

Anja Mz Boisen

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307
papers

9,946
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51
h-index

86
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334
ext. papers

11,751
ext. citations

5.8
avg, IF

6.28
L-index

#	Paper	IF	Citations
307	Present and Future of Surface-Enhanced Raman Scattering. <i>ACS Nano</i> , 2020 , 14, 28-117	16.7	1000
306	Cantilever-like micromechanical sensors. <i>Reports on Progress in Physics</i> , 2011 , 74, 036101	14.4	394
305	Large area fabrication of leaning silicon nanopillars for surface enhanced Raman spectroscopy. <i>Advanced Materials</i> , 2012 , 24, OP11-8	24	255
304	Environmental sensors based on micromachined cantilevers with integrated read-out. <i>Ultramicroscopy</i> , 2000 , 82, 11-6	3.1	231
303	Gold cleaning methods for electrochemical detection applications. <i>Microelectronic Engineering</i> , 2009 , 86, 1282-1285	2.5	202
302	Enhanced functionality of cantilever based mass sensors using higher modes. <i>Applied Physics Letters</i> , 2005 , 86, 233501	3.4	202
301	Enhanced light-matter interactions in graphene-covered gold nanovoid arrays. <i>Nano Letters</i> , 2013 , 13, 4690-6	11.5	175
300	Cantilever Sensors: Nanomechanical Tools for Diagnostics. <i>MRS Bulletin</i> , 2009 , 34, 449-454	3.2	143
299	Optimised cantilever biosensor with piezoresistive read-out. <i>Ultramicroscopy</i> , 2003 , 97, 371-6	3.1	142
298	Nanobubble Trouble on Gold Surfaces. <i>Langmuir</i> , 2003 , 19, 10510-10513	4	135
297	Highly sensitive polymer-based cantilever-sensors for DNA detection. <i>Ultramicroscopy</i> , 2005 , 105, 215-223	3.1	131
296	A microcantilever-based alcohol vapor sensor-application and response model. <i>Applied Physics Letters</i> , 2000 , 76, 2615-2617	3.4	124
295	Adsorption kinetics and mechanical properties of thiol-modified DNA-oligos on gold investigated by microcantilever sensors. <i>Ultramicroscopy</i> , 2002 , 91, 29-36	3.1	122
294	Optimization of sensitivity and noise in piezoresistive cantilevers. <i>Journal of Applied Physics</i> , 2002 , 92, 6296-6301	2.5	120
293	Atomic force microscopy probe with piezoresistive read-out and a highly symmetrical Wheatstone bridge arrangement. <i>Sensors and Actuators A: Physical</i> , 2000 , 83, 47-53	3.9	118
292	Processing of thin SU-8 films. <i>Journal of Micromechanics and Microengineering</i> , 2008 , 18, 125020	2	108
291	Surface-enhanced Raman spectroscopy based quantitative bioassay on aptamer-functionalized nanopillars using large-area Raman mapping. <i>ACS Nano</i> , 2013 , 7, 5350-9	16.7	107

290	Damping mechanisms in high-Q micro and nanomechanical string resonators. <i>Physical Review B</i> , 2011 , 84,	3.3	101
289	SU-8 Cantilevers for Bio/chemical Sensing; Fabrication, Characterisation and Development of Novel Read-out Methods. <i>Sensors</i> , 2008 , 8, 1595-1612	3.8	101
288	Fabrication and characterization of nanoresonating devices for mass detection. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 2000 , 18, 612		98
287	Temperature and pressure dependence of resonance in multi-layer microcantilevers. <i>Journal of Micromechanics and Microengineering</i> , 2005 , 15, 1454-1458	2	94
286	Ultrasensitive mass sensor fully integrated with complementary metal-oxide-semiconductor circuitry. <i>Applied Physics Letters</i> , 2005 , 87, 043507	3.4	89
285	Electromechanical model of a resonating nano-cantilever-based sensor for high-resolution and high-sensitivity mass detection. <i>Nanotechnology</i> , 2001 , 12, 100-104	3.4	89
284	Design & fabrication of cantilever array biosensors. <i>Materials Today</i> , 2009 , 12, 32-38	21.8	86
283	Detection of nerve gases using surface-enhanced Raman scattering substrates with high droplet adhesion. <i>Nanoscale</i> , 2016 , 8, 1305-8	7.7	82
282	Effect of gold coating on the Q-factor of a resonant cantilever. <i>Journal of Micromechanics and Microengineering</i> , 2005 , 15, 2249-2253	2	82
281	Rendering SU-8 hydrophilic to facilitate use in micro channel fabrication. <i>Journal of Micromechanics and Microengineering</i> , 2004 , 14, 1614-1617	2	82
280	Immobilisation of DNA to polymerised SU-8 photoresist. <i>Biosensors and Bioelectronics</i> , 2006 , 21, 1327-32	11.8	78
279	Scanning microscopic four-point conductivity probes. <i>Sensors and Actuators A: Physical</i> , 2002 , 96, 53-58	3.9	78
278	Nonlinear optomechanical measurement of mechanical motion. <i>Nature Communications</i> , 2016 , 7, 10988	17.4	70
277	Single-Mode Waveguides With SU-8 Polymer Core and Cladding for MOEMS Applications. <i>Journal of Lightwave Technology</i> , 2007 , 25, 1284-1289	4	69
276	Hand-Held Femtogram Detection of Hazardous Picric Acid with Hydrophobic Ag Nanopillar SERS Substrates and Mechanism of Elasto-Capillarity. <i>ACS Sensors</i> , 2017 , 2, 198-202	9.2	67
275	Microfabricated photoplastic cantilever with integrated photoplastic/carbon based piezoresistive strain sensor. <i>Applied Physics Letters</i> , 2006 , 88, 113508	3.4	66
274	Online measurement of mass density and viscosity of pL fluid samples with suspended microchannel resonator. <i>Sensors and Actuators B: Chemical</i> , 2013 , 185, 456-461	8.5	65
273	Micromotors for drug delivery in vivo: The road ahead. <i>Advanced Drug Delivery Reviews</i> , 2019 , 138, 41-55	18.5	64

272	Wafer-Scale Leaning Silver Nanopillars for Molecular Detection at Ultra-Low Concentrations. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 2053-2062	3.8	62
271	SU-8 cantilever sensor system with integrated readout. <i>Sensors and Actuators A: Physical</i> , 2005 , 123-124, 111-115	3.9	62
270	AFM probes with directly fabricated tips. <i>Journal of Micromechanics and Microengineering</i> , 1996 , 6, 58-62		62
269	Polymeric cantilever-based biosensors with integrated readout. <i>Applied Physics Letters</i> , 2006 , 89, 173505	3.4	61
268	Process optimization of ultrasonic spray coating of polymer films. <i>Langmuir</i> , 2013 , 29, 6911-9	4	60
267	Real-time particle mass spectrometry based on resonant micro strings. <i>Sensors</i> , 2010 , 10, 8092-100	3.8	60
266	Ultrasensitive string-based temperature sensors. <i>Applied Physics Letters</i> , 2011 , 98, 121901	3.4	59
265	Low-noise polymeric nanomechanical biosensors. <i>Applied Physics Letters</i> , 2006 , 88, 113901	3.4	59
264	AFM lithography of aluminum for fabrication of nanomechanical systems. <i>Ultramicroscopy</i> , 2003 , 97, 467-72	3.1	59
263	Quantitative Detection of Trace Level Cloxacillin in Food Samples Using Magnetic Molecularly Imprinted Polymer Extraction and Surface-Enhanced Raman Spectroscopy Nanopillars. <i>Analytical Chemistry</i> , 2017 , 89, 11484-11490	7.8	56
262	Scalable DNA-Based Magnetic Nanoparticle Agglutination Assay for Bacterial Detection in Patient Samples. <i>ACS Nano</i> , 2015 , 9, 7374-82	16.7	55
261	Adsorption and Interfacial Electron Transfer of <i>Saccharomyces Cerevisiae</i> Yeast Cytochrome c Monolayers on Au(111) Electrodes. <i>Langmuir</i> , 2003 , 19, 3419-3427	4	55
260	Polymer-filled microcontainers for oral delivery loaded using supercritical impregnation. <i>Journal of Controlled Release</i> , 2014 , 173, 1-9	11.7	54
259	Noise in piezoresistive atomic force microscopy. <i>Nanotechnology</i> , 1999 , 10, 51-60	3.4	54
258	Polymeric Cantilever Arrays for Biosensing Applications. <i>Sensor Letters</i> , 2003 , 1, 20-24	0.9	53
257	Design, fabrication, and characterization of a submicroelectromechanical resonator with monolithically integrated CMOS readout circuit. <i>Journal of Microelectromechanical Systems</i> , 2005 , 14, 508-519	2.5	52
256	Development of electrosprayed mucoadhesive chitosan microparticles. <i>Carbohydrate Polymers</i> , 2018 , 190, 240-247	10.3	51
255	Polymeric microcontainers improve oral bioavailability of furosemide. <i>International Journal of Pharmaceutics</i> , 2016 , 504, 98-109	6.5	51

254	Spatial confinement can lead to increased stability of amorphous indomethacin. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2012 , 81, 418-25	5.7	50
253	Position and mass determination of multiple particles using cantilever based mass sensors. <i>Applied Physics Letters</i> , 2010 , 97, 044103	3.4	49
252	From concept to in vivo testing: Microcontainers for oral drug delivery. <i>Journal of Controlled Release</i> , 2017 , 268, 343-351	11.7	48
251	Photothermal analysis of individual nanoparticulate samples using micromechanical resonators. <i>ACS Nano</i> , 2013 , 7, 6188-93	16.7	48
250	Quantification of NS1 dengue biomarker in serum via optomagnetic nanocluster detection. <i>Scientific Reports</i> , 2015 , 5, 16145	4.9	48
249	Investigation of the bond strength between the photo-sensitive polymer SU-8 and gold. <i>Microelectronic Engineering</i> , 2005 , 78-79, 152-157	2.5	48
248	Detection methods for centrifugal microfluidic platforms. <i>Biosensors and Bioelectronics</i> , 2016 , 76, 54-67	11.8	46
247	Plasmon resonances of Ag capped Si nanopillars fabricated using mask-less lithography. <i>Optics Express</i> , 2015 , 23, 12965-78	3.3	45
246	Quantification of rolling circle amplified DNA using magnetic nanobeads and a Blu-ray optical pick-up unit. <i>Biosensors and Bioelectronics</i> , 2015 , 67, 649-55	11.8	45
245	Black silicon laser-doped selective emitter solar cell with 18.1% efficiency. <i>Solar Energy Materials and Solar Cells</i> , 2016 , 144, 740-747	6.4	45
244	Functionalization of SU-8 photoresist surfaces with IgG proteins. <i>Applied Surface Science</i> , 2008 , 255, 2896-2902	6.7	45
243	Aluminum nanocantilevers for high sensitivity mass sensors. <i>Applied Physics Letters</i> , 2005 , 87, 013102	3.4	44
242	Gold Nanoparticles Sliding on Recyclable NanohoodoosEngineered for Surface-Enhanced Raman Spectroscopy. <i>Advanced Functional Materials</i> , 2018 , 28, 1704818	15.6	44
241	Microfabricated devices for oral drug delivery. <i>Lab on A Chip</i> , 2018 , 18, 2348-2358	7.2	44
240	Real-time single airborne nanoparticle detection with nanomechanical resonant filter-fiber. <i>Scientific Reports</i> , 2013 , 3, 1288	4.9	43
239	Single-Crystalline Gold Nanodisks on WS ₂ Mono- and Multilayers for Strong Coupling at Room Temperature. <i>ACS Photonics</i> , 2019 , 6, 994-1001	6.3	42
238	Design, fabrication and testing of a novel MEMS resonator for mass sensing applications. <i>Microelectronic Engineering</i> , 2007 , 84, 1601-1605	2.5	42
237	Fabrication of high-aspect ratio SU-8 micropillar arrays. <i>Microelectronic Engineering</i> , 2012 , 98, 483-487	2.5	37

236	Resonators with integrated CMOS circuitry for mass sensing applications, fabricated by electron beam lithography. <i>Nanotechnology</i> , 2005 , 16, 98-102	3.4	36
235	Nonlinear current-voltage characteristics at quantum Hall resistance minima. <i>Physical Review B</i> , 1994 , 50, 1957-1960	3.3	35
234	Hacking CD/DVD/Blu-ray for Biosensing. <i>ACS Sensors</i> , 2018 , 3, 1222-1232	9.2	34
233	Monolithic integration of mass sensing nano-cantilevers with CMOS circuitry. <i>Sensors and Actuators A: Physical</i> , 2003 , 105, 311-319	3.9	34
232	Lab-on-a-disc agglutination assay for protein detection by optomagnetic readout and optical imaging using nano- and micro-sized magnetic beads. <i>Biosensors and Bioelectronics</i> , 2016 , 85, 351-357	11.8	34
231	Non-covalent conjugates of single-walled carbon nanotubes and folic acid for interaction with cells over-expressing folate receptors. <i>Journal of Materials Chemistry B</i> , 2013 , 1, 1475-1481	7.3	33
230	Thiol- and disulfide-modified oligonucleotide monolayer structures on polycrystalline and single-crystal Au(111) surfaces. <i>Journal of Solid State Electrochemistry</i> , 2004 , 8, 474-481	2.6	33
229	Detecting forensic substances using commercially available SERS substrates and handheld Raman spectrometers. <i>Talanta</i> , 2018 , 189, 649-652	6.2	32
228	Low-power photothermal probing of single plasmonic nanostructures with nanomechanical string resonators. <i>Nano Letters</i> , 2014 , 14, 2318-21	11.5	32
227	Fabrication of thin SU-8 cantilevers: initial bending, release and time stability. <i>Journal of Micromechanics and Microengineering</i> , 2010 , 20, 045024	2	32
226	High throughput label-free platform for statistical bio-molecular sensing. <i>Lab on A Chip</i> , 2011 , 11, 2411-6.2	6.2	32
225	Integrated optical readout for miniaturization of cantilever-based sensor system. <i>Applied Physics Letters</i> , 2007 , 91, 103512	3.4	32
224	An approach to a multi-walled carbon nanotube based mass sensor. <i>Microelectronic Engineering</i> , 2004 , 73-74, 670-674	2.5	32
223	Wafer-Scale Nanopillars Derived from Block Copolymer Lithography for Surface-Enhanced Raman Spectroscopy. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 15668-75	9.5	31
222	System on chip mass sensor based on polysilicon cantilevers arrays for multiple detection. <i>Sensors and Actuators A: Physical</i> , 2006 , 132, 154-164	3.9	31
221	Dry release of all-polymer structures. <i>Microelectronic Engineering</i> , 2005 , 78-79, 88-92	2.5	31
220	Micro-differential thermal analysis detection of adsorbed explosive molecules using microfabricated bridges. <i>Review of Scientific Instruments</i> , 2009 , 80, 035102	1.7	30
219	Microcontainers as an oral delivery system for spray dried cubosomes containing ovalbumin. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2017 , 118, 13-20	5.7	29

218	Cantilever surface stress sensors with single-crystalline silicon piezoresistors. <i>Applied Physics Letters</i> , 2005 , 86, 203502	3.4	29
217	Towards quantitative SERS detection of hydrogen cyanide at ppb level for human breath analysis. <i>Sensing and Bio-Sensing Research</i> , 2015 , 5, 84-89	3.3	28
216	pH-triggered drug release from biodegradable microwells for oral drug delivery. <i>Biomedical Microdevices</i> , 2015 , 17, 9958	3.7	28
215	Optimized plasma-deposited fluorocarbon coating for dry release and passivation of thin SU-8 cantilevers. <i>Journal of Vacuum Science & Technology B</i> , 2007 , 25, 1903		28
214	Adsorption and Vibrational Study of Folic Acid on Gold Nanopillar Structures Using Surface-Enhanced Raman Scattering Spectroscopy. <i>Nanomaterials and Nanotechnology</i> , 2015 , 5, 29	2.9	27
213	Building a multi-walled carbon nanotube-based mass sensor with the atomic force microscope. <i>Ultramicroscopy</i> , 2005 , 105, 233-237	3.1	27
212	Fabrication of submicron suspended structures by laser and atomic force microscopy lithography on aluminum combined with reactive ion etching. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 1998 , 16, 2977		27
211	Fast and quantitative 2D and 3D orientation mapping using Raman microscopy. <i>Nature Communications</i> , 2019 , 10, 5555	17.4	27
210	3D Printing of Reservoir Devices for Oral Drug Delivery: From Concept to Functionality through Design Improvement for Enhanced Mucoadhesion. <i>ACS Biomaterials Science and Engineering</i> , 2020 , 6, 2478-2486	5.5	26
209	Quantitative SERS Assay on a Single Chip Enabled by Electrochemically Assisted Regeneration: A Method for Detection of Melamine in Milk. <i>Analytical Chemistry</i> , 2020 , 92, 4317-4325	7.8	26
208	Photothermal infrared spectroscopy of airborne samples with mechanical string resonators. <i>Analytical Chemistry</i> , 2013 , 85, 10531-5	7.8	26
207	Miniature sensor suitable for electronic nose applications. <i>Review of Scientific Instruments</i> , 2007 , 78, 055101	1.7	26
206	Injection molded lab-on-a-disc platform for screening of genetically modified E. coli using liquid-liquid extraction and surface enhanced Raman scattering. <i>Lab on A Chip</i> , 2018 , 18, 869-877	7.2	25
205	Blu-ray based optomagnetic aptasensor for detection of small molecules. <i>Biosensors and Bioelectronics</i> , 2016 , 75, 396-403	11.8	25
204	Single-layer graphene on silicon nitride micromembrane resonators. <i>Journal of Applied Physics</i> , 2014 , 115, 054513	2.5	25
203	Lab-on-a-disc platform for screening of genetically modified E. coli cells via cell-free electrochemical detection of p-Coumaric acid. <i>Sensors and Actuators B: Chemical</i> , 2017 , 253, 999-1005	8.5	25
202	Microcontainers for protection of oral vaccines, in vitro and in vivo evaluation. <i>Journal of Controlled Release</i> , 2019 , 294, 91-101	11.7	25
201	Injection-Molded Microfluidic Device for SERS Sensing Using Embedded Au-Capped Polymer Nanocones. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 37417-37425	9.5	25

200	Inkjet printing as a technique for filling of micro-wells with biocompatible polymers. <i>Microelectronic Engineering</i> , 2013 , 111, 391-395	2.5	24
199	Fabrication of cantilever based mass sensors integrated with CMOS using direct write laser lithography on resist. <i>Nanotechnology</i> , 2004 , 15, S628-S633	3.4	24
198	Modular design of AFM probe with sputtered silicon tip. <i>Sensors and Actuators A: Physical</i> , 2001 , 92, 96-100	3.9	24
197	Polymeric carriers for enhanced delivery of probiotics. <i>Advanced Drug Delivery Reviews</i> , 2020 , 161-162, 1-21	18.5	24
196	Supercritical impregnation of polymer matrices spatially confined in microcontainers for oral drug delivery: Effect of temperature, pressure and time. <i>Journal of Supercritical Fluids</i> , 2016 , 107, 145-152	4.2	23
195	Reliability of poly 3,4-ethylenedioxythiophene strain gauge. <i>Microelectronic Engineering</i> , 2007 , 84, 1270-1273	2.7	23
194	Electron transfer behaviour of biological macromolecules towards the single-molecule level. <i>Journal of Physics Condensed Matter</i> , 2003 , 15, S1873-S1890	1.8	23
193	Nanopillar Filters for Surface-Enhanced Raman Spectroscopy. <i>ACS Sensors</i> , 2017 , 2, 1400-1404	9.2	22
192	Microcontainers for oral insulin delivery - In vitro studies of permeation enhancement. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2019 , 143, 98-105	5.7	22
191	Orally ingestible medical devices for gut engineering. <i>Advanced Drug Delivery Reviews</i> , 2020 , 165-166, 142-154	18.5	22
190	Biodegradable microcontainers - towards real life applications of microfabricated systems for oral drug delivery. <i>Lab on A Chip</i> , 2019 , 19, 2905-2914	7.2	22
189	Detection of adsorbed explosive molecules using thermal response of suspended microfabricated bridges. <i>Applied Physics Letters</i> , 2008 , 93, 154102	3.4	22
188	On the electromechanical modelling of a resonating nano-cantilever-based transducer. <i>Ultramicroscopy</i> , 2004 , 100, 225-32	3.1	22
187	Powder embossing method for selective loading of polymeric microcontainers with drug formulation. <i>Microelectronic Engineering</i> , 2017 , 171, 20-24	2.5	21
186	SERS detection of the biomarker hydrogen cyanide from <i>Pseudomonas aeruginosa</i> cultures isolated from cystic fibrosis patients. <i>Scientific Reports</i> , 2017 , 7, 45264	4.9	21
185	SU-8 cantilever chip interconnection. <i>Journal of Micromechanics and Microengineering</i> , 2006 , 16, 314-319	2	21
184	AFM lithography for the definition of nanometre scale gaps: application to the fabrication of a cantilever-based sensor with electrochemical current detection. <i>Nanotechnology</i> , 2004 , 15, 771-776	3.4	21
183	Lithography-Free Fabrication of Silica Nanocylinders with Suspended Gold Nanorings for LSPR-Based Sensing. <i>Small</i> , 2016 , 12, 6745-6752	11	21

182	Surface Enhanced Raman Scattering for Quantification of p-Coumaric Acid Produced by Escherichia coli. <i>Analytical Chemistry</i> , 2017 , 89, 3981-3987	7.8	20
181	Spray dried cubosomes with ovalbumin and Quil-A as a nanoparticulate dry powder vaccine formulation. <i>International Journal of Pharmaceutics</i> , 2018 , 550, 35-44	6.5	20
180	Nanomechanical identification of liquid reagents in a microfluidic channel. <i>Lab on A Chip</i> , 2014 , 14, 1302-7.2	7.2	20
179	Large-Scale, Lithography-Free Production of Transparent Nanostructured Surface for Dual-Functional Electrochemical and SERS Sensing. <i>ACS Sensors</i> , 2017 , 2, 1869-1875	9.2	20
178	Diffusion of water into SU-8 microcantilevers. <i>Physical Chemistry Chemical Physics</i> , 2010 , 12, 10577-83	3.6	20
177	Intrinsically conductive polymer thin film piezoresistors. <i>Microelectronic Engineering</i> , 2008 , 85, 969-971	2.5	20
176	Three-dimensional microfabrication in negative resist using printed masks. <i>Journal of Micromechanics and Microengineering</i> , 2006 , 16, 951-957	2	20
175	Double sided surface stress cantilever sensor. <i>Journal of Micromechanics and Microengineering</i> , 2005 , 15, 1088-1091	2	20
174	Novel SU-8 based vacuum wafer-level packaging for MEMS devices. <i>Microelectronic Engineering</i> , 2010 , 87, 1173-1176	2.5	19
173	Epoxy based photoresist/carbon nanoparticle composites. <i>Composites Science and Technology</i> , 2008 , 68, 1831-1836	8.6	19
172	The copper binding properties of metformin--QCM-D, XPS and nanobead agglomeration. <i>Chemical Communications</i> , 2015 , 51, 17313-6	5.8	18
171	Integrated cantilever-based flow sensors with tunable sensitivity for in-line monitoring of flow fluctuations in microfluidic systems. <i>Sensors</i> , 2013 , 14, 229-44	3.8	18
170	Fabrication of resonant micro cantilevers with integrated transparent fluidic channel. <i>Microelectronic Engineering</i> , 2011 , 88, 2300-2303	2.5	18
169	Self-mixing interferometry in vertical-cavity surface-emitting lasers for nanomechanical cantilever sensing. <i>Applied Physics Letters</i> , 2009 , 94, 091103	3.4	18
168	Combined laser and atomic force microscope lithography on aluminum: Mask fabrication for nanoelectromechanical systems. <i>Applied Physics Letters</i> , 1999 , 74, 3206-3208	3.4	18
167	Nanopillar-Assisted SERS Chromatography. <i>ACS Sensors</i> , 2018 , 3, 2492-2498	9.2	18
166	Silver-capped silicon nanopillar platforms for adsorption studies of folic acid using surface enhanced Raman spectroscopy and density functional theory. <i>Journal of Raman Spectroscopy</i> , 2015 , 46, 1087-1094	2.3	17
165	Statistical analysis of DNT detection using chemically functionalized microcantilever arrays. <i>Sensors and Actuators B: Chemical</i> , 2012 , 171-172, 1054-1059	8.5	17

164	Modeling the Kelvin polarization force actuation of micro- and nanomechanical systems. <i>Journal of Applied Physics</i> , 2010 , 107, 054510	2.5	17
163	Polymeric mechanical sensors with piezoresistive readout integrated in a microfluidic system 2003 , 5116, 314		17
162	Hot punching of high-aspect-ratio 3D polymeric microstructures for drug delivery. <i>Lab on A Chip</i> , 2015 , 15, 2576-9	7.2	16
161	Nanomechanical IR spectroscopy for fast analysis of liquid-dispersed engineered nanomaterials. <i>Sensors and Actuators B: Chemical</i> , 2016 , 233, 667-673	8.5	16
160	Investigation of Mucoadhesion and Degradation of PCL and PLGA Microcontainers for Oral Drug Delivery. <i>Polymers</i> , 2019 , 11,	4.5	16
159	Micromechanical String Resonators: Analytical Tool for Thermal Characterization of Polymers. <i>ACS Macro Letters</i> , 2014 , 3, 55-58	6.6	16
158	Hybridisation of short DNA molecules investigated with in situ atomic force microscopy. <i>Ultramicroscopy</i> , 2003 , 97, 257-61	3.1	16
157	Polymeric nano- and microparticulate drug delivery systems for treatment of biofilms. <i>Advanced Drug Delivery Reviews</i> , 2021 , 174, 30-52	18.5	16
156	Optimizing silver-capped silicon nanopillars to simultaneously realize macroscopic, practical-level SERS signal reproducibility and high enhancement at low costs. <i>Journal of Raman Spectroscopy</i> , 2017 , 48, 1808-1818	2.3	15
155	Hot embossing and mechanical punching of biodegradable microcontainers for oral drug delivery. <i>Microelectronic Engineering</i> , 2015 , 133, 104-109	2.5	15
154	Integrating electrochemical detection with centrifugal microfluidics for real-time and fully automated sample testing. <i>RSC Advances</i> , 2015 , 5, 17187-17193	3.7	15
153	Effects of small-angle scattering on Weiss oscillations in a GaAs lateral superlattice. <i>Physical Review B</i> , 1995 , 51, 7333-7336	3.3	15
152	Quantification of a bacterial secondary metabolite by SERS combined with SLM extraction for bioprocess monitoring. <i>Analyst, The</i> , 2017 , 142, 4553-4559	5	14
151	Polymeric Lids for Microcontainers for Oral Protein Delivery. <i>Macromolecular Bioscience</i> , 2019 , 19, e1900004	9.94	14
150	Microcontainer Delivery of Antibiotic Improves Treatment of Pseudomonas aeruginosa Biofilms. <i>Advanced Healthcare Materials</i> , 2020 , 9, e1901779	10.1	14
149	3D microstructuring of biodegradable polymers. <i>Microelectronic Engineering</i> , 2011 , 88, 2342-2344	2.5	14
148	Temperature effects in Au piezoresistors integrated in SU-8 cantilever chips. <i>Journal of Micromechanics and Microengineering</i> , 2006 , 16, 2564-2569	2	14
147	Nanomechanical Infrared Spectroscopy with Vibrating Filters for Pharmaceutical Analysis. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 3901-3905	16.4	13

146	High-throughput label-free detection of Ochratoxin A in wine using supported liquid membrane extraction and Ag-capped silicon nanopillar SERS substrates. <i>Food Control</i> , 2020 , 113, 107183	6.2	13
145	Fabrication and characterization of SRN/SU-8 bimorph cantilevers for temperature sensing. <i>Microelectronic Engineering</i> , 2011 , 88, 2311-2313	2.5	13
144	Surface functionalization of epoxy-resist- based microcantilevers with iron oxide nanocrystals. <i>Advanced Materials</i> , 2010 , 22, 3288-92	24	13
143	Atomic force microscope characterization of a resonating nanocantilever. <i>Ultramicroscopy</i> , 2003 , 97, 127-33	3.1	13
142	Ex vivo intestinal perfusion model for investigating mucoadhesion of microcontainers. <i>International Journal of Pharmaceutics</i> , 2019 , 570, 118658	6.5	12
141	Angle resolved characterization of nanostructured and conventionally textured silicon solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2015 , 140, 134-140	6.4	12
140	Long lasting mucoadhesive membrane based on alginate and chitosan for intravaginal drug delivery. <i>Journal of Materials Science: Materials in Medicine</i> , 2020 , 31, 25	4.5	12
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