

Pavel A Levkin

List of Publications by Year in descending order

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159
papers

6,982
citations

71061

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167
all docs

167
docs citations

167
times ranked

7740
citing authors

#	ARTICLE	IF	CITATIONS
1	Emerging Applications of Superhydrophilic/Superhydrophobic Micropatterns. <i>Advanced Materials</i> , 2013, 25, 1234-1247.	11.1	407
2	Design and Applications of Photoresponsive Hydrogels. <i>Advanced Materials</i> , 2019, 31, e1807333.	11.1	353
3	Porous Polymer Coatings: a Versatile Approach to Superhydrophobic Surfaces. <i>Advanced Functional Materials</i> , 2009, 19, 1993-1998.	7.8	308
4	UV-Triggered Dopamine Polymerization: Control of Polymerization, Surface Coating, and Photopatterning. <i>Advanced Materials</i> , 2014, 26, 8029-8033.	11.1	307
5	Slippery Liquid-Infused Porous Surfaces Showing Marine Antibiofouling Properties. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 10074-10080.	4.0	251
6	Superhydrophobic/Superhydrophilic Micropatterning: Towards Genome-on-a-Chip Cell Microarrays. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 8424-8427.	7.2	220
7	Hydrophobic Liquid-Infused Porous Polymer Surfaces for Antibacterial Applications. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 6704-6711.	4.0	187
8	Droplet Array (DA) Sandwich Chip: A Versatile Platform for High-Throughput Cell Screening Based on Superhydrophobic/Superhydrophilic Micropatterning. <i>Advanced Materials</i> , 2015, 27, 5217-5222.	11.1	177
9	Slippery Lubricant-Infused Surfaces: Properties and Emerging Applications. <i>Advanced Functional Materials</i> , 2019, 29, 1802317.	7.8	172
10	A Facile Approach to Superhydrophilic/Superhydrophobic Patterns in Porous Polymer Films. <i>Advanced Materials</i> , 2011, 23, 3030-3034.	11.1	170
11	Droplet Microarrays: From Surface Patterning to High-Throughput Applications. <i>Advanced Materials</i> , 2018, 30, e1706111.	11.1	170
12	Droplet Microarray: facile formation of arrays of microdroplets and hydrogel micropads for cell screening applications. <i>Lab on A Chip</i> , 2012, 12, 5218.	3.1	156
13	Surface Patterning via Thiol-Yne Click Chemistry: An Extremely Fast and Versatile Approach to Superhydrophilic/Superhydrophobic Micropatterns. <i>Advanced Materials Interfaces</i> , 2014, 1, 1400269.	1.9	127
14	UV-Triggered Polymerization, Deposition, and Patterning of Plant Phenolic Compounds. <i>Advanced Functional Materials</i> , 2017, 27, 1700127.	7.8	111
15	Superoleophobic Slippery Lubricant-Infused Surfaces: Combining Two Extremes in the Same Surface. <i>Advanced Materials</i> , 2018, 30, e1803890.	11.1	106
16	3D printing of inherently nanoporous polymers via polymerization-induced phase separation. <i>Nature Communications</i> , 2021, 12, 247.	5.8	105
17	Monolithic porous polymer stationary phases in polyimide chips for the fast high-performance liquid chromatography separation of proteins and peptides. <i>Journal of Chromatography A</i> , 2008, 1200, 55-61.	1.8	104
18	Micropatterned superhydrophobic structures for the simultaneous culture of multiple cell types and the study of cell-cell communication. <i>Biomaterials</i> , 2013, 34, 1757-1763.	5.7	102

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19	Superhydrophobic and Slippery Lubricant-Infused Flexible Transparent Nanocellulose Films by Photoinduced Thiol-ene Functionalization. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 34115-34122.	4.0	96
20	Single-Step Fabrication of High-Density Microdroplet Arrays of Low-Surface-Tension Liquids. <i>Advanced Materials</i> , 2016, 28, 3202-3208.	11.1	93
21	Reactive Superhydrophobic Surface and Its Photoinduced Disulfide-ene and Thiol-ene (Bio)functionalization. <i>Nano Letters</i> , 2015, 15, 675-681.	4.5	86
22	3D Printing of Superhydrophobic Objects with Bulk Nanostructure. <i>Advanced Materials</i> , 2021, 33, e2106068.	11.1	84
23	Fabrication of Hydrogel Particles of Defined Shapes Using Superhydrophobic-Hydrophilic Micropatterns. <i>Advanced Materials</i> , 2016, 28, 7613-7619.	11.1	83
24	Droplet-microarray on superhydrophobic-superhydrophilic patterns for high-throughput live cell screenings. <i>RSC Advances</i> , 2016, 6, 38263-38276.	1.7	79
25	Printable Superhydrophilic-Superhydrophobic Micropatterns Based on Supported Lipid Layers. <i>Langmuir</i> , 2012, 28, 8286-8291.	1.6	78
26	Boronate-dextran: An acid-responsive biodegradable polymer for drug delivery. <i>Biomaterials</i> , 2013, 34, 8504-8510.	5.7	73
27	Monolithic Superhydrophobic Polymer Layer with Photopatterned Virtual Channel for the Separation of Peptides Using Two-Dimensional Thin Layer Chromatography-Desorption Electrospray Ionization Mass Spectrometry. <i>Analytical Chemistry</i> , 2010, 82, 2520-2528.	3.2	70
28	Reversible and Rewritable Surface Functionalization and Patterning via Photodynamic Disulfide Exchange. <i>Advanced Materials</i> , 2015, 27, 4997-5001.	11.1	69
29	Marrying chemistry with biology by combining on-chip solution-based combinatorial synthesis and cellular screening. <i>Nature Communications</i> , 2019, 10, 2879.	5.8	59
30	UV-Induced Tetrazole-Thiol Reaction for Polymer Conjugation and Surface Functionalization. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 8732-8735.	7.2	58
31	Hierarchical Micro-Nano Surface Topography Promotes Long-Term Maintenance of Undifferentiated Mouse Embryonic Stem Cells. <i>Nano Letters</i> , 2015, 15, 7146-7154.	4.5	58
32	Tough, Transparent, 3D-Printable, and Self-Healing Poly(ethylene glycol)-Gel (PEGgel). <i>Advanced Materials</i> , 2022, 34, e2107791.	11.1	55
33	Combinatorial Approach to Nanoarchitectonics for Nonviral Delivery of Nucleic Acids. <i>Advanced Materials</i> , 2016, 28, 1159-1175.	11.1	54
34	A biomimetic lipid library for gene delivery through thiol-yne click chemistry. <i>Biomaterials</i> , 2012, 33, 8160-8166.	5.7	53
35	Micropatterning Hydrophobic Liquid on a Porous Polymer Surface for Long-Term Selective Cell-Repellency. <i>Advanced Healthcare Materials</i> , 2013, 2, 1425-1429.	3.9	52
36	Patterned superhydrophobic surfaces to process and characterize biomaterials and 3D cell culture. <i>Materials Horizons</i> , 2018, 5, 379-393.	6.4	51

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37	Facile One Step Formation and Screening of Tumor Spheroids Using Droplet Microarray Platform. <i>Small</i> , 2019, 15, e1901299.	5.2	51
38	Patterned SLIPS for the Formation of Arrays of Biofilm Microclusters with Defined Geometries. <i>Advanced Healthcare Materials</i> , 2017, 6, 1601082.	3.9	49
39	Droplet Sorting and Manipulation on Patterned Two-Phase Slippery Lubricant-Infused Surface. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 16130-16138.	4.0	45
40	Bio-inspired strategy for controlled dopamine polymerization in basic solutions. <i>Polymer Chemistry</i> , 2017, 8, 2145-2151.	1.9	44
41	High-Density Droplet Microarray of Individually Addressable Electrochemical Cells. <i>Analytical Chemistry</i> , 2017, 89, 5832-5839.	3.2	44
42	3D Two-Photon Microprinting of Nanoporous Architectures. <i>Advanced Materials</i> , 2020, 32, e2002044.	11.1	44
43	Assembly of Multi-Spheroid Cellular Architectures by Programmable Droplet Merging. <i>Advanced Materials</i> , 2021, 33, e2006434.	11.1	42
44	A combined high-throughput and high-content platform for unified on-chip synthesis, characterization and biological screening. <i>Nature Communications</i> , 2020, 11, 5391.	5.8	41
45	UV-Induced Disulfide Formation and Reduction for Dynamic Photopatterning. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 13765-13769.	7.2	40
46	UV-Triggered Polydopamine Secondary Modification: Fast Deposition and Removal of Metal Nanoparticles. <i>Advanced Functional Materials</i> , 2019, 29, 1901875.	7.8	40
47	Apparent and true enantioselectivity of single- and binary-selector chiral stationary phases in gas chromatography. <i>Journal of Chromatography A</i> , 2008, 1184, 309-322.	1.8	38
48	Visible light initiated polymerization of styrenic monolithic stationary phases using 470 nm light emitting diode arrays. <i>Journal of Separation Science</i> , 2010, 33, 61-66.	1.3	38
49	Combining the Enantioselectivities of Valine Diamide and Permethylated β -Cyclodextrin in One Gas Chromatographic Chiral Stationary Phase. <i>Analytical Chemistry</i> , 2006, 78, 5143-5148.	3.2	37
50	Superhydrophilic-Superhydrophobic Patterned Surfaces as High-Density Cell Microarrays: Optimization of Reverse Transfection. <i>Advanced Healthcare Materials</i> , 2016, 5, 2646-2654.	3.9	36
51	A practical method for the quantitative assessment of non-enantioselective versus enantioselective interactions encountered in liquid chromatography on brush-type chiral stationary phase. <i>Journal of Chromatography A</i> , 2012, 1269, 270-278.	1.8	34
52	Origami magnetic cellulose: controlled magnetic fraction and patterning of flexible bacterial cellulose. <i>Journal of Materials Chemistry C</i> , 2014, 2, 6312-6318.	2.7	33
53	Fish Microarray: A Miniaturized Platform for Single-Embryo High-Throughput Screenings. <i>Advanced Functional Materials</i> , 2018, 28, 1703486.	7.8	33
54	Biofilm Bridges Forming Structural Networks on Patterned Lubricant-Infused Surfaces. <i>Advanced Science</i> , 2019, 6, 1900519.	5.6	33

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55	Covalent cucurbit[7]uril dye conjugates for sensing in aqueous saline media and biofluids. <i>Chemical Science</i> , 2020, 11, 11142-11153.	3.7	33
56	Inverse Vulcanization of Styrylethyltrimethoxysilane-Coated Surfaces, Particles, and Crosslinked Materials. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 18639-18645.	7.2	33
57	Freestanding MOF Microsheets with Defined Size and Geometry Using Superhydrophobic-Superhydrophilic Arrays. <i>Advanced Materials Interfaces</i> , 2016, 3, 1500392.	1.9	32
58	Reparable Superhydrophobic Surface with Hidden Reactivity, Its Photofunctionalization and Photopatterning. <i>Advanced Functional Materials</i> , 2018, 28, 1803765.	7.8	31
59	Porous poly(2-octyl cyanoacrylate): a facile one-step preparation of superhydrophobic coatings on different substrates. <i>Journal of Materials Chemistry A</i> , 2013, 1, 1026-1029.	5.2	30
60	Bioinspired Strategy for Controlled Polymerization and Photopatterning of Plant Polyphenols. <i>Chemistry of Materials</i> , 2018, 30, 1937-1946.	3.2	30
61	Facile Approach to Conductive Polymer Microelectrodes for Flexible Electronics. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 21661-21668.	4.0	30
62	Direct UV-Induced Functionalization of Surface Hydroxy Groups by Thiol-OI Chemistry. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 3835-3839.	7.2	29
63	Droplet Microarray Based on Superhydrophobic-Superhydrophilic Patterns for Single Cell Analysis. <i>Microarrays (Basel, Switzerland)</i> , 2016, 5, 28.	1.4	29
64	Micro-patterns on nanocellulose films and paper by photo-induced thiol-ene click coupling: a facile method toward wetting with spatial resolution. <i>Cellulose</i> , 2018, 25, 367-375.	2.4	29
65	Temperature-Induced Inversion of the Elution Order of Enantiomers in Gas Chromatography: N-Ethoxycarbonyl Propylamides and N-Trifluoroacetyl Ethyl Esters of α -Amino Acids on Chirasil-Val-C11 and Chirasil-Dex Stationary Phases. <i>Analytical Chemistry</i> , 2007, 79, 4401-4409.	3.2	27
66	Free-standing three-dimensional hollow bacterial cellulose structures with controlled geometry via patterned superhydrophobic-hydrophilic surfaces. <i>Soft Matter</i> , 2018, 14, 3955-3962.	1.2	27
67	Droplet Microarray Based on Nanosensing Probe Patterns for Simultaneous Detection of Multiple HIV Retroviral Nucleic Acids. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 55614-55623.	4.0	27
68	Combining the enantioselectivity of a cyclodextrin and a diamide selector in a mixed binary gas-chromatographic chiral stationary phase. <i>Chirality</i> , 2006, 18, 49-63.	1.3	26
69	Droplet Microarray Based on Patterned Superhydrophobic Surfaces Prevents Stem Cell Differentiation and Enables High-Throughput Stem Cell Screening. <i>Advanced Healthcare Materials</i> , 2017, 6, 1700622.	3.9	26
70	eGFP-tagged Wnt-3a enables functional analysis of Wnt trafficking and signaling and kinetic assessment of Wnt binding to full-length Frizzled. <i>Journal of Biological Chemistry</i> , 2020, 295, 8759-8774.	1.6	26
71	Homo- and Heterochirality in Crystals. <i>Topics in Stereochemistry</i> , 2006, , 81-134.	2.0	25
72	Evaluation of the Droplet-Microarray Platform for High-Throughput Screening of Suspension Cells. <i>SLAS Technology</i> , 2017, 22, 163-175.	1.0	25

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73	Droplet microarray: miniaturized platform for rapid formation and high-throughput screening of embryoid bodies. <i>Lab on A Chip</i> , 2018, 18, 2257-2269.	3.1	25
74	Precision Medicine in Oncology: In Vitro Drug Sensitivity and Resistance Test (DSRT) for Selection of Personalized Anticancer Therapy. <i>Advanced Therapeutics</i> , 2020, 3, 1900100.	1.6	25
75	Nanomolar Synthesis in Droplet Microarrays with UV-Triggered On-Chip Cell Screening. <i>Small</i> , 2020, 16, e1905971.	5.2	25
76	Strong Detrimental Effect of a Minute Enantiomeric Impurity of a Chiral Selector on the Enantioselectivity Factor. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 7742-7744.	7.2	24
77	Surface functionalization of conjugated microporous polymer thin films and nanomembranes using orthogonal chemistries. <i>Journal of Materials Chemistry A</i> , 2016, 4, 6815-6818.	5.2	24
78	Formation of Liquid-Liquid Micropatterns through Guided Liquid Displacement on Liquid-Infused Surfaces. <i>Advanced Materials Interfaces</i> , 2018, 5, 1800852.	1.9	24
79	Droplet-Microarray: Miniaturized Platform for High-Throughput Screening of Antimicrobial Compounds. <i>Advanced Biology</i> , 2020, 4, e2000073.	3.0	24
80	Facile and Multiple Replication of Superhydrophilic-Superhydrophobic Patterns Using Adhesive Tape. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 8053-8057.	4.0	23
81	Combinatorial Synthesis and High-Throughput Screening of Alkyl Amines for Nonviral Gene Delivery. <i>Bioconjugate Chemistry</i> , 2013, 24, 1543-1551.	1.8	23
82	Polymerisation and surface modification of methacrylate monoliths in polyimide channels and polyimide coated capillaries using 660 nm light emitting diodes. <i>Journal of Chromatography A</i> , 2011, 1218, 2954-2962.	1.8	22
83	Formation of a Polymer Surface with a Gradient of Pore Size Using a Microfluidic Chip. <i>Langmuir</i> , 2013, 29, 3797-3804.	1.6	19
84	Miniaturized platform for high-throughput screening of stem cells. <i>Current Opinion in Biotechnology</i> , 2017, 46, 141-149.	3.3	19
85	Bacterial Cellulose Promotes Long-Term Stemness of mESC. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 16260-16269.	4.0	19
86	Wavelength Orthogonal Photodynamic Networks. <i>Chemistry - A European Journal</i> , 2022, 28, .	1.7	19
87	Absolute configuration of Tröger bases: an X-ray diffraction and circular dichroism study. <i>Tetrahedron Letters</i> , 2006, 47, 319-321.	0.7	18
88	Expanding the enantioselectivity of the gas-chromatographic chiral stationary phase Chirasil-Val-C11 by doping it with octakis(3-O-butanoyl-2,6-di-O-n-pentyl)- β -cyclodextrin. <i>Journal of Separation Science</i> , 2007, 30, 98-103.	1.3	18
89	Hydrogels with Preprogrammable Lifetime via UV-Induced Polymerization and Degradation. <i>Advanced Functional Materials</i> , 2020, 30, 1909800.	7.8	18
90	Inherently UV Photodegradable Poly(methacrylate) Gels. <i>Advanced Functional Materials</i> , 2021, 31, 2105681.	7.8	18

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91	Equilibrium droplet shapes on chemically patterned surfaces: theoretical calculation, phase-field simulation, and experiments. <i>Journal of Colloid and Interface Science</i> , 2022, 606, 1077-1086.	5.0	18
92	Temperature-dependent racemic compound-conglomerate crystallization of 2,3:6,7-dibenzobicyclo[3.3.1]nona-2,6-diene-4,8-dione. <i>Tetrahedron: Asymmetry</i> , 2003, 14, 2059-2066.	1.8	17
93	ScreenFect A: an efficient and low toxic liposome for gene delivery to mesenchymal stem cells. <i>International Journal of Pharmaceutics</i> , 2015, 488, 1-11.	2.6	17
94	Reversible Surface Wettability by Silanization. <i>Advanced Materials Interfaces</i> , 2020, 7, 1902134.	1.9	17
95	Click Chemistry Immobilized 3D-Infused Microarrays in Nanoporous Polymer Substrates. <i>Advanced Materials Interfaces</i> , 2016, 3, 1500469.	1.9	16
96	Improved Extraction Repeatability and Spectral Reproducibility for Liquid Extraction Surface Analysis-Mass Spectrometry Using Superhydrophobic-Superhydrophilic Patterning. <i>Analytical Chemistry</i> , 2018, 90, 6001-6005.	3.2	15
97	One-Pot Parallel Synthesis of Lipid Library via Thiolactone Ring Opening and Screening for Gene Delivery. <i>Bioconjugate Chemistry</i> , 2018, 29, 992-999.	1.8	14
98	Surface Functionalization and Patterning by Multifunctional Resorcinarenes. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 39268-39278.	4.0	14
99	High-Throughput Screening of Cell Transfection Enhancers Using Miniaturized Droplet Microarrays. <i>Advanced Biology</i> , 2020, 4, e1900257.	3.0	14
100	Fast Nanoliter-Scale Cell Assays Using Droplet Microarray-Mass Spectrometry Imaging. <i>Advanced Biology</i> , 2021, 5, e2000279.	1.4	14
101	Heptakis[2,3-di-O-methyl-6-O-(L-valine-tert-butylamide-N-ylcarbonylmethyl)]- β -cyclodextrin: a New Multifunctional Cyclodextrin CSA for the NMR Enantiodiscrimination of Polar and Apolar Substrates. <i>European Journal of Organic Chemistry</i> , 2007, 2007, 3219-3226.	1.2	13
102	Porous polymer coatings as substrates for the formation of high-fidelity micropatterns by quill-like pens. <i>Beilstein Journal of Nanotechnology</i> , 2013, 4, 377-384.	1.5	13
103	Solid-phase combinatorial synthesis using microarrays of microcompartments with light-induced on-chip cell screening. <i>Materials Today Bio</i> , 2019, 3, 100022.	2.6	13
104	Development of new self-assembled cationic amino liposomes for efficient gene delivery. <i>Biomaterials Science</i> , 2020, 8, 3021-3025.	2.6	13
105	CD44v6-Peptide Functionalized Nanoparticles Selectively Bind to Metastatic Cancer Cells. <i>Advanced Science</i> , 2017, 4, 1600202.	5.6	12
106	Combinatorial Synthesis of a Lipidoid Library by Thiolactone Chemistry: In Vitro Screening and In Vivo Validation for siRNA Delivery. <i>Bioconjugate Chemistry</i> , 2020, 31, 852-860.	1.8	12
107	Digital Liquid Patterning: A Versatile Method for Maskless Generation of Liquid Patterns and Gradients. <i>Advanced Materials Interfaces</i> , 2014, 1, 1300075.	1.9	11
108	Collaborative Action of Surface Chemistry and Topography in the Regulation of Mesenchymal and Epithelial Markers and the Shape of Cancer Cells. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 28554-28565.	4.0	11

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109	Inherent Photodegradability of Polymethacrylate Hydrogels: Straightforward Access to Biocompatible Soft Microstructures. <i>Advanced Functional Materials</i> , 2019, 29, 1902906.	7.8	11
110	High-Throughput Combinatorial Synthesis of Stimuli-Responsive Materials. <i>Advanced Biology</i> , 2019, 3, e1800293.	3.0	11
111	Miniaturized Drug Sensitivity and Resistance Test on Patient-Derived Cells Using Droplet-Microarray. <i>SLAS Technology</i> , 2021, 26, 274-286.	1.0	11
112	Fabrication of Quasi-2D Shape-Tailored Microparticles using Wettability Contrast-Based Platforms. <i>Advanced Materials</i> , 2021, 33, e2007695.	11.1	11
113	Inverse Vulcanization of Norbornenylsilanes: Soluble Polymers with Controllable Molecular Properties via Siloxane Bonds. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	11
114	Solid-phase racemic compound-conglomerate transformation of 2,3:6,7-dibenzobicyclo[3.3.1]nona-2,6-diene-4,8-dione. <i>Tetrahedron: Asymmetry</i> , 2004, 15, 1445-1450.	1.8	10
115	Direct three-dimensional imaging of polymer-water interfaces by nanoscale hard X-ray phase tomography. <i>Soft Matter</i> , 2014, 10, 2982-2990.	1.2	10
116	UV-Induced Disulfide Formation and Reduction for Dynamic Photopatterning. <i>Angewandte Chemie</i> , 2016, 128, 13969-13973.	1.6	10
117	Miniaturized high-throughput synthesis and screening of responsive hydrogels using nanoliter compartments. <i>Materials Today Bio</i> , 2020, 6, 100053.	2.6	10
118	Single-Tailed Lipidoids Enhance the Transfection Activity of Their Double-Tailed Counterparts. <i>ACS Combinatorial Science</i> , 2016, 18, 43-50.	3.8	9
119	Regeneration of Cyclodextrin Based Membrane by Photodynamic Disulfide Exchange - Steroid Hormone Removal from Water. <i>Advanced Materials Interfaces</i> , 2020, 7, 1902100.	1.9	9
120	Micropatterns: Emerging Applications of Superhydrophilic-Superhydrophobic Micropatterns (Adv.) <i>Tj ETQq0 0 0 rgBJ /Overlock 10 Tf 5</i>	11.1	8
121	Facile fabrication of robust superhydrophobic surfaces: comparative investigation. <i>RSC Advances</i> , 2016, 6, 98257-98266.	1.7	8
122	Cell-based high-throughput screening of cationic polymers for efficient DNA and siRNA delivery. <i>Acta Biomaterialia</i> , 2020, 115, 410-417.	4.1	8
123	High-throughput screening of multifunctional nanocoatings based on combinations of polyphenols and catecholamines. <i>Materials Today Bio</i> , 2021, 10, 100108.	2.6	8
124	Designing Inherently Photodegradable Cell-Adhesive Hydrogels for 3D Cell Culture. <i>Advanced Healthcare Materials</i> , 2021, 10, e2100632.	3.9	8
125	Solid-state ESR differentiation between racemate versus enantiomer. <i>Chirality</i> , 2006, 18, 232-238.	1.3	7
126	Nanoliter deposition on star-shaped hydrophilic-superhydrophobic patterned surfaces. <i>Soft Matter</i> , 2018, 14, 7500-7506.	1.2	7

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127	Controlling Geometry and Flow Through Bacterial Bridges on Patterned Lubricant-Infused Surfaces (pLIS). <i>Small</i> , 2020, 16, 2004575.	5.2	7
128	Droplet microarrays for cell culture: effect of surface properties and nanoliter culture volume on global transcriptomic landscape. <i>Materials Today Bio</i> , 2021, 11, 100112.	2.6	7
129	Substrate-Independent and Re-Writable Surface Patterning by Combining Polydopamine Coatings, Silanization, and Thiol-Ene Reaction. <i>Advanced Functional Materials</i> , 2021, 31, 2107716.	7.8	7
130	A new conglomerate in a series of 2,3:6,7-dibenzobicyclo[3.3.1]nonanes. <i>Mendeleev Communications</i> , 2003, 13, 106-108.	0.6	6
131	Dual stimuli-responsive polyamines derived from modified <i>N</i> -vinylpyrrolidones through CuAAC click chemistry. <i>Journal of Polymer Science Part A</i> , 2016, 54, 1098-1108.	2.5	6
132	Phospholipid arrays on porous polymer coatings generated by micro-contact spotting. <i>Beilstein Journal of Nanotechnology</i> , 2017, 8, 715-722.	1.5	6
133	Superoleophobicity: Superoleophobic Slippery Lubricant-Infused Surfaces: Combining Two Extremes in the Same Surface (<i>Adv. Mater.</i> 45/2018). <i>Advanced Materials</i> , 2018, 30, 1870338.	11.1	6
134	Inverse Vulcanization of Styrylethyltrimethoxysilane-Coated Surfaces, Particles, and Crosslinked Materials. <i>Angewandte Chemie</i> , 2020, 132, 18798-18804.	1.6	6
135	Liquid Wells as Self-Healing, Functional Analogues to Solid Vessels. <i>Advanced Materials</i> , 2021, 33, e2100117.	11.1	6
136	Miniaturized droplet microarray platform enables maintenance of human induced pluripotent stem cell pluripotency. <i>Materials Today Bio</i> , 2021, 12, 100153.	2.6	6
137	Cells-to-DNA on Chip: Phenotypic Assessment and Gene Expression Analysis from Live Cells in Nanoliter Volumes Using Droplet Microarrays. <i>Advanced Healthcare Materials</i> , 2022, 11, e2102493.	3.9	6
138	Analytical Performance Evaluation of New DESI Enhancements for Targeted Drug Quantification in Tissue Sections. <i>Pharmaceuticals</i> , 2022, 15, 694.	1.7	6
139	Sterically hindered and completely arrested nitrogen inversion in pyrazolidines. <i>Tetrahedron: Asymmetry</i> , 2007, 18, 1540-1547.	1.8	5
140	Facilitating an International Research Experience Focused on Applied Nanotechnology and Surface Chemistry for American Undergraduate Students Collaborating with Mentors at a German Educational and Research Institution. <i>Journal of Chemical Education</i> , 2019, 96, 2441-2449.	1.1	5
141	Efficient and Low Cytotoxicity Gene Carriers Based on Amine-Functionalized Polyvinylpyrrolidone. <i>Polymers</i> , 2020, 12, 2724.	2.0	5
142	Simple assessment of viability in 2D and 3D cell microarrays using single step digital imaging. <i>SLAS Technology</i> , 2022, 27, 44-53.	1.0	5
143	Combinatorial synthesis and high throughput screening of lipidoids for gene delivery. <i>Journal of Controlled Release</i> , 2015, 213, e134.	4.8	4
144	Grid Screener: A Tool for Automated High-Throughput Screening on Biochemical and Biological Analysis Platforms. <i>IEEE Access</i> , 2021, 9, 166027-166038.	2.6	4

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145	Droplet Microarray as a Powerful Platform for Seeking New Antibiotics Against Multidrug-Resistant Bacteria. <i>Advanced Biology</i> , 2022, 6, .	1.4	4
146	Ångström-sized pore crystal. <i>Mendelev Communications</i> , 2002, 12, 220-222.	0.6	3
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