

# George M Whitesides

## List of Publications by Citations

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415  
papers

104,216  
citations

129  
h-index

321  
g-index

431  
ext. papers

113,939  
ext. citations

11.2  
avg, IF

8.62  
L-index

#	Paper	IF	Citations
415	Self-assembled monolayers of thiolates on metals as a form of nanotechnology. <i>Chemical Reviews</i> , <b>2005</b> , 105, 1103-69	68.1	6730
414	The origins and the future of microfluidics. <i>Nature</i> , <b>2006</b> , 442, 368-73	50.4	6335
413	Self-assembly at all scales. <i>Science</i> , <b>2002</b> , 295, 2418-21	33.3	5583
412	Rapid Prototyping of Microfluidic Systems in Poly(dimethylsiloxane). <i>Analytical Chemistry</i> , <b>1998</b> , 70, 4974-84	4.84	4213
411	SOFT LITHOGRAPHY. <i>Annual Review of Materials Research</i> , <b>1998</b> , 28, 153-184		3912
410	Soft Lithography. <i>Angewandte Chemie - International Edition</i> , <b>1998</b> , 37, 550-575	16.4	3737
409	Polyvalent Interactions in Biological Systems: Implications for Design and Use of Multivalent Ligands and Inhibitors. <i>Angewandte Chemie - International Edition</i> , <b>1998</b> , 37, 2754-2794	16.4	3250
408	Fabrication of microfluidic systems in poly(dimethylsiloxane). <i>Electrophoresis</i> , <b>2000</b> , 21, 27-40	3.6	2618
407	Chaotic mixer for microchannels. <i>Science</i> , <b>2002</b> , 295, 647-51	33.3	2471
406	Soft lithography in biology and biochemistry. <i>Annual Review of Biomedical Engineering</i> , <b>2001</b> , 3, 335-73	12	2115
405	Patterned paper as a platform for inexpensive, low-volume, portable bioassays. <i>Angewandte Chemie - International Edition</i> , <b>2007</b> , 46, 1318-20	16.4	2111
404	Diagnostics for the developing world: microfluidic paper-based analytical devices. <i>Analytical Chemistry</i> , <b>2010</b> , 82, 3-10	7.8	1986
403	Solvent compatibility of poly(dimethylsiloxane)-based microfluidic devices. <i>Analytical Chemistry</i> , <b>2003</b> , 75, 6544-54	7.8	1901
402	Spontaneous formation of ordered structures in thin films of metals supported on an elastomeric polymer. <i>Nature</i> , <b>1998</b> , 393, 146-149	50.4	1870
401	Formation of droplets and bubbles in a microfluidic T-junction-scaling and mechanism of break-up. <i>Lab on A Chip</i> , <b>2006</b> , 6, 437-46	7.2	1550
400	Features of gold having micrometer to centimeter dimensions can be formed through a combination of stamping with an elastomeric stamp and an alkanethiol ink followed by chemical etching. <i>Applied Physics Letters</i> , <b>1993</b> , 63, 2002-2004	3.4	1339
399	Multigait soft robot. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2011</b> , 108, 20400-3	11.5	1309

398	Beyond molecules: self-assembly of mesoscopic and macroscopic components. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2002</b> , 99, 4769-74	11.5	1217
397	Understanding wax printing: a simple micropatterning process for paper-based microfluidics. <i>Analytical Chemistry</i> , <b>2009</b> , 81, 7091-5	7.8	1170
396	An integrated design and fabrication strategy for entirely soft, autonomous robots. <i>Nature</i> , <b>2016</b> , 536, 451-5	50.4	1073
395	Eutectic Gallium-Indium (EGaIn): A Liquid Metal Alloy for the Formation of Stable Structures in Microchannels at Room Temperature. <i>Advanced Functional Materials</i> , <b>2008</b> , 18, 1097-1104	15.6	927
394	Generation of Solution and Surface Gradients Using Microfluidic Systems. <i>Langmuir</i> , <b>2000</b> , 16, 8311-8316	7.2	776
393	Polymer microstructures formed by moulding in capillaries. <i>Nature</i> , <b>1995</b> , 376, 581-584	50.4	766
392	Pneumatic Networks for Soft Robotics that Actuate Rapidly. <i>Advanced Functional Materials</i> , <b>2014</b> , 24, 2163-2170	15.6	763
391	Ionic skin. <i>Advanced Materials</i> , <b>2014</b> , 26, 7608-14	24	760
390	Electrochemical sensing in paper-based microfluidic devices. <i>Lab on A Chip</i> , <b>2010</b> , 10, 477-83	7.2	752
389	Control of crystal nucleation by patterned self-assembled monolayers. <i>Nature</i> , <b>1999</b> , 398, 495-498	50.4	741
388	Effect of Surface Wettability on the Adsorption of Proteins and Detergents. <i>Journal of the American Chemical Society</i> , <b>1998</b> , 120, 3464-3473	16.4	712
387	Soft robotics for chemists. <i>Angewandte Chemie - International Edition</i> , <b>2011</b> , 50, 1890-5	16.4	691
386	Generation of Gradients Having Complex Shapes Using Microfluidic Networks. <i>Analytical Chemistry</i> , <b>2001</b> , 73, 1240-1246	7.8	669
385	The 'right' size in nanobiotechnology. <i>Nature Biotechnology</i> , <b>2003</b> , 21, 1161-5	44.5	667
384	Generation of monodisperse particles by using microfluidics: control over size, shape, and composition. <i>Angewandte Chemie - International Edition</i> , <b>2005</b> , 44, 724-8	16.4	642
383	Zwitterionic SAMs that Resist Nonspecific Adsorption of Protein from Aqueous Buffer. <i>Langmuir</i> , <b>2001</b> , 17, 2841-2850	4	640
382	A Resilient, Untethered Soft Robot. <i>Soft Robotics</i> , <b>2014</b> , 1, 213-223	9.2	612
381	SOFT ROBOTICS. A 3D-printed, functionally graded soft robot powered by combustion. <i>Science</i> , <b>2015</b> , 349, 161-5	33.3	608

380	Micropatterned surfaces for control of cell shape, position, and function. <i>Biotechnology Progress</i> , <b>1998</b> , 14, 356-63	2.8	579
379	Electron transport through thin organic films in metal-insulator-metal junctions based on self-assembled monolayers. <i>Journal of the American Chemical Society</i> , <b>2001</b> , 123, 5075-85	16.4	560
378	The controlled formation of ordered, sinusoidal structures by plasma oxidation of an elastomeric polymer. <i>Applied Physics Letters</i> , <b>1999</b> , 75, 2557-2559	3.4	557
377	Self-Assembly of Mesoscale Objects into Ordered Two-Dimensional Arrays. <i>Science</i> , <b>1997</b> , 276, 233-5	33.3	555
376	Monolayer films prepared by the spontaneous self-assembly of symmetrical and unsymmetrical dialkyl sulfides from solution onto gold substrates: structure, properties, and reactivity of constituent functional groups. <i>Langmuir</i> , <b>1988</b> , 4, 365-385	4	532
375	Nanoscience, nanotechnology, and chemistry. <i>Small</i> , <b>2005</b> , 1, 172-9	11	515
374	Polyvalente Wechselwirkungen in biologischen Systemen: Auswirkungen auf das Design und die Verwendung multivalenter Liganden und Inhibitoren. <i>Angewandte Chemie</i> , <b>1998</b> , 110, 2908-2953	3.6	505
373	Formation of monodisperse bubbles in a microfluidic flow-focusing device. <i>Applied Physics Letters</i> , <b>2004</b> , 85, 2649-2651	3.4	501
372	Molecular Self-Assembly of Aliphatic Thiols on Gold Colloids. <i>Langmuir</i> , <b>1996</b> , 12, 3763-3772	4	469
371	Mirrorless lasing from mesostructured waveguides patterned by soft lithography. <i>Science</i> , <b>2000</b> , 287, 465-8	33.3	449
370	Experimental and theoretical scaling laws for transverse diffusive broadening in two-phase laminar flows in microchannels. <i>Applied Physics Letters</i> , <b>2000</b> , 76, 2376-2378	3.4	436
369	Eutectic gallium-indium (EGaIn): a moldable liquid metal for electrical characterization of self-assembled monolayers. <i>Angewandte Chemie - International Edition</i> , <b>2008</b> , 47, 142-4	16.4	427
368	Dynamic self-assembly of magnetized, millimetre-sized objects rotating at a liquid-air interface. <i>Nature</i> , <b>2000</b> , 405, 1033-6	50.4	427
367	Mechanism for flow-rate controlled breakup in confined geometries: a route to monodisperse emulsions. <i>Physical Review Letters</i> , <b>2005</b> , 94, 164501	7.4	426
366	Soft Robotics for Chemists. <i>Angewandte Chemie</i> , <b>2011</b> , 123, 1930-1935	3.6	421
365	Subcellular positioning of small molecules. <i>Nature</i> , <b>2001</b> , 411, 1016	50.4	419
364	Forming electrical networks in three dimensions by self-assembly. <i>Science</i> , <b>2000</b> , 289, 1170-2	33.3	413
363	Integration of paper-based microfluidic devices with commercial electrochemical readers. <i>Lab on a Chip</i> , <b>2010</b> , 10, 3163-9	7.2	406

362	Micromolding in Capillaries: Applications in Materials Science. <i>Journal of the American Chemical Society</i> , <b>1996</b> , 118, 5722-5731	16.4	388
361	Elastomeric Origami: Programmable Paper-Elastomer Composites as Pneumatic Actuators. <i>Advanced Functional Materials</i> , <b>2012</b> , 22, 1376-1384	15.6	384
360	Enzymes as Catalysts in Synthetic Organic Chemistry [New Synthetic Methods (53)]. <i>Angewandte Chemie International Edition in English</i> , <b>1985</b> , 24, 617-638		371
359	Ordering of Spontaneously Formed Buckles on Planar Surfaces. <i>Langmuir</i> , <b>2000</b> , 16, 3497-3501	4	367
358	Geometric control of switching between growth, apoptosis, and differentiation during angiogenesis using micropatterned substrates. <i>In Vitro Cellular and Developmental Biology - Animal</i> , <b>1999</b> , 35, 441-8	2.6	350
357	Submicrometer patterning of charge in thin-film electrets. <i>Science</i> , <b>2001</b> , 291, 1763-6	33.3	342
356	Fabrication and Wetting Properties of Metallic Half-Shells with Submicron Diameters. <i>Nano Letters</i> , <b>2002</b> , 2, 891-894	11.5	319
355	Modeling Organic Surfaces with Self-Assembled Monolayers. <i>Angewandte Chemie International Edition in English</i> , <b>1989</b> , 28, 506-512		317
354	Surface Plasmon Resonance Permits in Situ Measurement of Protein Adsorption on Self-Assembled Monolayers of Alkanethiolates on Gold. <i>Langmuir</i> , <b>1995</b> , 11, 4383-4385	4	316
353	UNCONVENTIONAL NANOFABRICATION. <i>Annual Review of Materials Research</i> , <b>2004</b> , 34, 339-372	12.8	310
352	Soft Robotics. <i>Angewandte Chemie - International Edition</i> , <b>2018</b> , 57, 4258-4273	16.4	307
351	Combined microfluidic-micromagnetic separation of living cells in continuous flow. <i>Biomedical Microdevices</i> , <b>2006</b> , 8, 299-308	3.7	307
350	Comparison of Organic Monolayers on Polycrystalline Gold Spontaneously Assembled from Solutions Containing Dialkyl Disulfides or Alkanethiols. <i>Langmuir</i> , <b>1994</b> , 10, 1825-1831	4	305
349	Using Mixed Self-Assembled Monolayers Presenting RGD and (EG)3OH Groups To Characterize Long-Term Attachment of Bovine Capillary Endothelial Cells to Surfaces. <i>Journal of the American Chemical Society</i> , <b>1998</b> , 120, 6548-6555	16.4	300
348	The pressure drop along rectangular microchannels containing bubbles. <i>Lab on A Chip</i> , <b>2007</b> , 7, 1479-89	7.2	290
347	Microfabrication through Electrostatic Self-Assembly. <i>Langmuir</i> , <b>1997</b> , 13, 5349-5355	4	274
346	Soft Lithography <b>1998</b> , 37, 550		272
345	Emulsification in a microfluidic flow-focusing device: effect of the viscosities of the liquids. <i>Microfluidics and Nanofluidics</i> , <b>2008</b> , 5, 585-594	2.8	264

344	Fabricating large arrays of microwells with arbitrary dimensions and filling them using discontinuous dewetting. <i>Analytical Chemistry</i> , <b>1998</b> , 70, 2280-7	7.8	254
343	Using an elastomeric phase mask for sub-100 nm photolithography in the optical near field. <i>Applied Physics Letters</i> , <b>1997</b> , 70, 2658-2660	3.4	253
342	Alkanethiol self-assembled monolayers as the dielectric of capacitors with nanoscale thickness. <i>Applied Physics Letters</i> , <b>1998</b> , 72, 1781-1783	3.4	252
341	Design and self-assembly of open, regular, 3D mesostructures. <i>Science</i> , <b>1999</b> , 284, 948-51	33.3	250
340	Paper-Based Electrical Respiration Sensor. <i>Angewandte Chemie - International Edition</i> , <b>2016</b> , 55, 5727-32	16.4	250
339	Designing a polyvalent inhibitor of anthrax toxin. <i>Nature Biotechnology</i> , <b>2001</b> , 19, 958-61	44.5	246
338	Microcontact Printing of Palladium Colloids: Micron-Scale Patterning by Electroless Deposition of Copper. <i>Langmuir</i> , <b>1996</b> , 12, 1375-1380	4	239
337	Three-dimensional self-assembly of millimetre-scale components. <i>Nature</i> , <b>1997</b> , 386, 162-164	50.4	229
336	Molecular rectification in metal-SAM-metal oxide-metal junctions. <i>Journal of the American Chemical Society</i> , <b>2009</b> , 131, 17814-27	16.4	227
335	"Paper Machine" for Molecular Diagnostics. <i>Analytical Chemistry</i> , <b>2015</b> , 87, 7595-601	7.8	223
334	Contact Angles for Liquid Drops at a Model Heterogeneous Surface Consisting of Alternating and Parallel Hydrophobic/Hydrophilic Strips. <i>Langmuir</i> , <b>1996</b> , 12, 1913-1922	4	221
333	A three-dimensional actuated origami-inspired transformable metamaterial with multiple degrees of freedom. <i>Nature Communications</i> , <b>2016</b> , 7, 10929	17.4	219
332	Molecular rectification in a metal-insulator-metal junction based on self-assembled monolayers. <i>Journal of the American Chemical Society</i> , <b>2002</b> , 124, 11730-6	16.4	219
331	Universal mobile electrochemical detector designed for use in resource-limited applications. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2014</b> , 111, 11984-9	11.5	212
330	Towards a soft pneumatic glove for hand rehabilitation <b>2013</b> ,		210
329	Patterning Ligands on Reactive SAMs by Microcontact Printing. <i>Langmuir</i> , <b>1999</b> , 15, 2055-2060	4	210
328	Thread as a matrix for biomedical assays. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2010</b> , 2, 1722-8	9.5	200
327	Coding/decoding and reversibility of droplet trains in microfluidic networks. <i>Science</i> , <b>2007</b> , 315, 828-32	33.3	192

326	Influence of defects on the electrical characteristics of mercury-drop junctions: self-assembled monolayers of n-alkanethiolates on rough and smooth silver. <i>Journal of the American Chemical Society</i> , <b>2007</b> , 129, 4336-49	16.4	190
325	Mesoscale Self-Assembly of Hexagonal Plates Using Lateral Capillary Forces: Synthesis Using the "Capillary Bond" <i>Journal of the American Chemical Society</i> , <b>1999</b> , 121, 5373-5391	16.4	189
324	Charge transport and rectification in arrays of SAM-based tunneling junctions. <i>Nano Letters</i> , <b>2010</b> , 10, 3611-9	11.5	188
323	Extending Microcontact Printing as a Microlithographic Technique. <i>Langmuir</i> , <b>1997</b> , 13, 2059-2067	4	187
322	Buckling of Elastomeric Beams Enables Actuation of Soft Machines. <i>Advanced Materials</i> , <b>2015</b> , 27, 6323-24	7.4	182
321	Autocatalytic, bistable, oscillatory networks of biologically relevant organic reactions. <i>Nature</i> , <b>2016</b> , 537, 656-60	50.4	179
320	Integrating Electronics and Microfluidics on Paper. <i>Advanced Materials</i> , <b>2016</b> , 28, 5054-63	24	176
319	Defining the value of injection current and effective electrical contact area for EGaIn-based molecular tunneling junctions. <i>Journal of the American Chemical Society</i> , <b>2013</b> , 135, 18131-44	16.4	172
318	Si/SiO <sub>2</sub> -templated formation of ultraflat metal surfaces on glass, polymer, and solder supports: their use as substrates for self-assembled monolayers. <i>Langmuir</i> , <b>2007</b> , 23, 9686-94	4	172
317	Mechanism of rectification in tunneling junctions based on molecules with asymmetric potential drops. <i>Journal of the American Chemical Society</i> , <b>2010</b> , 132, 18386-401	16.4	171
316	Controlling local disorder in self-assembled monolayers by patterning the topography of their metallic supports. <i>Nature</i> , <b>1998</b> , 394, 868-871	50.4	170
315	A soft, bistable valve for autonomous control of soft actuators. <i>Science Robotics</i> , <b>2018</b> , 3,	18.6	169
314	Controlling Mammalian Cell Spreading and Cytoskeletal Arrangement with Conveniently Fabricated Continuous Wavy Features on Poly(dimethylsiloxane). <i>Langmuir</i> , <b>2002</b> , 18, 3273-3280	4	169
313	Self-Assembled Monolayers on Gold Generated from Alkanethiols with the Structure RNHCOCH <sub>2</sub> SH. <i>Langmuir</i> , <b>1995</b> , 11, 4371-4382	4	167
312	Using explosions to power a soft robot. <i>Angewandte Chemie - International Edition</i> , <b>2013</b> , 52, 2892-6	16.4	166
311	Separation of nanoparticles in aqueous multiphase systems through centrifugation. <i>Nano Letters</i> , <b>2012</b> , 12, 4060-4	11.5	166
310	Affinity capillary electrophoresis: a physical-organic tool for studying interactions in biomolecular recognition. <i>Electrophoresis</i> , <b>1998</b> , 19, 367-82	3.6	166
309	Open-Source Potentiostat for Wireless Electrochemical Detection with Smartphones. <i>Analytical Chemistry</i> , <b>2018</b> , 90, 6240-6246	7.8	165

308	Pneumatic Energy Sources for Autonomous and Wearable Soft Robotics. <i>Soft Robotics</i> , <b>2014</b> , 1, 263-274	9.2	160
307	Electrical Resistance of AgTSB(CH <sub>2</sub> ) <sub>n</sub> CH <sub>3</sub> //Ga <sub>2</sub> O <sub>3</sub> /EGaIn Tunneling Junctions. <i>Journal of Physical Chemistry C</i> , <b>2012</b> , 116, 10848-10860	3.8	159
306	Odd-even effects in charge transport across self-assembled monolayers. <i>Journal of the American Chemical Society</i> , <b>2011</b> , 133, 2962-75	16.4	158
305	A Hybrid Combining Hard and Soft Robots. <i>Soft Robotics</i> , <b>2014</b> , 1, 70-74	9.2	157
304	Formation of Patterned Microstructures of Conducting Polymers by Soft Lithography, and Applications in Microelectronic Device Fabrication. <i>Advanced Materials</i> , <b>1999</b> , 11, 1038-1041	24	157
303	Paper-based electroanalytical devices for accessible diagnostic testing. <i>MRS Bulletin</i> , <b>2013</b> , 38, 309-314	3.2	156
302	Cofactor regeneration for enzyme-catalysed synthesis. <i>Biotechnology and Genetic Engineering Reviews</i> , <b>1988</b> , 6, 221-70	4.1	156
301	Soft Actuators and Robots that Are Resistant to Mechanical Damage. <i>Advanced Functional Materials</i> , <b>2014</b> , 24, 3003-3010	15.6	152
300	Self-assembly of 10-microm-sized objects into ordered three-dimensional arrays. <i>Journal of the American Chemical Society</i> , <b>2001</b> , 123, 7677-82	16.4	151
299	Buckling Pneumatic Linear Actuators Inspired by Muscle. <i>Advanced Materials Technologies</i> , <b>2016</b> , 1, 16006-65	15	151
298	Water-soluble sacrificial layers for surface micromachining. <i>Small</i> , <b>2005</b> , 1, 730-6	11	149
297	Manipulation of magnetic microbeads in suspension using micromagnetic systems fabricated with soft lithography. <i>Applied Physics Letters</i> , <b>2001</b> , 78, 1775-1777	3.4	149
296	Don't forget long-term fundamental research in energy. <i>Science</i> , <b>2007</b> , 315, 796-8	33.3	148
295	Microcontact Printing of Alkanethiols on Silver and Its Application in Microfabrication. <i>Journal of the Electrochemical Society</i> , <b>1996</b> , 143, 1070-1079	3.9	146
294	Measuring densities of solids and liquids using magnetic levitation: fundamentals. <i>Journal of the American Chemical Society</i> , <b>2009</b> , 131, 10049-58	16.4	144
293	Omniphobic BF Paper Produced by Silanization of Paper with Fluoroalkyltrichlorosilanes. <i>Advanced Functional Materials</i> , <b>2014</b> , 24, 60-70	15.6	141
292	Reinventing chemistry. <i>Angewandte Chemie - International Edition</i> , <b>2015</b> , 54, 3196-209	16.4	137
291	A magnetic trap for living cells suspended in a paramagnetic buffer. <i>Applied Physics Letters</i> , <b>2004</b> , 85, 2411-2413	3.4	137



290	X-ray grazing incidence diffraction from alkylsiloxane monolayers on silicon wafers. <i>Journal of Chemical Physics</i> , <b>1991</b> , 95, 2854-2861	3.9	137
289	Microcontact Printing of Alkanethiols on Copper and Its Application in Microfabrication. <i>Chemistry of Materials</i> , <b>1996</b> , 8, 601-603	9.6	135
288	Fabrication of magnetic microfiltration systems using soft lithography. <i>Applied Physics Letters</i> , <b>2002</b> , 80, 461-463	3.4	134
287	Micromolding of Polymers in Capillaries: Applications in Microfabrication. <i>Chemistry of Materials</i> , <b>1996</b> , 8, 1558-1567	9.6	129
286	Formation and Reaction of Interchain Carboxylic Anhydride Groups on Self-Assembled Monolayers on Gold. <i>Langmuir</i> , <b>1997</b> , 13, 6704-6712	4	127
285	Surface-Initiated Ring-Opening Metathesis Polymerization on Si/SiO <sub>2</sub> . <i>Macromolecules</i> , <b>2000</b> , 33, 2793-2795	3.95	126
284	Non-Photolithographic Methods for Fabrication of Elastomeric Stamps for Use in Microcontact Printing. <i>Langmuir</i> , <b>1996</b> , 12, 4033-4038	4	123
283	Using Surface Plasmon Resonance Spectroscopy To Measure the Association of Detergents with Self-Assembled Monolayers of Hexadecanethiolate on Gold. <i>Langmuir</i> , <b>1997</b> , 13, 2749-2755	4	122
282	A Paper-Based "Pop-up" Electrochemical Device for Analysis of Beta-Hydroxybutyrate. <i>Analytical Chemistry</i> , <b>2016</b> , 88, 6326-33	7.8	120
281	Self-Assembled Monolayers of Alkanethiols Presenting Tri(propylene sulfoxide) Groups Resist the Adsorption of Protein. <i>Journal of the American Chemical Society</i> , <b>1996</b> , 118, 5136-5137	16.4	118
280	Paper-based potentiometric ion sensing. <i>Analytical Chemistry</i> , <b>2014</b> , 86, 9548-53	7.8	117
279	Mixing with bubbles: a practical technology for use with portable microfluidic devices. <i>Lab on A Chip</i> , <b>2006</b> , 6, 207-12	7.2	116
278	From the bench to the field in low-cost diagnostics: two case studies. <i>Angewandte Chemie - International Edition</i> , <b>2015</b> , 54, 5836-53	16.4	114
277	Fabrication of Glass Microstructures by Micro-Molding of Sol-Gel Precursors. <i>Advanced Materials</i> , <b>1998</b> , 10, 571-574	24	114
276	Electrically Activated Paper Actuators. <i>Advanced Functional Materials</i> , <b>2016</b> , 26, 2446-2453	15.6	113
275	A paper-based invasion assay: assessing chemotaxis of cancer cells in gradients of oxygen. <i>Biomaterials</i> , <b>2015</b> , 52, 262-71	15.6	111
274	Fabrication of Low-Cost Paper-Based Microfluidic Devices by Embossing or Cut-and-Stack Methods. <i>Chemistry of Materials</i> , <b>2014</b> , 26, 4230-4237	9.6	111
273	Imbibition and Flow of Wetting Liquids in Noncircular Capillaries. <i>Journal of Physical Chemistry B</i> , <b>1997</b> , 101, 855-863	3.4	111

272	Designing ligands to bind proteins. <i>Quarterly Reviews of Biophysics</i> , <b>2005</b> , 38, 385-95	7	111
271	Microscope Projection Photolithography for Rapid Prototyping of Masters with Micron-Scale Features for Use in Soft Lithography. <i>Langmuir</i> , <b>2001</b> , 17, 6005-6012	4	111
270	Microfluidics Section: Design and Fabrication of Integrated Passive Valves and Pumps for Flexible Polymer 3-Dimensional Microfluidic Systems. <i>Biomedical Microdevices</i> , <b>2002</b> , 4, 117-121	3.7	110
269	Microfluidic arrays of fluid-fluid diffusional contacts as detection elements and combinatorial tools. <i>Analytical Chemistry</i> , <b>2001</b> , 73, 5207-13	7.8	110
268	Prototyping of masks, masters, and stamps/molds for soft lithography using an office printer and photographic reduction. <i>Analytical Chemistry</i> , <b>2000</b> , 72, 3176-80	7.8	109
267	Quantifying distortions in soft lithography. <i>Journal of Vacuum Science &amp; Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , <b>1998</b> , 16, 88		108
266	Viscoelastic properties of oxide-coated liquid metals. <i>Journal of Rheology</i> , <b>2009</b> , 53, 1305-1326	4.1	107
265	Using magnetic levitation for three dimensional self-assembly. <i>Advanced Materials</i> , <b>2011</b> , 23, 4134-40	24	105
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