

Harold G Craighead

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.

39
papers

2,717
citations

19
h-index

42
g-index

42
ext. papers

2,982
ext. citations

9.9
avg, IF

5.42
L-index

#	Paper	IF	Citations
39	Future lab-on-a-chip technologies for interrogating individual molecules. <i>Nature</i> , 2006 , 442, 387-93	50.4	580
38	Micro- and nanomechanical sensors for environmental, chemical, and biological detection. <i>Lab on A Chip</i> , 2007 , 7, 1238-55	7.2	526
37	Powering an inorganic nanodevice with a biomolecular motor. <i>Science</i> , 2000 , 290, 1555-8	33.3	497
36	A polymeric microfluidic chip for CE/MS determination of small molecules. <i>Analytical Chemistry</i> , 2001 , 73, 1935-41	7.8	198
35	Diffraction-based cell detection using a microcontact printed antibody grating. <i>Analytical Chemistry</i> , 1998 , 70, 1108-11	7.8	126
34	Surface Engineering and Patterning Using Parylene for Biological Applications. <i>Materials</i> , 2010 , 3, 1803-1832	3.5	108
33	Revisiting the Conformation and Dynamics of DNA in Slitlike Confinement. <i>Macromolecules</i> , 2010 , 43, 7368-7377	5.5	104
32	Mast Cell Activation on Patterned Lipid Bilayers of Subcellular Dimensions. <i>Langmuir</i> , 2003 , 19, 1599-1605	6.5	84
31	Defining NELF-E RNA binding in HIV-1 and promoter-proximal pause regions. <i>PLoS Genetics</i> , 2014 , 10, e1004090	6	48
30	RAPID-SELEX for RNA aptamers. <i>PLoS ONE</i> , 2013 , 8, e82667	3.7	48
29	Operating mechanism of light-emitting electrochemical cells. <i>Nature Materials</i> , 2008 , 7, 168-168	27	44
28	Nanomechanical systems: measuring more than mass. <i>Nature Nanotechnology</i> , 2007 , 2, 18-9	28.7	38
27	Microfabricated Plastic Devices from Silicon Using Soft Intermediates. <i>Biomedical Microdevices</i> , 2002 , 4, 277-283	3.7	34
26	Microfluidic Device for Aptamer-Based Cancer Cell Capture and Genetic Mutation Detection. <i>Analytical Chemistry</i> , 2018 , 90, 2601-2608	7.8	31
25	Applications of controlled electrospinning systems. <i>Polymers for Advanced Technologies</i> , 2011 , 22, 304-309	3.9	30
24	Interfacet mass transport and facet evolution in selective epitaxial growth of Si by gas source molecular beam epitaxy. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 1996 , 14, 2381		28
23	Poly(dicyclopentadiene) Submicron Fibers Produced by Electrospinning. <i>Macromolecular Rapid Communications</i> , 2006 , 27, 511-515	4.8	25

22	Nanomanufacturing Using Electrospinning. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , 2009 , 131,	3.3	22
21	High-Q, in-plane modes of nanomechanical resonators operated in air. <i>Journal of Applied Physics</i> , 2009 , 105, 094315	2.5	19
20	Young's modulus and thermal expansion of tensioned graphene membranes. <i>Physical Review B</i> , 2018 , 98,	3.3	16
19	Observing <i>Thermobifida fusca</i> cellulase binding to pretreated wood particles using time-lapse confocal laser scanning microscopy. <i>Cellulose</i> , 2011 , 18, 749-758	5.5	16
18	Molecular templates for bio-specific recognition by low-energy electron beam lithography. <i>Nanobiotechnology</i> , 2005 , 1, 023-034		16
17	On-chip coupling of electrochemical pumps and an SU-8 tip for electrospray ionization mass spectrometry. <i>Biomedical Microdevices</i> , 2008 , 10, 891-897	3.7	12
16	Low-Power Photothermal Self-Oscillation of Bimetallic Nanowires. <i>Nano Letters</i> , 2017 , 17, 3995-4002	11.5	10
15	Highly Multiplexed RNA Aptamer Selection using a Microplate-based Microcolumn Device. <i>Scientific Reports</i> , 2016 , 6, 29771	4.9	10
14	Single cell on-chip whole genome amplification via micropillar arrays for reduced amplification bias. <i>PLoS ONE</i> , 2018 , 13, e0191520	3.7	9
13	Chip-based microfabricated electrospinning nozzles. <i>Journal of Vacuum Science & Technology B</i> , 2008 , 26, 2539-2542		7
12	Temperature-dependence of stress and elasticity in wet-transferred graphene membranes. <i>Journal of Applied Physics</i> , 2018 , 123, 095109	2.5	6
11	Devices and approaches for generating specific high-affinity nucleic acid aptamers. <i>Applied Physics Reviews</i> , 2014 , 1, 031103	17.3	6
10	Electrospun DNA nanofibers. <i>Journal of Vacuum Science & Technology B</i> , 2007 , 25, 2255		5
9	Forward scattering probe of edge-state coupling in the quantum Hall regime. <i>Physical Review B</i> , 2001 , 64,	3.3	4
8	High surface-area carbon microcantilevers. <i>Nanoscale Advances</i> , 2019 , 1, 1148-1154	5.1	2
7	Discovering aptamers by cell-SELEX against human soluble growth factors ectopically expressed on yeast cell surface. <i>PLoS ONE</i> , 2014 , 9, e93052	3.7	2
6	Future lab-on-a-chip technologies for interrogating individual molecules 2009 , 330-336		2
5	Synchronous imaging for rapid visualization of complex vibration profiles in electromechanical microresonators. <i>Journal of Applied Physics</i> , 2012 , 111, 023507	2.5	1

- 4 Micro- and Nanofabricating Lipid Patterns Using a Polymer-Based Wet Lift-Off. *Materials Research Society Symposia Proceedings*, **2001**, 705, 7181 1
- 3 Continuous separation of biomolecules by the laterally asymmetric diffusion array with out-of-plane sample injection **2002**, 23, 3496 1
- 2 The Interactions Between Central Nervous System Cells and Topographically Modified Surfaces. *Microscopy and Microanalysis*, **2003**, 9, 1280-1281 0.5
- 1 Lateral Diffusion Limitations of InGaAs/GaAs for Nanostructure Fabrication. *Materials Research Society Symposia Proceedings*, **1995**, 380, 67