Matthias Geissler

List of Publications by Year
in descending order

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60	3,808	172457	133252
papers	citations	29 h-index	59 g-index

61	61	61	4305
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Patterning: Principles and Some New Developments. Advanced Materials, 2004, 16, 1249-1269.	21.0	602
2	Single-Crystal Nanowires of Platinum Can Be Synthesized by Controlling the Reaction Rate of a Polyol Process. Journal of the American Chemical Society, 2004, 126, 10854-10855.	13.7	469
3	Printing meets lithography: Soft approaches to high-resolution patterning. IBM Journal of Research and Development, 2001, 45, 697-719.	3.1	450
4	Edge Spreading Lithography and Its Application to the Fabrication of Mesoscopic Gold and Silver Rings. Journal of the American Chemical Society, 2004, 126, 10830-10831.	13.7	190
5	Hydrophilic Poly(dimethylsiloxane) Stamps for Microcontact Printing. Advanced Materials, 2001, 13, 1164-1167.	21.0	169
6	Microcontact Printing Using Poly(dimethylsiloxane) Stamps Hydrophilized by Poly(ethylene oxide) Silanes. Langmuir, 2003, 19, 8749-8758.	3.5	150
7	Fabrication of Metal Nanowires Using Microcontact Printing. Langmuir, 2003, 19, 6301-6311.	3.5	126
8	Microcontact-Printing Chemical Patterns with Flat Stamps. Journal of the American Chemical Society, 2000, 122, 6303-6304.	13.7	88
9	Defect-Tolerant and Directional Wet-Etch Systems for Using Monolayers as Resists. Langmuir, 2002, 18, 2374-2377.	3.5	84
10	Active pneumatic control of centrifugal microfluidic flows for lab-on-a-chip applications. Lab on A Chip, 2015, 15, 2400-2411.	6.0	83
11	Self-Assembled Monolayers of Eicosanethiol on Palladium and Their Use in Microcontact Printing. Langmuir, 2002, 18, 2406-2412.	3.5	79
12	Patterned Electroless Deposition of Copper by Microcontact Printing Palladium(II) Complexes on Titanium-Covered Surfaces. Langmuir, 2000, 16, 6367-6373.	3.5	77
13	Assessment of multidrug resistance on cell coculture patterns using scanning electrochemical microscopy. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 9249-9254.	7.1	76
14	Biological Scanning Electrochemical Microscopy and Its Application to Live Cell Studies. Analytical Chemistry, 2011, 83, 1485-1492.	6.5	75
15	Positive Microcontact Printing. Journal of the American Chemical Society, 2002, 124, 3834-3835.	13.7	62
16	Oxygen Plasma Treatment of Polystyrene and Zeonor: Substrates for Adhesion of Patterned Cells. Langmuir, 2009, 25, 7169-7176.	3.5	56
17	Electroless Deposition of Cu on Glass and Patterning with Microcontact Printing. Langmuir, 2003, 19, 6567-6569.	3.5	54
18	Side-by-Side Patterning of Multiple Alkanethiolate Monolayers on Gold by Edge-Spreading Lithography. Angewandte Chemie - International Edition, 2005, 44, 3596-3600.	13.8	48

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19	Edge-Spreading Lithography:Â Use of Patterned Photoresist Structures to Direct the Spreading of Alkanethiols on Gold. Nano Letters, 2005, 5, 31-36.	9.1	48
20	Active pumping and control of flows in centrifugal microfluidics. Microfluidics and Nanofluidics, 2019, 23, 1.	2.2	48
21	Extraction of nucleic acids from blood: unveiling the potential of active pneumatic pumping in centrifugal microfluidics for integration and automation of sample preparation processes. Lab on A Chip, 2019, 19, 1941-1952.	6.0	48
22	Prototyping of microfluidic systems using a commercial thermoplastic elastomer. Microfluidics and Nanofluidics, 2011, 11, 235-244.	2.2	44
23	Multiple Surface Plasmon Resonances and Near-Infrared Field Enhancement of Gold Nanowells. Analytical Chemistry, 2008, 80, 4945-4950.	6.5	43
24	Plastic Substrates for Surface-Enhanced Raman Scattering. Journal of Physical Chemistry C, 2009, 113, 17296-17300.	3.1	42
25	Direct Patterning of NiB on Glass Substrates Using Microcontact Printing and Electroless Deposition. Langmuir, 2003, 19, 6283-6296.	3.5	39
26	Microfluidic Patterning of Miniaturized DNA Arrays on Plastic Substrates. ACS Applied Materials & Interfaces, 2009, 1, 1387-1395.	8.0	39
27	Electroless Deposition of NiB on 15 Inch Glass Substrates for the Fabrication of Transistor Gates for Liquid Crystal Displays. Langmuir, 2003, 19, 5923-5935.	3.5	38
28	3D thermoplastic elastomer microfluidic devices for biological probe immobilization. Lab on A Chip, 2011, 11, 4099.	6.0	37
29	Printing Meets Lithography: Soft Approaches to High-Resolution Patterning. Chimia, 2002, 56, 527-542.	0.6	33
30	Microfluidic filtration and extraction of pathogens from food samples by hydrodynamic focusing and inertial lateral migration. Biomedical Microdevices, 2015, 17, 17.	2.8	29
31	Patterning of Chemical Gradients with Submicrometer Resolution Using Edge-Spreading Lithography. Small, 2006, 2, 760-765.	10.0	27
32	Comparative Study of Monolayers Self-Assembled from Alkylisocyanides and Alkanethiols on Polycrystalline Pt Substrates. Langmuir, 2004, 20, 6993-6997.	3.5	23
33	Microfluidic Integration of a Cloth-Based Hybridization Array System (CHAS) for Rapid, Colorimetric Detection of Enterohemorrhagic Escherichia coli (EHEC) Using an Articulated, Centrifugal Platform. Analytical Chemistry, 2015, 87, 10565-10572.	6.5	23
34	Centrifugal microfluidic lab-on-a-chip system with automated sample lysis, DNA amplification and microarray hybridization for identification of enterohemorrhagic Escherichia coli culture isolates. Analyst, The, 2020, 145, 6831-6845.	3.5	23
35	An STM Study of Chemically Deposited Silver Nanoclusters on Mixed Self-Assembled Monolayers. Angewandte Chemie - International Edition, 1998, 37, 3286-3289.	13.8	21
36	Patterning NiB Electroless Deposited on Glass Using an Electroplated Cu Mask, Microcontact Printing, and Wet Etching. Langmuir, 2003, 19, 5892-5897.	3.5	21

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37	Localized Detection of <scp>d</scp>â€Serine by using an Enzymatic Amperometric Biosensor and Scanning Electrochemical Microscopy. ChemElectroChem, 2017, 4, 920-926.	3.4	20
38	Selective wet-etching of microcontact-printed Cu substrates with control over the etch profile. Microelectronic Engineering, 2003, 67-68, 326-332.	2.4	17
39	Determination of the Relationship between Expression and Functional Activity of Multidrug Resistance-Associated Protein 1 using Scanning Electrochemical Microscopy. Analytical Chemistry, 2017, 89, 8988-8994.	6.5	17
40	Automated sample-to-answer centrifugal microfluidic system for rapid molecular diagnostics of SARS-CoV-2. Lab on A Chip, 2022, 22, 3157-3171.	6.0	17
41	Integrated air stream micromixer for performing bioanalytical assays on a plastic chip. Lab on A Chip, 2014, 14, 3750.	6.0	16
42	Separation and concentration of Phytophthora ramorum sporangia by inertial focusing in curving microfluidic flows. Microfluidics and Nanofluidics, 2017, 21, 1.	2.2	15
43	Epigenetic subtyping of white blood cells using a thermoplastic elastomer-based microfluidic emulsification device for multiplexed, methylation-specific digital droplet PCR. Analyst, The, 2019, 144, 6541-6553.	3.5	15
44	Chemical deposition of silver nanoclusters on self-assembled organic monolayers. A strategy to contact individual molecules. Chemical Physics Letters, 1996, 263, 581-584.	2.6	13
45	Self-assembly of hexadecanethiol molecules on gold from the vapour phase as directed by a two-dimensional array of silica beads. Chemical Physics Letters, 2005, 408, 80-83.	2.6	13
46	Evaluating the Use of Edge Detection in Extracting Feature Size from Scanning Electrochemical Microscopy Images. Analytical Chemistry, 2019, 91, 3944-3950.	6.5	13
47	Detection of renal biomarkers in chronic kidney disease using microfluidics: progress, challenges and opportunities. Biomedical Microdevices, 2020, 22, 29.	2.8	13
48	Buoyancy-driven step emulsification on pneumatic centrifugal microfluidic platforms. Lab on A Chip, 2020, 20, 3091-3095.	6.0	11
49	Stretching the Stamp: A Flexible Approach to the Fabrication of Miniaturized DNA Arrays. Small, 2009, 5, 2514-2518.	10.0	10
50	Air stream-mediated vortex agitation of microlitre entities on a fluidic chip. Lab on A Chip, 2011, 11, 1717.	6.0	9
51	Extraction of nucleic acids from bacterial spores using beadâ€based mechanical lysis on a plastic chip. Engineering in Life Sciences, 2011, 11, 174-181.	3.6	9
52	Polymer Micropillar Arrays for Colorimetric DNA Detection. Analytical Chemistry, 2020, 92, 7738-7745.	6.5	9
53	Portable bead-based fluorescence detection system for multiplex nucleic acid testing: a case study with Bacillus anthracis. Microfluidics and Nanofluidics, 2014, 16, 1075-1087.	2.2	8
54	Multifunctional magnetic nanoparticle cloud assemblies for in situ capture of bacteria and isolation of microbial DNA. Analyst, The, 2021, 146, 7491-7502.	3.5	5

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55	Real-time monitoring of bead-based DNA hybridization in a microfluidic system: study of amplicon hybridization behavior on solid supports. Analyst, The, 2021, 146, 4226-4234.	3.5	4
56	Modular Ultrasonic Lysis System for Rapid Nucleic Acid Extraction and Sample Transfer of Bacillus Spores. Journal of Bioterrorism & Biodefense, 2012, 03, .	0.1	3
57	Use of Polymer Micropillar Arrays as Templates for Solid-Phase Immunoassays. ACS Applied Polymer Materials, 2022, 4, 5287-5297.	4.4	2
58	Thermoâ€Active Elastomer Composite for Optical Heating in Microfluidic Systems. Small, 2013, 9, 654-659.	10.0	1
59	Fabrication of Microfluidic Devices in Thermoplastic Elastomeric Materials for DNA Detection on Thermal Plastic Substrate. Materials Research Society Symposia Proceedings, 2009, 1222, 1.	0.1	0
60	Methylation Specific Multiplex Droplet PCR using Polymer Droplet Generator Device for Hematological Diagnostics. Journal of Visualized Experiments, 2020, , .	0.3	0