

Janos Voros

List of Publications by Year in Descending Order

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Version: 2024-04-28

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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.

206
papers

13,350
citations

53
h-index

111
g-index

222
ext. papers

14,753
ext. citations

7.4
avg. IF

6.44
L-index

#	Paper	IF	Citations
206	Topologically controlled circuits of human iPSC-derived neurons for electrophysiology recordings.. <i>Lab on A Chip</i> , 2022 ,	7.2	2
205	Engineered Biological Neural Networks on High Density CMOS Microelectrode Arrays.. <i>Frontiers in Neuroscience</i> , 2022 , 16, 829884	5.1	2
204	An experimental paradigm to investigate stimulation dependent activity in topologically constrained neuronal networks.. <i>Biosensors and Bioelectronics</i> , 2021 , 201, 113896	11.8	3
203	An Approach for the Real-Time Quantification of Cytosolic Protein-Protein Interactions in Living Cells. <i>ACS Sensors</i> , 2021 , 6, 1572-1582	9.2	5
202	Sensing serotonin secreted from human serotonergic neurons using aptamer-modified nanopipettes. <i>Molecular Psychiatry</i> , 2021 , 26, 2753-2763	15.1	2
201	Stretchable and suturable fibre sensors for wireless monitoring of connective tissue strain. <i>Nature Electronics</i> , 2021 , 4, 291-301	28.4	30
200	Nonspecific Binding-Fundamental Concepts and Consequences for Biosensing Applications. <i>Chemical Reviews</i> , 2021 , 121, 8095-8160	68.1	25
199	Soft Electronics Based on Stretchable and Conductive Nanocomposites for Biomedical Applications. <i>Advanced Healthcare Materials</i> , 2021 , 10, e2001397	10.1	15
198	Ultra-Stable Molecular Sensors by Sub-Micron Referencing and Why They Should Be Interrogated by Optical Diffraction-Part I. The Concept of a Spatial Affinity Lock-in Amplifier. <i>Sensors</i> , 2021 , 21,	3.8	5
197	Aptamer Conformational Change Enables Serotonin Biosensing with Nanopipettes. <i>Analytical Chemistry</i> , 2021 , 93, 4033-4041	7.8	14
196	Investigating Complex Samples with Molograms of Low-Affinity Binders. <i>ACS Sensors</i> , 2021 , 6, 1067-1076.2	6.2	5
195	Total internal reflection focal molography (TIR-M). <i>Sensors and Actuators B: Chemical</i> , 2021 , 349, 1307468.5	6.5	2
194	Quantification of Molecular Interactions in Living Cells in Real Time using a Membrane Protein Nanopattern. <i>Analytical Chemistry</i> , 2020 , 92, 8983-8991	7.8	7
193	Visualizing and Analyzing 3D Metal Nanowire Networks for Stretchable Electronics. <i>Advanced Theory and Simulations</i> , 2020 , 3, 2000038	3.5	6
192	Image reversal reactive immersion lithography improves the detection limit of focal molography: erratum. <i>Optics Letters</i> , 2020 , 45, 918	3	1
191	Ultra Stable Molecular Sensors by Submicron Referencing and Why They Should Be Interrogated by Optical Diffraction-Part II. Experimental Demonstration. <i>Sensors</i> , 2020 , 21,	3.8	8
190	Integration of silver nanowires into SU-8 hollow cantilevers for piezoresistive-based sensing. <i>Sensors and Actuators A: Physical</i> , 2020 , 301, 111748	3.9	1

189	Theoretical and Experimental Investigation of Ligand-Induced Particle-Particle Interactions. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 1566-1574	3.8	1
188	Multiscale Additive Manufacturing of Metal Microstructures. <i>Advanced Engineering Materials</i> , 2020 , 22, 1900961	3.5	16
187	An analytical method to control the surface density and stability of DNA-gold nanoparticles for an optimized biosensor. <i>Colloids and Surfaces B: Biointerfaces</i> , 2020 , 187, 110650	6	14
186	Opto-E-Dura: A Soft, Stretchable ECoG Array for Multimodal, Multiscale Neuroscience. <i>Advanced Healthcare Materials</i> , 2020 , 9, e2000814	10.1	17
185	Continuous Heart Volume Monitoring by Fully Implantable Soft Strain Sensor. <i>Advanced Healthcare Materials</i> , 2020 , 9, e2000855	10.1	11
184	Force-Controlled Formation of Dynamic Nanopores for Single-Biomolecule Sensing and Single-Cell Secretomics. <i>ACS Nano</i> , 2020 , 14, 12993-13003	16.7	3
183	Principles for Sensitive and Robust Biomolecular Interaction Analysis: The Limits of Detection and Resolution of Diffraction-Limited Focal Molography. <i>Physical Review Applied</i> , 2019 , 11,	4.3	11
182	Establishing Force Spectroscopy with Lipid Vesicle Probes towards the Investigation of Membrane Fusion. <i>Biophysical Journal</i> , 2019 , 116, 366a-367a	2.9	
181	A Versatile Protein and Cell Patterning Method Suitable for Long-Term Neural Cultures. <i>Langmuir</i> , 2019 , 35, 2966-2975	4	6
180	Localized detection of ions and biomolecules with a force-controlled scanning nanopore microscope. <i>Nature Nanotechnology</i> , 2019 , 14, 791-798	28.7	31
179	Dark-Field Microwells toward High-Throughput Direct miRNA Sensing with Gold Nanoparticles. <i>ACS Sensors</i> , 2019 , 4, 1950-1956	9.2	16
178	SU-8 Micropipettes for Gentle Single-cell Manipulation. <i>Chimia</i> , 2019 , 73, 1033	1.3	1
177	Additive Manufacturing of Sub-Micron to Sub-mm Metal Structures with Hollow AFM Cantilevers. <i>Micromachines</i> , 2019 , 11,	3.3	12
176	Unsupervised data to content transformation with histogram-matching cycle-consistent generative adversarial networks. <i>Nature Machine Intelligence</i> , 2019 , 1, 461-470	22.5	13
175	Fast and Versatile Multiscale Patterning by Combining Template-Stripping with Nanotransfer Printing. <i>ACS Nano</i> , 2018 , 12, 2514-2520	16.7	21
174	High-Density Stretchable Electrode Grids for Chronic Neural Recording. <i>Advanced Materials</i> , 2018 , 30, e1706520	24	124
173	Multifunctional 3D electrode platform for real-time in situ monitoring and stimulation of cardiac tissues. <i>Biosensors and Bioelectronics</i> , 2018 , 112, 149-155	11.8	32
172	FluidFM: Development of the Instrument as well as Its Applications for 2D and 3D Lithography 2018 , 295-323		7

171	Skin Conformal Polymer Electrodes for Clinical ECG and EEG Recordings. <i>Advanced Healthcare Materials</i> , 2018 , 7, e1700994	10.1	95
170	Local Chemical Stimulation of Neurons with the Fluidic Force Microscope (FluidFM). <i>ChemPhysChem</i> , 2018 , 19, 1234-1244	3.2	5
169	Simple and Inexpensive Paper-Based Astrocyte Co-culture to Improve Survival of Low-Density Neuronal Networks. <i>Frontiers in Neuroscience</i> , 2018 , 12, 94	5.1	14
168	Force controlled SU-8 micropipettes fabricated with a sideways process. <i>Journal of Micromechanics and Microengineering</i> , 2018 , 28, 095015	2	3
167	Monolayer Graphene Coupled to a Flexible Plasmonic Nanograting for Ultrasensitive Strain Monitoring. <i>Small</i> , 2018 , 14, e1801187	11	18
166	Image reversal reactive immersion lithography improves the detection limit of focal molography. <i>Optics Letters</i> , 2018 , 43, 5801-5804	3	8
165	Predictive Model for the Electrical Transport within Nanowire Networks. <i>ACS Nano</i> , 2018 , 12, 11080-11087	17.7	38
164	Simultaneous scanning ion conductance and atomic force microscopy with a nanopore: Effect of the aperture edge on the ion current images. <i>Journal of Applied Physics</i> , 2018 , 124, 174902	2.5	10
163	A guide towards long-term functional electrodes interfacing neuronal tissue. <i>Journal of Neural Engineering</i> , 2018 , 15, 061001	5	22
162	Modular microstructure design to build neuronal networks of defined functional connectivity. <i>Biosensors and Bioelectronics</i> , 2018 , 122, 75-87	11.8	36
161	Soft Electronic Strain Sensor with Chipless Wireless Readout: Toward Real-Time Monitoring of Bladder Volume. <i>Advanced Materials Technologies</i> , 2018 , 3, 1800031	6.8	21
160	Improving FoRe: A New Inlet Design for Filtering Samples through Individual Microarray Spots. <i>ACS Sensors</i> , 2017 , 2, 339-345	9.2	4
159	Cell Adhesion on Dynamic Supramolecular Surfaces Probed by Fluid Force Microscopy-Based Single-Cell Force Spectroscopy. <i>ACS Nano</i> , 2017 , 11, 3867-3874	16.7	23
158	Soft Hydrogels Featuring In-Depth Surface Density Gradients for the Simple Establishment of 3D Tissue Models for Screening Applications. <i>SLAS Discovery</i> , 2017 , 22, 635-644	3.4	7
157	Focal molography is a new method for the in situ analysis of molecular interactions in biological samples. <i>Nature Nanotechnology</i> , 2017 , 12, 1089-1095	28.7	32
156	Easy to Apply Polyoxazoline-Based Coating for Precise and Long-Term Control of Neural Patterns. <i>Langmuir</i> , 2017 , 33, 8594-8605	4	25
155	Paper-based patterned 3D neural cultures as a tool to study network activity on multielectrode arrays. <i>RSC Advances</i> , 2017 , 7, 39359-39371	3.7	6
154	Trends in Epidermal Stretchable Electronics for Noninvasive Long-term Healthcare Applications. <i>International Journal of Automation and Smart Technology</i> , 2017 , 7, 37-52		8

153	Serial weighting of micro-objects with resonant microchanneled cantilevers. <i>Nanotechnology</i> , 2016 , 27, 415502	3.4	5
152	Brains on a chip—Towards engineered neural networks. <i>TrAC - Trends in Analytical Chemistry</i> , 2016 , 78, 60-69	14.6	36
151	Controlled single-cell deposition and patterning by highly flexible hollow cantilevers. <i>Lab on A Chip</i> , 2016 , 16, 1663-74	7.2	16
150	Template-Free 3D Microprinting of Metals Using a Force-Controlled Nanopipette for Layer-by-Layer Electrodeposition. <i>Advanced Materials</i> , 2016 , 28, 2311-5	24	101
149	Multilayer Patterning of High Resolution Intrinsically Stretchable Electronics. <i>Scientific Reports</i> , 2016 , 6, 25641	4.9	27
148	Quantifying the effect of electric current on cell adhesion studied by single-cell force spectroscopy. <i>Biointerphases</i> , 2016 , 11, 011004	1.8	23
147	Fast and Efficient Fabrication of Intrinsically Stretchable Multilayer Circuit Boards by Wax Pattern Assisted Filtration. <i>Small</i> , 2016 , 12, 180-4	11	53
146	SU-8 hollow cantilevers for AFM cell adhesion studies. <i>Journal of Micromechanics and Microengineering</i> , 2016 , 26, 055006	2	23
145	Femtomolar oligonucleotide detection by a one-step gold nanoparticle-based assay. <i>Colloids and Surfaces B: Biointerfaces</i> , 2015 , 135, 193-200	6	9
144	Local surface modification via confined electrochemical deposition with FluidFM. <i>RSC Advances</i> , 2015 , 5, 84517-84522	3.7	26
143	Location-specific nanoplasmonic sensing of biomolecular binding to lipid membranes with negative curvature. <i>Nanoscale</i> , 2015 , 7, 15080-5	7.7	22
142	Iodide sensing via electrochemical etching of ultrathin gold films. <i>Nanotechnology</i> , 2015 , 26, 025202	3.4	8
141	Patterning gold nanoparticles in liquid environment with high ionic strength for local fabrication of up to 100 nm long metallic interconnections. <i>Nanotechnology</i> , 2015 , 26, 175301	3.4	5
140	Stretchable Silver Nanowire-Elastomer Composite Microelectrodes with Tailored Electrical Properties. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 13467-75	9.5	63
139	Controlling cell migration and adhesion into a scaffold by external electric currents. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2015 , 2015, 3549-52	0.9	1
138	Simultaneous Scanning Ion Conductance Microscopy and Atomic Force Microscopy with Microchanneled Cantilevers. <i>Physical Review Letters</i> , 2015 , 115, 238103	7.4	23
137	Biomaterials. Electronic dura mater for long-term multimodal neural interfaces. <i>Science</i> , 2015 , 347, 159-63	9.3	64
136	Force-controlled patch clamp of beating cardiac cells. <i>Nano Letters</i> , 2015 , 15, 1743-50	11.5	47

135	Stretchable electronics based on Ag-PDMS composites. <i>Scientific Reports</i> , 2014 , 4, 7254	4.9	170
134	Coagulation at the blood-electrode interface: the role of electrochemical desorption and degradation of fibrinogen. <i>Langmuir</i> , 2014 , 30, 7227-34	4	0
133	The entropy of water in swelling PGA/PAH polyelectrolyte multilayers. <i>Soft Matter</i> , 2014 , 10, 688-93	3.6	8
132	Tuning the electrochemical swelling of polyelectrolyte multilayers toward nanoactuation. <i>Langmuir</i> , 2014 , 30, 12057-66	4	10
131	Local polymer replacement for neuron patterning and in situ neurite guidance. <i>Langmuir</i> , 2014 , 30, 7037-46	4.6	27
130	Twist on protein microarrays: layering wax-patterned nitrocellulose to create customizable and separable arrays of multiplexed affinity columns. <i>Analytical Chemistry</i> , 2014 , 86, 4209-16	7.8	9
129	Electrochemical control of the enzymatic polymerization of PEG hydrogels: formation of spatially controlled biological microenvironments. <i>Advanced Healthcare Materials</i> , 2014 , 3, 508-14	10.1	12
128	Label-free detection of cell-contractile activity with lipid nanotubes. <i>Integrative Biology (United Kingdom)</i> , 2013 , 5, 423-30	3.7	6
127	Exchangeable colloidal AFM probes for the quantification of irreversible and long-term interactions. <i>Biophysical Journal</i> , 2013 , 105, 463-72	2.9	31
126	Switching transport through nanopores with pH-responsive polymer brushes for controlled ion permeability. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 1400-7	9.5	78
125	FluidFM as a lithography tool in liquid: spatially controlled deposition of fluorescent nanoparticles. <i>Nanoscale</i> , 2013 , 5, 1097-104	7.7	34
124	Simultaneous electrical and plasmonic monitoring of potential induced ion adsorption on metal nanowire arrays. <i>Nanoscale</i> , 2013 , 5, 4966-75	7.7	13
123	Ion-induced cell sheet detachment from standard cell culture surfaces coated with polyelectrolytes. <i>Biomaterials</i> , 2012 , 33, 3421-7	15.6	48
122	Simultaneous OWLS and EIS monitoring of supported lipid bilayers with the pore forming peptide melittin. <i>Sensors and Actuators B: Chemical</i> , 2012 , 161, 600-606	8.5	15
121	Electrochemical plasmonic sensors. <i>Analytical and Bioanalytical Chemistry</i> , 2012 , 402, 1773-84	4.4	61
120	Nanoplasmonic sensing of metal-halide complex formation and the electric double layer capacitor. <i>Nanoscale</i> , 2012 , 4, 2339-51	7.7	47
119	High-resolution resistless nanopatterning on polymer and flexible substrates for plasmonic biosensing using stencil masks. <i>ACS Nano</i> , 2012 , 6, 5474-81	16.7	53
118	A universal method for planar lipid bilayer formation by freeze and thaw. <i>Soft Matter</i> , 2012 , 8, 5525	3.6	20

117	Electrochemically driven delivery to cells from vesicles embedded in polyelectrolyte multilayers. <i>Soft Matter</i> , 2012 , 8, 3641	3.6	21
116	Electrically induced lipid migration in non-lamellar phase. <i>Journal of Colloid and Interface Science</i> , 2012 , 386, 421-7	9.3	1
115	Effect of polyelectrolyte interdiffusion on electron transport in redox-active polyelectrolyte multilayers. <i>Journal of Materials Chemistry</i> , 2012 , 22, 11073		34
114	Directed self-assembly of lipid nanotubes from inverted hexagonal structures. <i>ACS Nano</i> , 2012 , 6, 6626-32.7	16.7	19
113	Metallic nanodot arrays by stencil lithography for plasmonic biosensing applications. <i>ACS Nano</i> , 2011 , 5, 844-53	16.7	75
112	From nanodroplets to continuous films: how the morphology of polyelectrolyte multilayers depends on the dielectric permittivity and the surface charge of the supporting substrate. <i>Soft Matter</i> , 2011 , 7, 3861	3.6	17
111	Review of transducer principles for label-free biomolecular interaction analysis. <i>Biosensors</i> , 2011 , 1, 70-92.9	3.9	76
110	Engineering 3D cell instructive microenvironments by rational assembly of artificial extracellular matrices and cell patterning. <i>Integrative Biology (United Kingdom)</i> , 2011 , 3, 1102-11	3.7	47
109	Conformational changes of calmodulin on calcium and Peptide binding monitored by film bulk acoustic resonators. <i>Biosensors</i> , 2011 , 1, 164-76	5.9	1
108	Single plasmonic nanoparticles for biosensing. <i>Trends in Biotechnology</i> , 2011 , 29, 343-51	15.1	89
107	Electrochemically switchable platform for the micro-patterning and release of heterotypic cell sheets. <i>Biomedical Microdevices</i> , 2011 , 13, 221-30	3.7	42
106	Electrical microcurrent to prevent conditioning film and bacterial adhesion to urological stents. <i>Urological Research</i> , 2011 , 39, 81-8		23
105	Electrochemically Stimulated Release from Liposomes Embedded in a Polyelectrolyte Multilayer. <i>Advanced Functional Materials</i> , 2011 , 21, 1666-1672	15.6	27
104	Layer-by-layer films made from extracellular matrix macromolecules on silicone substrates. <i>Biomacromolecules</i> , 2011 , 12, 609-16	6.9	52
103	Techniques for recording reconstituted ion channels. <i>Analyst, The</i> , 2011 , 136, 1077-89	5	43
102	Electrochemical crystallization of plasmonic nanostructures. <i>Nano Letters</i> , 2011 , 11, 1337-43	11.5	43
101	Spontaneous formation of a vesicle multilayer on top of an exponentially growing polyelectrolyte multilayer mediated by diffusing poly-L-lysine. <i>Journal of Physical Chemistry B</i> , 2011 , 115, 12386-91	3.4	14
100	Microarrays made easy: biofunctionalized hydrogel channels for rapid protein microarray production. <i>ACS Applied Materials & Interfaces</i> , 2011 , 3, 50-7	9.5	8

99	Fluorescent vesicles for signal amplification in reverse phase protein microarray assays. <i>Analytical Biochemistry</i> , 2011 , 416, 145-51	3.1	7
98	pH-controlled recovery of placenta-derived mesenchymal stem cell sheets. <i>Biomaterials</i> , 2011 , 32, 4376-84	3.6	68
97	Comparison of FBAR and QCM-D sensitivity dependence on adlayer thickness and viscosity. <i>Sensors and Actuators A: Physical</i> , 2011 , 165, 415-421	3.9	34
96	Controlled in situ nanoscale enhancement of gold nanowire arrays with plasmonics. <i>Nanotechnology</i> , 2011 , 22, 055203	3.4	4
95	Force-controlled spatial manipulation of viable mammalian cells and micro-organisms by means of FluidFM technology. <i>Applied Physics Letters</i> , 2010 , 97, 023701	3.4	63
94	Optical sensing and determination of complex reflection coefficients of plasmonic structures using transmission interferometric plasmonic sensor. <i>Review of Scientific Instruments</i> , 2010 , 81, 053102	1.7	20
93	Simultaneous refractive index and thickness measurement with the transmission interferometric adsorption sensor. <i>Journal Physics D: Applied Physics</i> , 2010 , 43, 405302	3	14
92	Optical sensing with simultaneous electrochemical control in metal nanowire arrays. <i>Sensors</i> , 2010 , 10, 9808-30	3.8	15
91	Global and local view on the electrochemically induced degradation of polyelectrolyte multilayers: from dissolution to delamination. <i>Soft Matter</i> , 2010 , 6, 4246	3.6	23
90	Zirconium ion mediated formation of liposome multilayers. <i>Langmuir</i> , 2010 , 26, 10995-1002	4	11
89	The resistance of polyelectrolyte multilayers in a free-hanging configuration. <i>Journal of Physical Chemistry B</i> , 2010 , 114, 13982-7	3.4	6
88	Ion and solvent exchange processes in PGA/PAH polyelectrolyte multilayers containing ferrocyanide. <i>Journal of Physical Chemistry B</i> , 2010 , 114, 3759-68	3.4	30
87	A gigaseal obtained with a self-assembled long-lifetime lipid bilayer on a single polyelectrolyte multilayer-filled nanopore. <i>ACS Nano</i> , 2010 , 4, 5047-54	16.7	33
86	Chemically tunable electrochemical dissolution of noncontinuous polyelectrolyte assemblies: an in situ study using ecAFM. <i>ACS Applied Materials & Interfaces</i> , 2010 , 2, 3525-31	9.5	4
85	Electrochemistry on a localized surface plasmon resonance sensor. <i>Langmuir</i> , 2010 , 26, 7619-26	4	63
84	Enzyme mediated site-specific surface modification. <i>Langmuir</i> , 2010 , 26, 11127-34	4	17
83	Multilayers of hydrogels loaded with microparticles: a fast and simple approach for microarray manufacturing. <i>Lab on A Chip</i> , 2010 , 10, 372-8	7.2	6
82	Swelling of electrochemically active polyelectrolyte multilayers. <i>Current Opinion in Colloid and Interface Science</i> , 2010 , 15, 427-434	7.6	29

81	Non-toxic dry-coated nanosilver for plasmonic biosensors. <i>Advanced Functional Materials</i> , 2010 , 20, 4250-4257	15.6	3
80	Non-Toxic Dry-Coated Nanosilver for Plasmonic Biosensors. <i>Advanced Functional Materials</i> , 2010 , 20, 4249-4249	15.6	3
79	Engineering the extracellular environment: Strategies for building 2D and 3D cellular structures. <i>Advanced Materials</i> , 2010 , 22, 5443-62	24	133
78	Photobleaching induced damage of biomolecules: Streptavidin as BioPhotoresist. <i>Surface Science</i> , 2010 , 604, 898-905	1.8	1
77	Effects of small pulsed nanocurrents on cell viability in vitro and in vivo: implications for biomedical electrodes. <i>Biomaterials</i> , 2010 , 31, 8666-73	15.6	3
76	Electrically controlling cell adhesion, growth and migration. <i>Colloids and Surfaces B: Biointerfaces</i> , 2010 , 79, 365-71	6	15
75	Liposome and lipid bilayer arrays towards biosensing applications. <i>Small</i> , 2010 , 6, 2481-97	11	175
74	Engineered polyelectrolyte multilayer substrates for adhesion, proliferation, and differentiation of human mesenchymal stem cells. <i>Tissue Engineering - Part A</i> , 2009 , 15, 2977-90	3.9	63
73	Shape-dependent sensitivity of single plasmonic nanoparticles for biosensing. <i>Journal of Biomedical Optics</i> , 2009 , 14, 064027	3.5	18
72	G-protein coupled receptor array technologies: site directed immobilisation of liposomes containing the H1-histamine or M2-muscarinic receptors. <i>Proteomics</i> , 2009 , 9, 2052-63	4.8	28
71	A microwell array platform for picoliter membrane protein assays. <i>Small</i> , 2009 , 5, 1070-7	11	12
70	Biosensing by densely packed and optically coupled plasmonic particle arrays. <i>Small</i> , 2009 , 5, 1889-96	11	44
69	Nanoscale dispensing in liquid environment of streptavidin on a biotin-functionalized surface using hollow atomic force microscopy probes. <i>Microelectronic Engineering</i> , 2009 , 86, 1481-1484	2.5	18
68	Film bulk acoustic resonators for DNA and protein detection and investigation of in vitro bacterial S-layer formation. <i>Sensors and Actuators A: Physical</i> , 2009 , 156, 180-184	3.9	69
67	Microarray spotting of nanoparticles. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2009 , 346, 61-65	5.1	6
66	Particle flow assays for fluorescent protein microarray applications. <i>Biosensors and Bioelectronics</i> , 2009 , 24, 1195-200	11.8	8
65	Nanosystems Design and Technology 2009 ,		7
64	Strain mapping with optically coupled plasmonic particles embedded in a flexible substrate. <i>Optics Letters</i> , 2009 , 34, 2009-11	3	26

63	FluidFM: combining atomic force microscopy and nanofluidics in a universal liquid delivery system for single cell applications and beyond. <i>Nano Letters</i> , 2009 , 9, 2501-7	11.5	264
62	Electrochemical tuning of the stability of PLL/DNA multilayers. <i>Soft Matter</i> , 2009 , 5, 2415	3.6	39
61	Nanoscale labels: nanoparticles and liposomes in the development of high-performance biosensors. <i>Nanomedicine</i> , 2009 , 4, 447-67	5.6	41
60	Measuring cell adhesion forces during the cell cycle by force spectroscopy. <i>Biointerphases</i> , 2009 , 4, 27-34.8	4.8	35
59	Nanowire Development and Characterization for Applications in Biosensing 2009 , 143-173		7
58	Influence of applied currents on the viability of cells close to microelectrodes. <i>Integrative Biology (United Kingdom)</i> , 2009 , 1, 108-15	3.7	26
57	Formation of supported lipid bilayers on indium tin oxide for dynamically-patterned membrane-functionalized microelectrode arrays. <i>Lab on A Chip</i> , 2009 , 9, 718-25	7.2	28
56	Symmetry Decomposed Multiple Multipole Program Calculation of Plasmonic Particles on Substrate for Biosensing Applications. <i>Journal of Computational and Theoretical Nanoscience</i> , 2009 , 6, 749-756	0.3	10
55	Electrochemical Biosensors - Sensor Principles and Architectures. <i>Sensors</i> , 2008 , 8, 1400-1458	3.8	524
54	In situ sensing of single binding events by localized surface plasmon resonance. <i>Nano Letters</i> , 2008 , 8, 3450-5	11.5	124
53	Mannose-based molecular patterns on stealth microspheres for receptor-specific targeting of human antigen-presenting cells. <i>Langmuir</i> , 2008 , 24, 11790-802	4	51
52	Swelling and contraction of ferrocyanide-containing polyelectrolyte multilayers upon application of an electric potential. <i>Langmuir</i> , 2008 , 24, 13668-76	4	54
51	Vesicles for Signal Amplification in a Biosensor for the Detection of Low Antigen Concentrations. <i>Sensors</i> , 2008 , 8, 7894-7903	3.8	16
50	Polyelectrolyte Coatings with a Potential for Electronic Control and Cell Sheet Engineering. <i>Advanced Materials</i> , 2008 , 20, 560-565	24	92
49	Binding and direct electrochemistry of OmcA, an outer-membrane cytochrome from an iron reducing bacterium, with oxide electrodes: A candidate biofuel cell system. <i>Inorganica Chimica Acta</i> , 2008 , 361, 769-777	2.7	65
48	Electrochemical Biosensors - Sensor Principles and Architectures. <i>Sensors</i> , 2008 , 8, 1400-1458	3.8	1160
47	Functionalizable Nanomorphology Gradients via Colloidal Self-Assembly. <i>Langmuir</i> , 2007 , 23, 5929-35	4	50
46	Systematic study of osteoblast response to nanotopography by means of nanoparticle-density gradients. <i>Biomaterials</i> , 2007 , 28, 5000-6	15.6	148

45	Nanopatterning of gold colloids for label-free biosensing. <i>Nanotechnology</i> , 2007 , 18, 155306	3.4	36
44	Enzymatic Biosensors towards a Multiplexed Electronic Detection System for Early Cancer Diagnostics 2007 ,		2
43	Nitrilotriacetic Acid Functionalized Graft Copolymers: A Polymeric Interface for Selective and Reversible Binding of Histidine-Tagged Proteins. <i>Advanced Functional Materials</i> , 2006 , 16, 243-251	15.6	104
42	Nanopatterns with biological functions. <i>Journal of Nanoscience and Nanotechnology</i> , 2006 , 6, 2237-64	1.3	88
41	Electrically-Assisted Formation and Desorption of Dodecyl Phosphate Self-Assembled Monolayers on Indium Tin Oxide Surfaces. <i>ECS Transactions</i> , 2006 , 1, 29-43	1	
40	Enhanced optical waveguide light mode spectroscopy via detection of fluorophore absorbance. <i>Review of Scientific Instruments</i> , 2006 , 77, 103105	1.7	2
39	Adhesion of polyelectrolyte microcapsules through biotin-streptavidin specific interaction. <i>Biomacromolecules</i> , 2006 , 7, 2331-6	6.9	14
38	Light-induced in situ patterning of DNA-tagged biomolecules and nanoparticles. <i>IEEE Transactions on Nanobioscience</i> , 2006 , 5, 215-9	3.4	7
37	Phagocytosis of poly(L-lysine)-graft-poly(ethylene glycol) coated microspheres by antigen presenting cells: Impact of grafting ratio and poly(ethylene glycol) chain length on cellular recognition. <i>Biointerphases</i> , 2006 , 1, 123-33	1.8	25
36	Poly(L-lysine)-grafted-poly(ethylene glycol)-based surface-chemical gradients. Preparation, characterization, and first applications. <i>Biointerphases</i> , 2006 , 1, 156-65	1.8	38
35	Creation of a functional heterogeneous vesicle array via DNA controlled surface sorting onto a spotted microarray. <i>Biointerphases</i> , 2006 , 1, 142-5	1.8	24
34	Use of PLL-g-PEG in micro-fluidic devices for localizing selective and specific protein binding. <i>Langmuir</i> , 2006 , 22, 10103-8	4	55
33	Optical microarray biosensing techniques. <i>Surface and Interface Analysis</i> , 2006 , 38, 1442-1458	1.5	154
32	Waveguide excitation fluorescence microscopy: a new tool for sensing and imaging the biointerface. <i>Biosensors and Bioelectronics</i> , 2006 , 21, 1476-82	11.8	77
31	Adsorption and electrically stimulated desorption of the triblock copolymer poly(propylene sulfide)- <i>b</i> -poly(ethylene glycol) (PPS- <i>b</i> -PEG) from indium tin oxide (ITO) surfaces. <i>Surface Science</i> , 2006 , 600, 1510-1517	1.8	11
30	A novel crossed microfluidic device for the precise positioning of proteins and vesicles. <i>Lab on A Chip</i> , 2005 , 5, 1387-92	7.2	33
29	Effects of ionic strength and surface charge on protein adsorption at PEGylated surfaces. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 17545-52	3.4	259
28	Selective molecular assembly patterning at the nanoscale: a novel platform for producing protein patterns by electron-beam lithography on SiO ₂ /indium tin oxide-coated glass substrates. <i>Nanotechnology</i> , 2005 , 16, 1781-1786	3.4	39

27	Protein resistance of titanium oxide surfaces modified by biologically inspired mPEG-DOPA. <i>Langmuir</i> , 2005 , 21, 640-6	4	397
26	An aqueous-based surface modification of poly(dimethylsiloxane) with poly(ethylene glycol) to prevent biofouling. <i>Langmuir</i> , 2005 , 21, 11957-62	4	129
25	Bioactive Patterns at the 100-nm Scale Produced Using Multifunctional Physisorbed Monolayers. <i>MRS Bulletin</i> , 2005 , 30, 202-206	3.2	33
24	Locally Addressable Electrochemical Patterning Technique (LAEPT) applied to poly(L-lysine)-graft-poly(ethylene glycol) adlayers on titanium and silicon oxide surfaces. <i>Biotechnology and Bioengineering</i> , 2005 , 91, 285-95	4.9	21
23	Biofunctional Polyelectrolyte Multilayers and Microcapsules: Control of Non-Specific and Bio-Specific Protein Adsorption. <i>Advanced Functional Materials</i> , 2005 , 15, 357-366	15.6	152
22	Self-assembly of functionalized spherical nanoparticles on chemically patterned microstructures. <i>Nanotechnology</i> , 2005 , 16, 3045-3052	3.4	23
21	Immobilization of the enzyme beta-lactamase on biotin-derivatized poly(L-lysine)-g-poly(ethylene glycol)-coated sensor chips: a study on oriented attachment and surface activity by enzyme kinetics and in situ optical sensing. <i>Langmuir</i> , 2004 , 20, 10464-73	4	63
20	Micropatterning of DNA-tagged vesicles. <i>Langmuir</i> , 2004 , 20, 11348-54	4	85
19	Bovine serum albumin adsorption onto colloidal Al ₂ O ₃ particles: a new model based on zeta potential and UV-vis measurements. <i>Langmuir</i> , 2004 , 20, 10055-61	4	267
18	Interaction of poly(L-lysine)-g-poly(ethylene glycol) with supported phospholipid bilayers. <i>Biophysical Journal</i> , 2004 , 87, 1711-21	2.9	38
17	The density and refractive index of adsorbing protein layers. <i>Biophysical Journal</i> , 2004 , 87, 553-61	2.9	580
16	Improved stimulation of human dendritic cells by receptor engagement with surface-modified microparticles. <i>Journal of Drug Targeting</i> , 2003 , 11, 11-8	5.4	53
15	Boundary Lubrication of Oxide Surfaces by Poly(L-lysine)-g-poly(ethylene glycol) (PLL-g-PEG) in Aqueous Media. <i>Tribology Letters</i> , 2003 , 15, 231-239	2.8	118
14	Ligand-specific targeting of microspheres to phagocytes by surface modification with poly(L-lysine)-grafted poly(ethylene glycol) conjugate. <i>Pharmaceutical Research</i> , 2003 , 20, 237-46	4.5	97
13	Electrochemical optical waveguide lightmode spectroscopy (EC-OWLS): a pilot study using evanescent-field optical sensing under voltage control to monitor polycationic polymer adsorption onto indium tin oxide (ITO)-coated waveguide chips. <i>Biotechnology and Bioengineering</i> , 2003 , 82, 465-73	4.9	63
12	RGD-grafted poly-L-lysine-graft-(polyethylene glycol) copolymers block non-specific protein adsorption while promoting cell adhesion. <i>Biotechnology and Bioengineering</i> , 2003 , 82, 784-90	4.9	281
11	Chemically patterned, metal-oxide-based surfaces produced by photolithographic techniques for studying protein- and cell-interactions. II: Protein adsorption and early cell interactions. <i>Biomaterials</i> , 2003 , 24, 1147-58	15.6	100
10	Poly(L-lysine)-graft-poly(ethylene glycol) Assembled Monolayers on Niobium Oxide Surfaces: A Quantitative Study of the Influence of Polymer Interfacial Architecture on Resistance to Protein Adsorption by ToF-SIMS and in Situ OWLS. <i>Langmuir</i> , 2003 , 19, 9216-9225	4	356

9	A comparative study of protein adsorption on titanium oxide surfaces using in situ ellipsometry, optical waveguide lightmode spectroscopy, and quartz crystal microbalance/dissipation. <i>Colloids and Surfaces B: Biointerfaces</i> , 2002 , 24, 155-170	6	565
8	Optical grating coupler biosensors. <i>Biomaterials</i> , 2002 , 23, 3699-710	15.6	332
7	Biotin-Derivatized Poly(l-lysine)-g-poly(ethylene glycol): A Novel Polymeric Interface for Bioaffinity Sensing. <i>Langmuir</i> , 2002 , 18, 220-230	4	231
6	Effect of patterns and inhomogeneities on the surface of waveguides used for optical waveguide lightmode spectroscopy applications. <i>Applied Physics B: Lasers and Optics</i> , 2001 , 72, 441-447	1.9	31
5	Influence of polymer surface chemistry on frictional properties under protein-lubrication conditions: implications for hip-implant design. <i>Tribology Letters</i> , 2001 , 10, 111-116	2.8	97
4	Poly(l-lysine)-g-poly(ethylene glycol) Layers on Metal Oxide Surfaces: Surface-Analytical Characterization and Resistance to Serum and Fibrinogen Adsorption. <i>Langmuir</i> , 2001 , 17, 489-498	4	456
3	Feasibility study of an online toxicological sensor based on the optical waveguide technique. <i>Biosensors and Bioelectronics</i> , 2000 , 15, 423-9	11.8	44
2	Poly(l-lysine)-g-Poly(ethylene glycol) Layers on Metal Oxide Surfaces: Attachment Mechanism and Effects of Polymer Architecture on Resistance to Protein Adsorption. <i>Journal of Physical Chemistry B</i> , 2000 , 104, 3298-3309	3.4	573
1	Phosphorylcholine-containing polyurethanes for the control of protein adsorption and cell attachment via photoimmobilized laminin oligopeptides. <i>Journal of Biomaterials Science, Polymer Edition</i> , 1999 , 10, 931-55	3.5	34