

David Marr

List of Publications by Year in descending order

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48
papers

2,293
citations

279798

23
h-index

243625

44
g-index

49
all docs

49
docs citations

49
times ranked

2221
citing authors

#	ARTICLE	IF	CITATIONS
1	Microfluidic Control Using Colloidal Devices. <i>Science</i> , 2002, 296, 1841-1844.	12.6	386
2	Microfluidic sorting system based on optical waveguide integration and diode laser bar trapping. <i>Lab on A Chip</i> , 2006, 6, 422.	6.0	187
3	Design of a scanning laser optical trap for multiparticle manipulation. <i>Review of Scientific Instruments</i> , 2000, 71, 2196-2200.	1.3	172
4	Optical trapping, manipulation, and sorting of cells and colloids in microfluidic systems with diode laser bars. <i>Optics Express</i> , 2004, 12, 4390.	3.4	160
5	Surface-enabled propulsion and control of colloidal microwheels. <i>Nature Communications</i> , 2016, 7, 10225.	12.8	130
6	Fabrication of linear colloidal structures for microfluidic applications. <i>Applied Physics Letters</i> , 2002, 81, 1555-1557.	3.3	125
7	Hydrodynamic focusing for vacuum-pumped microfluidics. <i>Microfluidics and Nanofluidics</i> , 2005, 1, 280-283.	2.2	91
8	Electrically Switchable Colloidal Ordering in Confined Geometries. <i>Langmuir</i> , 2001, 17, 2301-2304.	3.5	76
9	Laminar-Flow-Based Separations at the Microscale. <i>Biotechnology Progress</i> , 2002, 18, 1439-1442.	2.6	63
10	Electric Field-Reversible Three-Dimensional Colloidal Crystals. <i>Langmuir</i> , 2003, 19, 5967-5970.	3.5	60
11	Flow control for capillary-pumped microfluidic systems. <i>Journal of Micromechanics and Microengineering</i> , 2004, 14, 1503-1506.	2.6	59
12	Enhanced Fibrinolysis with Magnetically Powered Colloidal Microwheels. <i>Small</i> , 2017, 13, 1700954.	10.0	59
13	In situ assembly of linked geometrically coupled microdevices. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 20141-20145.	7.1	56
14	Magnetic Microlassos for Reversible Cargo Capture, Transport, and Release. <i>Langmuir</i> , 2017, 33, 5932-5937.	3.5	53
15	Cell deformation cytometry using diode-bar optical stretchers. <i>Journal of Biomedical Optics</i> , 2010, 15, 1.	2.6	52
16	Optical Trapping for the Manipulation of Colloidal Particles. <i>Advanced Materials</i> , 2000, 12, 917-920.	21.0	49
17	Tailored Surfaces Using Optically Manipulated Colloidal Particles. <i>Langmuir</i> , 1999, 15, 8565-8568.	3.5	46
18	Reconfigurable microbots folded from simple colloidal chains. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 18186-18193.	7.1	45

#	ARTICLE	IF	CITATIONS
19	Microwheels on microroads: Enhanced translation on topographic surfaces. <i>Science Robotics</i> , 2019, 4, .	17.6	41
20	Void Morphology in Polyethylene/Carbon Black Composites. <i>Macromolecules</i> , 1997, 30, 2120-2124.	4.8	32
21	Viscoelasticity as a Biomarker for High-Throughput Flow Cytometry. <i>Biophysical Journal</i> , 2013, 105, 2281-2288.	0.5	32
22	Single-cell isolation using a DVD optical pickup. <i>Optics Express</i> , 2011, 19, 10377.	3.4	28
23	Measuring cell mechanics by optical alignment compression cytometry. <i>Lab on A Chip</i> , 2013, 13, 1571.	6.0	27
24	Engineered microparticles and nanoparticles for fibrinolysis. <i>Journal of Thrombosis and Haemostasis</i> , 2019, 17, 2004-2015.	3.8	26
25	Morphology Characterization in Multicomponent Macromolecular Systems Using Scanning Probe Phase Microscopy. <i>Langmuir</i> , 1997, 13, 1840-1843.	3.5	22
26	Fiber-focused diode bar optical trapping for microfluidic flow manipulation. <i>Applied Physics Letters</i> , 2008, 92, 013904.	3.3	22
27	High-throughput linear optical stretcher for mechanical characterization of blood cells. <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , 2016, 89, 391-397.	1.5	19
28	ac/dc Magnetic Fields for Enhanced Translation of Colloidal Microwheels. <i>Langmuir</i> , 2019, 35, 3455-3460.	3.5	18
29	Optical waveguides via viscosity-mismatched microfluidic flows. <i>Applied Physics Letters</i> , 2006, 88, 134109.	3.3	16
30	Characterization of $\text{La}_{1-x}\text{Sr}_x\text{MnO}_3$ perovskite catalysts for hydrogen peroxide reduction. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 16786-16793.	2.8	16
31	Imaging of a linear diode bar for an optical cell stretcher. <i>Biomedical Optics Express</i> , 2015, 6, 807.	2.9	15
32	Non reciprocal skewed rolling of a colloidal wheel due to induced chirality. <i>Soft Matter</i> , 2016, 12, 9314-9320.	2.7	14
33	A simple microfluidic dispenser for single-microparticle and cell samples. <i>Lab on A Chip</i> , 2014, 14, 4673-4679.	6.0	13
34	Multimodal microwheel swarms for targeting in three-dimensional networks. <i>Scientific Reports</i> , 2022, 12, 5078.	3.3	13
35	Breaking the fibrinolytic speed limit with microwheel co-delivery of tissue plasminogen activator and plasminogen. <i>Journal of Thrombosis and Haemostasis</i> , 2022, 20, 486-497.	3.8	13
36	An experimental design for the control and assembly of magnetic microwheels. <i>Review of Scientific Instruments</i> , 2020, 91, 093701.	1.3	12

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37	Erythrocyte deformation in high-throughput optical stretchers. <i>Physical Review E</i> , 2012, 85, 041923.	2.1	11
38	Morphological control of mesoscale colloidal models. <i>Fluid Phase Equilibria</i> , 2001, 185, 157-163.	2.5	8
39	Cell elongation via intrinsic antipodal stretching forces. <i>Physical Review E</i> , 2012, 86, 061901.	2.1	7
40	AFM and SALS Characterization of Spherulitic Structure in Polyethylene. <i>Langmuir</i> , 1996, 12, 1084-1087.	3.5	5
41	Morphology characterization of high-impact resistant polypropylene using AFM and SALS. <i>Journal of Applied Polymer Science</i> , 2000, 78, 452-457.	2.6	5
42	FACS-style detection for real-time cell viscoelastic cytometry. <i>RSC Advances</i> , 2015, 5, 105636-105642.	3.6	5
43	Small-Angle Neutron Scattering from Device-Quality a-Si:H and a-Si:D Prepared by PECVD and HWCVD. <i>Materials Research Society Symposia Proceedings</i> , 2000, 609, 1621.	0.1	2
44	Chain Assembly Kinetics from Magnetic Colloidal Spheres. <i>Langmuir</i> , 2022, 38, 5730-5737.	3.5	2
45	Morphology Characterization in Multicomponent Polymer Systems using Scanning Probe Microscopy. <i>Materials Research Society Symposia Proceedings</i> , 1996, 461, 211.	0.1	0
46	Colloidal Systems for Binary Mixtures Studies. <i>ACS Symposium Series</i> , 2004, , 27-39.	0.5	0
47	Two-photon absorption fluorescence imaging to characterize microfluidic device performance. , 2006, , .		0
48	A novel fast-mixing microfluidic device for studying nonequilibrium systems using femtosecond spectroscopies. , 2006, , .		0