Jrgen Brugger

List of Publications by Year in Descending Order

172 papers	4,444 citations	35 h-index	59 g-index
191 ext. papers	5,095 ext. citations	6.4 avg, IF	5.71 L-index

#	Paper	IF	Citations
172	Multiscale 2D/3D microshaping and property tuning of polymer-derived SiCN ceramics. *Journal of the European Ceramic Society*, **2022**, 42, 1963-1970	6	0
171	SU-8 cantilever with integrated pyrolyzed glass-like carbon piezoresistor.. *Microsystems and Nanoengineering*, **2022**, 8, 22	7.7	0
170	Stretchable Conductors Fabricated by Stencil Lithography and Centrifugal Force-Assisted Patterning of Liquid Metal.. *ACS Applied Electronic Materials*, **2021**, 3, 5423-5432	4	5
169	Recent progress in silk fibroin-based flexible electronics. *Microsystems and Nanoengineering*, **2021**, 7, 35	7.7	25
168	Electrochemical performance of polymer-derived SiOC and SiTiOC ceramic electrodes for artificial cardiac pacemaker applications. *Ceramics International*, **2021**, 47, 7593-7601	5.1	2
167	Precision Surface Microtopography Regulates Cell Fate via Changes to Actomyosin Contractility and Nuclear Architecture. *Advanced Science*, **2021**, 8, 2003186	13.6	17
166	Additive micro-manufacturing of crack-free PDCs by two-photon polymerization of a single, low-shrinkage preceramic resin. *Additive Manufacturing*, **2020**, 35, 101343	6.1	11
165	Thermomechanical Nanocutting of 2D Materials. *Advanced Materials*, **2020**, 32, e2001232	24	11
164	In Vitro Cytocompatibility Assessment of Ti-Modified, Silicon-oxycarbide-Based, Polymer-Derived, Ceramic-Implantable Electrodes under Pacing Conditions. *ACS Applied Materials & Interfaces*, **2020**, 12, 17244-17253	9.5	10
163	Simply Structured Wearable Triboelectric Nanogenerator Based on a Hybrid Composition of Carbon Nanotubes and Polymer Layer. *International Journal of Precision Engineering and Manufacturing - Green Technology*, **2020**, 7, 683-698	3.8	18
162	Thermal scanning probe lithography-a review. *Microsystems and Nanoengineering*, **2020**, 6, 21	7.7	27
161	Level-line moiré by superposition of cylindrical microlens gratings. *Journal of the Optical Society of America A: Optics and Image Science, and Vision*, **2020**, 37, 209-218	1.8	1
160	Thermomechanical Nanostraining of Two-Dimensional Materials. *Nano Letters*, **2020**, 20, 8250-8257	11.5	13
159	Thermal and pH Sensitive Composite Membrane for On-Demand Drug Delivery by Applying an Alternating Magnetic Field. *Advanced Materials Interfaces*, **2020**, 7, 2000733	4.6	4
158	Cracks, porosity and microstructure of Ti modified polymer-derived SiOC revealed by absorption-, XRD- and XRF-contrast 2D and 3D imaging. *Acta Materialia*, **2020**, 198, 134-144	8.4	3
157	Sampling Optical Modes and Electronic States with Fast, Monochromated EELS. *Microscopy and Microanalysis*, **2020**, 26, 1754-1755	0.5	
156	Biodegradable Frequency-Selective Magnesium Radio-Frequency Microresonators for Transient Biomedical Implants. *Advanced Functional Materials*, **2019**, 29, 1903051	15.6	9

155	Printed silk-fibroin-based triboelectric nanogenerators for multi-functional wearable sensing. *Nano Energy*, **2019**, 66, 104123	17.1	65
154	A 3D Microscaffold Cochlear Electrode Array for Steroid Elution. *Advanced Healthcare Materials*, **2019**, 8, e1900379	10.1	12
153	1D moir shapes by superposed layers of micro-lenses. *Optics Express*, **2019**, 27, 37419-37434	3.3	2
152	Combination of thermal scanning probe lithography and ion etching to fabricate 3D silicon nanopatterns with extremely smooth surface. *Microelectronic Engineering*, **2018**, 193, 23-27	2.5	8
151	All-in-one self-powered flexible microsystems based on triboelectric nanogenerators. *Nano Energy*, **2018**, 47, 410-426	17.1	185
150	Nanostructured surface topographies have an effect on bactericidal activity. *Journal of Nanobiotechnology*, **2018**, 16, 20	9.4	61
149	All-fiber hybrid piezoelectric-enhanced triboelectric nanogenerator for wearable gesture monitoring. *Nano Energy*, **2018**, 48, 152-160	17.1	231
148	Unusually Long-Lived Photocharges in Helical Organic Semiconductor Nanostructures. *ACS Nano*, **2018**, 12, 9116-9125	16.7	16
147	Growth of Large-Area 2D MoS Arrays at Pre-Defined Locations Using Stencil Mask Lithography. *Journal of Nanoscience and Nanotechnology*, **2018**, 18, 1824-1832	1.3	4
146	Optical Antenna-Based Fluorescence Correlation Spectroscopy to Probe the Nanoscale Dynamics of Biological Membranes. *Journal of Physical Chemistry Letters*, **2018**, 9, 110-119	6.4	28
145	Inkjet-Printing Polymer Nanocomposite for Detecting VOCs. *Proceedings (mdpi)*, **2018**, 2, 882	0.3	1
144	Penciling a triboelectric nanogenerator on paper for autonomous power MEMS applications. *Nano Energy*, **2017**, 33, 393-401	17.1	95
143	In-Plane Plasmonic Antenna Arrays with Surface Nanogaps for Giant Fluorescence Enhancement. *Nano Letters*, **2017**, 17, 1703-1710	11.5	90
142	Mode Evolution in Strongly Coupled Plasmonic Dolmens Fabricated by Templated Assembly. *ACS Photonics*, **2017**, 4, 1661-1668	6.3	9
141	Single-chip electron spin resonance detectors operating at 50GHz, 92GHz, and 146GHz. *Journal of Magnetic Resonance*, **2017**, 278, 113-121	3	17
140	High sensitivity field asymmetric ion mobility spectrometer. *Review of Scientific Instruments*, **2017**, 88, 035115	1.7	7
139	Mode Coupling in Plasmonic Heterodimers Probed with Electron Energy Loss Spectroscopy. *ACS Nano*, **2017**, 11, 3485-3495	16.7	32
138	Where Does Energy Go in Electron Energy Loss Spectroscopy of Nanostructures?. *ACS Photonics*, **2017**, 4, 156-164	6.3	15

137	Nanopatterning of a Stimuli-Responsive Fluorescent Supramolecular Polymer by Thermal Scanning Probe Lithography. *ACS Applied Materials & Interfaces*, **2017**, 9, 41454-41461	9.5	21
136	Planar Optical Nanoantennas Resolve Cholesterol-Dependent Nanoscale Heterogeneities in the Plasma Membrane of Living Cells. *Nano Letters*, **2017**, 17, 6295-6302	11.5	32
135	Transient Nanoscopic Phase Separation in Biological Lipid Membranes Resolved by Planar Plasmonic Antennas. *ACS Nano*, **2017**, 11, 7241-7250	16.7	28
134	Shape Memory Micro- and Nanowire Libraries for the High-Throughput Investigation of Scaling Effects. *ACS Combinatorial Science*, **2017**, 19, 574-584	3.9	
133	Growth Of Organic Semiconductor Thin Films with Multi-Micron Domain Size and Fabrication of Organic Transistors Using a Stencil Nanosieve. *ACS Applied Materials & Interfaces*, **2017**, 9, 23314-23318	9.5	4
132	Silicon Nanostructures for Bright Field Full Color Prints. *ACS Photonics*, **2017**, 4, 1913-1919	6.3	122
131	Nanoscale topographical control of capillary assembly of nanoparticles. *Nature Nanotechnology*, **2017**, 12, 73-80	28.7	209
130	Arrays of Pentacene Single Crystals by Stencil Evaporation. *Crystal Growth and Design*, **2016**, 16, 4694-4700	3.9	3
129	Exploring Nanoscale Electrical Properties of CuO-Graphene Based Hybrid Interfaced Memory Device by Conductive Atomic Force Microscopy. *Journal of Nanoscience and Nanotechnology*, **2016**, 16, 4044-51	1.3	2
128	Bi-directional ACET micropump for on-chip biological applications. *Electrophoresis*, **2016**, 37, 719-26	3.6	28
127	A silk-fibroin-based transparent triboelectric generator suitable for autonomous sensor network. *Nano Energy*, **2016**, 20, 37-47	17.1	96
126	Antibacterial Au nanostructured surfaces. *Nanoscale*, **2016**, 8, 2620-5	7.7	76
125	3D nanostructures fabricated by advanced stencil lithography. *Nanoscale*, **2016**, 8, 4945-50	7.7	19
124	Penciling a triboelectric power source on paper **2016**,		2
123	Harnessing the damping properties of materials for high-speed atomic force microscopy. *Nature Nanotechnology*, **2016**, 11, 147-51	28.7	62
122	Grand Challenge in N/MEMS. *Frontiers in Mechanical Engineering*, **2016**, 1,	2.6	13
121	Scanning thermal probe microscope method for the determination of thermal diffusivity of nanocomposite thin films. *Review of Scientific Instruments*, **2016**, 87, 084903	1.7	6
120	Rapid carbon nanotubes suspension in organic solvents using organosilicon polymers. *Journal of Colloid and Interface Science*, **2016**, 470, 123-131	9.3	8

119	CNT and PDCs: A fruitful association? Study of a polycarbosilane/MWCNT composite. *Journal of the European Ceramic Society*, **2015**, 35, 2215-2224	6	13
118	Impedance sensing of DNA immobilization and hybridization by microfabricated alumina nanopore membranes. *Sensors and Actuators B: Chemical*, **2015**, 216, 105-112	8.5	14
117	Cytotoxicity evaluation of polymer-derived ceramics for pacemaker electrode applications. *Journal of Biomedical Materials Research - Part A*, **2015**, 103, 3625-32	5.4	17
116	Organic-inorganic-hybrid-polymer microlens arrays with tailored optical characteristics and multi-focal properties. *Optics Express*, **2015**, 23, 25365-76	3.3	20
115	On the micrometre precise mould filling of liquid polymer derived ceramic precursor for 300-µm-thick high aspect ratio ceramic MEMS. *Ceramics International*, **2015**, 41, 623-629	5.1	12
114	Resistless nanofabrication by stencil lithography: A review. *Microelectronic Engineering*, **2015**, 132, 236-254	2.3	62
113	Large-Scale Arrays of Bowtie Nanoaperture Antennas for Nanoscale Dynamics in Living Cell Membranes. *Nano Letters*, **2015**, 15, 4176-82	11.5	32
112	Composite hydrogel-loaded alumina membranes for nanofluidic molecular filtration. *Journal of Membrane Science*, **2015**, 477, 151-156	9.6	12
111	Cell force measurements in 3D microfabricated environments based on compliant cantilevers. *Lab on A Chip*, **2014**, 14, 286-93	7.2	15
110	Single-cell 3D Bio-MEMS environment with engineered geometry and physiologically relevant stiffnesses **2014**,		1
109	Inkjet printed superparamagnetic polymer composite hemispheres with programmed magnetic anisotropy. *Nanoscale*, **2014**, 6, 10495-9	7.7	13
108	Liquid-filled sealed MEMS capsules fabricated by fluidic self-assembly **2014**,		4
107	Influence of carbon enrichment on electrical conductivity and processing of polycarbosilane derived ceramic for MEMS applications. *Journal of the European Ceramic Society*, **2014**, 34, 3559-3570	6	47
106	UV-Imprint Resists Generated from Polymerizable Ionic Liquids and Titania Nanoparticles. *Journal of Physical Chemistry C*, **2014**, 118, 16743-16748	3.8	5
105	Inkjet Printing of High Aspect Ratio Superparamagnetic SU-8 Microstructures with Preferential Magnetic Directions. *Micromachines*, **2014**, 5, 583-593	3.3	13
104	Automated real-time control of fluidic self-assembly of microparticles **2014**,		6
103	Curved Holographic Combiner for Color Head Worn Display. *Journal of Display Technology*, **2014**, 10, 444-449		12
102	Microdrop generation and deposition of ionic liquids. *Journal of Materials Research*, **2014**, 29, 2100-2107	2.5	5

101	Three-dimensional polymeric microtiles for optically-tracked fluidic self-assembly. *Microelectronic Engineering*, **2014**, 124, 1-7	2.5	3
100	Direct imprinting of organic□inorganic hybrid materials into high aspect ratio sub-100 nm structures. *Microsystem Technologies*, **2014**, 20, 1961-1966	1.7	4
99	Fabrication of HepG2 Cell Laden Collagen Microspheres using Inkjet Printing. *Journal of the Korean Society for Precision Engineering*, **2014**, 31, 743-747	0.3	4
98	Curved transflective holographic screens for head-mounted display **2013**,		3
97	Fluid-mediated parallel self-assembly of polymeric micro-capsules for liquid encapsulation and release. *Soft Matter*, **2013**, 9, 9931	3.6	10
96	. *IEEE Journal of Photovoltaics*, **2013**, 3, 22-26	3.7	9
95	Cell shape-dependent early responses of fibroblasts to cyclic strain. *Biochimica Et Biophysica Acta - Molecular Cell Research*, **2013**, 1833, 3415-3425	4.9	7
94	Large-Area Gold/Parylene Plasmonic Nanostructures Fabricated by Direct Nanocutting. *Advanced Optical Materials*, **2013**, 1, 50-54	8.1	13
93	Integrated Long-Range Thermal Bimorph Actuators for Parallelizable Bio-AFM Applications. *IEEE Sensors Journal*, **2013**, 13, 2849-2856	4	2
92	Structural and optical properties of the Cu2ZnSnSe4 thin films grown by nano-ink coating and selenization. *Journal of Materials Science: Materials in Electronics*, **2013**, 24, 529-535	2.1	9
91	Simple and easily controllable parabolic-shaped microlenses printed on polymeric mesas. *Journal of Materials Chemistry C*, **2013**, 1, 2152	7.1	13
90	Dynamics of capillary self-alignment for mesoscopic foil devices. *Applied Physics Letters*, **2013**, 102, 144101	3.4	10
89	Field effect modulated nanofluidic diode membrane based on Al2O3/W heterogeneous nanopore arrays. *Applied Physics Letters*, **2013**, 102, 213108	3.4	30
88	When nothing is constant but change: Adaptive and sensorial materials and their impact on product design. *Journal of Intelligent Material Systems and Structures*, **2013**, 24, 2172-2182	2.3	10
87	High-resolution 1D moiré as counterfeit security features. *Light: Science and Applications*, **2013**, 2, e86-e86	16.7	36
86	Inkjet printed SU-8 hemispherical microcapsules and silicon chip embedding. *Micro and Nano Letters* , **2013**, 8, 633-636	0.9	12
85	Resistless Fabrication of Nanoimprint Lithography (NIL) Stamps Using Nano-Stencil Lithography. *Micromachines*, **2013**, 4, 370-377	3.3	8
84	Mechanical and tribological properties of polymer-derived Si/C/N sub-millimetre thick miniaturized components fabricated by direct casting. *Journal of the European Ceramic Society*, **2012**, 32, 1759-1767	6	14

83	Microdrop printing of hydrogel bioinks into 3D tissue-like geometries. *Advanced Materials*, **2012**, 24, 391-6	24	197
82	Facile fabrication of nanofluidic diode membranes using anodic aluminium oxide. *Nanoscale*, **2012**, 4, 5718-23	7.7	62
81	Streched organic transistors maintain mobility on flexible substrates. *Microelectronic Engineering*, **2012**, 98, 508-511	2.5	7
80	Sub micrometer ceramic structures fabricated by molding a polymer-derived ceramic. *Microelectronic Engineering*, **2012**, 97, 272-275	2.5	11
79	Effects of tensile stress on electrical parameters of thin film conductive wires fabricated on a flexible substrate using stencil lithography. *Microelectronic Engineering*, **2012**, 98, 230-233	2.5	2
78	Vertically-stacked gate-all-around polysilicon nanowire FETs with sub-□n gates patterned by nanostencil lithography. *Microelectronic Engineering*, **2012**, 98, 355-358	2.5	6
77	Compliant membranes improve resolution in full-wafer micro/nanostencil lithography. *Nanoscale*, **2012**, 4, 773-8	7.7	12
76	Ultra-low power hydrogen sensing based on a palladium-coated nanomechanical beam resonator. *Nanoscale*, **2012**, 4, 5059-64	7.7	28
75	Highly ordered palladium nanodot patterns for full concentration range hydrogen sensing. *Nanoscale*, **2012**, 4, 1964-7	7.7	27
74	Directly fabricated multi-scale microlens arrays on a hydrophobic flat surface by a simple ink-jet printing technique. *Journal of Materials Chemistry*, **2012**, 22, 3053		65
73	Stencil-nanopatterned back reflectors for thin-film amorphous silicon n-i-p solar cells **2012**,		1
72	High-resolution resistless nanopatterning on polymer and flexible substrates for plasmonic biosensing using stencil masks. *ACS Nano*, **2012**, 6, 5474-81	16.7	53
71	Organic half-wave rectifier fabricated by stencil lithography on flexible substrate. *Microelectronic Engineering*, **2012**, 100, 47-50	2.5	8
70	UV-patternable polymers with selective spectral response. *Microelectronic Engineering*, **2012**, 98, 234-237	2.5	0
69	CAFM investigations of filamentary conduction in Cu2O ReRAM devices fabricated using stencil lithography technique. *Nanotechnology*, **2012**, 23, 495707	3.4	45
68	Conductivity of SU-8 Thin Films through Atomic Force Microscopy Nano-Patterning. *Advanced Functional Materials*, **2012**, 22, 1482-1488	15.6	14
67	Carbon nanotubes□U8 composite for flexible conductive inkjet printable applications. *Journal of Materials Chemistry*, **2012**, 22, 14030		27
66	Metallic nanodot arrays by stencil lithography for plasmonic biosensing applications. *ACS Nano*, **2011**, 5, 844-53	16.7	75

65	Hybrid polymer microlens arrays with high numerical apertures fabricated using simple ink-jet printing technique. *Optical Materials Express*, **2011**, 1, 259	2.6	74
64	Nano-stenciled RGD-gold patterns that inhibit focal contact maturation induce lamellipodia formation in fibroblasts. *PLoS ONE*, **2011**, 6, e25459	3.7	26
63	High throughput nanofabrication of silicon nanowire and carbon nanotube tips on AFM probes by stencil-deposited catalysts. *Nano Letters*, **2011**, 11, 1568-74	11.5	44
62	100 mm dynamic stencils pattern sub-micrometre structures. *Nanoscale*, **2011**, 3, 2739-42	7.7	7
61	Oxide nanocrystal based nanocomposites for fabricating photoplastic AFM probes. *Nanoscale*, **2011** , 3, 4632-9	7.7	7
60	Reliable and Improved Nanoscale Stencil Lithography by Membrane Stabilization, Blurring, and Clogging Corrections. *IEEE Nanotechnology Magazine*, **2011**, 10, 352-357	2.6	25
59	Localized Ion Implantation Through Micro/Nanostencil Masks. *IEEE Nanotechnology Magazine*, **2011**, 10, 940-946	2.6	14
58	Link between alginate reaction front propagation and general reaction diffusion theory. *Analytical Chemistry*, **2011**, 83, 2234-42	7.8	38
57	Three-level stencil alignment fabrication of a high-k gate stack organic thin film transistor. *Microelectronic Engineering*, **2011**, 88, 2496-2499	2.5	4
56	The effects of channel length and film microstructure on the performance of pentacene transistors. *Organic Electronics*, **2011**, 12, 336-340	3.5	15
55	Robust PECVD SiC membrane made for stencil lithography. *Microelectronic Engineering*, **2011**, 88, 2790-2793	2.5	7
54	Ambipolar silicon nanowire FETs with stenciled-deposited metal gate. *Microelectronic Engineering*, **2011**, 88, 2732-2735	2.5	11
53	SiN membranes with submicrometer hole arrays patterned by wafer-scale nanosphere lithographya). *Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics*, **2011**, 29, 021012	1.3	16
52	Stenciled conducting bismuth nanowiresa). *Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics*, **2010**, 28, 169-172	1.3	14
51	Inexpensive and fast wafer-scale fabrication of nanohole arrays in thin gold films for plasmonics. *Nanotechnology*, **2010**, 21, 205301	3.4	21
50	Fluidic microstructuring of alginate hydrogels for the single cell niche. *Lab on A Chip*, **2010**, 10, 2771-7	7.2	11
49	The transition in hydrogen sensing behavior in noncontinuous palladium films. *Applied Physics Letters*, **2010**, 97, 121911	3.4	42
48	Organic thin film transistors on flexible polyimide substrates fabricated by full-wafer stencil lithography. *Sensors and Actuators A: Physical*, **2010**, 162, 155-159	3.9	28

47	Double-gate pentacene thin-film transistor with improved control in sub-threshold region. *Solid-State Electronics*, **2010**, 54, 1003-1009	1.7	16
46	Drop-On-Demand Inkjet Printing of SU-8 Polymer. *Micro and Nanosystems*, **2009**, 1, 63-67	0.6	24
45	Localized Silicon Nanocrystals Fabricated by Stencil Masked Low Energy Ion Implantation: Effect of the Stencil Aperture Size on the Implanted Dose. *Materials Research Society Symposia Proceedings*, **2009**, 1160, 1		
44	An oligomerized 53BP1 tudor domain suffices for recognition of DNA double-strand breaks. *Molecular and Cellular Biology*, **2009**, 29, 1050-8	4.8	88
43	Inkjet-printed multicolor arrays of highly luminescent nanocrystal-based nanocomposites. *Small*, **2009**, 5, 1051-7	11	40
42	Drop-on-demand inkjet printing of highly luminescent CdS and CdSe@ZnS nanocrystal based nanocomposites. *Microelectronic Engineering*, **2009**, 86, 1124-1126	2.5	18
41	NEMS/CMOS sensor for monitoring deposition rates in stencil lithography. *Procedia Chemistry*, **2009**, 1, 425-428		
40	Organic Thin Film Transistors on Flexible Polyimide Substrates Fabricated by Full Wafer Stencil Lithography. *Procedia Chemistry*, **2009**, 1, 762-765		9
39	Microcollimator for micrometer-wide stripe irradiation of cells using 20-30 keV X rays. *Radiation Research*, **2009**, 172, 252-9	3.1	7
38	Double-gate pentacene TFTs with improved control in subthreshold region **2009**,		3
37	Quick and Clean: Stencil Lithography for Wafer-Scale Fabrication of Superconducting Tunnel Junctions. *IEEE Transactions on Applied Superconductivity*, **2009**, 19, 242-244	1.8	8
36	Conduction in rectangular quasi-one-dimensional and two-dimensional random resistor networks away from the percolation threshold. *Physical Review E*, **2009**, 80, 021104	2.4	13
35	Nanomechanical mass sensor for spatially resolved ultrasensitive monitoring of deposition rates in stencil lithography. *Small*, **2009**, 5, 176-80	11	26
34	Focused Ion Beam: A Versatile Technique for the Fabrication of Nano-Devices. *Praktische Metallographie/Practical Metallography*, **2009**, 46, 154-156	0.3	2
33	Dynamic stencil lithography on full wafer scale. *Journal of Vacuum Science & Technology B*, **2008**, 26, 2054-2058		15
32	Two-dimensional magnetic resonance force microscopy using full-volume Fourier and Hadamard encoding. *Physical Review B*, **2008**, 78,	3.3	9
31	Nanopatterned Self-Assembled Monolayers by Using Diblock Copolymer Micelles as Nanometer-Scale Adsorption and Etch Masks. *Advanced Materials*, **2008**, 20, 1962-1965	24	14
30	Combining Micelle Self-Assembly with Nanostencil Lithography to Create Periodic/Aperiodic Micro-/Nanopatterns on Surfaces. *Advanced Materials*, **2008**, 20, 3533-3538	24	14

29	Reusability of nanostencils for the patterning of Aluminum nanostructures by selective wet etching. *Microelectronic Engineering*, **2008**, 85, 1237-1240	2.5	24
28	Mechanical stabilisation and design optimisation of masks for stencil lithography: Numerical approach and experimental validation. *Microelectronic Engineering*, **2008**, 85, 2243-2249	2.5	2
27	NMR spectroscopy and perfusion of mammalian cells using surface microprobes. *Lab on A Chip*, **2007**, 7, 381-3	7.2	16
26	Predicting mask distortion, clogging and pattern transfer for stencil lithography. *Microelectronic Engineering*, **2007**, 84, 42-53	2.5	34
25	Micropositioning and microscopic observation of individual picoliter-sized containers within SU-8 microchannels. *Microfluidics and Nanofluidics*, **2007**, 3, 189-194	2.8	16
24	Patterning of parallel nanobridge structures by reverse nanostencil lithography using an edge-patterned stencil. *Nanotechnology*, **2007**, 18, 044002	3.4	5
23	Fabrication and testing of a poly(vinylidene fluoride) (PVDF) microvalve for gas flow control. *Smart Materials and Structures*, **2007**, 16, 2302-2307	3.4	4
22	Direct observation of nuclear spin diffusion in real space. *Physical Review Letters*, **2007**, 99, 227603	7.4	26
21	Nanostenciling for fabrication and interconnection of nanopatterns and microelectrodes. *Applied Physics Letters*, **2007**, 90, 093113	3.4	21
20	Formation of Metal Nano- and Micropatterns on Self-Assembled Monolayers by Pulsed Laser Deposition Through Nanostencils and Electroless Deposition. *Advanced Functional Materials*, **2006**, 16, 1337-1342	15.6	30
19	Fabrication of metallic patterns by microstencil lithography on polymer surfaces suitable as microelectrodes in integrated microfluidic systems. *Journal of Micromechanics and Microengineering* , **2006**, 16, 1606-1613	2	23
18	Reverse transfer of nanostencil patterns using intermediate sacrificial layer and lift-off process. *Journal of Vacuum Science & Technology B*, **2006**, 24, 2772		3
17	Surface Micromachining of Polyureasilazane Based Ceramic-MEMS Using SU-8 Micromolds. *Advances in Science and Technology*, **2006**, 45, 1293-1298	0.1	4
16	Cell membranes suspended across nanoaperture arrays. *Langmuir*, **2006**, 22, 22-5	4	51
15	Block copolymer micelles as switchable templates for nanofabrication. *Langmuir*, **2006**, 22, 3450-2	4	65
14	Fabrication and functionalization of nanochannels by electron-beam-induced silicon oxide deposition. *Langmuir*, **2006**, 22, 10711-5	4	80
13	Micro- and Nanostructured Devices for the Investigation of Biomolecular Interactions. *Chimia*, **2006** , 60, 754-760	1.3	7
12	Corrugated membranes for improved pattern definition with micro/nanostencil lithography. *Sensors and Actuators A: Physical*, **2006**, 130-131, 568-574	3.9	26

List of Publications

11	Complex oxide nanostructures by pulsed laser deposition through nanostencils. *Applied Physics Letters*, **2005**, 86, 183107	3.4	54
10	Fabrication and application of a full wafer size micro/nanostencil for multiple length-scale surface patterning. *Microelectronic Engineering*, **2003**, 67-68, 609-614	2.5	77
9	Size-dependent free solution DNA electrophoresis in structured microfluidic systems. *Microelectronic Engineering*, **2003**, 67-68, 905-912	2.5	36
8	All-photoplastic microstencil with self-alignment for multiple layer shadow-mask patterning. *Sensors and Actuators A: Physical*, **2003**, 107, 132-136	3.9	35
7	Electrical properties of light-addressed sub-μm electrodes fabricated by use of nanostencil-technology. *Microelectronic Engineering*, **2002**, 61-62, 971-980	2.5	10
6	Shadow-Mask Evaporation through Monolayer-Modified Nanostencils. *Nano Letters*, **2002**, 2, 1339-1343	11.5	44
5	Photoplastic shadow-masks for rapid resistless multi-layer micropatterning **2001**, 1604-1607		
4	Parallel nanodevice fabrication using a combination of shadow mask and scanning probe methods. *Applied Physics Letters*, **1999**, 75, 1314-1316	3.4	91
3	Characterization of an integrated force sensor based on a MOS transistor for applications in scanning force microscopy. *Sensors and Actuators A: Physical*, **1998**, 64, 1-6	3.9	21
2	Precise Capillary-Assisted Nanoparticle Assembly in Reusable Templates. *Particle and Particle Systems Characterization*,2100288	3.1	
1	Nanoelectromechanical Systems (NEMS). *Advanced Micro & Nanosystems*,203-231		3