

Matthias Geissler

List of Publications by Year in descending order

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Version: 2024-02-01

60
papers

3,808
citations

172457

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133252

59
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all docs

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docs citations

61
times ranked

4305
citing authors

#	ARTICLE	IF	CITATIONS
1	Use of Polymer Micropillar Arrays as Templates for Solid-Phase Immunoassays. <i>ACS Applied Polymer Materials</i> , 2022, 4, 5287-5297.	4.4	2
2	Automated sample-to-answer centrifugal microfluidic system for rapid molecular diagnostics of SARS-CoV-2. <i>Lab on A Chip</i> , 2022, 22, 3157-3171.	6.0	17
3	Real-time monitoring of bead-based DNA hybridization in a microfluidic system: study of amplicon hybridization behavior on solid supports. <i>Analyst, The</i> , 2021, 146, 4226-4234.	3.5	4
4	Multifunctional magnetic nanoparticle cloud assemblies for <i>in situ</i> capture of bacteria and isolation of microbial DNA. <i>Analyst, The</i> , 2021, 146, 7491-7502.	3.5	5
5	Centrifugal microfluidic lab-on-a-chip system with automated sample lysis, DNA amplification and microarray hybridization for identification of enterohemorrhagic <i>Escherichia coli</i> culture isolates. <i>Analyst, The</i> , 2020, 145, 6831-6845.	3.5	23
6	Buoyancy-driven step emulsification on pneumatic centrifugal microfluidic platforms. <i>Lab on A Chip</i> , 2020, 20, 3091-3095.	6.0	11
7	Detection of renal biomarkers in chronic kidney disease using microfluidics: progress, challenges and opportunities. <i>Biomedical Microdevices</i> , 2020, 22, 29.	2.8	13
8	Polymer Micropillar Arrays for Colorimetric DNA Detection. <i>Analytical Chemistry</i> , 2020, 92, 7738-7745.	6.5	9
9	Methylation Specific Multiplex Droplet PCR using Polymer Droplet Generator Device for Hematological Diagnostics. <i>Journal of Visualized Experiments</i> , 2020, , .	0.3	0
10	Active pumping and control of flows in centrifugal microfluidics. <i>Microfluidics and Nanofluidics</i> , 2019, 23, 1.	2.2	48
11	Extraction of nucleic acids from blood: unveiling the potential of active pneumatic pumping in centrifugal microfluidics for integration and automation of sample preparation processes. <i>Lab on A Chip</i> , 2019, 19, 1941-1952.	6.0	48
12	Evaluating the Use of Edge Detection in Extracting Feature Size from Scanning Electrochemical Microscopy Images. <i>Analytical Chemistry</i> , 2019, 91, 3944-3950.	6.5	13
13	Epigenetic subtyping of white blood cells using a thermoplastic elastomer-based microfluidic emulsification device for multiplexed, methylation-specific digital droplet PCR. <i>Analyst, The</i> , 2019, 144, 6541-6553.	3.5	15
14	Separation and concentration of <i>Phytophthora ramorum</i> sporangia by inertial focusing in curving microfluidic flows. <i>Microfluidics and Nanofluidics</i> , 2017, 21, 1.	2.2	15
15	Localized Detection of Serine by using an Enzymatic Amperometric Biosensor and Scanning Electrochemical Microscopy. <i>ChemElectroChem</i> , 2017, 4, 920-926.	3.4	20
16	Determination of the Relationship between Expression and Functional Activity of Multidrug Resistance-Associated Protein 1 using Scanning Electrochemical Microscopy. <i>Analytical Chemistry</i> , 2017, 89, 8988-8994.	6.5	17
17	Microfluidic filtration and extraction of pathogens from food samples by hydrodynamic focusing and inertial lateral migration. <i>Biomedical Microdevices</i> , 2015, 17, 17.	2.8	29
18	Active pneumatic control of centrifugal microfluidic flows for lab-on-a-chip applications. <i>Lab on A Chip</i> , 2015, 15, 2400-2411.	6.0	83

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19	Microfluidic Integration of a Cloth-Based Hybridization Array System (CHAS) for Rapid, Colorimetric Detection of Enterohemorrhagic <i>Escherichia coli</i> (EHEC) Using an Articulated, Centrifugal Platform. <i>Analytical Chemistry</i> , 2015, 87, 10565-10572.	6.5	23
20	Integrated air stream micromixer for performing bioanalytical assays on a plastic chip. <i>Lab on A Chip</i> , 2014, 14, 3750.	6.0	16
21	Portable bead-based fluorescence detection system for multiplex nucleic acid testing: a case study with <i>Bacillus anthracis</i> . <i>Microfluidics and Nanofluidics</i> , 2014, 16, 1075-1087.	2.2	8
22	Assessment of multidrug resistance on cell coculture patterns using scanning electrochemical microscopy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 9249-9254.	7.1	76
23	Thermo-Active Elastomer Composite for Optical Heating in Microfluidic Systems. <i>Small</i> , 2013, 9, 654-659.	10.0	1
24	Modular Ultrasonic Lysis System for Rapid Nucleic Acid Extraction and Sample Transfer of <i>Bacillus</i> Spores. <i>Journal of Bioterrorism & Biodefense</i> , 2012, 03, .	0.1	3
25	Air stream-mediated vortex agitation of microlitre entities on a fluidic chip. <i>Lab on A Chip</i> , 2011, 11, 1717.	6.0	9
26	Biological Scanning Electrochemical Microscopy and Its Application to Live Cell Studies. <i>Analytical Chemistry</i> , 2011, 83, 1485-1492.	6.5	75
27	3D thermoplastic elastomer microfluidic devices for biological probe immobilization. <i>Lab on A Chip</i> , 2011, 11, 4099.	6.0	37
28	Extraction of nucleic acids from bacterial spores using bead-based mechanical lysis on a plastic chip. <i>Engineering in Life Sciences</i> , 2011, 11, 174-181.	3.6	9
29	Prototyping of microfluidic systems using a commercial thermoplastic elastomer. <i>Microfluidics and Nanofluidics</i> , 2011, 11, 235-244.	2.2	44
30	Plastic Substrates for Surface-Enhanced Raman Scattering. <i>Journal of Physical Chemistry C</i> , 2009, 113, 17296-17300.	3.1	42
31	Fabrication of Microfluidic Devices in Thermoplastic Elastomeric Materials for DNA Detection on Thermal Plastic Substrate. <i>Materials Research Society Symposia Proceedings</i> , 2009, 1222, 1.	0.1	0
32	Stretching the Stamp: A Flexible Approach to the Fabrication of Miniaturized DNA Arrays. <i>Small</i> , 2009, 5, 2514-2518.	10.0	10
33	Oxygen Plasma Treatment of Polystyrene and Zeonor: Substrates for Adhesion of Patterned Cells. <i>Langmuir</i> , 2009, 25, 7169-7176.	3.5	56
34	Microfluidic Patterning of Miniaturized DNA Arrays on Plastic Substrates. <i>ACS Applied Materials & Interfaces</i> , 2009, 1, 1387-1395.	8.0	39
35	Multiple Surface Plasmon Resonances and Near-Infrared Field Enhancement of Gold Nanowells. <i>Analytical Chemistry</i> , 2008, 80, 4945-4950.	6.5	43
36	Patterning of Chemical Gradients with Submicrometer Resolution Using Edge-Spreading Lithography. <i>Small</i> , 2006, 2, 760-765.	10.0	27

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37	Self-assembly of hexadecanethiol molecules on gold from the vapour phase as directed by a two-dimensional array of silica beads. <i>Chemical Physics Letters</i> , 2005, 408, 80-83.	2.6	13
38	Side-by-Side Patterning of Multiple Alkanethiolate Monolayers on Gold by Edge-Spreading Lithography. <i>Angewandte Chemie - International Edition</i> , 2005, 44, 3596-3600.	13.8	48
39	Edge-Spreading Lithography: Use of Patterned Photoresist Structures to Direct the Spreading of Alkanethiols on Gold. <i>Nano Letters</i> , 2005, 5, 31-36.	9.1	48
40	Comparative Study of Monolayers Self-Assembled from Alkylisocyanides and Alkanethiols on Polycrystalline Pt Substrates. <i>Langmuir</i> , 2004, 20, 6993-6997.	3.5	23
41	Patterning: Principles and Some New Developments. <i>Advanced Materials</i> , 2004, 16, 1249-1269.	21.0	602
42	Edge Spreading Lithography and Its Application to the Fabrication of Mesoscopic Gold and Silver Rings. <i>Journal of the American Chemical Society</i> , 2004, 126, 10830-10831.	13.7	190
43	Single-Crystal Nanowires of Platinum Can Be Synthesized by Controlling the Reaction Rate of a Polyol Process. <i>Journal of the American Chemical Society</i> , 2004, 126, 10854-10855.	13.7	469
44	Selective wet-etching of microcontact-printed Cu substrates with control over the etch profile. <i>Microelectronic Engineering</i> , 2003, 67-68, 326-332.	2.4	17
45	Fabrication of Metal Nanowires Using Microcontact Printing. <i>Langmuir</i> , 2003, 19, 6301-6311.	3.5	126
46	Electroless Deposition of NiB on 15 Inch Glass Substrates for the Fabrication of Transistor Gates for Liquid Crystal Displays. <i>Langmuir</i> , 2003, 19, 5923-5935.	3.5	38
47	Electroless Deposition of Cu on Glass and Patterning with Microcontact Printing. <i>Langmuir</i> , 2003, 19, 6567-6569.	3.5	54
48	Patterning NiB Electroless Deposited on Glass Using an Electroplated Cu Mask, Microcontact Printing, and Wet Etching. <i>Langmuir</i> , 2003, 19, 5892-5897.	3.5	21
49	Direct Patterning of NiB on Glass Substrates Using Microcontact Printing and Electroless Deposition. <i>Langmuir</i> , 2003, 19, 6283-6296.	3.5	39
50	Microcontact Printing Using Poly(dimethylsiloxane) Stamps Hydrophilized by Poly(ethylene oxide) Silanes. <i>Langmuir</i> , 2003, 19, 8749-8758.	3.5	150
51	Printing Meets Lithography: Soft Approaches to High-Resolution Patterning. <i>Chimia</i> , 2002, 56, 527-542.	0.6	33
52	Positive Microcontact Printing. <i>Journal of the American Chemical Society</i> , 2002, 124, 3834-3835.	13.7	62
53	Self-Assembled Monolayers of Eicosanethiol on Palladium and Their Use in Microcontact Printing. <i>Langmuir</i> , 2002, 18, 2406-2412.	3.5	79
54	Defect-Tolerant and Directional Wet-Etch Systems for Using Monolayers as Resists. <i>Langmuir</i> , 2002, 18, 2374-2377.	3.5	84

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55	Printing meets lithography: Soft approaches to high-resolution patterning. IBM Journal of Research and Development, 2001, 45, 697-719.	3.1	450
56	Hydrophilic Poly(dimethylsiloxane) Stamps for Microcontact Printing. Advanced Materials, 2001, 13, 1164-1167.	21.0	169
57	Patterned Electroless Deposition of Copper by Microcontact Printing Palladium(II) Complexes on Titanium-Covered Surfaces. Langmuir, 2000, 16, 6367-6373.	3.5	77
58	Microcontact-Printing Chemical Patterns with Flat Stamps. Journal of the American Chemical Society, 2000, 122, 6303-6304.	13.7	88
59	An STM Study of Chemically Deposited Silver Nanoclusters on Mixed Self-Assembled Monolayers. Angewandte Chemie - International Edition, 1998, 37, 3286-3289.	13.8	21
60	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