

Philippe Renaud

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275
papers

13,392
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57
h-index

107
g-index

294
ext. papers

15,003
ext. citations

5.9
avg, IF

6.46
L-index

#	Paper	IF	Citations
275	Transport phenomena in nanofluidics. <i>Reviews of Modern Physics</i> , 2008 , 80, 839-883	40.5	1343
274	SU-8: a low-cost negative resist for MEMS. <i>Journal of Micromechanics and Microengineering</i> , 1997 , 7, 121-124		823
273	Micromachined impedance spectroscopy flow cytometer for cell analysis and particle sizing. <i>Lab on A Chip</i> , 2001 , 1, 76-82	7.2	478
272	High-aspect-ratio, ultrathick, negative-tone near-UV photoresist and its applications for MEMS. <i>Sensors and Actuators A: Physical</i> , 1998 , 64, 33-39	3.9	413
271	Ionic transport phenomena in nanofluidics: experimental and theoretical study of the exclusion-enrichment effect on a chip. <i>Nano Letters</i> , 2005 , 5, 1147-55	11.5	299
270	Impedance spectroscopy flow cytometry: on-chip label-free cell differentiation. <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , 2005 , 65, 124-32	4.6	289
269	Dielectric spectroscopy in a micromachined flow cytometer: theoretical and practical considerations. <i>Lab on A Chip</i> , 2004 , 4, 241-51	7.2	231
268	A three-dimensional multi-electrode array for multi-site stimulation and recording in acute brain slices. <i>Journal of Neuroscience Methods</i> , 2002 , 114, 135-48	3	225
267	Wireless contact lens sensor for intraocular pressure monitoring: assessment on enucleated pig eyes. <i>Acta Ophthalmologica</i> , 2009 , 87, 433-7	3.7	217
266	Microdrop printing of hydrogel bioinks into 3D tissue-like geometries. <i>Advanced Materials</i> , 2012 , 24, 391-6	24	197
265	Observation of spin-polarized-electron tunneling from a ferromagnet into GaAs. <i>Physical Review Letters</i> , 1992 , 68, 1387-1390	7.4	196
264	Ion transport through nanoslits dominated by the effective surface charge. <i>Applied Physics Letters</i> , 2005 , 86, 253111	3.4	192
263	Flexible polyimide microelectrode array for in vivo recordings and current source density analysis. <i>Biosensors and Bioelectronics</i> , 2007 , 22, 1783-90	11.8	172
262	First steps toward noninvasive intraocular pressure monitoring with a sensing contact lens. <i>Investigative Ophthalmology and Visual Science</i> , 2004 , 45, 3113-7		169
261	Static micromixers based on large-scale industrial mixer geometry. <i>Lab on A Chip</i> , 2001 , 1, 56-60	7.2	163
260	Polyimide-based microfluidic devices. <i>Lab on A Chip</i> , 2001 , 1, 29-34	7.2	153
259	Optimization of microfluidic single cell trapping for long-term on-chip culture. <i>Lab on A Chip</i> , 2010 , 10, 857-63	7.2	146

258	Fabrication of photoplastic high-aspect ratio microparts and micromolds using SU-8 UV resist. <i>Microsystem Technologies</i> , 1998 , 4, 143-146	1.7	143
257	Flexible polyimide probes with microelectrodes and embedded microfluidic channels for simultaneous drug delivery and multi-channel monitoring of bioelectric activity. <i>Biosensors and Bioelectronics</i> , 2004 , 19, 1309-18	11.8	135
256	Migration dynamics of breast cancer cells in a tunable 3D interstitial flow chamber. <i>Integrative Biology (United Kingdom)</i> , 2012 , 4, 401-9	3.7	132
255	3D microfabrication by combining microstereolithography and thick resist UV lithography. <i>Sensors and Actuators A: Physical</i> , 1999 , 73, 14-23	3.9	130
254	Mechanical characterization of a new high-aspect-ratio near UV-photoresist. <i>Microelectronic Engineering</i> , 1998 , 41-42, 371-374	2.5	128
253	Microfabrication of ceramic components by microstereolithography. <i>Journal of Micromechanics and Microengineering</i> , 2004 , 14, 197-203	2	127
252	Rapid prototyping of small size objects. <i>Rapid Prototyping Journal</i> , 2000 , 6, 259-266	3.8	127
251	Micropatterning neural cell cultures in 3D with a multi-layered scaffold. <i>Biomaterials</i> , 2011 , 32, 2088-98	15.6	120
250	Characterization and optimization of liquid electrodes for lateral dielectrophoresis. <i>Lab on A Chip</i> , 2007 , 7, 355-65	7.2	117
249	Demonstration of cortical recording using novel flexible polymer neural probes. <i>Sensors and Actuators A: Physical</i> , 2008 , 143, 90-96	3.9	112
248	Continuous separation of cells by balanced dielectrophoretic forces at multiple frequencies. <i>Lab on A Chip</i> , 2008 , 8, 280-6	7.2	110
247	Microfluidic assisted self-assembly of chitosan based nanoparticles as drug delivery agents. <i>Lab on A Chip</i> , 2013 , 13, 204-7	7.2	106
246	A unified approach to dielectric single cell analysis: impedance and dielectrophoretic force spectroscopy. <i>Lab on A Chip</i> , 2010 , 10, 2216-25	7.2	105
245	Effect of the surface charge on ion transport through nanoslits. <i>Physics of Fluids</i> , 2005 , 17, 100604	4.4	101
244	Separation of platelets from other blood cells in continuous-flow by dielectrophoresis field-flow-fractionation. <i>Biomicrofluidics</i> , 2011 , 5, 34122-341228	3.2	98
243	Focusing and continuous separation of cells in a microfluidic device using lateral dielectrophoresis. <i>Sensors and Actuators B: Chemical</i> , 2008 , 132, 388-396	8.5	98
242	In vivo electrical impedance spectroscopy of tissue reaction to microelectrode arrays. <i>IEEE Transactions on Biomedical Engineering</i> , 2009 , 56, 1909-18	5	93
241	The generation of rhythmic activity in dissociated cultures of rat spinal cord. <i>European Journal of Neuroscience</i> , 2001 , 14, 191-202	3.5	91

240	Polyimide and SU-8 microfluidic devices manufactured by heat-depolymerizable sacrificial material technique. <i>Lab on A Chip</i> , 2004 , 4, 114-20	7.2	90
239	Conductive SU8 Photoresist for Microfabrication. <i>Advanced Functional Materials</i> , 2005 , 15, 1511-1516	15.6	89
238	Spatiotemporal characterization of rhythmic activity in rat spinal cord slice cultures. <i>European Journal of Neuroscience</i> , 2001 , 14, 179-90	3.5	89
237	Buried microchannels in photopolymer for delivering of solutions to neurons in a network. <i>Sensors and Actuators B: Chemical</i> , 1998 , 48, 356-361	8.5	84
236	On-Chip Fabrication of Paclitaxel-Loaded Chitosan Nanoparticles for Cancer Therapeutics. <i>Advanced Functional Materials</i> , 2014 , 24, 432-441	15.6	82
235	A novel approach to dielectrophoresis using carbon electrodes. <i>Electrophoresis</i> , 2011 , 32, 2385-92	3.6	80
234	Advances in the design of macroporous polymer scaffolds for potential applications in dentistry. <i>Journal of Periodontal and Implant Science</i> , 2013 , 43, 251-61	2	78
233	Cell immersion and cell dipping in microfluidic devices. <i>Lab on A Chip</i> , 2004 , 4, 148-51	7.2	77
232	Gentle cell trapping and release on a microfluidic chip by in situ alginate hydrogel formation. <i>Lab on A Chip</i> , 2005 , 5, 553-9	7.2	76
231	Conducting polymer microactuators operating in air. <i>Journal of Micromechanics and Microengineering</i> , 2009 , 19, 025017	2	71
230	Controlled release nanoparticle-embedded coatings reduce the tissue reaction to neuroprostheses. <i>Journal of Controlled Release</i> , 2010 , 145, 196-202	11.7	71
229	CMOS compatible fully integrated Mach-Zehnder interferometer in SOI technology. <i>IEEE Photonics Technology Letters</i> , 2000 , 12, 660-662	2.2	70
228	pH-controlled diffusion of proteins with different pI values across a nanochannel on a chip. <i>Nano Letters</i> , 2006 , 6, 543-7	11.5	67
227	A miniaturized continuous dielectrophoretic cell sorter and its applications. <i>Biomicrofluidics</i> , 2010 , 4,	3.2	64
226	Development of a microfluidics biosensor for agarose-bead immobilized Escherichia coli bioreporter cells for arsenite detection in aqueous samples. <i>Lab on A Chip</i> , 2011 , 11, 2369-77	7.2	63
225	Mapping quantum-well energy profiles of III-V heterostructures by scanning-tunneling-microscope-excited luminescence. <i>Physical Review B</i> , 1991 , 44, 6340-6343	3.3	63
224	Facile fabrication of nanofluidic diode membranes using anodic aluminium oxide. <i>Nanoscale</i> , 2012 , 4, 5718-23	7.7	62
223	Microfluidic synthesis of chitosan-based nanoparticles for fuel cell applications. <i>Chemical Communications</i> , 2012 , 48, 7744-6	5.8	61

222	SU8-Silver Photosensitive Nanocomposite. <i>Advanced Engineering Materials</i> , 2004 , 6, 719-724	3.5	61
221	Tunable optical filter of porous silicon as key component for a MEMS spectrometer. <i>Journal of Microelectromechanical Systems</i> , 2002 , 11, 815-828	2.5	59
220	SU-8 nanocomposite photoresist with low stress properties for microfabrication applications. <i>Microelectronic Engineering</i> , 2006 , 83, 1966-1970	2.5	58
219	An impedance-based flow microcytometer for single cell morphology discrimination. <i>Lab on A Chip</i> , 2014 , 14, 2548-55	7.2	57
218	Microfluidic Manipulation of Core/Shell Nanoparticles for Oral Delivery of Chemotherapeutics: A New Treatment Approach for Colorectal Cancer. <i>Advanced Materials</i> , 2016 , 28, 4134-41	24	56
217	On-chip extrusion of lipid vesicles and tubes through micro-sized apertures. <i>Lab on A Chip</i> , 2006 , 6, 488-93	3.2	54
216	Dielectrophoresis-based particle exchanger for the manipulation and surface functionalization of particles. <i>Lab on A Chip</i> , 2008 , 8, 267-73	7.2	53
215	A compressible scaffold for minimally invasive delivery of large intact neuronal networks. <i>Advanced Healthcare Materials</i> , 2015 , 4, 301-12	10.1	52
214	Bioreporters and biosensors for arsenic detection. Biotechnological solutions for a world-wide pollution problem. <i>Current Opinion in Biotechnology</i> , 2013 , 24, 534-41	11.4	52
213	Co-pathological connected primary neurons in a microfluidic device for Alzheimer studies. <i>Biotechnology and Bioengineering</i> , 2011 , 108, 2241-5	4.9	52
212	Power-law behavior of beat-rate variability in monolayer cultures of neonatal rat ventricular myocytes. <i>Circulation Research</i> , 2000 , 86, 1140-5	15.7	52
211	Dielectrophoresis of lambda-DNA using 3D carbon electrodes. <i>Electrophoresis</i> , 2013 , 34, 1113-22	3.6	51
210	Dielectrophoresis-based purification of antibiotic-treated bacterial subpopulations. <i>Lab on A Chip</i> , 2014 , 14, 1850-7	7.2	50
209	Label-free detection of Babesia bovis infected red blood cells using impedance spectroscopy on a microfabricated flow cytometer. <i>Acta Tropica</i> , 2007 , 102, 63-8	3.2	50
208	Morphological tuning of polymeric nanoparticles via microfluidic platform for fuel cell applications. <i>Journal of the American Chemical Society</i> , 2012 , 134, 18904-7	16.4	49
207	Substrate arrays of iridium oxide microelectrodes for in vitro neuronal interfacing. <i>Frontiers in Neuroengineering</i> , 2009 , 2, 1		49
206	Cell culture imaging using microimpedance tomography. <i>IEEE Transactions on Biomedical Engineering</i> , 2008 , 55, 138-46	5	49
205	Two-dimensional impedance imaging of cell migration and epithelial stratification. <i>Lab on A Chip</i> , 2006 , 6, 1155-62	7.2	49

204	Temperature measurements in microfluidic systems: heat dissipation of negative dielectrophoresis barriers. <i>Electrophoresis</i> , 2005 , 26, 2239-46	3.6	49
203	Continuous-flow electrical lysis device with integrated control by dielectrophoretic cell sorting. <i>Lab on A Chip</i> , 2010 , 10, 2077-82	7.2	47
202	Effect of filler behavior on nanocomposite SU8 photoresist for moving micro-parts. <i>Microelectronic Engineering</i> , 2006 , 83, 1273-1276	2.5	47
201	A simple mechanism for reliable particle sorting in a microdevice with combined electroosmotic and pressure-driven flow. <i>Electrophoresis</i> , 2004 , 25, 3720-9	3.6	47
200	Fabrication process of high aspect ratio elastic and SU-8 structures for piezoelectric motor applications. <i>Sensors and Actuators A: Physical</i> , 1998 , 70, 42-47	3.9	46
199	Label-free detection of hypoxia-induced extracellular vesicle secretion from MCF-7 cells. <i>Scientific Reports</i> , 2018 , 8, 9402	4.9	45
198	Astrocyte-neuron co-culture on microchips based on the model of SOD mutation to mimic ALS. <i>Integrative Biology (United Kingdom)</i> , 2013 , 5, 964-75	3.7	43
197	Nafion/chitosan-wrapped CNT nanocomposite membrane for high-performance direct methanol fuel cells. <i>RSC Advances</i> , 2013 , 3, 7337	3.7	42
196	. <i>Journal of Microelectromechanical Systems</i> , 2005 , 14, 383-391	2.5	42
195	Bubble-free electrokinetic pumping. <i>Journal of Microelectromechanical Systems</i> , 2002 , 11, 448-453	2.5	42
194	Integration of 2D and 3D Thin Film Glassy Carbon Electrode Arrays for Electrochemical Dopamine Sensing in Flexible Neuroelectronic Implants. <i>Advanced Functional Materials</i> , 2015 , 25, 78-84	15.6	41
193	Microfluidic-assisted self-assembly of complex dendritic polyethylene drug delivery nanocapsules. <i>Advanced Materials</i> , 2014 , 26, 3118-23	24	41
192	Microfluidics: A New Layer of Control for Extrusion-Based 3D Printing. <i>Micromachines</i> , 2018 , 9,	3.3	39
191	Intracellular Recording of Cardiomyocyte Action Potentials with Nanopatterned Volcano-Shaped Microelectrode Arrays. <i>Nano Letters</i> , 2019 , 19, 6173-6181	11.5	39
190	On-chip light sheet illumination enables diagnostic size and concentration measurements of membrane vesicles in biofluids. <i>Nanoscale</i> , 2014 , 6, 1741-7	7.7	39
189	Superacid-doped polybenzimidazole-decorated carbon nanotubes: a novel high-performance proton exchange nanocomposite membrane. <i>Nanoscale</i> , 2013 , 5, 11710-7	7.7	39
188	Compact portable biosensor for arsenic detection in aqueous samples with Escherichia coli bioreporter cells. <i>Review of Scientific Instruments</i> , 2014 , 85, 015120	1.7	38
187	Cellulose nanowhiskers to regulate the microstructure of perfluorosulfonate ionomers for high-performance fuel cells. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 11334	13	38

186	Link between alginate reaction front propagation and general reaction diffusion theory. <i>Analytical Chemistry</i> , 2011 , 83, 2234-42	7.8	38
185	Label-free determination of protein-surface interaction kinetics by ionic conductance inside a nanochannel. <i>Lab on A Chip</i> , 2009 , 9, 319-24	7.2	38
184	SU-8 nanocomposite coatings with improved tribological performance for MEMS. <i>Surface and Coatings Technology</i> , 2006 , 201, 2289-2295	4.4	38
183	Organs-on-chip monitoring: sensors and other strategies. <i>Microphysiological Systems</i> , 2018 , 1, 1-1	1.3	38
182	Simulation of epiretinal prostheses - evaluation of geometrical factors affecting stimulation thresholds. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2011 , 8, 44	5.3	37
181	High-aspect-ratio, ultrathick, negative-tone near-uv photoresist for MEMS applications		35
180	A soft contact lens with a MEMS strain gage embedded for intraocular pressure monitoring		35
179	Low-cost technology for multilayer electroplated parts using laminated dry film resist. <i>Sensors and Actuators A: Physical</i> , 1996 , 53, 364-368	3.9	35
178	On-chip synthesis of fine-tuned bone-seeking hybrid nanoparticles. <i>Nanomedicine</i> , 2015 , 10, 3431-49	5.6	34
177	A telemetric pressure sensor system for biomedical applications. <i>IEEE Transactions on Biomedical Engineering</i> , 2008 , 55, 1374-81	5	34
176	Heart-on-a-Chip: An Investigation of the Influence of Static and Perfusion Conditions on Cardiac (H9C2) Cell Proliferation, Morphology, and Alignment. <i>SLAS Technology</i> , 2017 , 22, 536-546	3	33
175	Multiple-frequency impedance measurements in continuous flow for automated evaluation of yeast cell lysis. <i>Sensors and Actuators B: Chemical</i> , 2012 , 170, 2-6	8.5	31
174	Characterization of a novel impedance cytometer design and its integration with lateral focusing by dielectrophoresis. <i>Lab on A Chip</i> , 2012 , 12, 4344-9	7.2	31
173	Dielectrophoretic sorting on a microfabricated flow cytometer: label free separation of <i>Babesia bovis</i> infected erythrocytes. <i>Bioelectrochemistry</i> , 2008 , 73, 123-8	5.6	31
172	Microstereolithography: a new process to build complex 3D objects 1999 ,		31
171	Polyimide/SU-8 catheter-tip MEMS gauge pressure sensor. <i>Biomedical Microdevices</i> , 2012 , 14, 819-28	3.7	30
170	Field effect modulated nanofluidic diode membrane based on Al ₂ O ₃ /W heterogeneous nanopore arrays. <i>Applied Physics Letters</i> , 2013 , 102, 213108	3.4	30
169	A simple pneumatic setup for driving microfluidics. <i>Lab on A Chip</i> , 2007 , 7, 420-2	7.2	30

168	An improved model for predicting electrical conductance in nanochannels. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 4160-7	3.6	29
167	A Simple and Reliable PDMS and SU-8 Irreversible Bonding Method and Its Application on a Microfluidic-MEA Device for Neuroscience Research. <i>Micromachines</i> , 2015 , 6, 1923-1934	3.3	29
166	Distinguishing drug-induced minor morphological changes from major cellular damage via label-free impedimetric toxicity screening. <i>Lab on A Chip</i> , 2011 , 11, 2352-61	7.2	29
165	Bipolar resistivity profiling of 3D tissue culture. <i>Biosensors and Bioelectronics</i> , 2007 , 22, 789-96	11.8	29
164	Bi-directional ACET micropump for on-chip biological applications. <i>Electrophoresis</i> , 2016 , 37, 719-26	3.6	28
163	Additive manufacturing of hierarchical injectable scaffolds for tissue engineering. <i>Acta Biomaterialia</i> , 2018 , 76, 71-79	10.8	28
162	Synergistic NGF/B27 gradients position synapses heterogeneously in 3D micropatterned neural cultures. <i>PLoS ONE</i> , 2011 , 6, e26187	3.7	28
161	Cell viability assessment by flow cytometry using yeast as cell model. <i>Sensors and Actuators B: Chemical</i> , 2011 , 154, 160-163	8.5	28
160	High aspect ratio, 3D structuring of photoresist materials by ion beam LIGA. <i>Microelectronic Engineering</i> , 2003 , 67-68, 96-103	2.5	28
159	MyDEP: A New Computational Tool for Dielectric Modeling of Particles and Cells. <i>Biophysical Journal</i> , 2019 , 116, 12-18	2.9	28
158	Materials for neural interfaces. <i>MRS Bulletin</i> , 2012 , 37, 557-561	3.2	27
157	Very High Throughput Electrical Cell Lysis and Extraction of Intracellular Compounds Using 3D Carbon Electrodes in Lab-on-a-Chip Devices. <i>Micromachines</i> , 2012 , 3, 574-581	3.3	27
156	Label-free recognition of drug resistance via impedimetric screening of breast cancer cells. <i>PLoS ONE</i> , 2013 , 8, e57423	3.7	27
155	Tracking and synchronization of the yeast cell cycle using dielectrophoretic opacity. <i>Lab on A Chip</i> , 2011 , 11, 1754-60	7.2	27
154	Direct measurement of effective diffusion coefficients in nanochannels using steady-state dispersion effects. <i>Applied Physics Letters</i> , 2007 , 91, 203106	3.4	27
153	Positional dependence of particles and cells in microfluidic electrical impedance flow cytometry: origin, challenges and opportunities. <i>Lab on A Chip</i> , 2020 , 20, 3665-3689	7.2	27
152	Temperature sensitivity of nanochannel electrical conductance. <i>ACS Nano</i> , 2015 , 9, 4563-71	16.7	26
151	Rapid, sensitive and real-time multiplexing platform for the analysis of protein and nucleic-acid biomarkers. <i>Analytical Chemistry</i> , 2015 , 87, 1582-9	7.8	25

150	Impedance-based real-time position sensor for lab-on-a-chip devices. <i>Lab on A Chip</i> , 2018 , 18, 818-831	7.2	25
149	Two steps micromoulding and photopolymer high-aspect ratio structuring for applications in piezoelectric motor components. <i>Microsystem Technologies</i> , 1998 , 4, 147-150	1.7	25
148	Microfluidic patterning of alginate hydrogels. <i>Biointerphases</i> , 2007 , 2, 73-9	1.8	25
147	BioMEMS for medicine: On-chip cell characterization and implantable microelectrodes. <i>Solid-State Electronics</i> , 2006 , 50, 551-557	1.7	25
146	Modeling and design of a low-voltage SOI suspended-gate MOSFET (SG-MOSFET) with a metal-over-gate architecture		25
145	Ionic nanopeapods: Next-generation proton conducting membranes based on phosphotungstic acid filled carbon nanotube. <i>Nano Energy</i> , 2016 , 23, 114-121	17.1	24
144	Optimizing Parylene C Adhesion for MEMS Processes: Potassium Hydroxide Wet Etching. <i>Journal of Microelectromechanical Systems</i> , 2013 , 22, 855-864	2.5	23
143	Magnetically aligned nanodomains: application in high-performance ion conductive membranes. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 7099-107	9.5	22
142	Subretinal electrode implantation in the P23H rat for chronic stimulations. <i>British Journal of Ophthalmology</i> , 2006 , 90, 1183-7	5.5	22
141	Resistivity probing of multi-layered tissue phantoms using microelectrodes. <i>Physiological Measurement</i> , 2004 , 25, 645-58	2.9	22
140	Direct observation of transitions between surface-dominated and bulk diffusion regimes in nanochannels. <i>Analytical Chemistry</i> , 2009 , 81, 5407-12	7.8	21
139	Fluorine-Based Plasma Treatment of Biocompatible Silicone Elastomer: The Effect of Temperature on Etch Rate and Surface Properties. <i>Plasma Processes and Polymers</i> , 2008 , 5, 246-255	3.4	21
138	Modification of PDMS to fabricate PLGA microparticles by a double emulsion method in a single microfluidic device. <i>Lab on A Chip</i> , 2016 , 16, 2596-600	7.2	20
137	Fabrication of thermo-responsive nano-valve by grafting-to in melt of poly(N-isopropylacrylamide) onto nanoporous silicon nitride membranes. <i>Journal of Membrane Science</i> , 2014 , 468, 118-125	9.6	20
136	Instrumented Knee Prosthesis for Force and Kinematics Measurements. <i>IEEE Transactions on Automation Science and Engineering</i> , 2013 , 10, 615-624	4.9	20
135	Biochip with E. coli bacteria for detection of arsenic in drinking water. <i>Procedia Chemistry</i> , 2009 , 1, 1003-1006		20
134	Fabrication process of high aspect ratio elastic structures for piezoelectric motor applications		20
133	Continuous sampling and analysis by on-chip liquid/solid chromatography. <i>Sensors and Actuators B: Chemical</i> , 2007 , 123, 1133-1141	8.5	20

132	Multimodal stimulus coding by a gustatory sensory neuron in <i>Drosophila</i> larvae. <i>Nature Communications</i> , 2016 , 7, 10687	17.4	20
131	How to improve the sensitivity of coplanar electrodes and micro channel design in electrical impedance flow cytometry: a study. <i>Microfluidics and Nanofluidics</i> , 2019 , 23, 1	2.8	20
130	Pore Size Manipulation in 3D Printed Cryogels Enables Selective Cell Seeding. <i>Advanced Materials Technologies</i> , 2018 , 3, 1700340	6.8	19
129	Study of micro-glow discharges as ion sources for ion mobility spectrometry. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 2003 , 21, 1570		19
128	Biotechnologies to tackle the challenge of neoantigen identification. <i>Current Opinion in Biotechnology</i> , 2020 , 65, 52-59	11.4	18
127	Neural probe combining microelectrodes and a droplet-based microdialysis collection system for high temporal resolution sampling. <i>Lab on A Chip</i> , 2016 , 16, 917-24	7.2	18
126	Direct localised measurement of electrical resistivity profile in rat and embryonic chick retinas using a microprobe. <i>Journal of Electrical Bioimpedance</i> , 2010 , 1, 84-92	1.5	18
125	Ion beam etching redeposition for 3D multimaterial nanostructure manufacturing. <i>Microsystems and Nanoengineering</i> , 2019 , 5, 11	7.7	17
124	Microfluidic hydrogel layers with multiple gradients to stimulate and perfuse three-dimensional neuronal cell cultures. <i>Procedia Chemistry</i> , 2009 , 1, 369-372		17
123	Micropatterned surfaces of PDMS as growth templates for HEK 293 cells. <i>Biomedical Microdevices</i> , 2007 , 9, 475-85	3.7	17
122	Comment on "AC frequency characteristics of coplanar impedance sensors as design parameters" by Jongin Hong, Dae Sung Yoon, Sung Kwan Kim, Tae Song Kim, Sanghyo Kim, Eugene Y. Pak and Kwangsoo No, <i>Lab Chip</i> , 2005, 5, 270. <i>Lab on A Chip</i> , 2005 , 5, 1416-7; author reply 1418	7.2	17
121	An active microphotodiode array of oscillating pixels for retinal stimulation. <i>Sensors and Actuators A: Physical</i> , 2004 , 110, 11-17	3.9	17
120	Optical Microscanners and Microspectrometers using Thermal Bimorph Actuators. <i>Microsystems</i> , 2002 ,		17
119	Fish-gut-on-chip: development of a microfluidic bioreactor to study the role of the fish intestine in vitro. <i>Lab on A Chip</i> , 2019 , 19, 3268-3276	7.2	16
118	. <i>Journal of Microelectromechanical Systems</i> , 2014 , 23, 785-794	2.5	16
117	Increasing PCR sensitivity by removal of polymerase inhibitors in environmental samples by using dielectrophoresis. <i>Biosensors and Bioelectronics</i> , 2013 , 43, 297-303	11.8	16
116	Polybenzimidazole-decorated carbon nanotube: A high-performance proton conductor. <i>Physica Status Solidi - Rapid Research Letters</i> , 2012 , 6, 318-320	2.5	16
115	Dielectrophoresis as a single cell characterization method for bacteria. <i>Biomedical Physics and Engineering Express</i> , 2017 , 3, 015005	1.5	15

114	Ultrathin Alumina Membranes as Scaffold for Epithelial Cell Culture from the Intestine of Rainbow Trout. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 9496-9505	9.5	14
113	A microfluidic approach to synthesizing high-performance microfibers with tunable anhydrous proton conductivity. <i>Lab on A Chip</i> , 2013 , 13, 4549-53	7.2	14
112	In vivo neurochemical measurements in cerebral tissues using a droplet-based monitoring system. <i>Nature Communications</i> , 2017 , 8, 1239	17.4	14
111	Silicon sacrificial layer dry etching (SSLDE) for free-standing RF MEMS architectures		14
110	Fabrication of vertical digital silicon optical micromirrors on suspended electrode for guided-wave optical switching applications. <i>Sensors and Actuators A: Physical</i> , 2005 , 123-124, 570-583	3.9	14
109	Microstereolithography: concepts and applications		14
108	Dielectrophoresis-assisted creation of cell aggregates under flow conditions using planar electrodes. <i>Electrophoresis</i> , 2019 , 40, 1498-1509	3.6	13
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