

Line Hagner Nielsen

List of Publications by Year in descending order

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Version: 2024-02-01

105
papers

2,771
citations

182225

30
h-index

252626

46
g-index

107
all docs

107
docs citations

107
times ranked

3974
citing authors

#	ARTICLE	IF	CITATIONS
1	Optimizing oral delivery of next generation probiotics. Trends in Food Science and Technology, 2022, 119, 101-109.	7.8	15
2	Open source anaerobic and temperature-controlled in vitro model enabling real-time release studies with live bacteria. HardwareX, 2022, 11, e00275.	1.1	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.	2.6	1
4	Self-propelled Janus micromotors for pH-responsive release of small molecule drug. Applied Materials Today, 2022, 27, 101418.	2.3	9
5	Open-source force analyzer with broad sensing range based on an optical pickup unit. HardwareX, 2022, 11, e00308.	1.1	2
6	Gradient Droplet Arrays by Acceleration-Mode Dip-Coating. Advanced Materials Interfaces, 2022, 9, .	1.9	1
7	Design of a self-unfolding delivery concept for oral administration of macromolecules. Journal of Controlled Release, 2021, 329, 948-954.	4.8	24
8	Tissue-based biosensor for monitoring the antioxidant effect of orally administered drugs in the intestine. Bioelectrochemistry, 2021, 138, 107720.	2.4	13
9	Consumer-Grade Inkjet Printer for Versatile and Precise Chemical Deposition. ACS Omega, 2021, 6, 7786-7794.	1.6	3
10	Co-delivery of ciprofloxacin and colistin using microcontainers for bacterial biofilm treatment. International Journal of Pharmaceutics, 2021, 599, 120420.	2.6	3
11	X-ray Imaging for Gastrointestinal Tracking of Microscale Oral Drug Delivery Devices. ACS Biomaterials Science and Engineering, 2021, 7, 2538-2547.	2.6	13
12	In vitro and in vivo comparison of microcontainers and microspheres for oral drug delivery. International Journal of Pharmaceutics, 2021, 600, 120516.	2.6	7
13	Enhanced Eradication of Mucin-Embedded Bacterial Biofilm by Locally Delivered Antibiotics in Functionalized Microcontainers. Macromolecular Bioscience, 2021, 21, 2100150.	2.1	3
14	Polymeric nano- and microparticulate drug delivery systems for treatment of biofilms. Advanced Drug Delivery Reviews, 2021, 174, 30-52.	6.6	62
15	Hot punching for loading of biodegradable microcontainers with budesonide-Soluplus film. Biomedical Microdevices, 2021, 23, 37.	1.4	1
16	Sensing technologies and experimental platforms for the characterization of advanced oral drug delivery systems. Advanced Drug Delivery Reviews, 2021, 176, 113850.	6.6	9
17	Marangoni-induced pepper-patterns: Transition from circle to star shape. Surfaces and Interfaces, 2021, 26, 101443.	1.5	0
18	Management of oral biofilms by nisin delivery in adhesive microdevices. European Journal of Pharmaceutics and Biopharmaceutics, 2021, 167, 83-88.	2.0	5

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19	Colon-Specific Delivery of Bioactive Agents Using Genipin-Cross-Linked Chitosan Coated Microcontainers. <i>ACS Applied Bio Materials</i> , 2021, 4, 752-762.	2.3	19
20	Micromechanical Punching: A Versatile Method for Non-Spherical Microparticle Fabrication. <i>Polymers</i> , 2021, 13, 83.	2.0	8
21	Controlled Drug Release from Biodegradable Polymer Matrix Loaded in Microcontainers Using Hot Punching. <i>Pharmaceutics</i> , 2020, 12, 1050.	2.0	12
22	Microdevices to successfully deliver orally administered drugs. , 2020, , 285-315.		5
23	Polymeric carriers for enhanced delivery of probiotics. <i>Advanced Drug Delivery Reviews</i> , 2020, 161-162, 1-21.	6.6	66
24	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.	3.2	9
25	3D Printed Stackable Titer Plate Inserts Supporting Three Interconnected Tissue Models for Drug Transport Studies. <i>Advanced Biology</i> , 2020, 4, 1900289.	3.0	8
26	Orally ingestible medical devices for gut engineering. <i>Advanced Drug Delivery Reviews</i> , 2020, 165-166, 142-154.	6.6	39
27	Development and characterization of a PDMS-based masking method for microfabricated Oral drug delivery devices. <i>Biomedical Microdevices</i> , 2020, 22, 35.	1.4	10
28	Volumetric Raman chemical imaging of drug delivery systems. <i>Journal of Raman Spectroscopy</i> , 2020, 51, 1153-1159.	1.2	6
29	Single particles as resonators for thermomechanical analysis. <i>Nature Communications</i> , 2020, 11, 1235.	5.8	8
30	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.	2.3	18
31	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.	1.7	21
32	Temperature-Modulated Micromechanical Thermal Analysis with Microstring Resonators Detects Multiple Coherent Features of Small Molecule Glass Transition. <i>Sensors</i> , 2020, 20, 1019.	2.1	1
33	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.	2.6	38
34	In Vitro, Ex Vivo and In Vivo Evaluation of Microcontainers for Oral Delivery of Insulin. <i>Pharmaceutics</i> , 2020, 12, 48.	2.0	20
35	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.	3.2	53
36	Cubic Microcontainers Improve In Situ Colonic Mucoadhesion and Absorption of Amoxicillin in Rats. <i>Pharmaceutics</i> , 2020, 12, 355.	2.0	16

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37	Microcontainer Delivery of Antibiotic Improves Treatment of <i>Pseudomonas aeruginosa</i> Biofilms. <i>Advanced Healthcare Materials</i> , 2020, 9, e1901779.	3.9	17
38	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.	2.0	13
39	Characterization of thin gelatin hydrogel membranes with balloon properties for dynamic tissue engineering. <i>Biopolymers</i> , 2019, 110, e23241.	1.2	13
40	Biodegradable microcontainers towards real life applications of microfabricated systems for oral drug delivery. <i>Lab on A Chip</i> , 2019, 19, 2905-2914.	3.1	28
41	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.	2.0	24
42	Modular, Lightweight, Wireless Potentiostat-on-a-Disc for Electrochemical Detection in Centrifugal Microfluidics. <i>Analytical Chemistry</i> , 2019, 91, 11620-11628.	3.2	18
43	Fully replicable and automated retention measurement setup for characterization of bio-adhesion. <i>HardwareX</i> , 2019, 6, e00071.	1.1	10
44	Investigation of Mucoadhesion and Degradation of PCL and PLGA Microcontainers for Oral Drug Delivery. <i>Polymers</i> , 2019, 11, 1828.	2.0	22
45	Microcontainers for oral insulin delivery In vitro studies of permeation enhancement. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2019, 143, 98-105.	2.0	31
46	Ex vivo intestinal perfusion model for investigating mucoadhesion of microcontainers. <i>International Journal of Pharmaceutics</i> , 2019, 570, 118658.	2.6	20
47	Simultaneous quantification of multiple bacterial metabolites using surface-enhanced Raman scattering. <i>Analyst</i> , The, 2019, 144, 1600-1607.	1.7	7
48	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.	2.6	3
49	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.	2.6	5
50	Polymeric Lids for Microcontainers for Oral Protein Delivery. <i>Macromolecular Bioscience</i> , 2019, 19, e1900004.	2.1	17
51	Micromotors for drug delivery in vivo: The road ahead. <i>Advanced Drug Delivery Reviews</i> , 2019, 138, 41-55.	6.6	99
52	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.	2.0	9
53	Microcontainers for protection of oral vaccines, in vitro and in vivo evaluation. <i>Journal of Controlled Release</i> , 2019, 294, 91-101.	4.8	34
54	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.	4.0	16

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55	Stability of lysozyme incorporated into electrospun fibrous mats for wound healing. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2019, 136, 240-249.	2.0	15
56	Development of electrospayed mucoadhesive chitosan microparticles. <i>Carbohydrate Polymers</i> , 2018, 190, 240-247.	5.1	73
57	Injection molded lab-on-a-disc platform for screening of genetically modified <i>E. coli</i> using liquid-liquid extraction and surface enhanced Raman scattering. <i>Lab on A Chip</i> , 2018, 18, 869-877.	3.1	31
58	Drug loaded biodegradable polymer microneedles fabricated by hot embossing. <i>Microelectronic Engineering</i> , 2018, 195, 57-61.	1.1	26
59	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.	1.8	8
60	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.	2.0	103
61	Preparation and Characterization of an Oral Vaccine Formulation Using Electrospayed Chitosan Microparticles. <i>AAPS PharmSciTech</i> , 2018, 19, 3770-3777.	1.5	5
62	Microfabricated devices for oral drug delivery. <i>Lab on A Chip</i> , 2018, 18, 2348-2358.	3.1	61
63	Effects of water-absorption and thermal drift on a polymeric photonic crystal slab sensor. <i>Optics Express</i> , 2018, 26, 5416.	1.7	9
64	Detecting forensic substances using commercially available SERS substrates and handheld Raman spectrometers. <i>Talanta</i> , 2018, 189, 649-652.	2.9	53
65	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.	2.6	30
66	Powder embossing method for selective loading of polymeric microcontainers with drug formulation. <i>Microelectronic Engineering</i> , 2017, 171, 20-24.	1.1	23
67	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.	4.0	81
68	Surface Enhanced Raman Scattering for Quantification of <i>p</i> -Coumaric Acid Produced by <i>Escherichia coli</i> . <i>Analytical Chemistry</i> , 2017, 89, 3981-3987.	3.2	22
69	Nanomechanical Infrared Spectroscopy with Vibrating Filters for Pharmaceutical Analysis. <i>Angewandte Chemie</i> , 2017, 129, 3959-3963.	1.6	3
70	Nanomechanical Infrared Spectroscopy with Vibrating Filters for Pharmaceutical Analysis. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 3901-3905.	7.2	22
71	Microcontainers as an oral delivery system for spray dried cubosomes containing ovalbumin. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2017, 118, 13-20.	2.0	39
72	Loading of Drug-Polymer Matrices in Microreservoirs for Oral Drug Delivery. <i>Macromolecular Materials and Engineering</i> , 2017, 302, 1600366.	1.7	8

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73	Nanopillar Filters for Surface-Enhanced Raman Spectroscopy. ACS Sensors, 2017, 2, 1400-1404.	4.0	28
74	Quantification of a bacterial secondary metabolite by SERS combined with SLM extraction for bioprocess monitoring. Analyst, The, 2017, 142, 4553-4559.	1.7	15
75	From concept to in vivo testing: Microcontainers for oral drug delivery. Journal of Controlled Release, 2017, 268, 343-351.	4.8	55
76	Animal models for evaluation of oral delivery of biopharmaceuticals. Journal of Controlled Release, 2017, 268, 57-71.	4.8	34
77	Development of a Video-Microscopic Tool To Evaluate the Precipitation Kinetics of Poorly Water Soluble Drugs: A Case Study with Tadalafil and HPMC. Molecular Pharmaceutics, 2017, 14, 4154-4160.	2.3	9
78	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.	4.0	31
79	Blu-Ray-based micromechanical characterization platform for biopolymer degradation assessment. Sensors and Actuators B: Chemical, 2017, 241, 1303-1309.	4.0	15
80	Polymeric microcontainers improve oral bioavailability of furosemide. International Journal of Pharmaceutics, 2016, 504, 98-109.	2.6	59
81	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.	5.3	40
82	Detection of nerve gases using surface-enhanced Raman scattering substrates with high droplet adhesion. Nanoscale, 2016, 8, 1305-1308.	2.8	91
83	pH-triggered drug release from biodegradable microwells for oral drug delivery. Biomedical Microdevices, 2015, 17, 9958.	1.4	29
84	Stabilisation of amorphous furosemide increases the oral drug bioavailability in rats. International Journal of Pharmaceutics, 2015, 490, 334-340.	2.6	22
85	Wafer-Scale Leaning Silver Nanopillars for Molecular Detection at Ultra-Low Concentrations. Journal of Physical Chemistry C, 2015, 119, 2053-2062.	1.5	71
86	Integrating electrochemical detection with centrifugal microfluidics for real-time and fully automated sample testing. RSC Advances, 2015, 5, 17187-17193.	1.7	19
87	Towards quantitative SERS detection of hydrogen cyanide at ppb level for human breath analysis. Sensing and Bio-Sensing Research, 2015, 5, 84-89.	2.2	34
88	Hot embossing and mechanical punching of biodegradable microcontainers for oral drug delivery. Microelectronic Engineering, 2015, 133, 104-109.	1.1	17
89	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.	1.5	9
90	Hot punching of high-aspect-ratio 3D polymeric microstructures for drug delivery. Lab on A Chip, 2015, 15, 2576-2579.	3.1	18

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91	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, 268-274.	3.0	11
92	Refining stability and dissolution rate of amorphous drug formulations. <i>Expert Opinion on Drug Delivery</i> , 2014, 11, 977-989.	2.4	119
93	Polymer-filled microcontainers for oral delivery loaded using supercritical impregnation. <i>Journal of Controlled Release</i> , 2014, 173, 1-9.	4.8	61
94	Photothermal Analysis of Individual Nanoparticulate Samples Using Micromechanical Resonators. <i>ACS Nano</i> , 2013, 7, 6188-6193.	7.3	57
95	Ferromagnetic shadow mask for spray coating of polymer patterns. <i>Microelectronic Engineering</i> , 2013, 110, 427-431.	1.1	13
96	Photothermal Infrared Spectroscopy of Airborne Samples with Mechanical String Resonators. <i>Analytical Chemistry</i> , 2013, 85, 10531-10535.	3.2	33
97	Biorelevant characterisation of amorphous furosemide salt exhibits conversion to a furosemide hydrate during dissolution. <i>International Journal of Pharmaceutics</i> , 2013, 457, 14-24.	2.6	28
98	Preparation of an amorphous sodium furosemide salt improves solubility and dissolution rate and leads to a faster T _{max} after oral dosing to rats. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2013, 85, 942-951.	2.0	58
99	Inkjet printing as a technique for filling of micro-wells with biocompatible polymers. <i>Microelectronic Engineering</i> , 2013, 111, 391-395.	1.1	25
100	Process Optimization of Ultrasonic Spray Coating of Polymer Films. <i>Langmuir</i> , 2013, 29, 6911-6919.	1.6	82
101	Spatial confinement can lead to increased stability of amorphous indomethacin. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2012, 81, 418-425.	2.0	54
102	3D microstructuring of biodegradable polymers. <i>Microelectronic Engineering</i> , 2011, 88, 2342-2344.	1.1	15
103	Stability, liposome interaction, and in vivo pharmacology of ghrelin in liposomal suspensions. <i>International Journal of Pharmaceutics</i> , 2010, 390, 13-18.	2.6	31
104	Diffusion of water into SU-8 microcantilevers. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 10577.	1.3	26
105	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.	1.3	30