

Pavel A Levkin

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

153
papers

5,074
citations

34
h-index

66
g-index

167
ext. papers

6,034
ext. citations

10.1
avg, IF

6.18
L-index

#	Paper	IF	Citations
153	Emerging applications of superhydrophilic-superhydrophobic micropatterns. <i>Advanced Materials</i> , 2013 , 25, 1234-47	24	359
152	Porous polymer coatings: a versatile approach to superhydrophobic surfaces. <i>Advanced Functional Materials</i> , 2009 , 19, 1993-1998	15.6	282
151	UV-triggered dopamine polymerization: control of polymerization, surface coating, and photopatterning. <i>Advanced Materials</i> , 2014 , 26, 8029-33	24	208
150	Slippery liquid-infused porous surfaces showing marine antibiofouling properties. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 10074-80	9.5	206
149	Superhydrophobic-superhydrophilic micropatterning: towards genome-on-a-chip cell microarrays. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 8424-7	16.4	193
148	Design and Applications of Photoresponsive Hydrogels. <i>Advanced Materials</i> , 2019 , 31, e1807333	24	187
147	A facile approach to superhydrophilic-superhydrophobic patterns in porous polymer films. <i>Advanced Materials</i> , 2011 , 23, 3030-4	24	158
146	Hydrophobic liquid-infused porous polymer surfaces for antibacterial applications. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 6704-11	9.5	150
145	Droplet-Array (DA) Sandwich Chip: A Versatile Platform for High-Throughput Cell Screening Based on Superhydrophobic-Superhydrophilic Micropatterning. <i>Advanced Materials</i> , 2015 , 27, 5217-22	24	141
144	DropletMicroarray: facile formation of arrays of microdroplets and hydrogel micropads for cell screening applications. <i>Lab on A Chip</i> , 2012 , 12, 5218-24	7.2	133
143	Droplet Microarrays: From Surface Patterning to High-Throughput Applications. <i>Advanced Materials</i> , 2018 , 30, e1706111	24	108
142	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	4.6	104
141	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	4.5	96
140	Slippery Lubricant-Infused Surfaces: Properties and Emerging Applications. <i>Advanced Functional Materials</i> , 2019 , 29, 1802317	15.6	91
139	Micropatterned superhydrophobic structures for the simultaneous culture of multiple cell types and the study of cell-cell communication. <i>Biomaterials</i> , 2013 , 34, 1757-63	15.6	86
138	Single-Step Fabrication of High-Density Microdroplet Arrays of Low-Surface-Tension Liquids. <i>Advanced Materials</i> , 2016 , 28, 3202-8	24	81
137	UV-Triggered Polymerization, Deposition, and Patterning of Plant Phenolic Compounds. <i>Advanced Functional Materials</i> , 2017 , 27, 1700127	15.6	78

136	Superhydrophobic and Slippery Lubricant-Infused Flexible Transparent Nanocellulose Films by Photoinduced Thiol-Ene Functionalization. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 34115-34122	9.5	78
135	Reactive superhydrophobic surface and its photoinduced disulfide-ene and thiol-ene (bio)functionalization. <i>Nano Letters</i> , 2015 , 15, 675-81	11.5	73
134	Printable superhydrophilic-superhydrophobic micropatterns based on supported lipid layers. <i>Langmuir</i> , 2012 , 28, 8286-91	4	72
133	Superoleophobic Slippery Lubricant-Infused Surfaces: Combining Two Extremes in the Same Surface. <i>Advanced Materials</i> , 2018 , 30, e1803890	24	71
132	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, 2520-8	7.8	65
131	Boronate-dextran: an acid-responsive biodegradable polymer for drug delivery. <i>Biomaterials</i> , 2013 , 34, 8504-10	15.6	63
130	Fabrication of Hydrogel Particles of Defined Shapes Using Superhydrophobic-Hydrophilic Micropatterns. <i>Advanced Materials</i> , 2016 , 28, 7613-9	24	63
129	Droplet-microarray on superhydrophobic-superhydrophilic patterns for high-throughput live cell screenings. <i>RSC Advances</i> , 2016 , 6, 38263-38276	3.7	62
128	Hierarchical Micro-Nano Surface Topography Promotes Long-Term Maintenance of Undifferentiated Mouse Embryonic Stem Cells. <i>Nano Letters</i> , 2015 , 15, 7146-54	11.5	51
127	Reversible and Rewritable Surface Functionalization and Patterning via Photodynamic Disulfide Exchange. <i>Advanced Materials</i> , 2015 , 27, 4997-5001	24	51
126	UV-Induced Tetrazole-Thiol Reaction for Polymer Conjugation and Surface Functionalization. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 8732-5	16.4	51
125	A biomimetic lipid library for gene delivery through thiol-yne click chemistry. <i>Biomaterials</i> , 2012 , 33, 8160-66	10.56	48
124	Micropatterning hydrophobic liquid on a porous polymer surface for long-term selective cell-repellency. <i>Advanced Healthcare Materials</i> , 2013 , 2, 1425-9	10.1	47
123	Combinatorial Approach to Nanoarchitectonics for Nonviral Delivery of Nucleic Acids. <i>Advanced Materials</i> , 2016 , 28, 1159-75	24	44
122	Patterned superhydrophobic surfaces to process and characterize biomaterials and 3D cell culture. <i>Materials Horizons</i> , 2018 , 5, 379-393	14.4	37
121	Patterned SLIPS for the Formation of Arrays of Biofilm Microclusters with Defined Geometries. <i>Advanced Healthcare Materials</i> , 2017 , 6, 1601082	10.1	37
120	Visible light initiated polymerization of styrenic monolithic stationary phases using 470 nm light emitting diode arrays. <i>Journal of Separation Science</i> , 2010 , 33, 61-6	3.4	37
119	Bio-inspired strategy for controlled dopamine polymerization in basic solutions. <i>Polymer Chemistry</i> , 2017 , 8, 2145-2151	4.9	34

118	Combining the enantioselectivities of L-valine diamide and permethylated beta-cyclodextrin in one gas chromatographic chiral stationary phase. <i>Analytical Chemistry</i> , 2006 , 78, 5143-8	7.8	34
117	Marrying chemistry with biology by combining on-chip solution-based combinatorial synthesis and cellular screening. <i>Nature Communications</i> , 2019 , 10, 2879	17.4	33
116	Apparent and true enantioselectivity of single- and binary-selector chiral stationary phases in gas chromatography. <i>Journal of Chromatography A</i> , 2008 , 1184, 309-22	4.5	33
115	High-Density Droplet Microarray of Individually Addressable Electrochemical Cells. <i>Analytical Chemistry</i> , 2017 , 89, 5832-5839	7.8	32
114	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, 270-8	4.5	31
113	Origami magnetic cellulose: controlled magnetic fraction and patterning of flexible bacterial cellulose. <i>Journal of Materials Chemistry C</i> , 2014 , 2, 6312-6318	7.1	29
112	UV-Triggered Polydopamine Secondary Modification: Fast Deposition and Removal of Metal Nanoparticles. <i>Advanced Functional Materials</i> , 2019 , 29, 1901875	15.6	28
111	Facile One Step Formation and Screening of Tumor Spheroids Using Droplet-Microarray Platform. <i>Small</i> , 2019 , 15, e1901299	11	28
110	Droplet Sorting and Manipulation on Patterned Two-Phase Slippery Lubricant-Infused Surface. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 16130-16138	9.5	28
109	Superhydrophilic-Superhydrophobic Patterned Surfaces as High-Density Cell Microarrays: Optimization of Reverse Transfection. <i>Advanced Healthcare Materials</i> , 2016 , 5, 2646-2654	10.1	28
108	UV-Induced Disulfide Formation and Reduction for Dynamic Photopatterning. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 13765-13769	16.4	28
107	Freestanding MOF Microsheets with Defined Size and Geometry Using Superhydrophobic/Superhydrophilic Arrays. <i>Advanced Materials Interfaces</i> , 2016 , 3, 1500392	4.6	27
106	3D printing of inherently nanoporous polymers via polymerization-induced phase separation. <i>Nature Communications</i> , 2021 , 12, 247	17.4	27
105	Temperature-induced inversion of the elution order of enantiomers in gas chromatography: N-ethoxycarbonyl propylamides and N-trifluoroacetyl ethyl esters of alpha-amino acids on Chirasil-Val-C11 and Chirasil-Dex stationary phases. <i>Analytical Chemistry</i> , 2007 , 79, 4401-9	7.8	25
104	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	13	24
103	Droplet Microarray Based on Superhydrophobic-Superhydrophilic Patterns for Single Cell Analysis. <i>Microarrays (Basel, Switzerland)</i> , 2016 , 5,		24
102	3D Two-Photon Microprinting of Nanoporous Architectures. <i>Advanced Materials</i> , 2020 , 32, e2002044	24	23
101	Free-standing three-dimensional hollow bacterial cellulose structures with controlled geometry via patterned superhydrophobic-hydrophilic surfaces. <i>Soft Matter</i> , 2018 , 14, 3955-3962	3.6	23

100	Direct UV-induced functionalization of surface hydroxy groups by thiol-ol chemistry. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 3835-9	16.4	23
99	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	2.1	23
98	Fish-Microarray: A Miniaturized Platform for Single-Embryo High-Throughput Screenings. <i>Advanced Functional Materials</i> , 2018 , 28, 1703486	15.6	23
97	Reparable Superhydrophobic Surface with Hidden Reactivity, Its Photofunctionalization and Photopatterning. <i>Advanced Functional Materials</i> , 2018 , 28, 1803765	15.6	22
96	Facile and multiple replication of superhydrophilic-superhydrophobic patterns using adhesive tape. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 8053-7	9.5	22
95	Combinatorial synthesis and high-throughput screening of alkyl amines for nonviral gene delivery. <i>Bioconjugate Chemistry</i> , 2013 , 24, 1543-51	6.3	22
94	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	10.1	21
93	Surface functionalization of conjugated microporous polymer thin films and nanomembranes using orthogonal chemistries. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 6815-6818	13	21
92	Evaluation of the Droplet-Microarray Platform for High-Throughput Screening of Suspension Cells. <i>SLAS Technology</i> , 2017 , 22, 163-175	3	21
91	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, 2954-62	4.5	21
90	Strong detrimental effect of a minute enantiomeric impurity of a chiral selector on the enantioselectivity factor. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 7742-4	16.4	21
89	A combined high-throughput and high-content platform for unified on-chip synthesis, characterization and biological screening. <i>Nature Communications</i> , 2020 , 11, 5391	17.4	21
88	Biofilm Bridges Forming Structural Networks on Patterned Lubricant-Infused Surfaces. <i>Advanced Science</i> , 2019 , 6, 1900519	13.6	20
87	Homo- and Heterochirality in Crystals. <i>Topics in Stereochemistry</i> , 2006 , 81-134		20
86	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	5.5	20
85	Bioinspired Strategy for Controlled Polymerization and Photopatterning of Plant Polyphenols. <i>Chemistry of Materials</i> , 2018 , 30, 1937-1946	9.6	18
84	Formation of Liquid-Liquid Micropatterns through Guided Liquid Displacement on Liquid-Infused Surfaces. <i>Advanced Materials Interfaces</i> , 2018 , 5, 1800852	4.6	18
83	Bacterial Cellulose Promotes Long-Term Stemness of mESC. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 16260-16269	9.5	17

82	Formation of a polymer surface with a gradient of pore size using a microfluidic chip. <i>Langmuir</i> , 2013 , 29, 3797-804	4	17
81	Absolute configuration of Tröger bases: an X-ray diffraction and circular dichroism study. <i>Tetrahedron Letters</i> , 2006 , 47, 319-321	2	16
80	Miniaturized platform for high-throughput screening of stem cells. <i>Current Opinion in Biotechnology</i> , 2017 , 46, 141-149	11.4	15
79	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	6.5	15
78	Droplet microarray: miniaturized platform for rapid formation and high-throughput screening of embryoid bodies. <i>Lab on A Chip</i> , 2018 , 18, 2257-2269	7.2	15
77	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)-gamma-cyclodextrin. <i>Journal of Separation Science</i> , 2007 , 30, 98-103	3.4	15
76	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		14
75	Click-Chemistry Immobilized 3D-Infused Microarrays in Nanoporous Polymer Substrates. <i>Advanced Materials Interfaces</i> , 2016 , 3, 1500469	4.6	14
74	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	5.4	13
73	Inverse Vulcanization of Styrylethyltrimethoxysilane-Coated Surfaces, Particles, and Crosslinked Materials. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 18639-18645	16.4	12
72	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	7.8	12
71	Heptakis[2,3-di-O-methyl-6-O-(L-valine-tert-butylamide-N-ethylcarboxylmethyl)]-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	3.2	12
70	Assembly of Multi-Spheroid Cellular Architectures by Programmable Droplet Merging. <i>Advanced Materials</i> , 2021 , 33, e2006434	24	12
69	3D Printing of Superhydrophobic Objects with Bulk Nanostructure. <i>Advanced Materials</i> , 2021 , 33, e2106068	24	12
68	CD44v6-Peptide Functionalized Nanoparticles Selectively Bind to Metastatic Cancer Cells. <i>Advanced Science</i> , 2017 , 4, 1600202	13.6	11
67	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	4.9	11
66	Development of new self-assembled cationic amino liposomes for efficient gene delivery. <i>Biomaterials Science</i> , 2020 , 8, 3021-3025	7.4	11
65	Porous polymer coatings as substrates for the formation of high-fidelity micropatterns by quill-like pens. <i>Beilstein Journal of Nanotechnology</i> , 2013 , 4, 377-84	3	11

64	Superhydrophob-superhydrophile Mikrostrukturen: Auf dem Weg zum Ein-Genom-Zellmikroarray. <i>Angewandte Chemie</i> , 2011 , 123, 8575-8578	3.6	11
63	Nanomolar Synthesis in Droplet Microarrays with UV-Triggered On-Chip Cell Screening. <i>Small</i> , 2020 , 16, e1905971	11	10
62	One-Pot Parallel Synthesis of Lipid Library via Thiolactone Ring Opening and Screening for Gene Delivery. <i>Bioconjugate Chemistry</i> , 2018 , 29, 992-999	6.3	10
61	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		10
60	Covalent cucurbit[7]uril-dye conjugates for sensing in aqueous saline media and biofluids. <i>Chemical Science</i> , 2020 , 11, 11142-11153	9.4	10
59	Droplet-Microarray: Miniaturized Platform for High-Throughput Screening of Antimicrobial Compounds. <i>Advanced Biology</i> , 2020 , 4, e2000073	3.5	9
58	UV-Induced Disulfide Formation and Reduction for Dynamic Photopatterning. <i>Angewandte Chemie</i> , 2016 , 128, 13969-13973	3.6	9
57	Surface Functionalization and Patterning by Multifunctional Resorcinarenes. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 39268-39278	9.5	9
56	Solid-phase combinatorial synthesis using microarrays of microcompartments with light-induced on-chip cell screening. <i>Materials Today Bio</i> , 2019 , 3, 100022	9.9	8
55	Direct three-dimensional imaging of polymer-water interfaces by nanoscale hard X-ray phase tomography. <i>Soft Matter</i> , 2014 , 10, 2982-90	3.6	8
54	Digital Liquid Patterning: A Versatile Method for Maskless Generation of Liquid Patterns and Gradients. <i>Advanced Materials Interfaces</i> , 2014 , 1, 1300075	4.6	8
53	Micropatterns: Emerging Applications of Superhydrophilic-Superhydrophobic Micropatterns (Adv. Mater. 9/2013). <i>Advanced Materials</i> , 2013 , 25, 1368-1368	24	8
52	UV-Induced Tetrazole-Thiol Reaction for Polymer Conjugation and Surface Functionalization. <i>Angewandte Chemie</i> , 2015 , 127, 8856-8859	3.6	8
51	Hydrogels with Preprogrammable Lifetime via UV-Induced Polymerization and Degradation. <i>Advanced Functional Materials</i> , 2020 , 30, 1909800	15.6	8
50	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	9.5	8
49	High-Throughput Combinatorial Synthesis of Stimuli-Responsive Materials. <i>Advanced Biology</i> , 2019 , 3, e1800293	3.5	8
48	Reversible Surface Wettability by Silanization. <i>Advanced Materials Interfaces</i> , 2020 , 7, 1902134	4.6	7
47	Combinatorial Synthesis of a Lipidoid Library by Thiolactone Chemistry: Screening and Validation for siRNA Delivery. <i>Bioconjugate Chemistry</i> , 2020 , 31, 852-860	6.3	7

46	Single-Tailed Lipidoids Enhance the Transfection Activity of Their Double-Tailed Counterparts. <i>ACS Combinatorial Science</i> , 2016 , 18, 43-50	3.9	7
45	Tough, Transparent, 3D printable and Self-healing Polyethylene Glycol-Gel (PEGgel). <i>Advanced Materials</i> , 2021 , e2107791	24	7
44	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	9.5	7
43	Facile fabrication of robust superhydrophobic surfaces: comparative investigation. <i>RSC Advances</i> , 2016 , 6, 98257-98266	3.7	7
42	Inherent Photodegradability of Polymethacrylate Hydrogels: Straightforward Access to Biocompatible Soft Microstructures. <i>Advanced Functional Materials</i> , 2019 , 29, 1902906	15.6	6
41	High-Throughput Screening of Cell Transfection Enhancers Using Miniaturized Droplet Microarrays. <i>Advanced Biology</i> , 2020 , 4, e1900257	3.5	6
40	Solid-state ESR differentiation between racemate versus enantiomer. <i>Chirality</i> , 2006 , 18, 232-8	2.1	6
39	Phospholipid arrays on porous polymer coatings generated by micro-contact spotting. <i>Beilstein Journal of Nanotechnology</i> , 2017 , 8, 715-722	3	5
38	Sterically hindered and completely arrested nitrogen inversion in pyrazolidines. <i>Tetrahedron: Asymmetry</i> , 2007 , 18, 1540-1547		5
37	A new conglomerate in a series of 2,3:6,7-dibenzobicyclo[3.3.1]nonanes. <i>Mendeleev Communications</i> , 2003 , 13, 106-108	1.9	5
36	Cell-based high-throughput screening of cationic polymers for efficient DNA and siRNA delivery. <i>Acta Biomaterialia</i> , 2020 , 115, 410-417	10.8	5
35	Facile Approach to Conductive Polymer Microelectrodes for Flexible Electronics. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 21661-21668	9.5	5
34	Dual stimuli-responsive polyamines derived from modified N-vinylpyrrolidones through CuAAC click chemistry. <i>Journal of Polymer Science Part A</i> , 2016 , 54, 1098-1108	2.5	5
33	Fast Nanoliter-Scale Cell Assays Using Droplet Microarray-Mass Spectrometry Imaging. <i>Advanced Biology</i> , 2021 , 5, e2000279		5
32	Fabrication of Quasi-2D Shape-Tailored Microparticles using Wettability Contrast-Based Platforms. <i>Advanced Materials</i> , 2021 , 33, e2007695	24	5
31	Superoleophobicity: Superoleophobic Slippery Lubricant-Infused Surfaces: Combining Two Extremes in the Same Surface (Adv. Mater. 45/2018). <i>Advanced Materials</i> , 2018 , 30, 1870338	24	5
30	Nanoliter deposition on star-shaped hydrophilic-superhydrophobic patterned surfaces. <i>Soft Matter</i> , 2018 , 14, 7500-7506	3.6	4
29	Direkte UV-induzierte Funktionalisierung oberflächengebundener Hydroxygruppen mithilfe von Thiol-Alkohol-Chemie. <i>Angewandte Chemie</i> , 2014 , 126, 3914-3918	3.6	4

28	Combinatorial synthesis and high throughput screening of lipidoids for gene delivery. <i>Journal of Controlled Release</i> , 2015 , 213, e134	11.7	4
27	Controlling Geometry and Flow Through Bacterial Bridges on Patterned Lubricant-Infused Surfaces (pLIS). <i>Small</i> , 2020 , 16, e2004575	11	4
26	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	9.9	4
25	Miniaturized Drug Sensitivity and Resistance Test on Patient-Derived Cells Using Droplet-Microarray. <i>SLAS Technology</i> , 2021 , 26, 274-286	3	4
24	Miniaturized high-throughput synthesis and screening of responsive hydrogels using nanoliter compartments. <i>Materials Today Bio</i> , 2020 , 6, 100053	9.9	3
23	Ångström-sized pore crystal. <i>Mendeleev Communications</i> , 2002 , 12, 220-222	1.9	3
22	Efficient and Low Cytotoxicity Gene Carriers Based on Amine-Functionalized Polyvinylpyrrolidone. <i>Polymers</i> , 2020 , 12,	4.5	3
21	High-throughput screening of multifunctional nanocoatings based on combinations of polyphenols and catecholamines. <i>Materials Today Bio</i> , 2021 , 10, 100108	9.9	3
20	Inherently UV Photodegradable Poly(methacrylate) Gels. <i>Advanced Functional Materials</i> , 2105681	15.6	3
19	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	2.4	2
18	Regeneration of Cyclodextrin Based Membrane by Photodynamic Disulfide Exchange Steroid Hormone Removal from Water. <i>Advanced Materials Interfaces</i> , 2020 , 7, 1902100	4.6	2
17	Inverse Vulcanization of Styrylethyltrimethoxysilane-Coated Surfaces, Particles, and Crosslinked Materials. <i>Angewandte Chemie</i> , 2020 , 132, 18798-18804	3.6	2
16	Designing Inherently Photodegradable Cell-Adhesive Hydrogels for 3D Cell Culture. <i>Advanced Healthcare Materials</i> , 2021 , 10, e2100632	10.1	2
15	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	9.3	2
14	"Cells-to-cDNA on Chip": Phenotypic assessment and gene expression analysis from live cells in nanoliter volumes using droplet microarrays.. <i>Advanced Healthcare Materials</i> , 2022 , e2102493	10.1	2
13	Thin Silica-Based Microsheets with Controlled Geometry. <i>European Journal of Inorganic Chemistry</i> , 2020 , 2020, 1574-1578	2.3	1
12	3D Cell Culture: Fabrication of Hydrogel Particles of Defined Shapes Using Superhydrophobic-Hydrophilic Micropatterns (Adv. Mater. 35/2016). <i>Advanced Materials</i> , 2016 , 28, 7552-7552	24.5	1
11	Miniaturized droplet microarray platform enables maintenance of human induced pluripotent stem cell pluripotency. <i>Materials Today Bio</i> , 2021 , 12, 100153	9.9	1

10	Substrate-Independent and Re-Writable Surface Patterning by Combining Polydopamine Coatings, Silanization, and Thiol-Ene Reaction. <i>Advanced Functional Materials</i> , 2021, 13, 2107716	15.6	1
9	Analytical Performance Evaluation of New DESI Enhancements for Targeted Drug Quantification in Tissue Sections. <i>Pharmaceuticals</i> , 2022, 15, 694	5.2	1
8	Grid Screener: A Tool for Automated High-Throughput Screening on Biochemical and Biological Analysis Platforms. <i>IEEE Access</i> , 2021, 9, 166027-166038	3.5	0
7	One-Step Biosynthesis of Soft Magnetic Bacterial Cellulose Spheres with Localized Nanoparticle Functionalization. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 55569-55576	9.5	0
6	Liquid Wells as Self-Healing, Functional Analogues to Solid Vessels. <i>Advanced Materials</i> , 2021, 33, e2100117	11.7	0
5	Cell Microarrays: Superhydrophilic/Superhydrophobic Patterned Surfaces as High-Density Cell Microarrays: Optimization of Reverse Transfection (Adv. Healthcare Mater. 20/2016). <i>Advanced Healthcare Materials</i> , 2016, 5, 2570-2570	10.1	
4	Polydopamine: UV-Triggered Polydopamine Secondary Modification: Fast Deposition and Removal of Metal Nanoparticles (Adv. Funct. Mater. 34/2019). <i>Advanced Functional Materials</i> , 2019, 29, 1970233	15.6	
3	Microfluidic Chip for Generating Gradient Polymer Films for Biological Applications. <i>Procedia Engineering</i> , 2012, 47, 458-461		
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