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	Optimizing oral delivery of next generation probiotics. Trends in Food Science and Technology, 2022, 119, 101-109.	15.1	15
2	Open source anaerobic and temperature-controlled in vitro model enabling real-time release studies with live bacteria. HardwareX, 2022, 11, e00275.	2.2	1
3	Impact of oral gavage technique of drug-containing microcontainers on the gastrointestinal transit and absorption in rats. International Journal of Pharmaceutics, 2022, 618, 121630.	5.2	1
4	Self-propelled Janus micromotors for pH-responsive release of small molecule drug. Applied Materials Today, 2022, 27, 101418.	4.3	9
5	Visualizing undyed microplastic particles and fibers with plasmon-enhanced fluorescence. Chemical Engineering Journal, 2022, 442, 136117.	12.7	9
6	Open-source force analyzer with broad sensing range based on an optical pickup unit. HardwareX, 2022, 11, e00308.	2.2	2
7	Methotrexate Detection in Serum at Clinically Relevant Levels with Electrochemically Assisted SERS on a Benchtop, Custom Built Raman Spectrometer. ACS Sensors, 2022, 7, 2358-2369.	7.8	12
8	Gradient Droplet Arrays by Accelerationâ€Mode Dipâ€Coating. Advanced Materials Interfaces, 2022, 9, .	3.7	1
9	Design of a self-unfolding delivery concept for oral administration of macromolecules. Journal of Controlled Release, 2021, 329, 948-954.	9.9	24
10	Tissue-based biosensor for monitoring the antioxidant effect of orally administered drugs in the intestine. Bioelectrochemistry, 2021, 138, 107720.	4.6	13
11	Micro and nanoscale 3D printing using optical pickup unit from a gaming console. Communications Physics, 2021, 4, .	5.3	16
12	Consumer-Grade Inkjet Printer for Versatile and Precise Chemical Deposition. ACS Omega, 2021, 6, 7786-7794.	3.5	3
13	Co-delivery of ciprofloxacin and colistin using microcontainers for bacterial biofilm treatment. International Journal of Pharmaceutics, 2021, 599, 120420.	5.2	3
14	X-ray Imaging for Gastrointestinal Tracking of Microscale Oral Drug Delivery Devices. ACS Biomaterials Science and Engineering, 2021, 7, 2538-2547.	5.2	13
15	In vitro and in vivo comparison of microcontainers and microspheres for oral drug delivery. International Journal of Pharmaceutics, 2021, 600, 120516.	5.2	7
16	(Invited) Resonator and SERS Sensing in the Field of Drug Delivery. ECS Meeting Abstracts, 2021, MA2021-01, 1587-1587.	0.0	0
17	Enhanced Eradication of Mucinâ€Embedded Bacterial Biofilm by Locally Delivered Antibiotics in Functionalized Microcontainers. Macromolecular Bioscience, 2021, 21, 2100150.	4.1	3
18	Quantification of Methotrexate in Human Serum Using Surface-Enhanced Raman Scatteringâ€"Toward Therapeutic Drug Monitoring. ACS Sensors, 2021, 6, 2664-2673.	7.8	24

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19	Polymeric nano- and microparticulate drug delivery systems for treatment of biofilms. Advanced Drug Delivery Reviews, 2021, 174, 30-52.	13.7	62
20	Hot punching for loading of biodegradable microcontainers with budesonide-Soluplus film. Biomedical Microdevices, 2021, 23, 37.	2.8	1
21	Sensing technologies and experimental platforms for the characterization of advanced oral drug delivery systems. Advanced Drug Delivery Reviews, 2021, 176, 113850.	13.7	9
22	Colon-Specific Delivery of Bioactive Agents Using Genipin-Cross-Linked Chitosan Coated Microcontainers. ACS Applied Bio Materials, 2021, 4, 752-762.	4.6	19
23	Micromechanical Punching: A Versatile Method for Non-Spherical Microparticle Fabrication. Polymers, 2021, 13, 83.	4.5	8
24	Lab-on-a-disk extraction of PBMC and metered plasma from whole blood: An advanced event-triggered valving strategy. Biomicrofluidics, 2021, 15, 064102.	2.4	4
25	Present and Future of Surface-Enhanced Raman Scattering. ACS Nano, 2020, 14, 28-117.	14.6	2,153
26	Controlled Drug Release from Biodegradable Polymer Matrix Loaded in Microcontainers Using Hot Punching. Pharmaceutics, 2020, 12, 1050.	4.5	12
27	Polymeric carriers for enhanced delivery of probiotics. Advanced Drug Delivery Reviews, 2020, 161-162, 1-21.	13.7	66
28	Bacterial Cell Cultures in a Lab-on-a-Disc: A Simple and Versatile Tool for Quantification of Antibiotic Treatment Efficacy. Analytical Chemistry, 2020, 92, 13871-13879.	6.5	9
29	An Ingestible Self-Polymerizing System for Targeted Sampling of Gut Microbiota and Biomarkers. ACS Nano, 2020, 14, 12072-12081.	14.6	14
30	3D Printed Stackable Titer Plate Inserts Supporting Three Interconnected Tissue Models for Drug Transport Studies. Advanced Biology, 2020, 4, 1900289.	3.0	8
31	Orally ingestible medical devices for gut engineering. Advanced Drug Delivery Reviews, 2020, 165-166, 142-154.	13.7	39
32	Quantifying Optical Absorption of Single Plasmonic Nanoparticles and Nanoparticle Dimers Using Microstring Resonators. ACS Sensors, 2020, 5, 2067-2075.	7.8	5
33	Development and characterization of a PDMS-based masking method for microfabricated Oral drug delivery devices. Biomedical Microdevices, 2020, 22, 35.	2.8	10
34	Volumetric Raman chemical imaging of drug delivery systems. Journal of Raman Spectroscopy, 2020, 51, 1153-1159.	2.5	6
35	Single particles as resonators for thermomechanical analysis. Nature Communications, 2020, 11, 1235.	12.8	8
36	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

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37	Temperature-Modulated Micromechanical Thermal Analysis with Microstring Resonators Detects Multiple Coherent Features of Small Molecule Glass Transition. Sensors, 2020, 20, 1019.	3.8	1
38	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
39	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
40	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
41	In Vitro, Ex Vivo and In Vivo Evaluation of Microcontainers for Oral Delivery of Insulin. Pharmaceutics, 2020, 12, 48.	4.5	20
42	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
43	Cubic Microcontainers Improve In Situ Colonic Mucoadhesion and Absorption of Amoxicillin in Rats. Pharmaceutics, 2020, 12, 355.	4.5	16
44	Wide Line Surfaceâ€Enhanced Raman Scattering Mapping. Advanced Materials Technologies, 2020, 5, 1900999.	5.8	3
45	Microcontainer Delivery of Antibiotic Improves Treatment of Pseudomonas aeruginosa Biofilms. Advanced Healthcare Materials, 2020, 9, e1901779.	7.6	17
46	Characterization of thin gelatin hydrogel membranes with balloon properties for dynamic tissue engineering. Biopolymers, 2019, 110, e23241.	2.4	13
47	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
48	Sacrificial Polymer Substrates in Photopolymerizationâ€Based Micro 3D Printing for Fabrication and Release of Complex Micro Components. Advanced Materials Technologies, 2019, 4, 1900378.	5.8	7
49	Modular, Lightweight, Wireless Potentiostat-on-a-Disc for Electrochemical Detection in Centrifugal Microfluidics. Analytical Chemistry, 2019, 91, 11620-11628.	6.5	18
50	Fully replicable and automated retention measurement setup for characterization of bio-adhesion. HardwareX, 2019, 6, e00071.	2.2	10
51	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
52	Investigation of Mucoadhesion and Degradation of PCL and PLGA Microcontainers for Oral Drug Delivery. Polymers, 2019, 11, 1828.	4.5	22
53	Pyrolytic carbon resonators for micromechanical thermal analysis. Microsystems and Nanoengineering, 2019, 5, 58.	7.0	7
54	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

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55	Ex vivo intestinal perfusion model for investigating mucoadhesion of microcontainers. International Journal of Pharmaceutics, 2019, 570, 118658.	5.2	20
56	Simultaneous quantification of multiple bacterial metabolites using surface-enhanced Raman scattering. Analyst, The, 2019, 144, 1600-1607.	3.5	7
57	Electrochemical pyrolytic carbon resonators for mass sensing on electrodeposited polymers. Micro and Nano Engineering, 2019, 2, 64-69.	2.9	7
58	Additive Manufacturing of Microreservoir Devices for Oral Drug Delivery Using an Acculas BA-30ÂMicro-Stereolithography Instrument: A Feasibility Study. Journal of the Electrochemical Society, 2019, 166, B3257-B3263.	2.9	6
59	Threadâ€Like Radicalâ€Polymerization via Autonomously Propelled (TRAP) Bots. Advanced Materials, 2019, 31, e1901573.	21.0	15
60	Imaging of dehydration in particulate matter using Raman line-focus microscopy. Scientific Reports, 2019, 9, 7525.	3.3	14
61	Evaluation of the solid state form of tadalafil in sub-micron thin films using nanomechanical infrared spectroscopy. International Journal of Pharmaceutics, 2019, 565, 227-232.	5.2	3
62	Where Is the Drug? Quantitative 3D Distribution Analyses of Confined Drug-Loaded Polymer Matrices. ACS Biomaterials Science and Engineering, 2019, 5, 2935-2941.	5.2	5
63	Thin Film Analysis by Nanomechanical Infrared Spectroscopy. ACS Omega, 2019, 4, 7628-7635.	3.5	7
64	Single-Crystalline Gold Nanodisks on WS₂ Mono- and Multilayers for Strong Coupling at Room Temperature. ACS Photonics, 2019, 6, 994-1001.	6.6	80
65	Polymeric Lids for Microcontainers for Oral Protein Delivery. Macromolecular Bioscience, 2019, 19, e1900004.	4.1	17
66	Fabrication of fully suspended pyrolytic carbon string resonators for characterization of drug nano- and microparticles. Sensors and Actuators A: Physical, 2019, 288, 194-203.	4.1	5
67	Fast and quantitative 2D and 3D orientation mapping using Raman microscopy. Nature Communications, 2019, 10, 5555.	12.8	40
68	Micromotors for drug delivery in vivo: The road ahead. Advanced Drug Delivery Reviews, 2019, 138, 41-55.	13.7	99
69	Evaluation of the effects of spray drying parameters for producing cubosome powder precursors. European Journal of Pharmaceutics and Biopharmaceutics, 2019, 135, 44-48.	4.3	9
70	Microcontainers for protection of oral vaccines, in vitro and in vivo evaluation. Journal of Controlled Release, 2019, 294, 91-101.	9.9	34
71	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
72	Tailoring stress in pyrolytic carbon for fabrication of nanomechanical string resonators. Carbon, 2018, 133, 358-368.	10.3	13

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73	Development of electrosprayed mucoadhesive chitosan microparticles. Carbohydrate Polymers, 2018, 190, 240-247.	10.2	73
74	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
75	Using microcantilever sensors to measure poly(lactic-co-glycolic acid) plasticization by moisture uptake. Polymer Testing, 2018, 65, 407-413.	4.8	7
76	Temperature Modulated Nanomechanical Thermal Analysis. IEEE Sensors Journal, 2018, 18, 4001-4007.	4.7	6
77	Laser ablation and injection moulding as techniques for producing micro channels compatible with Small Angle X-Ray Scattering. Microelectronic Engineering, 2018, 195, 7-12.	2.4	4
78	Efficiency enhancement of InGaN amber MQWs using nanopillar structures. Nanophotonics, 2018, 7, 317-322.	6.0	10
79	Gold Nanoparticles Sliding on Recyclable Nanohoodoosâ€”Engineered for Surfaceâ€Enhanced Raman Spectroscopy. Advanced Functional Materials, 2018, 28, 1704818.	14.9	57
80	Cellular Effects and Delivery Propensity of Penetratin Is Influenced by Conjugation to Parathyroid Hormone Fragment 1-34 in Synergy with pH. Bioconjugate Chemistry, 2018, 29, 371-381.	3.6	8
81	Ultrasensitive Microstring Resonators for Solid State Thermomechanical Analysis of Small and Large Molecules. Journal of the American Chemical Society, 2018, 140, 17522-17531.	13.7	9
82	Nanopillar-Assisted SERS Chromatography. ACS Sensors, 2018, 3, 2492-2498.	7.8	32
83	Injection-Molded Microfluidic Device for SERS Sensing Using Embedded Au-Capped Polymer Nanocones. ACS Applied Materials & Interfaces, 2018, 10, 37417-37425.	8.0	37
84	Preparation and Characterization of an Oral Vaccine Formulation Using Electrosprayed Chitosan Microparticles. AAPS PharmSciTech, 2018, 19, 3770-3777.	3.3	5
85	Combined Used of Rheology and LF-NMR for the Characterization of PVP-Alginates Gels Containing Liposomes. Pharmaceutical Research, 2018, 35, 171.	3.5	14
86	Microfabricated devices for oral drug delivery. Lab on A Chip, 2018, 18, 2348-2358.	6.0	61
87	InGaN/GaN ultraviolet LED with a graphene/AZO transparent current spreading layer. Optical Materials Express, 2018, 8, 1818.	3.0	7
88	Hacking CD/DVD/Blu-ray for Biosensing. ACS Sensors, 2018, 3, 1222-1232.	7.8	53
89	Detecting forensic substances using commercially available SERS substrates and handheld Raman spectrometers. Talanta, 2018, 189, 649-652.	5.5	53
90	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

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91	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
92	Powder embossing method for selective loading of polymeric microcontainers with drug formulation. Microelectronic Engineering, 2017, 171, 20-24.	2.4	23
93	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
94	Position and mode dependent optical detection back-action in cantilever beam resonators. Journal of Micromechanics and Microengineering, 2017, 27, 035006.	2.6	3
95	Detection of surface-linked polychlorinated biphenyls using surface-enhanced Raman scattering spectroscopy. Vibrational Spectroscopy, 2017, 90, 1-6.	2.2	12
96	Surface Enhanced Raman Scattering for Quantification of p-Coumaric Acid Produced by Escherichia coli. Analytical Chemistry, 2017, 89, 3981-3987.	6.5	22
97	Nanomechanical Infrared Spectroscopy with Vibrating Filters for Pharmaceutical Analysis. Angewandte Chemie, 2017, 129, 3959-3963.	2.0	3
98	Nanomechanical Infrared Spectroscopy with Vibrating Filters for Pharmaceutical Analysis. Angewandte Chemie - International Edition, 2017, 56, 3901-3905.	13.8	22
99	SERS detection of the biomarker hydrogen cyanide from Pseudomonas aeruginosa cultures isolated from cystic fibrosis patients. Scientific Reports, 2017, 7, 45264.	3.3	26
100	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
101	Loading of Drugâ€Polymer Matrices in Microreservoirs for Oral Drug Delivery. Macromolecular Materials and Engineering, 2017, 302, 1600366.	3.6	8
102	Nanopillar Filters for Surface-Enhanced Raman Spectroscopy. ACS Sensors, 2017, 2, 1400-1404.	7.8	28
103	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
104	SERS spectroscopy for detection of hydrogen cyanide in breath from children colonised with P. aeruginosa. Analytical Methods, 2017, 9, 5757-5762.	2.7	5
105	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
106	Quantification of a bacterial secondary metabolite by SERS combined with SLM extraction for bioprocess monitoring. Analyst, The, 2017, 142, 4553-4559.	3.5	15
107	From concept to in vivo testing: Microcontainers for oral drug delivery. Journal of Controlled Release, 2017, 268, 343-351.	9.9	55
108	Fabrication and characterization of Au dimer antennas on glass pillars with enhanced plasmonic response. Nanophotonics, 2017, 7, 497-505.	6.0	16

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109	New Evidence for the Mechanism of Action of a Type-2 Diabetes Drug Using a Magnetic Bead-Based Automated Biosensing Platform. ACS Sensors, 2017, 2, 1329-1336.	7.8	7
110	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
111	A pseudo-Voigt component model for high-resolution recovery of constituent spectra in Raman spectroscopy. , 2017, , .		2
112	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
113	Blu-Ray-based micromechanical characterization platform for biopolymer degradation assessment. Sensors and Actuators B: Chemical, 2017, 241, 1303-1309.	7.8	15
114	Nanomechanical Pyrolytic Carbon Resonators: Novel Fabrication Method and Characterization of Mechanical Properties. Sensors, 2016, 16, 1097.	3.8	11
115	Click chemistry based biomolecular conjugation monitoring using surface-enhanced Raman spectroscopy mapping. , 2016, , .		1
116	Polymeric microcontainers improve oral bioavailability of furosemide. International Journal of Pharmaceutics, 2016, 504, 98-109.	5.2	59
117	Synthesis and characterization of UV photocrosslinkable hydrogels with poly(N-vinyl-2-pyrrolidone): Determination of the network mesh size distribution. International Journal of Polymeric Materials and Polymeric Biomaterials, 2016, 65, 516-525.	3.4	13
118	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
119	Lithographyâ€Free Fabrication of Silica Nanocylinders with Suspended Gold Nanorings for LSPRâ€Based Sensing. Small, 2016, 12, 6745-6752.	10.0	25
120	Surface-enhanced Raman spectroscopic study of DNA and 6-mercapto-1-hexanol interactions using large area mapping. Vibrational Spectroscopy, 2016, 86, 331-336.	2.2	4
121	Nonlinear optomechanical measurement of mechanical motion. Nature Communications, 2016, 7, 10988.	12.8	106
122	Wafer-Scale Nanopillars Derived from Block Copolymer Lithography for Surface-Enhanced Raman Spectroscopy. ACS Applied Materials & Interfaces, 2016, 8, 15668-15675.	8.0	37
123	Nanomechanical IR spectroscopy for fast analysis of liquid-dispersed engineered nanomaterials. Sensors and Actuators B: Chemical, 2016, 233, 667-673.	7.8	21
124	Detection of nerve gases using surface-enhanced Raman scattering substrates with high droplet adhesion. Nanoscale, 2016, 8, 1305-1308.	5.6	91
125	Experimentation and numerical modeling of cyclic voltammetry for electrochemical micro-sized sensors under the influence of electrolyte flow. Journal of Electroanalytical Chemistry, 2016, 763, 141-148.	3.8	11
126	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

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127	Blu-ray based optomagnetic aptasensor for detection of small molecules. Biosensors and Bioelectronics, 2016, 75, 396-403.	10.1	29
128	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
129	Detection methods for centrifugal microfluidic platforms. Biosensors and Bioelectronics, 2016, 76, 54-67.	10.1	54
130	Chemical Engineering in the â€œBIOâ€•world. Current Drug Delivery, 2016, 13, 1-1.	1.6	4
131	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
132	Quantification of NS1 dengue biomarker in serum via optomagnetic nanocluster detection. Scientific Reports, 2015, 5, 16145.	3.3	62
133	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
134	Micromechanical fast quasiâ€static detection of Î± and Î² relaxations with nanograms of polymer. Journal of Polymer Science, Part B: Polymer Physics, 2015, 53, 1035-1039.	2.1	8
135	Orientation of Pterin-6-Carboxylic Acid on Gold Capped Silicon Nanopillars Platforms: Surface Enhanced Raman Spectroscopy and Density Functional Theory Studies. Journal of the Brazilian Chemical Society, 2015, , .	0.6	0
136	pH-triggered drug release from biodegradable microwells for oral drug delivery. Biomedical Microdevices, 2015, 17, 9958.	2.8	29
137	Mathematical model for biomolecular quantification using surface-enhanced Raman spectroscopy based signal intensity distributions. , 2015, , .		0
138	Wafer-Scale Leaning Silver Nanopillars for Molecular Detection at Ultra-Low Concentrations. Journal of Physical Chemistry C, 2015, 119, 2053-2062.	3.1	71
139	Integrating electrochemical detection with centrifugal microfluidics for real-time and fully automated sample testing. RSC Advances, 2015, 5, 17187-17193.	3.6	19
140	Hydrodynamics studies of cyclic voltammetry for electrochemical micro biosensors. Journal of Physics: Conference Series, 2015, 574, 012008.	0.4	2
141	Microcantilever sensors for fast analysis of enzymatic degradation of poly (d, l-lactide). Polymer Degradation and Stability, 2015, 119, 1-8.	5.8	5
142	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
143	Scalable DNA-Based Magnetic Nanoparticle Agglutination Assay for Bacterial Detection in Patient Samples. ACS Nano, 2015, 9, 7374-7382.	14.6	65
144	Angle resolved characterization of nanostructured and conventionally textured silicon solar cells. Solar Energy Materials and Solar Cells, 2015, 140, 134-140.	6.2	20

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145	Hot embossing and mechanical punching of biodegradable microcontainers for oral drug delivery. Microelectronic Engineering, 2015, 133, 104-109.	2.4	17
146	Fabrication of Ni stamp with high aspect ratio, two-leveled, cylindrical microstructures using dry etching and electroplating. Journal of Micromechanics and Microengineering, 2015, 25, 055021.	2.6	9
147	Hot punching of high-aspect-ratio 3D polymeric microstructures for drug delivery. Lab on A Chip, 2015, 15, 2576-2579.	6.0	18
148	Mathematical model for biomolecular quantification using large-area surface-enhanced Raman spectroscopy mapping. RSC Advances, 2015, 5, 85845-85853.	3.6	8
149	Plasmon resonances of Ag capped Si nanopillars fabricated using mask-less lithography. Optics Express, 2015, 23, 12965.	3.4	52
150	The copper binding properties of metformin â€“ QCM-D, XPS and nanobead agglomeration. Chemical Communications, 2015, 51, 17313-17316.	4.1	20
151	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
152	In-situ monitoring of potential enhanced DNA related processes using electrochemical quartz crystal microbalance with dissipation (EQCM-D). Electrochemistry Communications, 2014, 48, 111-114.	4.7	12
153	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
154	Photothermal probing of plasmonic hotspots with nanomechanical resonator. , 2014, , .		1
155	A slow cooling rate of indomethacin melt spatially confined in microcontainers increases the physical stability of the amorphous drug without influencing its biorelevant dissolution behaviour. Drug Delivery and Translational Research, 2014, 4, 268-274.	5.8	11
156	Single-layer graphene on silicon nitride micromembrane resonators. Journal of Applied Physics, 2014, 115, 054513.	2.5	33
157	Nanomechanical identification of liquid reagents in a microfluidic channel. Lab on A Chip, 2014, 14, 1302-1307.	6.0	26
158	Micromechanical String Resonators: Analytical Tool for Thermal Characterization of Polymers. ACS Macro Letters, 2014, 3, 55-58.	4.8	19
159	Synthesis and characterization of covalent diphenylalanine nanotube-folic acid conjugates. Journal of Nanoparticle Research, 2014, 16, 1.	1.9	14
160	Low-Power Photothermal Probing of Single Plasmonic Nanostructures with Nanomechanical String Resonators. Nano Letters, 2014, 14, 2318-2321.	9.1	39
161	Polymer-filled microcontainers for oral delivery loaded using supercritical impregnation. Journal of Controlled Release, 2014, 173, 1-9.	9.9	61
162	Improving the robustness of Surface Enhanced Raman Spectroscopy based sensors by Bayesian Non-negative Matrix Factorization. , 2014, , .		1

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163	Photothermal Analysis of Individual Nanoparticulate Samples Using Micromechanical Resonators. ACS Nano, 2013, 7, 6188-6193.	14.6	57
164	Ferromagnetic shadow mask for spray coating of polymer patterns. Microelectronic Engineering, 2013, 110, 427-431.	2.4	13
165	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
166	Photothermal Infrared Spectroscopy of Airborne Samples with Mechanical String Resonators. Analytical Chemistry, 2013, 85, 10531-10535.	6.5	33
167	Sensitive determination of the Young's modulus of thin films by polymeric microcantilevers. Measurement Science and Technology, 2013, 24, 125603.	2.6	12
168	Enhanced Lightâ€“Matter Interactions in Graphene-Covered Gold Nanovoid Arrays. Nano Letters, 2013, 13, 4690-4696.	9.1	204
169	High-performance spinning device for DVD-based micromechanical signal transduction. Journal of Micromechanics and Microengineering, 2013, 23, 045016.	2.6	5
170	Inkjet printing as a technique for filling of micro-wells with biocompatible polymers. Microelectronic Engineering, 2013, 111, 391-395.	2.4	25
171	Micromechanical PDGF recognition via lab-on-a-disc aptasensor arrays. Sensors and Actuators A: Physical, 2013, 195, 154-159.	4.1	11
172	Black silicon maskless templates for carbon nanotube forests. Microelectronic Engineering, 2013, 104, 110-113.	2.4	4
173	Computational and experimental studies of the interaction between single-walled carbon nanotubes and folic acid. Chemical Physics Letters, 2013, 564, 60-64.	2.6	12
174	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
175	Process Optimization of Ultrasonic Spray Coating of Polymer Films. Langmuir, 2013, 29, 6911-6919.	3.5	82
176	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
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