

# Joan Bausells

## List of Publications by Citations

**Source:** <https://exaly.com/author-pdf/8955531/joan-bausells-publications-by-citations.pdf>

**Version:** 2024-04-09

This document has been generated based on the publications and citations recorded by exaly.com. 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.

159 papers	2,683 citations	29 h-index	44 g-index
183 ext. papers	3,108 ext. citations	4.5 avg, IF	4.81 L-index

#	Paper	IF	Citations
159	Ion-sensitive field-effect transistors fabricated in a commercial CMOS technology. <i>Sensors and Actuators B: Chemical</i> , <b>1999</b> , 57, 56-62	8.5	236
158	Improvement of the quality factor of RF integrated inductors by layout optimization. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2000</b> , 48, 76-83	4.1	148
157	TMAH/IPA anisotropic etching characteristics. <i>Sensors and Actuators A: Physical</i> , <b>1993</b> , 37-38, 737-743	3.9	126
156	Energy-loss probability in electron microscopy. <i>Physical Review B</i> , <b>1987</b> , 35, 1521-1524	3.3	67
155	Electrochemical biosensor platform for TNF- $\alpha$ cytokines detection in both artificial and human saliva: Heart failure. <i>Sensors and Actuators B: Chemical</i> , <b>2017</b> , 251, 1026-1033	8.5	57
154	Impedimetric immunosensor for human serum albumin detection on a direct aldehyde-functionalized silicon nitride surface. <i>Analytica Chimica Acta</i> , <b>2012</b> , 720, 43-8	6.6	56
153	A fully integrated electrochemical biosensor platform fabrication process for cytokines detection. <i>Biosensors and Bioelectronics</i> , <b>2017</b> , 93, 170-175	11.8	52
152	New technology for multi-sensor silicon needles for biomedical applications. <i>Sensors and Actuators B: Chemical</i> , <b>2001</b> , 78, 279-284	8.5	52
151	Integrated cell positioning and cell-based ISFET biosensors. <i>Sensors and Actuators B: Chemical</i> , <b>2007</b> , 120, 615-620	8.5	50
150	A simple REFET for pH detection in differential mode. <i>Sensors and Actuators B: Chemical</i> , <b>1999</b> , 60, 43-48	8.5	48
149	Etching front control of strips for corner compensation. <i>Sensors and Actuators A: Physical</i> , <b>1993</b> , 37-38, 727-732	3.9	48
148	Plasmon excitation in metallic spheres. <i>Physical Review B</i> , <b>1985</b> , 31, 6354-6359	3.3	48
147	Crystalline silicon cantilevers for piezoresistive detection of biomolecular forces. <i>Microelectronic Engineering</i> , <b>2008</b> , 85, 1120-1123	2.5	45
146	Production of structures for microfluidics using polymer imprint techniques. <i>Microelectronic Engineering</i> , <b>2005</b> , 78-79, 695-700	2.5	45
145	Impedimetric immunosensor based on SWCNT-COOH modified gold microelectrodes for label-free detection of deep venous thrombosis biomarker. <i>Biosensors and Bioelectronics</i> , <b>2010</b> , 26, 1278-82	11.8	43
144	Hydrogen-selective microelectrodes based on silicon needles. <i>Sensors and Actuators B: Chemical</i> , <b>2003</b> , 91, 76-82	8.5	39
143	A novel chronoamperometric immunosensor for rapid detection of TNF- $\alpha$ in human saliva. <i>Sensors and Actuators B: Chemical</i> , <b>2018</b> , 266, 477-484	8.5	38

142	Application of a new phosphadithiamacrocycle to ClO <sub>4</sub> <sup>-</sup> -selective CHEMFET and ion-selective electrode devices. <i>Analytica Chimica Acta</i> , <b>1996</b> , 320, 63-68	6.6	38
141	A new bacterial biosensor for trichloroethylene detection based on a three-dimensional carbon nanotubes bioarchitecture. <i>Analytical and Bioanalytical Chemistry</i> , <b>2011</b> , 400, 1083-92	4.4	37
140	Advances in the production, immobilization, and electrical characterization of olfactory receptors for olfactory nanobiosensor development. <i>Sensors and Actuators B: Chemical</i> , <b>2006</b> , 116, 66-71	8.5	37
139	Development and application of a novel electrochemical immunosensor for tetracycline screening in honey using a fully integrated electrochemical Bio-MEMS. <i>Biosensors and Bioelectronics</i> , <b>2019</b> , 130, 330-337	11.8	37
138	A low-cost and miniaturized potentiostat for sensing of biomolecular species such as TNF- $\alpha$ by electrochemical impedance spectroscopy. <i>Biosensors and Bioelectronics</i> , <b>2018</b> , 100, 533-540	11.8	36
137	Piezoresistive cantilevers for nanomechanical sensing. <i>Microelectronic Engineering</i> , <b>2015</b> , 145, 9-20	2.5	36
136	Potassium-ion selective solid contact microelectrode based on a novel 1,3-(di-4-oxabutanol)-calix[4]arene-crown-5 neutral carrier. <i>Electrochimica Acta</i> , <b>2006</b> , 51, 5075-5079	6.7	35
135	A study of the undercutting characteristics in the TMAH-IPA system. <i>Journal of Micromechanics and Microengineering</i> , <b>1992</b> , 2, 181-183	2	34
134	Analysis of the effects of constant-current Fowler-Nordheim-tunneling injection with charge trapping inside the potential barrier. <i>Journal of Applied Physics</i> , <b>1991</b> , 70, 3712-3720	2.5	33
133	Development of a novel capacitance electrochemical biosensor based on silicon nitride for ochratoxin A detection. <i>Sensors and Actuators B: Chemical</i> , <b>2016</b> , 234, 446-452	8.5	33
132	All-solid-state hydrogen sensing microelectrodes based on novel PPy[3,3'-Co(1,2-C <sub>2</sub> B <sub>9</sub> H <sub>11</sub> ) <sub>2</sub> ] as a solid internal contact. <i>Materials Science and Engineering C</i> , <b>2006</b> , 26, 399-404	8.3	31
131	FET-Based Chemical Sensor Systems Fabricated with Standard Technologies. <i>Electroanalysis</i> , <b>2004</b> , 16, 1843-1851	3	29
130	Study of mixed Langmuir-Blodgett films of immunoglobulin G/amphiphile and their application for immunosensor engineering. <i>Biosensors and Bioelectronics</i> , <b>2004</b> , 20, 1126-33	11.8	29
129	Impedimetric microbial biosensor based on single wall carbon nanotube modified microelectrodes for trichloroethylene detection. <i>Electrochimica Acta</i> , <b>2011</b> , 56, 10353-10358	6.7	28
128	A fully integrated passive microfluidic Lab-on-a-Chip for real-time electrochemical detection of ammonium: Sewage applications. <i>Science of the Total Environment</i> , <b>2019</b> , 653, 1223-1230	10.2	27
127	Novel all-solid-state copper(II) microelectrode based on a dithiomacrocycle as a neutral carrier. <i>Electrochimica Acta</i> , <b>2006</b> , 51, 5070-5074	6.7	26
126	Direct patterning of anti-human serum albumin antibodies on aldehyde-terminated silicon nitride surfaces for HSA protein detection. <i>Small</i> , <b>2009</b> , 5, 1531-4	11	25
125	Silicon Nitride Capacitive Chemical Sensor for Phosphate Ion Detection Based on Copper Phthalocyanine [Acrylate-polymer. <i>Electroanalysis</i> , <b>2017</b> , 29, 1586-1595	3	24

124	Diazonium modified gold microelectrodes onto polyimide substrates for impedimetric cytokine detection with an integrated Ag/AgCl reference electrode. <i>Sensors and Actuators B: Chemical</i> , <b>2013</b> , 189, 165-172	8.5	24
123	Novel strategy for sulfapyridine detection using a fully integrated electrochemical Bio-MEMS: Application to honey analysis. <i>Biosensors and Bioelectronics</i> , <b>2017</b> , 93, 282-288	11.8	22
122	Electrochemical impedance spectroscopy determination of glyphosate using a molecularly imprinted chitosan. <i>Sensors and Actuators B: Chemical</i> , <b>2020</b> , 309, 127753	8.5	21
121	New membrane for copper-selective electrode incorporating a new thiophosphoril-containing macrocycle as neutral carrier. <i>Materials Science and Engineering C</i> , <b>2006</b> , 26, 394-398	8.3	21
120	ISFET-based biosensor to monitor sugar metabolism in bacteria. <i>Materials Science and Engineering C</i> , <b>2008</b> , 28, 680-685	8.3	20
119	Study of integrated RF passive components performed using CMOS and Si micromachining technologies. <i>Journal of Micromechanics and Microengineering</i> , <b>1997</b> , 7, 162-164	2	19
118	Perchlorate-selective MEMFETs and ISEs based on a new phosphadithiamacrocycle. <i>Sensors and Actuators B: Chemical</i> , <b>1997</b> , 43, 206-210	8.5	19
117	Piezoresistive cantilevers in a commercial CMOS technology for intermolecular force detection. <i>Microelectronic Engineering</i> , <b>2006</b> , 83, 1302-1305	2.5	19
116	Bulk silicon microelectromechanical devices fabricated from commercial bonded and etched-back silicon-on-insulator substrates. <i>Sensors and Actuators A: Physical</i> , <b>1995</b> , 50, 99-103	3.9	19
115	A flexible electrochemical micro lab-on-chip: application to the detection of interleukin-10. <i>Mikrochimica Acta</i> , <b>2016</b> , 183, 2155-2162	5.8	18
114	Focused ion beam production of nanoelectrode arrays. <i>Materials Science and Engineering C</i> , <b>2008</b> , 28, 777-780	8.3	17
113	Analytical features of K <sup>+</sup> -sensitive membrane obtained by implantation in silicon dioxide films. <i>Materials Science and Engineering C</i> , <b>2002</b> , 21, 9-13	8.3	17
112	Novel iron (III) phthalocyanine derivative functionalized semiconductor based transducers for the detection of citrate. <i>Organic Electronics</i> , <b>2016</b> , 34, 200-207	3.5	17
111	Nanobiosensors based on individual olfactory receptors. <i>Analog Integrated Circuits and Signal Processing</i> , <b>2008</b> , 57, 197-203	1.2	16
110	Energy loss in spheres by penetrating electrons. <i>Surface Science</i> , <b>1987</b> , 189-190, 1015-1022	1.8	16
109	Interaction of biomolecules sequentially deposited at the same location using a microcantilever-based spotter. <i>Biomedical Microdevices</i> , <b>2008</b> , 10, 479-87	3.7	15
108	Flow-through pH-ISFET + reference-ISE as integrated detector in automated FIA determinations. <i>Sensors and Actuators B: Chemical</i> , <b>1992</b> , 7, 555-560	8.5	15
107	Electrochemical Capacitive K <sup>+</sup> EMIS Chemical Sensor Based on the Dibromoaza[7]helicene as an Ionophore for Potassium Ions Detection. <i>Electroanalysis</i> , <b>2016</b> , 28, 2892-2899	3	15

106	Capacitance electrochemical biosensor based on silicon nitride transducer for TNF- $\alpha$ cytokine detection in artificial human saliva: Heart failure (HF). <i>Talanta</i> , <b>2020</b> , 209, 120501	6.2	15
105	A highly selective potentiometric amphetamine microsensor based on all-solid-state membrane using a new ion-pair complex, [3,3'-Co(1,2-closo-C <sub>2</sub> B <sub>9</sub> H <sub>11</sub> ) <sub>2</sub> ][C <sub>9</sub> H <sub>13</sub> NH] <sup>+</sup> . <i>Sensors and Actuators B: Chemical</i> , <b>2018</b> , 266, 823-829	8.5	14
104	Controlled poly(pyrrole) patterning by microcontact printing on glass and poly(ethylene terephthalate) substrates. <i>Microelectronic Engineering</i> , <b>2014</b> , 121, 167-174	2.5	14
103	Development of a flexible microfluidic system based on a simple and reproducible sealing process between polymers and poly(dimethylsiloxane). <i>Microelectronic Engineering</i> , <b>2013</b> , 111, 332-338	2.5	14
102	Localized Ion Implantation Through Micro/Nanostencil Masks. <i>IEEE Nanotechnology Magazine</i> , <b>2011</b> , 10, 940-946	2.6	14
101	Silicon microcantilevers with MOSFET detection. <i>Microelectronic Engineering</i> , <b>2010</b> , 87, 1245-1247	2.5	14
100	Application of nickel electroless plating to the fabrication of low-cost backside contact ISFETs. <i>Sensors and Actuators B: Chemical</i> , <b>1995</b> , 27, 336-340	8.5	14
99	Passivation analysis of micromechanical silicon structures obtained by electrochemical etch stop. <i>Sensors and Actuators A: Physical</i> , <b>1993</b> , 37-38, 744-750	3.9	14
98	Protein detection based on microelectrodes with the PPy[3,3'-Co(1,2-C <sub>2</sub> B <sub>9</sub> H <sub>11</sub> ) <sub>2</sub> ] solid contact and immobilized proteinases: Preliminary investigations. <i>Materials Science and Engineering C</i> , <b>2006</b> , 26, 574-577	8.3	13
97	Application of simple thioether ionophores to silver ion-selective CHEMFETs. <i>Sensors and Actuators B: Chemical</i> , <b>1995</b> , 27, 321-324	8.5	13
96	Velocity dependence of binding energies and lifetimes of image states at surfaces. <i>Physical Review B</i> , <b>1986</b> , 33, 1471-1473	3.3	13
95	Grand Challenge in N/MEMS. <i>Frontiers in Mechanical Engineering</i> , <b>2016</b> , 1,	2.6	13
94	Development of an ImmunoFET for Analysis of Tumour Necrosis Factor- $\alpha$ in Artificial Saliva: Application for Heart Failure Monitoring. <i>Chemosensors</i> , <b>2021</b> , 9, 26	4	13
93	Poly(pyrrole) microwires fabrication process on flexible thermoplastics polymers: Application as a biosensing material. <i>Sensors and Actuators B: Chemical</i> , <b>2015</b> , 221, 940-950	8.5	12
92	Wireless monitoring of the pH, NH <sub>4</sub> <sup>+</sup> and temperature in a fish farm. <i>Procedia Chemistry</i> , <b>2009</b> , 1, 445-448		12
91	DRIE based novel technique for AFM probes fabrication. <i>Microelectronic Engineering</i> , <b>2007</b> , 84, 1132-1135	5.5	12
90	Integrated microanalytical system based on electrochemical detection and cell positioning. <i>Materials Science and Engineering C</i> , <b>2006</b> , 26, 405-410	8.3	12
89	Deep reactive ion etching and focused ion beam combination for nanotip fabrication. <i>Materials Science and Engineering C</i> , <b>2006</b> , 26, 164-168	8.3	12

88	Electrochemical etching of porous silicon sacrificial layers for micromachining applications. <i>Journal of Micromechanics and Microengineering</i> , <b>1997</b> , 7, 131-132	2	11
87	Improvement of the porous silicon sacrificial-layer etching for micromachining applications. <i>Sensors and Actuators A: Physical</i> , <b>1997</b> , 62, 676-679	3.9	11
86	Influence of the degradation on the surface states and electrical characteristics of EOS structures. <i>Surface Science</i> , <b>1991</b> , 251-252, 364-368	1.8	11
85	Sensitive Potentiometric Determination of Amphetamine with an All-Solid-State Micro Ion-Selective Electrode. <i>Analytical Letters</i> , <b>2018</b> , 51, 348-358	2.2	10
84	Effect of the electron-electron interaction on periodic lattice distortions: coexistence of CDW and SDW. <i>Journal of Physics C: Solid State Physics</i> , <b>1984</b> , 17, 5539-5548		10
83	Development of a capacitive chemical sensor based on Co(II)-phthalocyanine acrylate-polymer/HfO <sub>2</sub> /SiO <sub>2</sub> /Si for detection of perchlorate. <i>Journal of Sensors and Sensor Systems</i> , <b>2015</b> , 4, 17-23	1.6	10
82	Directed Self-Assembly of Block Copolymers for the Fabrication of Functional Devices. <i>Polymers</i> , <b>2020</b> , 12,	4.5	10
81	Nanoparticles with tunable shape and composition fabricated by nanoimprint lithography. <i>Nanotechnology</i> , <b>2015</b> , 26, 445302	3.4	9
80	Stress in low pressure chemical vapour deposition polycrystalline silicon thin films deposited below 0.1 Torr. <i>Sensors and Actuators A: Physical</i> , <b>1993</b> , 37-38, 723-726	3.9	9
79	Response of carbon nanotube transistors to electron beam exposure. <i>Microelectronic Engineering</i> , <b>2007</b> , 84, 1596-1600	2.5	8
78	Impedance microprobes for myocardial ischemia monitoring		8
77	Analysis by FT-IR spectroscopy of SiO <sub>2</sub> -polycrystalline structures used in micromechanics: Stress measurements. <i>Sensors and Actuators A: Physical</i> , <b>1992</b> , 32, 347-353	3.9	8
76	A Fully Integrated Electrochemical BioMEMS Fabrication Process for Cytokine Detection: Application for Heart Failure. <i>Procedia Engineering</i> , <b>2014</b> , 87, 377-379		7
75	Biomolecule recognition using piezoresistive nanomechanical force probes. <i>Applied Physics Letters</i> , <b>2013</b> , 102, 253701	3.4	7
74	Effective masses and lifetimes of image states at metal surfaces. <i>Surface Science</i> , <b>1986</b> , 178, 268-274	1.8	7
73	Fabrication of functional electromechanical nanowire resonators by focused ion beam implantation. <i>Journal of Micro/Nanolithography, MEMS, and MOEMS</i> , <b>2015</b> , 14, 031207	0.7	6
72	Capacitance Polypyrrole-based Impedimetric Immunosensor for Interleukin-10 Cytokine Detection. <i>Electroanalysis</i> , <b>2020</b> , 32, 1795-1806	3	6
71	Development of a Perchlorate Chemical Sensor Based on Magnetic Nanoparticles and Silicon Nitride Capacitive Transducer. <i>Electroanalysis</i> , <b>2018</b> , 30, 901-909	3	6

70	Exploring the Influence of Variability on Single-Electron Transistors Into SET-Based Circuits. <i>IEEE Transactions on Electron Devices</i> , <b>2017</b> , 64, 5172-5180	2.9	6
69	Cytokine Detection using Diazonium Modified Gold Microelectrodes Onto Polyimide Substrates with Integrated Ag/AgCl Reference Electrode. <i>Procedia Engineering</i> , <b>2012</b> , 47, 1181-1184		6
68	All-stencil transistor fabrication on 3D silicon substrates. <i>Journal of Micromechanics and Microengineering</i> , <b>2012</b> , 22, 095022	2	6
67	Fast on-wafer electrical, mechanical, and electromechanical characterization of piezoresistive cantilever force sensors. <i>Review of Scientific Instruments</i> , <b>2012</b> , 83, 015002	1.7	6
66	Mechanical sensors integrated in a commercial CMOS technology. <i>Sensors and Actuators A: Physical</i> , <b>1997</b> , 62, 698-704	3.9	6
65	Development of bi-enzyme microbiosensor based on solid-contact ion-selective microelectrodes for protein detection. <i>Sensors and Actuators B: Chemical</i> , <b>2007</b> , 123, 1096-1100	8.5	6
64	Nanostructuring of Langmuir-Blodgett Films Containing a Novel Thiomacrocyclic Ionophore on Si <sub>3</sub> N <sub>4</sub> /SiO <sub>2</sub> /Si for Copper Ion Recognition. <i>Analytical Letters</i> , <b>2006</b> , 39, 1709-1720	2.2	6
63	Response of simple-metal plane surfaces. <i>Surface Science</i> , <b>1993</b> , 292, 159-170	1.8	6
62	A silicon nitride ISFET based immunosensor for tumor necrosis factor-alpha detection in saliva. A promising tool for heart failure monitoring. <i>Analytica Chimica Acta</i> , <b>2021</b> , 1161, 338468	6.6	6
61	Experimental Study and Mathematical Modeling of a Glyphosate Impedimetric Microsensor Based on Molecularly Imprinted Chitosan Film. <i>Chemosensors</i> , <b>2020</b> , 8, 104	4	5
60	A novel potentiometric microsensor for real-time detection of Irgarol using the ion-pair complex [Irgarol-H] <sup>+</sup> [Co(C <sub>2</sub> B <sub>9</sub> H <sub>11</sub> ) <sub>2</sub> ] <sup>-</sup> . <i>Sensors and Actuators B: Chemical</i> , <b>2018</b> , 268, 164-169	8.5	5
59	Calculation of channeling effects in ion implantation. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>1991</b> , 55, 666-670	1.2	5
58	Many-body effects in the binding energies of image states at surfaces. <i>Surface Science</i> , <b>1987</b> , 182, 423-430	3.0	5
57	Na <sup>+</sup> and K <sup>+</sup> Implanted Membranes for Micro-Sensors Development. <i>Sensor Letters</i> , <b>2009</b> , 7, 689-693	0.9	5
56	Capacitance Electrochemical pH Sensor Based on Different Hafnium Dioxide (HfO <sub>2</sub> ) Thicknesses. <i>Chemosensors</i> , <b>2021</b> , 9, 13	4	5
55	Novel methods to pattern polymers for microfluidics. <i>Microelectronic Engineering</i> , <b>2008</b> , 85, 972-975	2.5	4
54	Nanocharacterization of a novel copper-membrane and functionalized insulator-semiconductor by atomic force microscopy		4
53	SIXE: An X-Ray Experiment for the MINISAT Platform. <i>Astrophysics and Space Science</i> , <b>2001</b> , 276, 39-48	1.6	4



52	Biopatterning of antibodies on poly(pyrrole)-nanowires using nanocontact printing: Surface characterization. <i>Materials Science and Engineering C</i> , <b>2018</b> , 91, 466-474	8.3	4
51	A simple membrane with the electroactive [Sulfapyridine-H] <sup>+</sup> [Co(C <sub>2</sub> B <sub>9</sub> H <sub>11</sub> ) <sub>2</sub> ] <sup>-</sup> for the easy potentiometric detection of sulfonamides. <i>Journal of Organometallic Chemistry</i> , <b>2019</b> , 893, 32-38	2.3	3
50	Development of Novel Magneto-Biosensor for Sulfapyridine Detection. <i>Biosensors</i> , <b>2020</b> , 10,	5.9	3
49	Efficient fabrication of poly(pyrrole)-nanowires through innovative nanocontact printing, using commercial CD as mold, on flexible thermoplastics substrates: Application for cytokines immunodetection. <i>Sensors and Actuators B: Chemical</i> , <b>2018</b> , 255, 2520-2530	8.5	3
48	Functional oxide nanostructures written by EBL on insulating single crystal substrates. <i>Microelectronic Engineering</i> , <b>2013</b> , 110, 94-99	2.5	3
47	Piezoresistive Microcantilevers for Biomolecular Force Detection <b>2007</b> ,		3
46	Polysilicon piezoresistive cantilevers for intermolecular force detection		3
45	A MCM module for modern power window control in automotive applications		3
44	Bulk silicon micro electro mechanical devices fabricated from commercial BESOI substrates		3
43	Anisotropic etch-stop properties of nitrogen-implanted silicon. <i>Sensors and Actuators A: Physical</i> , <b>1994</b> , 45, 219-225	3.9	3
42	Effect of charge-state fluctuations of ions moving in solids on high-energy ion implantation. <i>Journal of Applied Physics</i> , <b>1991</b> , 69, 155-161	2.5	3
41	Effect of boron implantation on the structure and residual stress of LPCVD polysilicon films. <i>Journal of Micromechanics and Microengineering</i> , <b>1992</b> , 2, 170-172	2	3
40	Plasmon excitation in cavities. <i>Solid State Communications</i> , <b>1990</b> , 73, 651-655	1.6	3
39	Na <sup>+</sup> -Implanted Membrane for a Capacitive Sodium Electrolyte-Insulator-Semiconductor Microsensors. <i>Sensor Letters</i> , <b>2008</b> , 6, 204-208	0.9	3
38	Theoretical study and analytical performance of a lysozyme impedimetric microsensor based on a molecularly imprinted chitosan film. <i>Sensors and Actuators B: Chemical</i> , <b>2021</b> , 339, 129903	8.5	3
37	A Novel Cortisol Biosensor Based on the Capacitive Structure of Hafnium Oxide: Application for Heart Failure Monitoring <b>2019</b> ,		2
36	Piezoresistive cantilever force sensors based on polycrystalline silicon <b>2015</b> ,		2
35	Exploring Strategies to Contact 3D Nano-Pillars. <i>Nanomaterials</i> , <b>2020</b> , 10,	5.4	2



34	Fabrication of new polypyrrole/silicon nitride hybrid materials for potential applications in electrochemical sensors: Synthesis and characterization. <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , <b>2017</b> , 54, 827-834	2.2	2
33	Development of an artificial nose integrating NEMS and biological olfactory receptors		2
32	FIB and DRIE combination for nanotip fabrication		2
31	Design and simulation of a dielectrophoretic-based microsystem for bioparticle handling		2
30	Multisensor silicon needle for cardiac applications		2
29	Smart temperature sensor for on-line monitoring in automotive applications		2
28	Modelization and fabrication of ISFET based sensors. <i>Microelectronic Engineering</i> , <b>1991</b> , 15, 423-426	2.5	2
27	A high-frequency bidirectional capacitance method to study the evolution of the interface state density generated at low temperatures. <i>Solid-State Electronics</i> , <b>1992</b> , 35, 73-81	1.7	2
26	Characterization of Potassium-Selective Field Effect Transistors Based on 1,3-(di-4-oxabutanol)-Calix[4]arene-Crown-5 as Ionophore. <i>Sensor Letters</i> , <b>2009</b> , 7, 795-800	0.9	2
25	IEEE 802.15.4 Based Wireless Sensor Networks Applied to pH and Temperature Monitoring in a Fish Farm. <i>Sensor Letters</i> , <b>2009</b> , 7, 861-868	0.9	2
24	Electrochemical Immunosensor for NT-proBNP Detection in Artificial Human Saliva: Heart Failure Biomedical Application. <i>Proceedings (mdpi)</i> , <b>2018</b> , 2, 1085	0.3	2
23	Influence of Quantum Dot Characteristics on the Performance of Hybrid SET-FET Circuits. <i>IEEE Transactions on Electron Devices</i> , <b>2019</b> , 66, 4461-4467	2.9	1
22	Large areain situfabrication of poly(pyrrole)-nanowires on flexible thermoplastic films using nanocontact printing. <i>Materials Research Express</i> , <b>2016</b> , 3, 085018	1.7	1
21	Novel Strategy for Sulfapyridine Detection Using a Fully Integrated Bio-MEMS: Application to Honey Analysis. <i>Procedia Technology</i> , <b>2017</b> , 27, 254-255		1
20	Low-Cost Impedance Measurements for Lab-on-a-Chip Architectures: Towards Potentiostat Miniaturization. <i>Proceedings (mdpi)</i> , <b>2017</b> , 1, 604	0.3	1
19	Sodium ion sensitive microelectrode based on a p-tert-butylcalix[4]arene ethyl ester. <i>Sensors and Actuators B: Chemical</i> , <b>2007</b> ,	8.5	1
18	Nonlocal Screening of the Photon Fields in Surface Photoemission from Simple Metals. <i>Surface Review and Letters</i> , <b>1998</b> , 05, 527-536	1.1	1
17	Stress Compensation Techniques in Thin Layers Applied to Silicon Micromachining. <i>Materials Research Society Symposia Proceedings</i> , <b>1992</b> , 284, 119		1

16	Fabrication of CMOS retrograde wells by doping compensation with ion implantation. <i>Vacuum</i> , <b>1989</b> , 39, 687-690	3.7	1
15	Ionization by H <sub>2</sub> . Molecular effect. <i>Solid State Communications</i> , <b>1985</b> , 54, 71-73	1.6	1
14	Electrochemical Impedance Spectroscopy Microsensor Based on Molecularly Imprinted Chitosan Film Grafted on a 4-Aminophenylacetic Acid (CMA) Modified Gold Electrode, for the Sensitive Detection of Glyphosate. <i>Frontiers in Chemistry</i> , <b>2021</b> , 9, 621057	5	1
13	eHealth system with ISFET-based immunosensor for heart failure biomarker detection in saliva <b>2021</b> ,		1
12	On the impedance spectroscopy of field-effect biosensors. <i>Electrochemical Science Advances</i> , e2100138		1
11	Batch fabrication of insulated conductive scanning probe microscopy probes with reduced capacitive coupling. <i>Microelectronic Engineering</i> , <b>2014</b> , 119, 44-47	2.5	0
10	A Highly Sensitive Potentiometric Amphetamine Microsensor Based on All-Solid-State Membrane Using a New Ion-Par Complex, [3,3'-Co(1,2-closo-C <sub>2</sub> B <sub>9</sub> H <sub>11</sub> ) <sub>2</sub> ][C <sub>9</sub> H <sub>13</sub> NH <sup>+</sup> ]. <i>Proceedings (mdpi)</i> , <b>2017</b> , 1, 481	0.3	0
9	Solid State Gas Sensor Based on Polyaniline Doped with [3,3'-Co(1,2-C <sub>2</sub> B <sub>9</sub> H <sub>11</sub> ) <sub>2</sub> ] for Detection of Acetone: Diagnostic to Heart Failure Disease. <i>Proceedings (mdpi)</i> , <b>2018</b> , 2, 1086	0.3	0
8	Dual Function Polyvinyl Alcohol Based Oxide Precursors for Nanoimprinting and Electron Beam Lithography. <i>Materials Research Society Symposia Proceedings</i> , <b>2013</b> , 1547, 75-80		
7	Transfer of small structures by bonding. <i>Microsystem Technologies</i> , <b>2006</b> , 12, 455-461	1.7	
6	Dynamic checking improves MEMS design methodology <b>2000</b> , 4019, 266		
5	SCREENING OF THE PHOTON FIELD IN SURFACE PHOTOEMISSION FROM SIMPLE METALS. <i>Surface Review and Letters</i> , <b>2000</b> , 07, 243-255	1.1	
4	Limitations of the spreading resistance technique for ion implant profile measurements. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>1991</b> , 55, 261-265	1.2	
3	Relation between electrical conductivity and structural characteristics in boron-doped LPCVD polycrystalline silicon used in sensor devices. <i>Sensors and Actuators A: Physical</i> , <b>1993</b> , 37-38, 68-73	3.9	
2	Impedimetric Detection of Human Interleukin 10 on Diazonium Salt Electroaddressed Gold Microelectrode Surfaces. <i>Smart Sensors, Measurement and Instrumentation</i> , <b>2021</b> , 109-121	0.3	
1	Autodoor. Microsystem for Automotiove Door Module <b>2003</b> , 409-420		