Niels Bent Larsen

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Cell Motility as Persistent Random Motion: Theories from Experiments. Biophysical Journal, 2005, 89, 912-931.	0.5	250
2	Transport Mechanisms of Alkanethiols during Microcontact Printing on Gold. Journal of Physical Chemistry B, 1998, 102, 3324-3334.	2.6	242
3	Characterization of Ultrathin Poly(ethylene glycol) Monolayers on Silicon Substrates. Langmuir, 2001, 17, 1457-1460.	3.5	232
4	Single-molecule denaturation mapping of DNA in nanofluidic channels. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 13294-13299.	7.1	183
5	Lifetimes of organic photovoltaics: Combining chemical and physical characterisation techniques to study degradation mechanisms. Solar Energy Materials and Solar Cells, 2006, 90, 2793-2814.	6.2	170
6	Optical waveguide sensor for on-line monitoring of bacteria. Optics Letters, 2003, 28, 1233.	3.3	168
7	Highly Stretchable and Conductive Polymer Material Made from Poly(3,4â€ethylenedioxythiophene) and Polyurethane Elastomers. Advanced Functional Materials, 2007, 17, 3069-3073.	14.9	164
8	Microfluidic Networks Made of Poly(dimethylsiloxane), Si, and Au Coated with Polyethylene Glycol for Patterning Proteins onto Surfaces. Langmuir, 2001, 17, 4090-4095.	3.5	161
9	Nanoconfinement-Enhanced Conformational Response of Single DNA Molecules to Changes in Ionic Environment. Physical Review Letters, 2007, 99, 058302.	7.8	161
10	Order in Microcontact Printed Self-Assembled Monolayers. Journal of the American Chemical Society, 1997, 119, 3017-3026.	13.7	158
11	Self-Assembly of Regioregular, Amphiphilic Polythiophenes into Highly Ordered π-Stacked Conjugated Polymer Thin Films and Nanocircuits. Journal of the American Chemical Society, 1998, 120, 7643-7644.	13.7	141
12	Biomimetic Polymer Nanostructures by Injection Molding. Macromolecular Materials and Engineering, 2003, 288, 76-83.	3.6	135
13	Effect of Solvents and Concentration on the Formation of a Self-Assembled Monolayer of Octadecylsiloxane on Silicon (001). Langmuir, 2003, 19, 1182-1188.	3.5	134
14	Confinement Spectroscopy: Probing Single DNA Molecules with Tapered Nanochannels. Nano Letters, 2009, 9, 1382-1385.	9.1	118
15	Stereolithographic hydrogel printing of 3D culture chips with biofunctionalized complex 3D perfusion networks. Lab on A Chip, 2017, 17, 4273-4282.	6.0	112
16	Conductive Polymer Functionalization by Click Chemistry. Macromolecules, 2008, 41, 4321-4327.	4.8	110
17	Decoupled Phase Transitions and Grain-Boundary Melting in Supported Phospholipid Bilayers. Physical Review Letters, 2005, 94, 025701.	7.8	95
18	Demonstration of reverse symmetry waveguide sensing in aqueous solutions. Applied Physics Letters, 2002, 81, 2166-2168.	3.3	92

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19	Monitoring of living cell attachment and spreading using reverse symmetry waveguide sensing. Applied Physics Letters, 2005, 86, 071101.	3.3	89
20	Injection molding of high aspect ratio sub-100 nm nanostructures. Journal of Micromechanics and Microengineering, 2013, 23, 025003.	2.6	89
21	Reverse-symmetry waveguides: theory and fabrication. Applied Physics B: Lasers and Optics, 2002, 74, 383-393.	2.2	88
22	Effects of Colistin on Surface Ultrastructure and Nanomechanics of Pseudomonas aeruginosa Cells. Langmuir, 2009, 25, 3728-3733.	3.5	85
23	Injection molded nanofluidic chips: Fabrication method and functional tests using single-molecule DNA experiments. Lab on A Chip, 2011, 11, 303-308.	6.0	83
24	Directed self-organization of single DNA molecules in a nanoslit via embedded nanopit arrays. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 79-84.	7.1	82
25	Light-Induced Local Heating for Thermophoretic Manipulation of DNA in Polymer Micro- and Nanochannels. Nano Letters, 2010, 10, 826-832.	9.1	78
26	Deep-probe metal-clad waveguide biosensors. Biosensors and Bioelectronics, 2007, 22, 1282-1288.	10.1	77
27	Spatially Selective Functionalization of Conducting Polymers by "Electroclick―Chemistry. Advanced Materials, 2009, 21, 4483-4486.	21.0	71
28	On the injection molding of nanostructured polymer surfaces. Polymer Engineering and Science, 2006, 46, 160-171.	3.1	70
29	In-chip fabrication of free-form 3D constructs for directed cell migration analysis. Lab on A Chip, 2013, 13, 4800.	6.0	59
30	Fabrication of reverse symmetry polymer waveguide sensor chips on nanoporous substrates using dip-floating. Journal of Micromechanics and Microengineering, 2005, 15, 1260-1264.	2.6	47
31	Complex Surface Concentration Gradients by Stenciled â€Electro Click Chemistry― Langmuir, 2010, 26, 16171-16177.	3.5	45
32	Fabrication of all-polymer freestanding waveguides. Journal of Micromechanics and Microengineering, 2003, 13, 419-424.	2.6	44
33	Three-Dimensional Super-Resolution Imaging Using a Row–Column Array. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2020, 67, 538-546.	3.0	44
34	Nanostructures for all-polymer microfluidic systems. Microelectronic Engineering, 2010, 87, 1379-1382.	2.4	42
35	Surface morphology of PS–PDMS diblock copolymer films. Journal of Electron Spectroscopy and Related Phenomena, 2001, 121, 93-110.	1.7	40
36	Direct Fast Patterning of Conductive Polymers Using Agarose Stamping. Advanced Materials, 2007, 19, 3261-3265.	21.0	39

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37	Designing CAF-adjuvanted dry powder vaccines: Spray drying preserves the adjuvant activity of CAF01. Journal of Controlled Release, 2013, 167, 256-264.	9.9	38
38	Synthesis, Properties, and Langmuirâ^'Blodgett Film Studies of an Ionic Dye Terminated Rigid Conducting Oligomer. Langmuir, 2003, 19, 7873-7880.	3.5	36
39	Injection molded chips with integrated conducting polymer electrodes for electroporation of cells. Journal of Micromechanics and Microengineering, 2010, 20, 055010.	2.6	36
40	On-Demand Reversible UV-Triggered Interpenetrating Polymer Network-Based Drug Delivery System Using the Spiropyran–Merocyanine Hydrophobicity Switch. ACS Applied Materials & Interfaces, 2021, 13, 3591-3604.	8.0	36
41	Structure and dynamics of lipid monolayers: implications for enzyme catalysed lipolysis. Nature Structural and Molecular Biology, 1995, 2, 395-401.	8.2	35
42	The recognition of adsorbed and denatured proteins of different topographies by β2 integrins and effects on leukocyte adhesion and activation. Biomaterials, 2005, 26, 3039-3053.	11.4	34
43	Absolute Refractive Index Determination by Microinterferometric Backscatter Detection. Analytical Chemistry, 2003, 75, 1946-1953.	6.5	32
44	Lubricating Effect of Thin Films of Styreneâ^'Dimethylsiloxane Block Copolymers. Langmuir, 1999, 15, 3859-3865.	3.5	31
45	Protein aggregation and degradation during iodine labeling and its consequences for protein adsorption to biomaterials. Analytical Biochemistry, 2007, 361, 120-125.	2.4	31
46	Micropatterning of Functional Conductive Polymers with Multiple Surface Chemistries in Register. Langmuir, 2012, 28, 6502-6511.	3.5	31
47	Electrical and optical properties of thin indium tin oxide films produced by pulsed laser ablation in oxygen or rare gas atmospheres. Applied Surface Science, 1999, 142, 248-252.	6.1	27
48	Comparison of clinical grade type 1 polarized and standard matured dendritic cells for cancer immunotherapy. Vaccine, 2013, 31, 639-646.	3.8	27
49	Competitive protein adsorption to polymer surfaces from human serum. Journal of Materials Science: Materials in Medicine, 2008, 19, 2179-2185.	3.6	26
50	Fluorination of polymethylmethaacrylate with tetrafluoroethane using DC glow discharge plasma. Applied Surface Science, 2008, 254, 5722-5726.	6.1	25
51	Detection and Localization of Ultrasound Scatterers Using Convolutional Neural Networks. IEEE Transactions on Medical Imaging, 2020, 39, 3855-3867.	8.9	25
52	Integration of conducting polymer network in non-conductive polymer substrates. Synthetic Metals, 2006, 156, 1203-1207.	3.9	24
53	Fast prototyping of injection molded polymer microfluidic chips. Journal of Micromechanics and Microengineering, 2010, 20, 015020.	2.6	24
54	3D Printed Hydrogel Multiassay Platforms for Robust Generation of Engineered Contractile Tissues. Biomacromolecules, 2020, 21, 356-365.	5.4	24

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55	Deposition and characterization of ITO films produced by laser ablation at 355 nm. Applied Physics A: Materials Science and Processing, 2002, 74, 147-152.	2.3	23
56	Protein and cell patterning in closed polymer channels by photoimmobilizing proteins on photografted poly(ethylene glycol) diacrylate. Biomicrofluidics, 2014, 8, 064127.	2.4	23
57	Leaky Optoelectrical Fiber for Optogenetic Stimulation and Electrochemical Detection of Dopamine Exocytosis from Human Dopaminergic Neurons. Advanced Science, 2019, 6, 1902011.	11.2	23
58	Electron Transfer Reactions of Self-Assembled Monolayers of Thio(Phenylacetylene)n-Substituted Chiral Metalâ^'Salen Complexes. Langmuir, 2002, 18, 2795-2799.	3.5	22
59	Langmuir-Blodgett Films of a Functionalized Molecule with Cross-Sectional Mismatch Between Head and Tail. Science, 1994, 264, 1301-1304.	12.6	21
60	The Effects of Collagen Type I Topography on Myoblasts In Vitro. Connective Tissue Research, 2004, 45, 238-247.	2.3	21
61	Embedded 3D Printing in Selfâ€Healing Annealable Composites for Precise Patterning of Functionally Mature Human Neural Constructs. Advanced Science, 2022, 9, .	11.2	21
62	Quantification of grafted poly(ethylene glycol)-silanes on silicon by time-of-flight secondary ion mass spectrometry. Journal of Mass Spectrometry, 2002, 37, 699-708.	1.6	20
63	An all-polymer micropump based on the conductive polymer poly (3,4-ethylenedioxythiophene) and a polyurethane channel system. Journal of Micromechanics and Microengineering, 2007, 17, 860-866.	2.6	20
64	Multimaterial hydrogel with widely tunable elasticity by selective photopolymerization of PEG diacrylate and epoxy monomers. Journal of Polymer Science, Part B: Polymer Physics, 2016, 54, 1195-1201.	2.1	20
65	Lateral and Vertical Quantification of Spin-Coated Polymer Films on Silicon by TOF-SIMS, XPS, and AFM. Journal of Physical Chemistry B, 2002, 106, 13114-13121.	2.6	19
66	Micropatterning of a stretchable conductive polymer using inkjet printing and agarose stamping. Synthetic Metals, 2007, 157, 961-967.	3.9	19
67	Topology optimization and 3D printing of large deformation compliant mechanisms for straining biological tissues. Structural and Multidisciplinary Optimization, 2021, 63, 1351-1366.	3.5	19
68	Solvent Composition Directing Click-Functionalization at the Surface or in the Bulk of Azide-Modified PEDOT. Macromolecules, 2011, 44, 495-501.	4.8	18
69	Autocrine CCL19 blocks dendritic cell migration toward weak gradients of CCL21. Cytotherapy, 2016, 18, 1187-1196.	0.7	18
70	Ordering of the Disk-like 2,3,6,7,10,11-Hexakis(hexylthio)triphenylene in Solution and at a Liquidâ^'Solid Interface. Langmuir, 1996, 12, 1690-1692.	3.5	17
71	Fabrication of an all-polymer electrochemical sensor by using a one-step hot embossing procedure. Microelectronic Engineering, 2010, 87, 1239-1241.	2.4	17
72	One-step polymer surface modification for minimizing drug, protein, and DNA adsorption in microanalytical systems. Lab on A Chip, 2013, 13, 669-675.	6.0	17

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73	Human cytomegalovirus chemokine receptor US28 induces migration of cells on a CX3CL1-presenting surface. Journal of General Virology, 2013, 94, 1111-1120.	2.9	17
74	Protein Inâ€Mold Patterning. Advanced Materials, 2008, 20, 1825-1829.	21.0	16
75	Generating substrate bound functional chemokine gradients in vitro. Biomaterials, 2009, 30, 5305-5311.	11.4	16
76	Micropatterned Carbon-on-Quartz Electrode Chips for Photocurrent Generation from Thylakoid Membranes. ACS Applied Energy Materials, 2018, 1, 3313-3322.	5.1	16
77	Enhanced transduction of photonic crystal dye lasers for gas sensing via swelling polymer film. Optics Letters, 2011, 36, 1392.	3.3	15
78	Efficient large volume electroporation of dendritic cells through micrometer scale manipulation of flow in a disposable polymer chip. Biomedical Microdevices, 2011, 13, 383-392.	2.8	15
79	Facile Photoimmobilization of Proteins onto Low-Binding PEG-Coated Polymer Surfaces. Biomacromolecules, 2014, 15, 894-899.	5.4	15
80	Highly sensitive biosensing based on interference from light scattering in capillary tubes. Applied Physics Letters, 2006, 89, 151108.	3.3	14
81	Dual-Material 3D-Printed Intestinal Model Devices with Integrated Villi-like Scaffolds. ACS Applied Materials & Interfaces, 2021, 13, 58434-58446.	8.0	14
82	Directed self-assembly of amphiphilic regioregular polythiophenes on the nanometer scale. Synthetic Metals, 1999, 102, 1502-1505.	3.9	13
83	Microwave assisted click chemistry on a conductive polymer film. Synthetic Metals, 2011, 161, 812-816.	3.9	13
84	Hydrogen silsesquioxane mold coatings for improved replication of nanopatterns by injection molding. Journal of Micromechanics and Microengineering, 2015, 25, 035018.	2.6	13
85	3D printed calibration micro-phantoms for super-resolution ultrasound imaging validation. Ultrasonics, 2021, 114, 106353.	3.9	11
86	Imaging therapeutic peptide transport across intestinal barriers. RSC Chemical Biology, 2021, 2, 1115-1143.	4.1	10
87	X-ray diffraction and molecular-dynamics studies: Structural analysis of phases in diglyceride monolayers. Physical Review E, 1998, 57, 3153-3163.	2.1	9
88	3D Printed Flow Phantoms with Fiducial Markers for Super-Resolution Ultrasound Imaging. , 2018, , .		9
89	Confinement dependent chemotaxis in two-photon polymerized linear migration constructs with highly definable concentration gradients. Biomedical Microdevices, 2015, 17, 30.	2.8	8
90	Ultrasound Multiple Point Target Detection and Localization using Deep Learning. , 2019, , .		7

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91	Three-dimensional chemical and physical analysis of the degradation mechanisms in organic photovoltaics. , 2006, , .		6
92	The lamellar period in symmetric diblock copolymer thin films studied by neutron reflectivity and AFM. Applied Surface Science, 1999, 142, 608-613.	6.1	5
93	Data-driven modeling of nano-nose gas sensor arrays. Proceedings of SPIE, 2010, , .	0.8	5
94	History and Latest Advances in Flow Estimation Technology: From 1-D in 2-D to 3-D in 4-D. , 2019, , .		5
95	Micro-Drilling of Polymer Tubular Ultramicroelectrode Arrays for Electrochemical Sensors. Sensors, 2013, 13, 6319-6333.	3.8	4
96	3-D Super Resolution Imaging using a 62+62 Elements Row-Column Array. , 2019, , .		4
97	Reverse Symmetry Waveguide for Optical Biosensing. , 2005, , 279-301.		4
98	Nanoimprinted polymer chips for light induced local heating of liquids in micro- and nanochannels. , 2010, , .		3
99	Cell culture plastics with immobilized interleukinâ€4 for monocyte differentiation. Journal of Biomedical Materials Research - Part A, 2011, 96A, 372-383.	4.0	3
100	Multiplexed Dosing Assays by Digitally Definable Hydrogel Volumes. Advanced Healthcare Materials, 2016, 5, 244-254.	7.6	3
101	Surface modification of polystyrene by blending substituted styrene copolymers. Journal of Polymer Science, Part B: Polymer Physics, 2001, 39, 1046-1054.	2.1	2
102	Polymer-coated vertical-cavity surface-emitting laser diode vapor sensor. , 2010, , .		2
103	3D Printed Calibration Micro-phantoms for Validation of Super-Resolution Ultrasound Imaging. , 2019, , .		2
104	High Resolution Dual Material Stereolithography for Monolithic Microdevices. Advanced Materials Technologies, 0, , 2101180.	5.8	2
105	Wafer scale coating of polymer cantilever fabricated by nanoimprint lithography. , 2010, , .		1
106	Fast prototyping of conducting polymer microelectrodes using resistance-controlled high precision drilling. Microelectronic Engineering, 2011, 88, 2589-2592.	2.4	1
107	Exploration of two methods for quantitative Mitomycin C measurement in tumor tissue in vitro and in vivo. Biological Procedures Online, 2013, 15, 12.	2.9	1
108	Large-Scale mRNA Transfection of Dendritic Cells by Electroporation in Continuous Flow Systems. Methods in Molecular Biology, 2016, 1428, 151-161.	0.9	1

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109	Light harvesting and energy transfer in large multidomain molecules. , 2005, , .		0
110	Selective gas sensing for photonic crystal lasers. , 2011, , .		0
111	Reverse Symmetry Waveguide for Optical Biosensing. , 2005, , 279-301.		0