Anja Mz Boisen

List of Publications by Year
in descending order

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334 papers	13,433 citations	25034 57 h-index	31849 101 g-index
338 all docs	338 docs citations	338 times ranked	12994 citing authors

#	Article	IF	Citations
1	Present and Future of Surface-Enhanced Raman Scattering. ACS Nano, 2020, 14, 28-117.	14.6	2,153
2	Cantilever-like micromechanical sensors. Reports on Progress in Physics, 2011, 74, 036101.	20.1	473
3	Large Area Fabrication of Leaning Silicon Nanopillars for Surface Enhanced Raman Spectroscopy. Advanced Materials, 2012, 24, OP11-8.	21.0	281
4	Environmental sensors based on micromachined cantilevers with integrated read-out. Ultramicroscopy, 2000, 82, 11-16.	1.9	266
5	Gold cleaning methods for electrochemical detection applications. Microelectronic Engineering, 2009, 86, 1282-1285.	2.4	257
6	Enhanced functionality of cantilever based mass sensors using higher modes. Applied Physics Letters, 2005, 86, 233501.	3.3	241
7	Enhanced Lightâ€“Matter Interactions in Graphene-Covered Gold Nanovoid Arrays. Nano Letters, 2013, 13, 4690-4696.	9.1	204
8	Cantilever Sensors: Nanomechanical Tools for Diagnostics. MRS Bulletin, 2009, 34, 449-454.	3.5	170
9	Optimised cantilever biosensor with piezoresistive read-out. Ultramicroscopy, 2003, 97, 371-376.	1.9	167
10	Highly sensitive polymer-based cantilever-sensors for DNA detection. Ultramicroscopy, 2005, 105, 215-222.	1.9	153
11	Atomic force microscopy probe with piezoresistive read-out and a highly symmetrical Wheatstone bridge arrangement. Sensors and Actuators A: Physical, 2000, 83, 47-53.	4.1	146
12	Damping mechanisms in high-<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>Q</mml:mi></mml:math>micro and nanomechanical string resonators. Physical Review B, 2011, 84, .	3.2	146
13	Nanobubble Trouble on Gold Surfaces. Langmuir, 2003, 19, 10510-10513.	3.5	145
14	Optimization of sensitivity and noise in piezoresistive cantilevers. Journal of Applied Physics, 2002, 92, 6296-6301.	2.5	141
15	A microcantilever-based alcohol vapor sensor-application and response model. Applied Physics Letters, 2000, 76, 2615-2617.	3.3	140
16	Adsorption kinetics and mechanical properties of thiol-modified DNA-oligos on gold investigated by microcantilever sensors. Ultramicroscopy, 2002, 91, 29-36.	1.9	133
17	Processing of thin SU-8 films. Journal of Micromechanics and Microengineering, 2008, 18, 125020.	2.6	132
18	SU-8 Cantilevers for Bio/chemical Sensing; Fabrication, Characterisation and Development of Novel Read-out Methods. Sensors, 2008, 8, 1595-1612.	3.8	127

#	Article	IF	Citations
19	Surface-Enhanced Raman Spectroscopy Based Quantitative Bioassay on Aptamer-Functionalized Nanopillars Using Large-Area Raman Mapping. ACS Nano, 2013, 7, 5350-5359.	14.6	124
20	Fabrication and characterization of nanoresonating devices for mass detection. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 2000, 18, 612.	1.6	116
21	Temperature and pressure dependence of resonance in multi-layer microcantilevers. Journal of Micromechanics and Microengineering, 2005, 15, 1454-1458.	2.6	107
22	Design & fabrication of cantilever array biosensors. Materials Today, 2009, 12, 32-38.	14.2	107
23	Electromechanical model of a resonating nano-cantilever-based sensor for high-resolution and high-sensitivity mass detection. Nanotechnology, 2001, 12, 100-104.	2.6	106
24	Nonlinear optomechanical measurement of mechanical motion. Nature Communications, 2016, 7, 10988.	12.8	106
25	Ultrasensitive mass sensor fully integrated with complementary metal-oxide-semiconductor circuitry. Applied Physics Letters, 2005, 87, 043507.	3.3	105
26	Micromotors for drug delivery in vivo: The road ahead. Advanced Drug Delivery Reviews, 2019, 138, 41-55.	13.7	99
27	Single-Mode Waveguides With SU-8 Polymer Core and Cladding for MOEMS Applications. Journal of Lightwave Technology, 2007, 25, 1284-1289.	4.6	94
28	Rendering SU-8 hydrophilic to facilitate use in micro channel fabrication. Journal of Micromechanics and Microengineering, 2004, 14, 1614-1617.	2.6	91
29	Detection of nerve gases using surface-enhanced Raman scattering substrates with high droplet adhesion. Nanoscale, 2016, 8, 1305-1308.	5.6	91
30	Effect of gold coating on theQ-factor of a resonant cantilever. Journal of Micromechanics and Microengineering, 2005, 15, 2249-2253.	2.6	90
31	Scanning microscopic four-point conductivity probes. Sensors and Actuators A: Physical, 2002, 96, 53-58.	4.1	87
32	Online measurement of mass density and viscosity of pL fluid samples with suspended microchannel resonator. Sensors and Actuators B: Chemical, 2013, 185, 456-461.	7.8	82
33	Process Optimization of Ultrasonic Spray Coating of Polymer Films. Langmuir, 2013, 29, 6911-6919.	3.5	82
34	AFM probes with directly fabricated tips. Journal of Micromechanics and Microengineering, 1996, 6, 58-62.	2.6	81
35	Immobilisation of DNA to polymerised SU-8 photoresist. Biosensors and Bioelectronics, 2006, 21, 1327-1332.	10.1	81
36	Microfabricated photoplastic cantilever with integrated photoplastic/carbon based piezoresistive strain sensor. Applied Physics Letters, 2006, 88, 113508.	3.3	81

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37	Hand-Held Femtogram Detection of Hazardous Picric Acid with Hydrophobic Ag Nanopillar SERS Substrates and Mechanism of Elasto-Capillarity. ACS Sensors, 2017, 2, 198-202.	7.8	81
38	Single-Crystalline Gold Nanodisks on WS₂ Mono- and Multilayers for Strong Coupling at Room Temperature. ACS Photonics, 2019, 6, 994-1001.	6.6	80
39	Ultrasensitive string-based temperature sensors. Applied Physics Letters, 2011, 98, .	3.3	77
40	Quantitative Detection of Trace Level Cloxacillin in Food Samples Using Magnetic Molecularly Imprinted Polymer Extraction and Surface-Enhanced Raman Spectroscopy Nanopillars. Analytical Chemistry, 2017, 89, 11484-11490.	6.5	74
41	Development of electrosprayed mucoadhesive chitosan microparticles. Carbohydrate Polymers, 2018, 190, 240-247.	10.2	73
42	SU-8 cantilever sensor system with integrated readout. Sensors and Actuators A: Physical, 2005, 123-124, 111-115.	4.1	71
43	Wafer-Scale Leaning Silver Nanopillars for Molecular Detection at Ultra-Low Concentrations. Journal of Physical Chemistry C, 2015, 119, 2053-2062.	3.1	71
44	Real-Time Particle Mass Spectrometry Based on Resonant Micro Strings. Sensors, 2010, 10, 8092-8100.	3.8	70
45	Polymeric cantilever-based biosensors with integrated readout. Applied Physics Letters, 2006, 89, 173505.	3.3	68
46	Polymeric Cantilever Arrays for Biosensing Applications. Sensor Letters, 2003, 1, 20-24.	0.4	68
47	AFM lithography of aluminum for fabrication of nanomechanical systems. Ultramicroscopy, 2003, 97, 467-472.	1.9	67
48	Low-noise polymeric nanomechanical biosensors. Applied Physics Letters, 2006, 88, 113901.	3.3	66
49	Polymeric carriers for enhanced delivery of probiotics. Advanced Drug Delivery Reviews, 2020, 161-162, 1-21.	13.7	66
50	Scalable DNA-Based Magnetic Nanoparticle Agglutination Assay for Bacterial Detection in Patient Samples. ACS Nano, 2015, 9, 7374-7382.	14.6	65
51	Position and mass determination of multiple particles using cantilever based mass sensors. Applied Physics Letters, 2010, 97, .	3.3	63
52	Quantification of NS1 dengue biomarker in serum via optomagnetic nanocluster detection. Scientific Reports, 2015, 5, 16145.	3.3	62
53	Polymeric nano- and microparticulate drug delivery systems for treatment of biofilms. Advanced Drug Delivery Reviews, 2021, 174, 30-52.	13.7	62
54	Noise in piezoresistive atomic force microscopy. Nanotechnology, 1999, 10, 51-60.	2.6	61

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55	Polymer-filled microcontainers for oral delivery loaded using supercritical impregnation. Journal of Controlled Release, 2014, 173, 1-9.	9.9	61
56	Black silicon laser-doped selective emitter solar cell with 18.1% efficiency. Solar Energy Materials and Solar Cells, 2016, 144, 740-747.	6.2	61
57	Microfabricated devices for oral drug delivery. Lab on A Chip, 2018, 18, 2348-2358.	6.0	61
58	Design, fabrication, and characterization of a submicroelectromechanical resonator with monolithically integrated CMOS readout circuit. Journal of Microelectromechanical Systems, 2005, 14, 508-519.	2.5	59
59	Polymeric microcontainers improve oral bioavailability of furosemide. International Journal of Pharmaceutics, 2016, 504, 98-109.	5.2	59
60	Adsorption and Interfacial Electron Transfer ofSaccharomycesCerevisiaeYeast CytochromecMonolayers on Au(111) Electrodes. Langmuir, 2003, 19, 3419-3427.	3.5	58
61	Photothermal Analysis of Individual Nanoparticulate Samples Using Micromechanical Resonators. ACS Nano, 2013, 7, 6188-6193.	14.6	57
62	Gold Nanoparticles Sliding on Recyclable Nanohoodoosâ€"Engineered for Surfaceâ€Enhanced Raman Spectroscopy. Advanced Functional Materials, 2018, 28, 1704818.	14.9	57
63	Investigation of the bond strength between the photo-sensitive polymer SU-8 and gold. Microelectronic Engineering, 2005, 78-79, 152-157.	2.4	56
64	Aluminum nanocantilevers for high sensitivity mass sensors. Applied Physics Letters, 2005, 87, 013102.	3.3	55
65	Real-time single airborne nanoparticle detection with nanomechanical resonant filter-fiber. Scientific Reports, 2013, 3, 1288.	3.3	55
66	From concept to in vivo testing: Microcontainers for oral drug delivery. Journal of Controlled Release, 2017, 268, 343-351.	9.9	55
67	Design, fabrication and testing of a novel MEMS resonator for mass sensing applications. Microelectronic Engineering, 2007, 84, 1601-1605.	2.4	54
68	Spatial confinement can lead to increased stability of amorphous indomethacin. European Journal of Pharmaceutics and Biopharmaceutics, 2012, 81, 418-425.	4.3	54
69	Detection methods for centrifugal microfluidic platforms. Biosensors and Bioelectronics, 2016, 76, 54-67.	10.1	54
70	Hacking CD/DVD/Blu-ray for Biosensing. ACS Sensors, 2018, 3, 1222-1232.	7.8	53
71	Detecting forensic substances using commercially available SERS substrates and handheld Raman spectrometers. Talanta, 2018, 189, 649-652.	5.5	53
72	Quantitative SERS Assay on a Single Chip Enabled by Electrochemically Assisted Regeneration: A Method for Detection of Melamine in Milk. Analytical Chemistry, 2020, 92, 4317-4325.	6.5	53

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73	Plasmon resonances of Ag capped Si nanopillars fabricated using mask-less lithography. Optics Express, 2015, 23, 12965.	3.4	52
74	Functionalization of SU-8 photoresist surfaces with IgG proteins. Applied Surface Science, 2008, 255, 2896-2902.	6.1	50
75	Quantification of rolling circle amplified DNA using magnetic nanobeads and a Blu-ray optical pick-up unit. Biosensors and Bioelectronics, 2015, 67, 649-655.	10.1	50
76	Fabrication of high-aspect ratio SU-8 micropillar arrays. Microelectronic Engineering, 2012, 98, 483-487.	2.4	49
77	Non-covalent conjugates of single-walled carbon nanotubes and folic acid for interaction with cells over-expressing folate receptors. Journal of Materials Chemistry B, 2013, 1, 1475.	5.8	45
78	Monolithic integration of mass sensing nano-cantilevers with CMOS circuitry. Sensors and Actuators A: Physical, 2003, 105, 311-319.	4.1	43
79	Integrated optical readout for miniaturization of cantilever-based sensor system. Applied Physics Letters, 2007, 91, 103512.	3.3	41
80	Lab-on-a-disc agglutination assay for protein detection by optomagnetic readout and optical imaging using nano- and micro-sized magnetic beads. Biosensors and Bioelectronics, 2016, 85, 351-357.	10.1	40
81	Fast and quantitative 2D and 3D orientation mapping using Raman microscopy. Nature Communications, 2019, 10, 5555.	12.8	40
82	Resonators with integrated CMOS circuitry for mass sensing applications, fabricated by electron beam lithography. Nanotechnology, 2005, 16, 98-102.	2.6	39
83	Micro-differential thermal analysis detection of adsorbed explosive molecules using microfabricated bridges. Review of Scientific Instruments, 2009, 80, 035102.	1.3	39
84	Low-Power Photothermal Probing of Single Plasmonic Nanostructures with Nanomechanical String Resonators. Nano Letters, 2014, 14, 2318-2321.	9.1	39
85	Microcontainers as an oral delivery system for spray dried cubosomes containing ovalbumin. European Journal of Pharmaceutics and Biopharmaceutics, 2017, 118, 13-20.	4.3	39
86	Orally ingestible medical devices for gut engineering. Advanced Drug Delivery Reviews, 2020, 165-166, 142-154.	13.7	39
87	System on chip mass sensor based on polysilicon cantilevers arrays for multiple detection. Sensors and Actuators A: Physical, 2006, 132, 154-164.	4.1	38
88	3D Printing of Reservoir Devices for Oral Drug Delivery: From Concept to Functionality through Design Improvement for Enhanced Mucoadhesion. ACS Biomaterials Science and Engineering, 2020, 6, 2478-2486.	5.2	38
89	Nonlinear current-voltage characteristics at quantum Hall resistance minima. Physical Review B, 1994, 50, 1957-1960.	3.2	37
90	Thiol- and disulfide-modified oligonucleotide monolayer structures on polycrystalline and single-crystal Au(111) surfaces. Journal of Solid State Electrochemistry, 2004, 8, 474-481.	2.5	37

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91	Dry release of all-polymer structures. Microelectronic Engineering, 2005, 78-79, 88-92.	2.4	37
92	Mass spec goes nanomechanical. Nature Nanotechnology, 2009, 4, 404-405.	31.5	37
93	Fabrication of thin SU-8 cantilevers: initial bending, release and time stability. Journal of Micromechanics and Microengineering, 2010, 20, 045024.	2.6	37
94	High throughput label-free platform for statistical bio-molecular sensing. Lab on A Chip, 2011, 11, 2411.	6.0	37
95	Wafer-Scale Nanopillars Derived from Block Copolymer Lithography for Surface-Enhanced Raman Spectroscopy. ACS Applied Materials & Interfaces, 2016, 8, 15668-15675.	8.0	37
96	Injection-Molded Microfluidic Device for SERS Sensing Using Embedded Au-Capped Polymer Nanocones. ACS Applied Materials & Interfaces, 2018, 10, 37417-37425.	8.0	37
97	An approach to a multi-walled carbon nanotube based mass sensor. Microelectronic Engineering, 2004, 73-74, 670-674.	2.4	34
98	Cantilever surface stress sensors with single-crystalline silicon piezoresistors. Applied Physics Letters, 2005, 86, 203502.	3.3	34
99	Towards quantitative SERS detection of hydrogen cyanide at ppb level for human breath analysis. Sensing and Bio-Sensing Research, 2015, 5, 84-89.	4.2	34
100	Microcontainers for protection of oral vaccines, in vitro and in vivo evaluation. Journal of Controlled Release, 2019, 294, 91-101.	9.9	34
101	Fabrication of submicron suspended structures by laser and atomic force microscopy lithography on aluminum combined with reactive ion etching. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 1998, 16, 2977.	1.6	33
102	Photothermal Infrared Spectroscopy of Airborne Samples with Mechanical String Resonators. Analytical Chemistry, 2013, 85, 10531-10535.	6.5	33
103	Single-layer graphene on silicon nitride micromembrane resonators. Journal of Applied Physics, 2014, 115, 054513.	2.5	33
104	Adsorption and Vibrational Study of Folic Acid on Gold Nanopillar Structures Using Surface-Enhanced Raman Scattering Spectroscopy. Nanomaterials and Nanotechnology, 2015, 5, 29.	3.0	33
105	Nanopillar-Assisted SERS Chromatography. ACS Sensors, 2018, 3, 2492-2498.	7.8	32
106	Building a multi-walled carbon nanotube-based mass sensor with the atomic force microscope. Ultramicroscopy, 2005, 105, 233-237.	1.9	31
107	Miniature sensor suitable for electronic nose applications. Review of Scientific Instruments, 2007, 78, 055101.	1.3	31
108	Lab-on-a-disc platform for screening of genetically modified E. coli cells via cell-free electrochemical detection of p-Coumaric acid. Sensors and Actuators B: Chemical, 2017, 253, 999-1005.	7.8	31

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109	Injection molded lab-on-a-disc platform for screening of genetically modified E. coli using liquidâ€“liquid extraction and surface enhanced Raman scattering. Lab on A Chip, 2018, 18, 869-877.	6.0	31
110	Microcontainers for oral insulin delivery â€“ In vitro studies of permeation enhancement. European Journal of Pharmaceutics and Biopharmaceutics, 2019, 143, 98-105.	4.3	31
111	Optimized plasma-deposited fluorocarbon coating for dry release and passivation of thin SU-8 cantilevers. Journal of Vacuum Science & Technology B, 2007, 25, 1903.	1.3	30
112	Spray dried cubosomes with ovalbumin and Quil-A as a nanoparticulate dry powder vaccine formulation. International Journal of Pharmaceutics, 2018, 550, 35-44.	5.2	30
113	Integrated Cantilever-Based Flow Sensors with Tunable Sensitivity for In-Line Monitoring of Flow Fluctuations in Microfluidic Systems. Sensors, 2014, 14, 229-244.	3.8	29
114	pH-triggered drug release from biodegradable microwells for oral drug delivery. Biomedical Microdevices, 2015, 17, 9958.	2.8	29
115	Blu-ray based optomagnetic aptasensor for detection of small molecules. Biosensors and Bioelectronics, 2016, 75, 396-403.	10.1	29
116	High-throughput label-free detection of Ochratoxin A in wine using supported liquid membrane extraction and Ag-capped silicon nanopillar SERS substrates. Food Control, 2020, 113, 107183.	5.5	29
117	Modular design of AFM probe with sputtered silicon tip. Sensors and Actuators A: Physical, 2001, 92, 96-101.	4.1	28
118	On the electromechanical modelling of a resonating nano-cantilever-based transducer. Ultramicroscopy, 2004, 100, 225-232.	1.9	28
119	Supercritical impregnation of polymer matrices spatially confined in microcontainers for oral drug delivery: Effect of temperature, pressure and time. Journal of Supercritical Fluids, 2016, 107, 145-152.	3.2	28
120	Nanopillar Filters for Surface-Enhanced Raman Spectroscopy. ACS Sensors, 2017, 2, 1400-1404.	7.8	28
121	Biodegradable microcontainers â€“ towards real life applications of microfabricated systems for oral drug delivery. Lab on A Chip, 2019, 19, 2905-2914.	6.0	28
122	Fabrication of cantilever based mass sensors integrated with CMOS using direct write laser lithography on resist. Nanotechnology, 2004, 15, S628-S633.	2.6	27
123	Detection of adsorbed explosive molecules using thermal response of suspended microfabricated bridges. Applied Physics Letters, 2008, 93, 154102.	3.3	27
124	Large-Scale, Lithography-Free Production of Transparent Nanostructured Surface for Dual-Functional Electrochemical and SERS Sensing. ACS Sensors, 2017, 2, 1869-1875.	7.8	27
125	Electron transfer behaviour of biological macromolecules towards the single-molecule level. Journal of Physics Condensed Matter, 2003, 15, S1873-S1890.	1.8	26
126	Reliability of poly 3,4-ethylenedioxythiophene strain gauge. Microelectronic Engineering, 2007, 84, 1270-1273.	2.4	26

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127	Diffusion of water into SU-8 microcantilevers. Physical Chemistry Chemical Physics, 2010, 12, 10577.	2.8	26
128	Nanomechanical identification of liquid reagents in a microfluidic channel. Lab on A Chip, 2014, 14, 1302-1307.	6.0	26
129	SERS detection of the biomarker hydrogen cyanide from Pseudomonas aeruginosa cultures isolated from cystic fibrosis patients. Scientific Reports, 2017, 7, 45264.	3.3	26
130	Novel SU-8 based vacuum wafer-level packaging for MEMS devices. Microelectronic Engineering, 2010, 87, 1173-1176.	2.4	25
131	Inkjet printing as a technique for filling of micro-wells with biocompatible polymers. Microelectronic Engineering, 2013, 111, 391-395.	2.4	25
132	Lithographyâ€Free Fabrication of Silica Nanocylinders with Suspended Gold Nanorings for LSPRâ€Based Sensing. Small, 2016, 12, 6745-6752.	10.0	25
133	Design of a self-unfolding delivery concept for oral administration of macromolecules. Journal of Controlled Release, 2021, 329, 948-954.	9.9	24
134	Quantification of Methotrexate in Human Serum Using Surface-Enhanced Raman Scatteringâ€"Toward Therapeutic Drug Monitoring. ACS Sensors, 2021, 6, 2664-2673.	7.8	24
135	Three-dimensional microfabrication in negative resist using printed masks. Journal of Micromechanics and Microengineering, 2006, 16, 951-957.	2.6	23
136	Intrinsically conductive polymer thin film piezoresistors. Microelectronic Engineering, 2008, 85, 969-971.	2.4	23
137	Powder embossing method for selective loading of polymeric microcontainers with drug formulation. Microelectronic Engineering, 2017, 171, 20-24.	2.4	23
138	Double sided surface stress cantilever sensor. Journal of Micromechanics and Microengineering, 2005, 15, 1088-1091.	2.6	22
139	Self-mixing interferometry in vertical-cavity surface-emitting lasers for nanomechanical cantilever sensing. Applied Physics Letters, 2009, 94, .	3.3	22
140	Surface Enhanced Raman Scattering for Quantification of p-Coumaric Acid Produced by Escherichia coli. Analytical Chemistry, 2017, 89, 3981-3987.	6.5	22
141	Nanomechanical Infrared Spectroscopy with Vibrating Filters for Pharmaceutical Analysis. Angewandte Chemie - International Edition, 2017, 56, 3901-3905.	13.8	22
142	Investigation of Mucoadhesion and Degradation of PCL and PLGA Microcontainers for Oral Drug Delivery. Polymers, 2019, 11, 1828.	4.5	22
143	Combined laser and atomic force microscope lithography on aluminum: Mask fabrication for nanoelectromechanical systems. Applied Physics Letters, 1999, 74, 3206-3208.	3.3	21
144	AFM lithography for the definition of nanometre scale gaps: application to the fabrication of a cantilever-based sensor with electrochemical current detection. Nanotechnology, 2004, 15, 771-776.	2.6	21

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145	SU-8 cantilever chip interconnection. Journal of Micromechanics and Microengineering, 2006, 16, 314-319.	2.6	21
146	Modeling the Kelvin polarization force actuation of micro- and nanomechanical systems. Journal of Applied Physics, 2010, 107, .	2.5	21
147	Fabrication of resonant micro cantilevers with integrated transparent fluidic channel. Microelectronic Engineering, 2011, 88, 2300-2303.	2.4	21
148	Statistical analysis of DNT detection using chemically functionalized microcantilever arrays. Sensors and Actuators B: Chemical, 2012, 171-172, 1054-1059.	7.8	21
149	Silverâ€capped silicon nanopillar platforms for adsorption studies of folic acid using surface enhanced Raman spectroscopy and density functional theory. Journal of Raman Spectroscopy, 2015, 46, 1087-1094.	2.5	21
150	Nanomechanical IR spectroscopy for fast analysis of liquid-dispersed engineered nanomaterials. Sensors and Actuators B: Chemical, 2016, 233, 667-673.	7.8	21
151	Long lasting mucoadhesive membrane based on alginate and chitosan for intravaginal drug delivery. Journal of Materials Science: Materials in Medicine, 2020, 31, 25.	3.6	21
152	Angle resolved characterization of nanostructured and conventionally textured silicon solar cells. Solar Energy Materials and Solar Cells, 2015, 140, 134-140.	6.2	20
153	The copper binding properties of metformin â€“ QCM-D, XPS and nanobead agglomeration. Chemical Communications, 2015, 51, 17313-17316.	4.1	20
154	Optimizing silverâ€capped silicon nanopillars to simultaneously realize macroscopic, practicalâ€level <scp>SERS</scp> signal reproducibility and high enhancement at low costs. Journal of Raman Spectroscopy, 2017, 48, 1808-1818.	2.5	20
155	Ex vivo intestinal perfusion model for investigating mucoadhesion of microcontainers. International Journal of Pharmaceutics, 2019, 570, 118658.	5.2	20
156	In Vitro, Ex Vivo and In Vivo Evaluation of Microcontainers for Oral Delivery of Insulin. Pharmaceutics, 2020, 12, 48.	4.5	20
157	Epoxy based photoresist/carbon nanoparticle composites. Composites Science and Technology, 2008, 68, 1831-1836.	7.8	19
158	Micro-calorimetric sensor for vapor phase explosive detection with optimized heat profile. Microelectronic Engineering, 2010, 87, 696-698.	2.4	19
159	Micromechanical String Resonators: Analytical Tool for Thermal Characterization of Polymers. ACS Macro Letters, 2014, 3, 55-58.	4.8	19
160	Integrating electrochemical detection with centrifugal microfluidics for real-time and fully automated sample testing. RSC Advances, 2015, 5, 17187-17193.	3.6	19
161	Combined detection of C-reactive protein and PBMC quantification from whole blood in an integrated lab-on-a-disc microfluidic platform. Sensors and Actuators B: Chemical, 2018, 272, 634-642.	7.8	19
162	Colon-Specific Delivery of Bioactive Agents Using Genipin-Cross-Linked Chitosan Coated Microcontainers. ACS Applied Bio Materials, 2021, 4, 752-762.	4.6	19

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163	Hybridisation of short DNA molecules investigated with in situ atomic force microscopy. Ultramicroscopy, 2003, 97, 257-261.	1.9	18
164	Polymeric mechanical sensors with piezoresistive readout integrated in a microfluidic system. , 2003, 5116, 314.		18
165	Hot punching of high-aspect-ratio 3D polymeric microstructures for drug delivery. Lab on A Chip, 2015, 15, 2576-2579.	6.0	18
166	Modular, Lightweight, Wireless Potentiostat-on-a-Disc for Electrochemical Detection in Centrifugal Microfluidics. Analytical Chemistry, 2019, 91, 11620-11628.	6.5	18
167	Selective surface-enhanced Raman scattering detection of Tabun, VX and Cyclosarin nerve agents using 4-pyridine amide oxime functionalized gold nanopillars. Talanta, 2020, 211, 120721.	5.5	18
168	Hot embossing and mechanical punching of biodegradable microcontainers for oral drug delivery. Microelectronic Engineering, 2015, 133, 104-109.	2.4	17
169	Polymeric Lids for Microcontainers for Oral Protein Delivery. Macromolecular Bioscience, 2019, 19, e1900004.	4.1	17
170	Microcontainer Delivery of Antibiotic Improves Treatment of Pseudomonas aeruginosa Biofilms. Advanced Healthcare Materials, 2020, 9, e1901779.	7.6	17
171	Atomic force microscope characterization of a resonating nanocantilever. Ultramicroscopy, 2003, 97, 127-133.	1.9	16
172	Fabrication of a cantilever-based microfluidic flow meter with nL min^{â^'1}resolution. Journal of Micromechanics and Microengineering, 2011, 21, 015007.	2.6	16
173	Fabrication and characterization of Au dimer antennas on glass pillars with enhanced plasmonic response. Nanophotonics, 2017, 7, 497-505.	6.0	16
174	Waferâ€Scale Polymerâ€Based Transparent Nanocorals with Excellent Nanoplasmonic Photothermal Stability for Highâ€Power and Superfast SERS Imaging. Advanced Optical Materials, 2019, 7, 1901413.	7.3	16
175	Extraction, Enrichment, and in situ Electrochemical Detection on Lab-on-a-Disc: Monitoring the Production of a Bacterial Secondary Metabolite. ACS Sensors, 2019, 4, 398-405.	7.8	16
176	Cubic Microcontainers Improve In Situ Colonic Mucoadhesion and Absorption of Amoxicillin in Rats. Pharmaceutics, 2020, 12, 355.	4.5	16
177	Micro and nanoscale 3D printing using optical pickup unit from a gaming console. Communications Physics, 2021, 4, .	5.3	16
178	Effects of small-angle scattering on Weiss oscillations in a GaAs lateral superlattice. Physical Review B, 1995, 51, 7333-7336.	3.2	15
179	Photochemical Modification and Patterning of SU-8 Using Anthraquinone Photolinkers. Langmuir, 2008, 24, 9929-9932.	3.5	15
180	3D microstructuring of biodegradable polymers. Microelectronic Engineering, 2011, 88, 2342-2344.	2.4	15

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181	Fabrication and characterization of SRN/SU-8 bimorph cantilevers for temperature sensing. Microelectronic Engineering, 2011, 88, 2311-2313.	2.4	15
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