 , 5, 7	20
56	Use of torsional resonators to monitor electroactive biofilms. <i>Biosensors and Bioelectronics</i> , 2018 , 110, 225-232	6
55	Love mode surface acoustic wave and impedance sensors for water toxicity sensing. 2018, 37, 172-179	3
54	On the Use of the Quartz Crystal Microbalance for Whole-Cell-Based Biosensing. 2018 , 135	
53	Bioanalytical Chemistry, Biosensors. 2018 , 1-28	
52	Bacteriophage-Mediated Biosensors for Detection of Foodborne Pathogens. 2018 , 353-384	2
51	Electrochemical Immunosensors. 2018 , 359-414	28
50	A patterned polystyrene-based microelectrode array for in vitro neuronal recordings. 2018 , 20, 48	7
49	Optimization of Cell-Based Multi-Chamber LAPS Measurements Utilizing FPGA-Controlled Laser-Diode Modules. 2018 , 215, 1800058	5
48	Product Design: Enzymatic Biosensors for Body Fluid Analysis. 2019 , 58, 14284-14294	4
47	Environmental-Stress-Induced Increased Softness of Electroactive Biofilms, Determined with a Torsional Quartz Crystal Microbalance. 2019 , 91, 14476-14481	0
46	Extracellular electrophysiological based sensor to monitor cancer cells cooperative migration and cell-cell connections. <i>Biosensors and Bioelectronics</i> , 2019 , 145, 111708	4
45	Optimal Transmitted Molecules and Decision Threshold for Drift-Induced Diffusive Molecular Channel With Mobile Nanomachines. 2019 , 18, 651-660	13
44	. 2019 , 13, 4-14	17
43	A light-addressable microfluidic device for label-free functional assays of bioengineered taste receptor cells via extracellular recording. 2019 , 5, 73-79	3
42	Nanoplasmonics-enhanced label-free imaging of endothelial cell monolayer integrity. <i>Biosensors and Bioelectronics</i> , 2019 , 141, 111478	3
41	Anticancer Efficacy of Long-Term Stored Plasma-Activated Medium. 2019 , 9, 801	7
40	Introduction to molecular sensors. 2019 , 1-42	1

39	A Rapid Assay to Assess Nitrification Inhibition Using a Panel of Bacterial Strains and Partial Least Squares Modeling. 2020 , 54, 184-194		2
38	Detection of apoptotic and live pre-osteoblast cell line using impedance-based biosensors with variable electrode design. <i>Biosensors and Bioelectronics</i> , 2019 , 128, 37-44	11.8	6
37	Emerging neurotechnology for antinoceptive mechanisms and therapeutics discovery. <i>Biosensors and Bioelectronics</i> , 2019 , 126, 679-689	11.8	6
36	Carbon Nanomaterial-Based Electrochemical Biosensors for Foodborne Bacterial Detection. 2019 , 49, 510-533		42
35	Recent progress on cell-based biosensors for analysis of food safety and quality control. <i>Biosensors and Bioelectronics</i> , 2019 , 126, 389-404	11.8	59
34	Rapid impedance spectroscopy using dual phase shifted chirp signals for electrochemical applications. 2020 , 45, 10536-10548		2
33	Organ-on-chip model shows that ATP release through connexin hemichannels drives spontaneous Ca signaling in non-sensory cells of the greater epithelial ridge in the developing cochlea. 2020 , 20, 30	11-3023	3 9
32	Multidimensional Measurement of Electrical Coupling Properties of Nanostructured Substrates and Living Cells. 2020 , 15, 2050119		
31	Current research progress of mammalian cell-based biosensors on the detection of foodborne pathogens and toxins. 2020 , 1-17		7
30	A review on microwell and microfluidic geometric array fabrication techniques and its potential applications in cellular studies. 2021 , 99, 61-96		6
29	Mammalian Cell-Based Biosensors. 2021 , 1-27		
28	Mammalian Cell-Based Biosensors. 2021 , 1-28		
27	Circumventing paclitaxel resistance in breast cancer cells using a nanoemulsion system and determining its efficacy via an impedance biosensor. 2021 , 146, 3225-3233		3
26	A dynamic electrochemical cell sensor for selective capture, rapid detection and noninvasive release of tumor cells. <i>Sensors and Actuators B: Chemical</i> , 2021 , 330, 129345	8.5	4
25	Chemogenetic biocompatibly of mercury as specific hypercalcemia actuator in neuronal spinal cord cell manipulation: Zeta bio-sensing analysis. <i>Biosensors and Bioelectronics</i> , 2021 , 182, 113125	11.8	0
24	Genetically Encoded Sensor Cells for the Screening of Glucocorticoid Receptor (GR) Effectors in Herbal Extracts. <i>Biosensors</i> , 2021 , 11,	5.9	4
23	Mammalian Cell-Based Biosensors. 2022 , 407-433		
22	New analytical methods using carbon-based nanomaterials for detection of Salmonella species as a major food poisoning organism in water and soil resources. <i>Chemosphere</i> , 2022 , 287, 132243	8.4	1

Nanobiosensing Electronics and Nanochemistry for Biosensor Packaging. **2021**, 317-348

20	Photoproteins as Reporters in Whole-cell Sensing. 131		1
19	Cell and Tissue-Based Sensors. 2006 , 55-65		0
18	Integrated Microelectrode Arrays. <i>Integrated Circuits and Systems</i> , 2007 , 207-258	0.2	2
17	Microdialysis and Microfiltration: Technology and Cerebral Applications for Energy Substrates. <i>Advances in Neurobiology</i> , 2012 , 371-414	2.1	1
16	Cell microarrays based on hydrogel microstructures for the application to cell-based biosensor. <i>Methods in Molecular Biology</i> , 2011 , 671, 133-45	1.4	1
15	Materials in Bio-Sensing of Water Pollutants. Advanced Functional Materials and Sensors, 2020, 187-211	1.4	1
14	Generation of Functional Neural Artificial Tissue from Human Umbilical Cord Blood Stem Cells. Tissue Engineering - Part A, 110306231138043	3.9	1
13	Biology on a chip: microfabrication for studying the behavior of cultured cells. <i>Critical Reviews in Biomedical Engineering</i> , 2003 , 31, 423-88	1.1	137
12	Fabrication of Line and Grid Patterns with Cells Based on Negative Dielectrophoresis. <i>Journal of Robotics and Mechatronics</i> , 2010 , 22, 613-618	0.7	3
11	Simulation and Measurement of Neuroelectrodes Characteristics with Integrated High Aspect Ratio Nano Structures. <i>AIMS Materials Science</i> , 2015 , 2, 189-202	1.9	2
10	Biosensors in clinical chemistry: An overview. <i>Advanced Biomedical Research</i> , 2014 , 3, 67	1.2	39
9	Relationships Between Biomaterials and Biosensors. 2003,		
8	Low-temperature stabilization of glucose oxidase as a component of biological sensor. <i>Biopolymers and Cell</i> , 2006 , 22, 236-242	0.3	
7	Immunochips for Personal Toxicity Testing. 2012 , 17-20		
6	Introduction. Springer Theses, 2018, 1-30	0.1	
5	Biosensors and its Transducers. 2019 , 125-151		
4	Development of the EDL-FET Based Cell Culture Platform for Electrical Cell Proliferation Monitoring. ECS Journal of Solid State Science and Technology, 2020 , 9, 121001	2	O

	Synthesis of encapsulated ZnO nanowires provide low impedance alternatives for microelectrodes.
3	PLoS ONE, 2022 , 17, e0270164

3.7

Optical Oxygen Sensing and Clark Electrode: Face-to-Face in a Biosensor Case Study. **2022**, 22, 7626

3

Live Cells as Biosensors. **2023**, 291-322

О