

Sven Ingebrandt

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.

132
papers

3,557
citations

34
h-index

54
g-index

146
ext. papers

3,951
ext. citations

5.4
avg, IF

5.25
L-index

#	Paper	IF	Citations
132	The antioxidant Rutin counteracts the pathological impact of α -synuclein on the enteric nervous system. <i>Biological Chemistry</i> , 2022 , 403, 103-122	4.5	1
131	Delineating charge and capacitance transduction in system-integrated graphene-based BioFETs used as aptasensors for malaria detection.. <i>Biosensors and Bioelectronics</i> , 2022 , 208, 114219	11.8	1
130	Electrical SPR biosensor with thermal annealed graphene oxide: Concept of highly sensitive biomolecule detection. <i>Biosensors and Bioelectronics: X</i> , 2022 , 11, 100152	2.9	1
129	Self-Assembling Flexible 3D-MEAs for Cortical Implants. <i>Current Directions in Biomedical Engineering</i> , 2021 , 7, 359-362	0.5	
128	Contactless, Battery-free, and Stretchable Wearable for Continuous Recording of Seismocardiograms. <i>ACS Applied Electronic Materials</i> , 2021 , 3, 11-20	4	5
127	PEDOT:PSS organic electrochemical transistors for electrical cell-substrate impedance sensing down to single cells. <i>Biosensors and Bioelectronics</i> , 2021 , 180, 113101	11.8	5
126	Dry Film Resist Laminated Microfluidic System for Electrical Impedance Measurements. <i>Micromachines</i> , 2021 , 12,	3.3	2
125	PEDOT:PSS-Based Bioelectronic Devices for Recording and Modulation of Electrophysiological and Biochemical Cell Signals. <i>Advanced Healthcare Materials</i> , 2021 , 10, e2100061	10.1	26
124	Process Variability in Top-Down Fabrication of Silicon Nanowire-Based Biosensor Arrays. <i>Sensors</i> , 2021 , 21,	3.8	3
123	Microelectrode Combinations of Gold and Polypyrrole Enable Highly Stable Two-electrode Electrochemical Impedance Spectroscopy Measurements under Turbulent Flow Conditions. <i>Electroanalysis</i> , 2021 , 33, 197-207	3	4
122	Sensitive impedimetric detection of troponin I with metal-organic framework composite electrode.. <i>RSC Advances</i> , 2021 , 11, 2167-2174	3.7	8
121	Decomposition and modeling of signal shapes of single point cardiac monitoring. <i>Current Directions in Biomedical Engineering</i> , 2020 , 6, 583-586	0.5	1
120	Comprehensive Understanding of Silicon-Nanowire Field-Effect Transistor Impedimetric Readout for Biomolecular Sensing. <i>Micromachines</i> , 2020 , 12,	3.3	2
119	Searching for a common origin of heat-transfer effects in bio- and chemosensors: A study on thiols as a model system. <i>Sensors and Actuators B: Chemical</i> , 2020 , 310, 127627	8.5	4
118	Point-of-care-ready nanoscale ISFET arrays for sub-picomolar detection of cytokines in cell cultures. <i>Analytical and Bioanalytical Chemistry</i> , 2020 , 412, 6777-6788	4.4	11
117	Development and in vitro validation of flexible intraretinal probes. <i>Scientific Reports</i> , 2020 , 10, 19836	4.9	1
116	Luminescent metal-organic frameworks and their composites: Potential future materials for organic light emitting displays. <i>Coordination Chemistry Reviews</i> , 2019 , 401, 213077	23.2	83

115	Tuning Channel Architecture of Interdigitated Organic Electrochemical Transistors for Recording the Action Potentials of Electrogenic Cells. <i>Advanced Functional Materials</i> , 2019 , 29, 1902085	15.6	23
114	Reduced graphene-oxide transducers for biosensing applications beyond the Debye-screening limit. <i>Biosensors and Bioelectronics</i> , 2019 , 130, 352-359	11.8	10
113	Photothermal effects induced by surface plasmon resonance at graphene/gold nanointerfaces: A multiscale modeling study. <i>Biosensors and Bioelectronics</i> , 2019 , 126, 470-477	11.8	10
112	Reduced graphene oxide biosensor platform for the detection of NT-proBNP biomarker in its clinical range. <i>Biosensors and Bioelectronics</i> , 2019 , 126, 136-142	11.8	24
111	Scalable fabrication and application of nanoscale IDE-arrays as multi-electrode platform for label-free biosensing. <i>Sensors and Actuators B: Chemical</i> , 2018 , 265, 115-125	8.5	10
110	Front-End-of-Line Integration of Graphene Oxide for Graphene-Based Electrical Platforms. <i>Advanced Materials Technologies</i> , 2018 , 3, 1700318	6.8	11
109	Silicon Nanowire Field-Effect Biosensors. <i>Springer Series on Chemical Sensors and Biosensors</i> , 2018 , 27-572		7
108	Transistor-Based Impedimetric Monitoring of Single Cells. <i>Bioanalytical Reviews</i> , 2018 , 77-110	1	1
107	Impedimetric Sensing of DNA with Silicon Nanowire Transistors as Alternative Transducer Principle. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2018 , 215, 1700740	1.6	10
106	Graphite oxide electrical sensors are able to distinguish single nucleotide polymorphisms in physiological buffers. <i>FlatChem</i> , 2018 , 7, 1-9	5.1	4
105	Intriguing electronic insensitivity and high carrier mobility in monolayer hexagonal YN. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 4943-4951	7.1	20
104	Top-Down Fabricated Silicon Nanowire Arrays for Field-Effect Detection of Prostate-Specific Antigen. <i>ACS Omega</i> , 2018 , 3, 8471-8482	3.9	24
103	Silane Deposition via Gas-Phase Evaporation and High-Resolution Surface Characterization of the Ultrathin Siloxane Coatings. <i>Langmuir</i> , 2018 , 34, 10217-10229	4	25
102	ScFv-modified graphene-coated IDE-arrays for 'label-free' screening of cardiovascular disease biomarkers in physiological saline. <i>Biosensors and Bioelectronics</i> , 2018 , 102, 574-581	11.8	18
101	Comparative cell biological study of in vitro antitumor and antimetastatic activity on melanoma cells of GnRH-III-containing conjugates modified with short-chain fatty acids. <i>Beilstein Journal of Organic Chemistry</i> , 2018 , 14, 2495-2509	2.5	6
100	Wafer-scale fabrication of microelectrode arrays on optically transparent polymer foils for the integration of flexible nanoscale devices. <i>Flexible and Printed Electronics</i> , 2018 , 3, 044001	3.1	2
99	A Novel Modular Device for Biological Impedance Measurements: The Differential Impedimetric Sensor Cell (DISC). <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2018 , 215, 1701029	1.6	1
98	Wafer-Scale Nanoimprint Lithography Process Towards Complementary Silicon Nanowire Field-Effect Transistors for Biosensor Applications. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2018 , 215, 1800234	1.6	6

97	Considering the spin-orbit coupling effect on the photocatalytic performance of AlN/MX2 nanocomposites. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 9412-9420	7.1	19
96	Adsorption of Gas Molecules on Graphene-Like ZnO Nanosheets: The Roles of Gas Concentration, Layer Number, and Heterolayer. <i>Advanced Materials Interfaces</i> , 2017 , 4, 1700647	4.6	25
95	PEDOT:PSS organic electrochemical transistor arrays for extracellular electrophysiological sensing of cardiac cells. <i>Biosensors and Bioelectronics</i> , 2017 , 93, 132-138	11.8	44
94	Selective comparison of gelling agents as neural cell culture matrices for long-term microelectrode array electrophysiology. <i>OCL - Oilseeds and Fats, Crops and Lipids</i> , 2016 , 23, D117	1.5	2
93	Biologically sensitive field-effect transistors: from ISFETs to NanoFETs. <i>Essays in Biochemistry</i> , 2016 , 60, 81-90	7.6	72
92	On the Use of Scalable NanoISFET Arrays of Silicon with Highly Reproducible Sensor Performance for Biosensor Applications. <i>ACS Omega</i> , 2016 , 1, 84-92	3.9	26
91	Nano-fabricated memristive biosensors for biomedical applications with liquid and dried samples. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2016 , 2016, 295-298	0.9	1
90	Label-Free Ultrasensitive Memristive Aptasensor. <i>Nano Letters</i> , 2016 , 16, 4472-6	11.5	68
89	DNA detection with top-down fabricated silicon nanowire transistor arrays in linear operation regime. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2016 , 213, 1510-1519	1.6	10
88	Influence of different chemical surface patterns on the dynamic wetting behaviour on flat and silanized silicon wafers during inclining-plate measurements: An experimental investigation with the high-precision drop shape analysis approach. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2016 , 307, 271-285	5.1	7
87	High-precision drop shape analysis (HPDSA) of quasistatic contact angles on silanized silicon wafers with different surface topographies during inclining-plate measurements: Influence of the surface roughness on the contact line dynamics. <i>Applied Surface Science</i> , 2015 , 342, 11-25	6.7	30
86	Electronic monitoring of single cell-substrate adhesion events with quasi-planar field-effect transistors. <i>Sensors and Actuators B: Chemical</i> , 2015 , 210, 776-783	8.5	4
85	The influence of medium conductivity on ECIS measurements with field-effect transistor arrays. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2015 , 212, 1260-1265	1.6	2
84	Bioelectronics: Sensing beyond the limit. <i>Nature Nanotechnology</i> , 2015 , 10, 734-5	28.7	19
83	Electrical cell-substrate impedance sensing with field-effect transistors is able to unravel cellular adhesion and detachment processes on a single cell level. <i>Lab on A Chip</i> , 2015 , 15, 668-79	7.2	33
82	Statistical contact angle analyses: Slow moving drops on inclining flat mono-aminopropylsiloxane surfaces. <i>Journal of Adhesion Science and Technology</i> , 2015 , 29, 1796-1806	2	12
81	Neurodegeneration through oxidative stress: monitoring hydrogen peroxide induced apoptosis in primary cells from the subventricular zone of BALB/c mice using field-effect transistors. <i>Biosensors and Bioelectronics</i> , 2015 , 67, 490-6	11.8	23
80	Human T cells monitored by impedance spectrometry using field-effect transistor arrays: a novel tool for single-cell adhesion and migration studies. <i>Biosensors and Bioelectronics</i> , 2015 , 67, 170-6	11.8	18

79	Incubator-independent cell-culture perfusion platform for continuous long-term microelectrode array electrophysiology and time-lapse imaging. <i>Royal Society Open Science</i> , 2015 , 2, 150031	3.3	19
78	Handheld readout system for field-effect transistor biosensor arrays for label-free detection of biomolecules. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2015 , 212, 1313-1319	1.6	10
77	Graphite oxide multilayers for device fabrication: Enzyme-based electrical sensing of glucose. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2015 , 212, 1335-1341	1.6	6
76	Impedimetric immunosensor for the detection of histamine based on reduced graphene oxide. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2015 , 212, 1327-1334	1.6	19
75	Investigation of ISFET device parameters to optimize for impedimetric sensing of cellular adhesion. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2014 , 211, 1395-1403	1.6	11
74	Statistical approach for contact angle determination on inclining surfaces: Flow-moving analyses of non-axisymmetric drops on a flat silanized silicon wafer. <i>International Journal of Adhesion and Adhesives</i> , 2014 , 55, 123-131	3.4	19
73	Thermal detection of histamine with a graphene oxide based molecularly imprinted polymer platform prepared by reversible addition-fragmentation chain transfer polymerization. <i>Sensors and Actuators B: Chemical</i> , 2014 , 203, 527-535	8.5	51
72	Reduced graphene oxide-based sensing platform for electric cell-substrate impedance sensing. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2014 , 211, 1404-1409	1.6	8
71	Impedimetric detection of histamine in bowel fluids using synthetic receptors with pH-optimized binding characteristics. <i>Analytical Chemistry</i> , 2013 , 85, 1475-83	7.8	48
70	PSPICE model for silicon nanowire field-effect transistor biosensors in impedimetric measurement mode. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2013 , 210, 870-876	1.6	11
69	Routine fabrication of reduced graphene oxide microarray devices via all solution processing. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2013 , 210, 968-974	1.6	10
68	Impedance spectroscopy with field-effect transistor arrays for the analysis of anti-cancer drug action on individual cells. <i>Biosensors and Bioelectronics</i> , 2013 , 40, 50-6	11.8	36
67	Monitoring nanoparticle induced cell death in H441 cells using field-effect transistors. <i>Biosensors and Bioelectronics</i> , 2013 , 40, 89-95	11.8	18
66	Functional peptides for capacitive detection of Ca ²⁺ ions. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2013 , 210, 1030-1037	1.6	1
65	Reduced graphene oxide micropatterns as an interface for adherent cells. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2013 , 210, 975-982	1.6	9
64	Label-free electrical detection of DNA by means of field-effect nanoplate capacitors: Experiments and modeling. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2012 , 209, 925-934	1.6	56
63	The use of SU-8 topographically guided microelectrode array in measuring extracellular field potential propagation. <i>Annals of Biomedical Engineering</i> , 2012 , 40, 619-27	4.7	5
62	The significance of chloride in the inhibitory action of disodium cromoglycate on immunologically-stimulated rat peritoneal mast cells. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2011 , 1810, 867-74	4	4

61	An array of field-effect nanoplate SOI capacitors for (bio-)chemical sensing. <i>Biosensors and Bioelectronics</i> , 2011 , 26, 3023-8	11.8	21
60	Rapid assessment of the stability of DNA duplexes by impedimetric real-time monitoring of chemically induced denaturation. <i>Lab on A Chip</i> , 2011 , 11, 1656-63	7.2	31
59	Top-Down Processed SOI Nanowire Devices for Biomedical Applications. <i>ECS Transactions</i> , 2011 , 35, 3-15		16
58	A Study of the Relationship Between Pharmacologic Preconditioning and Adenosine Triphosphate-Sensitive Potassium (KATP) Channels on Cultured Cardiomyocytes Using the Microelectrode Array. <i>Journal of Cardiovascular Pharmacology</i> , 2010 , 56, 60-68	3.1	5
57	Light induced stimulation and delay of cardiac activity. <i>Lab on A Chip</i> , 2010 , 10, 2588-96	7.2	29
56	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
55	Fabrication and application of silicon nanowire transistor arrays for biomolecular detection. <i>Sensors and Actuators B: Chemical</i> , 2010 , 144, 354-360	8.5	76
54	Customized impedance spectroscopy device as possible sensor platform for biosensor applications. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2010 , 207, 919-923	1.6	17
53	Fabrication and application of a microfluidic-embedded silicon nanowire biosensor chip. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2010 , 207, 850-857	1.6	30
52	A study of the relationship between pharmacologic preconditioning and adenosine triphosphate-sensitive potassium (KATP) channels on cultured cardiomyocytes using the microelectrode array. <i>Journal of Cardiovascular Pharmacology</i> , 2010 , 56, 60-8	3.1	
51	Action potentials of HL-1 cells recorded with silicon nanowire transistors. <i>Applied Physics Letters</i> , 2009 , 95, 083703	3.4	57
50	The use of microelectrode array (MEA) to study the protective effects of potassium channel openers on metabolically compromised HL-1 cardiomyocytes. <i>Physiological Measurement</i> , 2009 , 30, 155-67		23
49	To establish a pharmacological experimental platform for the study of cardiac hypoxia using the microelectrode array. <i>Journal of Pharmacological and Toxicological Methods</i> , 2009 , 59, 146-52	1.7	12
48	Diamond Transistor Array for Extracellular Recording From Electrogenic Cells. <i>Advanced Functional Materials</i> , 2009 , 19, 2915-2923	15.6	79
47	Nanoplate field-effect capacitive (bio-)chemical sensor array based on SOI structure. <i>Procedia Chemistry</i> , 2009 , 1, 670-673		3
46	Top-down processed silicon nanowire transistor arrays for biosensing. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2009 , 206, 426-434	1.6	44
45	Impedimetric detection of covalently attached biomolecules on field-effect transistors. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2009 , 206, 417-425	1.6	16
44	Time-dependent observation of individual cellular binding events to field-effect transistors. <i>Biosensors and Bioelectronics</i> , 2009 , 24, 1201-8	11.8	39

43	Field-effect devices for detecting cellular signals. <i>Seminars in Cell and Developmental Biology</i> , 2009 , 20, 41-8	7.5	86
42	Modulatory action of potassium channel openers on field potential and histamine release from rat peritoneal mast cells. <i>Canadian Journal of Physiology and Pharmacology</i> , 2009 , 87, 624-32	2.4	3
41	CMOS sensor array for bi-directional communication with electrically active cells 2009 ,		1
40	Iridium oxide microelectrode arrays for in vitro stimulation of individual rat neurons from dissociated cultures. <i>Frontiers in Neuroengineering</i> , 2009 , 2, 16		30
39	Label-Free, Fully Electronic Detection of DNA with a Field-Effect Transistor Array. <i>Nanostructure Science and Technology</i> , 2009 , 103-129	0.9	
38	Interfacing Neurons and Silicon-Based Devices. <i>Nanostructure Science and Technology</i> , 2009 , 287-301	0.9	1
37	Transmission electron microscopy study of the cell-sensor interface. <i>Journal of the Royal Society Interface</i> , 2008 , 5, 213-22	4.1	65
36	Bioelectronic Detection Schemes for Biomedical and Environmental Sensing. <i>Advances in Science and Technology</i> , 2008 , 58, 78-84	0.1	1
35	The use of microelectrode array (MEA) to study rat peritoneal mast cell activation. <i>Journal of Pharmacological Sciences</i> , 2008 , 107, 201-12	3.7	8
34	Membrane allocation profiling: a method to characterize three-dimensional cell shape and attachment based on surface reconstruction. <i>Biomaterials</i> , 2008 , 29, 3927-35	15.6	17
33	Novel post-process for the passivation of a CMOS biosensor. <i>Physica Status Solidi - Rapid Research Letters</i> , 2008 , 2, 4-6	2.5	23
32	Label-free detection of single nucleotide polymorphisms utilizing the differential transfer function of field-effect transistors. <i>Biosensors and Bioelectronics</i> , 2007 , 22, 2834-40	11.8	101
31	Influence of the first amplifier stage in MEA systems on extracellular signal shapes. <i>Biosensors and Bioelectronics</i> , 2007 , 22, 1092-6	11.8	14
30	Field-effect sensors with charged macromolecules: characterisation by capacitance-voltage, constant-capacitance, impedance spectroscopy and atomic-force microscopy methods. <i>Biosensors and Bioelectronics</i> , 2007 , 22, 2100-7	11.8	63
29	Solution of the Poisson-Nernst-Planck equations in the cell-substrate interface. <i>European Physical Journal E</i> , 2007 , 24, 1-8	1.5	24
28	Drug profiling using planar microelectrode arrays. <i>Analytical and Bioanalytical Chemistry</i> , 2007 , 387, 2673-80	4.80	27
27	Label-free detection of charged macromolecules by using a field-effect-based sensor platform: Experiments and possible mechanisms of signal generation. <i>Applied Physics A: Materials Science and Processing</i> , 2007 , 87, 517-524	2.6	53
26	Advanced CMOS process for floating gate field-effect transistors in bioelectronic applications. <i>Sensors and Actuators B: Chemical</i> , 2007 , 128, 208-217	8.5	17

25	N-Channel field-effect transistors with floating gates for extracellular recordings. <i>Biosensors and Bioelectronics</i> , 2006 , 21, 1037-44	11.8	43
24	Cell-Transistor Hybrid Systems 2006 , 99-113		1
23	Towards Label-free Detection of Charged Macromolecules Using Field-effect-based Structures: Scaling Down from Capacitive EIS Sensor over ISFET to Nano-scale Devices. <i>Materials Research Society Symposia Proceedings</i> , 2006 , 915, 1		
22	A Semiconductor-based Field-effect Platform for (Bio-)Chemical and Physical sensors: From Capacitive EIS Sensors and LAPS over ISFETs to Nano-scale Devices. <i>Materials Research Society Symposia Proceedings</i> , 2006 , 952, 2		1
21	Single cell recordings with pairs of complementary transistors. <i>Applied Physics Letters</i> , 2006 , 89, 013901	3.4	15
20	Detection of DNA hybridization by a field-effect transistor with covalently attached catcher molecules. <i>Surface and Interface Analysis</i> , 2006 , 38, 176-181	1.5	36
19	Label-free detection of DNA using field-effect transistors. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2006 , 203, 3399-3411	1.6	39
18	Field-effect sensors for monitoring the layer-by-layer adsorption of charged macromolecules. <i>Sensors and Actuators B: Chemical</i> , 2006 , 118, 163-170	8.5	52
17	Surface activation of thin silicon oxides by wet cleaning and silanization. <i>Thin Solid Films</i> , 2006 , 510, 175-180	1.8	111
16	Recording of cell action potentials with AlGaIn/GaN field-effect transistors. <i>Applied Physics Letters</i> , 2005 , 86, 033901	3.4	107
15	Cell-transistor coupling: investigation of potassium currents recorded with p- and n-channel FETs. <i>Biophysical Journal</i> , 2005 , 89, 3628-38	2.9	53
14	Membrane on a chip: a functional tethered lipid bilayer membrane on silicon oxide surfaces. <i>Biophysical Journal</i> , 2005 , 89, 1780-8	2.9	160
13	Neuron-transistor coupling: interpretation of individual extracellular recorded signals. <i>European Biophysics Journal</i> , 2005 , 34, 144-54	1.9	47
12	Possibilities and limitations of label-free detection of DNA hybridization with field-effect-based devices. <i>Sensors and Actuators B: Chemical</i> , 2005 , 111-112, 470-480	8.5	207
11	Interfacing Biology with Electronic Devices. <i>Solid State Phenomena</i> , 2005 , 108-109, 789-796	0.4	2
10	AlGaIn/GaN Electrolyte-Gate Field-Effect Transistors as Transducers for Bioelectronic Devices. <i>Advances in Solid State Physics</i> , 2005 , 363-374		7
9	Electronic Detection of Nucleic Acid Molecules with a Field-Effect Transistor. <i>Materials Research Society Symposia Proceedings</i> , 2004 , 828, 276		2
8	Labelfree fully electronic nucleic acid detection system based on a field-effect transistor device. <i>Biosensors and Bioelectronics</i> , 2004 , 19, 1723-31	11.8	222

7	64-Channel extended gate electrode arrays for extracellular signal recording. <i>Electrochimica Acta</i> , 2003 , 48, 3355-3362	6.7	42
6	Backside contacted field effect transistor array for extracellular signal recording. <i>Biosensors and Bioelectronics</i> , 2003 , 18, 429-35	11.8	35
5	Cardiomyocyte-transistor-hybrids for sensor application. <i>Biosensors and Bioelectronics</i> , 2001 , 16, 565-70	11.8	88
4	Aligned microcontact printing of biomolecules on microelectronic device surfaces. <i>IEEE Transactions on Biomedical Engineering</i> , 2001 , 48, 838-42	5	38
3	Validation of the use of field effect transistors for extracellular signal recording in pharmacological bioassays. <i>Journal of Pharmacological and Toxicological Methods</i> , 2001 , 45, 207-14	1.7	44
2	Extended gate electrode arrays for extracellular signal recordings. <i>Sensors and Actuators B: Chemical</i> , 2000 , 70, 101-107	8.5	29
1	Investigation of extracellular signal shapes recorded by planar metal micro electrodes and field-effect transistors		1