

Lee Belding

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.

48
papers

12,510
citations

36
h-index

49
g-index

49
ext. papers

14,833
ext. citations

14.5
avg, IF

6.63
L-index

#	Paper	IF	Citations
48	Multigait soft robot. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 20400-3	11.5	1309
47	Stretchable, transparent, ionic conductors. <i>Science</i> , 2013 , 341, 984-7	33.3	1133
46	An integrated design and fabrication strategy for entirely soft, autonomous robots. <i>Nature</i> , 2016 , 536, 451-5	50.4	1073
45	Eutectic Gallium-Indium (EGaIn): A Liquid Metal Alloy for the Formation of Stable Structures in Microchannels at Room Temperature. <i>Advanced Functional Materials</i> , 2008 , 18, 1097-1104	15.6	927
44	Pneumatic Networks for Soft Robotics that Actuate Rapidly. <i>Advanced Functional Materials</i> , 2014 , 24, 2163-2170	15.6	763
43	Soft robotics for chemists. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 1890-5	16.4	691
42	A Resilient, Untethered Soft Robot. <i>Soft Robotics</i> , 2014 , 1, 213-223	9.2	612
41	SOFT ROBOTICS. A 3D-printed, functionally graded soft robot powered by combustion. <i>Science</i> , 2015 , 349, 161-5	33.3	608
40	Camouflage and display for soft machines. <i>Science</i> , 2012 , 337, 828-32	33.3	514
39	Components for integrated poly(dimethylsiloxane) microfluidic systems. <i>Electrophoresis</i> , 2002 , 23, 3461-378	3.8	496
38	Robotic tentacles with three-dimensional mobility based on flexible elastomers. <i>Advanced Materials</i> , 2013 , 25, 205-12	24	457
37	Soft Robotics for Chemists. <i>Angewandte Chemie</i> , 2011 , 123, 1930-1935	3.6	421
36	Elastomeric Origami: Programmable Paper-Elastomer Composites as Pneumatic Actuators. <i>Advanced Functional Materials</i> , 2012 , 22, 1376-1384	15.6	384
35	Soft lithographic methods for nano-fabrication. <i>Journal of Materials Chemistry</i> , 1997 , 7, 1069-1074		364
34	Soft Robotics. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 4258-4273	16.4	307
33	Dynamic control of liquid-core/liquid-cladding optical waveguides. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004 , 101, 12434-8	11.5	226
32	Buckling of Elastomeric Beams Enables Actuation of Soft Machines. <i>Advanced Materials</i> , 2015 , 27, 6323-24		182

31	A soft, bistable valve for autonomous control of soft actuators. <i>Science Robotics</i> , 2018 , 3,	18.6	169
30	Using explosions to power a soft robot. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 2892-6	16.4	166
29	Pneumatic Energy Sources for Autonomous and Wearable Soft Robotics. <i>Soft Robotics</i> , 2014 , 1, 263-274	9.2	160
28	A Hybrid Combining Hard and Soft Robots. <i>Soft Robotics</i> , 2014 , 1, 70-74	9.2	157
27	A multi-color fast-switching microfluidic droplet dye laser. <i>Lab on A Chip</i> , 2009 , 9, 2767-71	7.2	154
26	Buckling Pneumatic Linear Actuators Inspired by Muscle. <i>Advanced Materials Technologies</i> , 2016 , 1, 1600035	5.5	151
25	Soft machines that are resistant to puncture and that self seal. <i>Advanced Materials</i> , 2013 , 25, 6709-13	24	129
24	Electrically Activated Paper Actuators. <i>Advanced Functional Materials</i> , 2016 , 26, 2446-2453	15.6	113
23	Cofabrication of electromagnets and microfluidic systems in poly(dimethylsiloxane). <i>Angewandte Chemie - International Edition</i> , 2006 , 45, 6877-82	16.4	105
22	Digital logic for soft devices. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 7750-7759	11.5	89
21	Using Explosions to Power a Soft Robot. <i>Angewandte Chemie</i> , 2013 , 125, 2964-2968	3.6	66
20	A soft ring oscillator. <i>Science Robotics</i> , 2019 , 4,	18.6	64
19	Using "click-e-bricks" to make 3D elastomeric structures. <i>Advanced Materials</i> , 2014 , 26, 5991-9	24	58
18	Soft Mobile Robots with On-Board Chemical Pressure Generation. <i>Springer Tracts in Advanced Robotics</i> , 2017 , 525-540	0.5	52
17	Cofabrication: a strategy for building multicomponent microsystems. <i>Accounts of Chemical Research</i> , 2010 , 43, 518-28	24.3	49
16	Arthrobrats. <i>Soft Robotics</i> , 2017 , 4, 183-190	9.2	45
15	Negative-Pressure Soft Linear Actuator with a Mechanical Advantage. <i>Advanced Materials Technologies</i> , 2017 , 2, 1600164	6.8	45
14	Slit Tubes for Semisoft Pneumatic Actuators. <i>Advanced Materials</i> , 2018 , 30, 1704446	24	44

13	Autocatalytic Cycles in a Copper-Catalyzed Azide-Alkyne Cycloaddition Reaction. <i>Journal of the American Chemical Society</i> , 2018 , 140, 10221-10232	16.4	37
12	Cofabrication of Electromagnets and Microfluidic Systems in Poly(dimethylsiloxane). <i>Angewandte Chemie</i> , 2006 , 118, 7031-7036	3.6	35
11	Stretchable Conductive Composites Based on Metal Wools for Use as Electrical Vias in Soft Devices. <i>Advanced Functional Materials</i> , 2015 , 25, 1418-1425	15.6	31
10	Dipole-Induced Rectification Across Ag/SAM//GaO/EGaIn Junctions. <i>Journal of the American Chemical Society</i> , 2019 , 141, 8969-8980	16.4	29
9	Fabricating 3D Structures by Combining 2D Printing and Relaxation of Strain. <i>Advanced Materials Technologies</i> , 2019 , 4, 1800299	6.8	26
8	Rectification in Molecular Tunneling Junctions Based on Alkanethiolates with Bipyridine-Metal Complexes. <i>Journal of the American Chemical Society</i> , 2021 , 143, 2156-2163	16.4	15
7	Soft kink valves. <i>Journal of the Mechanics and Physics of Solids</i> , 2019 , 131, 230-239	5	14
6	Soft-Robotik. <i>Angewandte Chemie</i> , 2018 , 130, 4336-4353	3.6	13
5	Titelbild: Soft Robotics for Chemists (Angew. Chem. 8/2011). <i>Angewandte Chemie</i> , 2011 , 123, 1765-1765	3.6	8
4	Curiosity and Science. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 4126-4129	16.4	7
3	Neugier und Wissenschaft. <i>Angewandte Chemie</i> , 2018 , 130, 4192-4196	3.6	5
2	Elastic-instability-enabled locomotion. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	4
1	Characterizing Chelation at Surfaces by Charge Tunneling. <i>Journal of the American Chemical Society</i> , 2021 , 143, 5967-5977	16.4	3