

Line Hagner Nielsen

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

103
papers

1,989
citations

26
h-index

39
g-index

107
ext. papers

2,385
ext. citations

6.7
avg, IF

5.31
L-index

#	Paper	IF	Citations
103	Refining stability and dissolution rate of amorphous drug formulations. <i>Expert Opinion on Drug Delivery</i> , 2014 , 11, 977-89	8	95
102	Detection of nerve gases using surface-enhanced Raman scattering substrates with high droplet adhesion. <i>Nanoscale</i> , 2016 , 8, 1305-8	7.7	82
101	Ciprofloxacin-loaded sodium alginate/poly (lactic-co-glycolic acid) electrospun fibrous mats for wound healing. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2018 , 123, 42-49	5.7	74
100	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
99	Micromotors for drug delivery in vivo: The road ahead. <i>Advanced Drug Delivery Reviews</i> , 2019 , 138, 41-55	18.5	64
98	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
97	Process optimization of ultrasonic spray coating of polymer films. <i>Langmuir</i> , 2013 , 29, 6911-9	4	60
96	Polymer-filled microcontainers for oral delivery loaded using supercritical impregnation. <i>Journal of Controlled Release</i> , 2014 , 173, 1-9	11.7	54
95	Development of electrosprayed mucoadhesive chitosan microparticles. <i>Carbohydrate Polymers</i> , 2018 , 190, 240-247	10.3	51
94	Polymeric microcontainers improve oral bioavailability of furosemide. <i>International Journal of Pharmaceutics</i> , 2016 , 504, 98-109	6.5	51
93	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
92	From concept to in vivo testing: Microcontainers for oral drug delivery. <i>Journal of Controlled Release</i> , 2017 , 268, 343-351	11.7	48
91	Photothermal analysis of individual nanoparticulate samples using micromechanical resonators. <i>ACS Nano</i> , 2013 , 7, 6188-93	16.7	48
90	Preparation of an amorphous sodium furosemide salt improves solubility and dissolution rate and leads to a faster Tmax after oral dosing to rats. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2013 , 85, 942-51	5.7	47
89	Microfabricated devices for oral drug delivery. <i>Lab on A Chip</i> , 2018 , 18, 2348-2358	7.2	44
88	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
87	Detecting forensic substances using commercially available SERS substrates and handheld Raman spectrometers. <i>Talanta</i> , 2018 , 189, 649-652	6.2	32

86	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
85	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
84	pH-triggered drug release from biodegradable microwells for oral drug delivery. <i>Biomedical Microdevices</i> , 2015 , 17, 9958	3.7	28
83	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
82	Stability, liposome interaction, and in vivo pharmacology of ghrelin in liposomal suspensions. <i>International Journal of Pharmaceutics</i> , 2010 , 390, 13-8	6.5	27
81	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
80	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
79	Photothermal infrared spectroscopy of airborne samples with mechanical string resonators. <i>Analytical Chemistry</i> , 2013 , 85, 10531-5	7.8	26
78	Biorelevant characterisation of amorphous furosemide salt exhibits conversion to a furosemide hydrate during dissolution. <i>International Journal of Pharmaceutics</i> , 2013 , 457, 14-24	6.5	26
77	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
76	Animal models for evaluation of oral delivery of biopharmaceuticals. <i>Journal of Controlled Release</i> , 2017 , 268, 57-71	11.7	25
75	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
74	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
73	Inkjet printing as a technique for filling of micro-wells with biocompatible polymers. <i>Microelectronic Engineering</i> , 2013 , 111, 391-395	2.5	24
72	Polymeric carriers for enhanced delivery of probiotics. <i>Advanced Drug Delivery Reviews</i> , 2020 , 161-162, 1-21	18.5	24
71	Nanopillar Filters for Surface-Enhanced Raman Spectroscopy. <i>ACS Sensors</i> , 2017 , 2, 1400-1404	9.2	22
70	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
69	Orally ingestible medical devices for gut engineering. <i>Advanced Drug Delivery Reviews</i> , 2020 , 165-166, 142-154	18.5	22

68	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
67	Powder embossing method for selective loading of polymeric microcontainers with drug formulation. <i>Microelectronic Engineering</i> , 2017 , 171, 20-24	2.5	21
66	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
65	Drug loaded biodegradable polymer microneedles fabricated by hot embossing. <i>Microelectronic Engineering</i> , 2018 , 195, 57-61	2.5	20
64	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
63	Diffusion of water into SU-8 microcantilevers. <i>Physical Chemistry Chemical Physics</i> , 2010 , 12, 10577-83	3.6	20
62	Stabilisation of amorphous furosemide increases the oral drug bioavailability in rats. <i>International Journal of Pharmaceutics</i> , 2015 , 490, 334-40	6.5	17
61	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
60	Investigation of Mucoadhesion and Degradation of PCL and PLGA Microcontainers for Oral Drug Delivery. <i>Polymers</i> , 2019 , 11,	4.5	16
59	Polymeric nano- and microparticulate drug delivery systems for treatment of biofilms. <i>Advanced Drug Delivery Reviews</i> , 2021 , 174, 30-52	18.5	16
58	Hot embossing and mechanical punching of biodegradable microcontainers for oral drug delivery. <i>Microelectronic Engineering</i> , 2015 , 133, 104-109	2.5	15
57	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
56	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
55	Polymeric Lids for Microcontainers for Oral Protein Delivery. <i>Macromolecular Bioscience</i> , 2019 , 19, e1900004	9.9	14
54	Microcontainer Delivery of Antibiotic Improves Treatment of Pseudomonas aeruginosa Biofilms. <i>Advanced Healthcare Materials</i> , 2020 , 9, e1901779	10.1	14
53	Developing a predictive in vitro dissolution model based on gastrointestinal fluid characterisation in rats. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2019 , 142, 307-314	5.7	14
52	3D microstructuring of biodegradable polymers. <i>Microelectronic Engineering</i> , 2011 , 88, 2342-2344	2.5	14
51	Nanomechanical Infrared Spectroscopy with Vibrating Filters for Pharmaceutical Analysis. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 3901-3905	16.4	13

50	Ex vivo intestinal perfusion model for investigating mucoadhesion of microcontainers. <i>International Journal of Pharmaceutics</i> , 2019 , 570, 118658	6.5	12
49	Surface Stabilization and Dissolution Rate Improvement of Amorphous Compacts with Thin Polymer Coatings: Can We Have It All?. <i>Molecular Pharmaceutics</i> , 2020 , 17, 1248-1260	5.6	12
48	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
47	Stability of lysozyme incorporated into electrospun fibrous mats for wound healing. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2019 , 136, 240-249	5.7	12
46	Modular, Lightweight, Wireless Potentiostat-on-a-Disc for Electrochemical Detection in Centrifugal Microfluidics. <i>Analytical Chemistry</i> , 2019 , 91, 11620-11628	7.8	11
45	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. <i>Drug Delivery and Translational Research</i> , 2014 , 4, 268-74	6.2	11
44	In Vitro, Ex Vivo and In Vivo Evaluation of Microcontainers for Oral Delivery of Insulin. <i>Pharmaceutics</i> , 2020 , 12,	6.4	10
43	Ferromagnetic shadow mask for spray coating of polymer patterns. <i>Microelectronic Engineering</i> , 2013 , 110, 427-431	2.5	10
42	Blu-Ray-based micromechanical characterization platform for biopolymer degradation assessment. <i>Sensors and Actuators B: Chemical</i> , 2017 , 241, 1303-1309	8.5	10
41	Fabrication of Ni stamp with high aspect ratio, two-leveled, cylindrical microstructures using dry etching and electroplating. <i>Journal of Micromechanics and Microengineering</i> , 2015 , 25, 055021	2	9
40	Cubic Microcontainers Improve In Situ Colonic Mucoadhesion and Absorption of Amoxicillin in Rats. <i>Pharmaceutics</i> , 2020 , 12,	6.4	9
39	Effects of water-absorption and thermal drift on a polymeric photonic crystal slab sensor. <i>Optics Express</i> , 2018 , 26, 5416-5422	3.3	9
38	Fully replicable and automated retention measurement setup for characterization of bio-adhesion. <i>HardwareX</i> , 2019 , 6, e00071	2.7	9
37	Characterization of thin gelatin hydrogel membranes with balloon properties for dynamic tissue engineering. <i>Biopolymers</i> , 2019 , 110, e23241	2.2	9
36	Development of a Video-Microscopic Tool To Evaluate the Precipitation Kinetics of Poorly Water Soluble Drugs: A Case Study with Tadalafil and HPMC. <i>Molecular Pharmaceutics</i> , 2017 , 14, 4154-4160	5.6	8
35	Extraction, Enrichment, and in situ Electrochemical Detection on Lab-on-a-Disc: Monitoring the Production of a Bacterial Secondary Metabolite. <i>ACS Sensors</i> , 2019 , 4, 398-405	9.2	8
34	Effect of supersaturation on absorption of indomethacin and tadalafil in a single pass intestinal perfusion rat model, in the absence and presence of a precipitation inhibitor. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2020 , 151, 108-115	5.7	8
33	Loading of Drug-Polymer Matrices in Microreservoirs for Oral Drug Delivery. <i>Macromolecular Materials and Engineering</i> , 2017 , 302, 1600366	3.9	7

32	Design of a self-unfolding delivery concept for oral administration of macromolecules. <i>Journal of Controlled Release</i> , 2021 , 329, 948-954	11.7	7
31	Single particles as resonators for thermomechanical analysis. <i>Nature Communications</i> , 2020 , 11, 1235	17.4	6
30	Colon-Specific Delivery of Bioactive Agents Using Genipin-Cross-Linked Chitosan Coated Microcontainers. <i>ACS Applied Bio Materials</i> , 2021 , 4, 752-762	4.1	6
29	Where Is the Drug? Quantitative 3D Distribution Analyses of Confined Drug-Loaded Polymer Matrices. <i>ACS Biomaterials Science and Engineering</i> , 2019 , 5, 2935-2941	5.5	5
28	3D Printed Stackable Titer Plate Inserts Supporting Three Interconnected Tissue Models for Drug Transport Studies. <i>Advanced Biology</i> , 2020 , 4, e1900289	3.5	5
27	Evaluation of the effects of spray drying parameters for producing cubosome powder precursors. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2019 , 135, 44-48	5.7	5
26	Tissue-based biosensor for monitoring the antioxidant effect of orally administered drugs in the intestine. <i>Bioelectrochemistry</i> , 2021 , 138, 107720	5.6	5
25	Preparation and Characterization of an Oral Vaccine Formulation Using Electrospayed Chitosan Microparticles. <i>AAPS PharmSciTech</i> , 2018 , 19, 3770-3777	3.9	5
24	Development and characterization of a PDMS-based masking method for microfabricated Oral drug delivery devices. <i>Biomedical Microdevices</i> , 2020 , 22, 35	3.7	4
23	Controlled Drug Release from Biodegradable Polymer Matrix Loaded in Microcontainers Using Hot Punching. <i>Pharmaceutics</i> , 2020 , 12,	6.4	4
22	Bacterial Cell Cultures in a Lab-on-a-Disc: A Simple and Versatile Tool for Quantification of Antibiotic Treatment Efficacy. <i>Analytical Chemistry</i> , 2020 , 92, 13871-13879	7.8	4
21	Self-propelled Janus micromotors for pH-responsive release of small molecule drug. <i>Applied Materials Today</i> , 2022 , 27, 101418	6.6	4
20	Simultaneous quantification of multiple bacterial metabolites using surface-enhanced Raman scattering. <i>Analyst, The</i> , 2019 , 144, 1600-1607	5	3
19	Volumetric Raman chemical imaging of drug delivery systems. <i>Journal of Raman Spectroscopy</i> , 2020 , 51, 1153-1159	2.3	3
18	X-ray Imaging for Gastrointestinal Tracking of Microscale Oral Drug Delivery Devices. <i>ACS Biomaterials Science and Engineering</i> , 2021 , 7, 2538-2547	5.5	3
17	Cellular Effects and Delivery Propensity of Penetratin Is Influenced by Conjugation to Parathyroid Hormone Fragment 1-34 in Synergy with pH. <i>Bioconjugate Chemistry</i> , 2018 , 29, 371-381	6.3	3
16	Micromechanical Punching: A Versatile Method for Non-Spherical Microparticle Fabrication. <i>Polymers</i> , 2020 , 13,	4.5	2
15	Microdevices to successfully deliver orally administered drugs 2020 , 285-315		2

14	In vitro and in vivo comparison of microcontainers and microspheres for oral drug delivery. <i>International Journal of Pharmaceutics</i> , 2021 , 600, 120516	6.5	2
13	Enhanced Eradication of Mucin-Embedded Bacterial Biofilm by Locally Delivered Antibiotics in Functionalized Microcontainers. <i>Macromolecular Bioscience</i> , 2021 , 21, e2100150	5.5	2
12	Sensing technologies and experimental platforms for the characterization of advanced oral drug delivery systems. <i>Advanced Drug Delivery Reviews</i> , 2021 , 176, 113850	18.5	2
11	Consumer-Grade Inkjet Printer for Versatile and Precise Chemical Deposition. <i>ACS Omega</i> , 2021 , 6, 77863-7794	3.94	1
10	Co-delivery of ciprofloxacin and colistin using microcontainers for bacterial biofilm treatment. <i>International Journal of Pharmaceutics</i> , 2021 , 599, 120420	6.5	1
9	Management of oral biofilms by nisin delivery in adhesive microdevices. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2021 , 167, 83-88	5.7	1
8	Open-source force analyzer with broad sensing range based on an optical pickup unit.. <i>HardwareX</i> , 2022 , 11, e00308	2.7	1
7	Evaluation of the solid state form of tadalafil in sub-micron thin films using nanomechanical infrared spectroscopy. <i>International Journal of Pharmaceutics</i> , 2019 , 565, 227-232	6.5	0
6	Optimizing oral delivery of next generation probiotics. <i>Trends in Food Science and Technology</i> , 2022 , 119, 101-109	15.3	0
5	Hot punching for loading of biodegradable microcontainers with budesonide-Soluplus film. <i>Biomedical Microdevices</i> , 2021 , 23, 37	3.7	0
4	Nanomechanical Infrared Spectroscopy with Vibrating Filters for Pharmaceutical Analysis. <i>Angewandte Chemie</i> , 2017 , 129, 3959-3963	3.6	
3	Open source anaerobic and temperature-controlled model enabling real-time release studies with live bacteria.. <i>HardwareX</i> , 2022 , 11, e00275	2.7	
2	Marangoni-induced pepper-patterns: Transition from circle to star shape. <i>Surfaces and Interfaces</i> , 2021 , 26, 101443	4.1	
1	Impact of oral gavage technique of drug-containing microcontainers on the gastrointestinal transit and absorption in rats.. <i>International Journal of Pharmaceutics</i> , 2022 , 121630	6.5	