

# Jennifer E Curtis

## List of Publications by Year in descending order

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31  
papers

3,246  
citations

471509

17  
h-index

434195

31  
g-index

32  
all docs

32  
docs citations

32  
times ranked

3456  
citing authors

#	ARTICLE	IF	CITATIONS
1	Dynamic holographic optical tweezers. <i>Optics Communications</i> , 2002, 207, 169-175.	2.1	1,484
2	Structure of Optical Vortices. <i>Physical Review Letters</i> , 2003, 90, 133901.	7.8	578
3	How vinculin regulates force transmission. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 9788-9793.	7.1	209
4	Modulated optical vortices. <i>Optics Letters</i> , 2003, 28, 872.	3.3	187
5	Nonperturbative Chemical Modification of Graphene for Protein Micropatterning. <i>Langmuir</i> , 2011, 27, 863-865.	3.5	85
6	Tuning the orbital angular momentum in optical vortex beams. <i>Optics Express</i> , 2006, 14, 6604.	3.4	83
7	Symmetry dependence of holograms for optical trapping. <i>Optics Letters</i> , 2005, 30, 2086.	3.3	79
8	Smart colloidosomes with a dissolution trigger. <i>Soft Matter</i> , 2010, 6, 3163.	2.7	66
9	Thermochemical Nanolithography of Multifunctional Nanotemplates for Assembling Nano-Objects. <i>Advanced Functional Materials</i> , 2009, 19, 3696-3702.	14.9	61
10	High-precision steering of multiple holographic optical traps. <i>Optics Express</i> , 2005, 13, 8678.	3.4	60
11	Parallelization of thermochemical nanolithography. <i>Nanoscale</i> , 2014, 6, 1299-1304.	5.6	41
12	Fabricating Nanoscale Chemical Gradients with ThermoChemical NanoLithography. <i>Langmuir</i> , 2013, 29, 8675-8682.	3.5	40
13	Frustrated Phagocytic Spreading of J774A-1 Macrophages Ends in Myosin II-Dependent Contraction. <i>Biophysical Journal</i> , 2016, 111, 2698-2710.	0.5	39
14	Optical force sensor array in a microfluidic device based on holographic optical tweezers. <i>Lab on a Chip</i> , 2009, 9, 661.	6.0	36
15	Spatial Organization and Mechanical Properties of the Pericellular Matrix on Chondrocytes. <i>Biophysical Journal</i> , 2013, 104, 986-996.	0.5	35
16	Mapping the mechanics and macromolecular organization of hyaluronan-rich cell coats. <i>Soft Matter</i> , 2009, 5, 4331.	2.7	30
17	Cell-assisted assembly of colloidal crystallites. <i>Soft Matter</i> , 2007, 3, 337-348.	2.7	25
18	Cell Surface Access Is Modulated by Tethered Bottlebrush Proteoglycans. <i>Biophysical Journal</i> , 2016, 110, 2739-2750.	0.5	19

#	ARTICLE	IF	CITATIONS
19	Self-regenerating giant hyaluronan polymer brushes. <i>Nature Communications</i> , 2019, 10, 5527.	12.8	16
20	Cdc42 regulates the cellular localization of Cdc42ep1 in controlling neural crest cell migration. <i>Journal of Molecular Cell Biology</i> , 2018, 10, 376-387.	3.3	12
21	Aberration correction in wide-field fluorescence microscopy by segmented-pupil image interferometry. <i>Optics Express</i> , 2012, 20, 14534.	3.4	11
22	Giant Hyaluronan Polymer Brushes Display Polyelectrolyte Brush Polymer Physics Behavior. <i>ACS Macro Letters</i> , 2019, 8, 1323-1327.	4.8	10
23	Understanding How Charged Nanoparticles Electrostatically Assemble and Distribute in 1-D. <i>Langmuir</i> , 2016, 32, 13600-13610.	3.5	9
24	Speed Dependence of Thermochemical Nanolithography for Gray-Scale Patterning. <i>ChemPhysChem</i> , 2014, 15, 2530-2535.	2.1	8
25	Single-Molecule Imaging of Proteoglycans in the Pericellular Matrix. <i>Biophysical Journal</i> , 2017, 113, 2316-2320.	0.5	8
26	Photobleaching-activated micropatterning on self-assembled monolayers. <i>Journal of Physics Condensed Matter</i> , 2010, 22, 194103.	1.8	6
27	Beads on a string: structure of bound aggregates of globular particles and long polymer chains. <i>Soft Matter</i> , 2015, 11, 8092-8099.	2.7	3
28	The Mechanics of Ovulation Depend on an Incredibly Soft and Sugar-Rich Extracellular Matrix. <i>Biophysical Journal</i> , 2016, 110, 2566-2567.	0.5	2
29	A generalized approach for measuring microcapsule permeability with Fluorescence Recovery After Photobleaching. <i>Journal of Materials Science</i> , 2013, 48, 2215-2223.	3.7	1
30	Sculpting Enzyme-Generated Giant Polymer Brushes. <i>ACS Nano</i> , 2021, 15, 4268-4276.	14.6	1
31	Understanding Receptor Kinetics And Mechanics In Phagocytosis Uptake Using Deformable Polyelectrolyte Microcapsules As Force Sensors. <i>Biophysical Journal</i> , 2009, 96, 642a.	0.5	0