

# Lee Belding

## List of Publications by Year in Descending Order

**Source:** <https://exaly.com/author-pdf/7747987/lee-belding-publications-by-year.pdf>

**Version:** 2024-04-26

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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	Characterizing Chelation at Surfaces by Charge Tunneling. <i>Journal of the American Chemical Society</i> , <b>2021</b> , 143, 5967-5977	16.4	3
47	Rectification in Molecular Tunneling Junctions Based on Alkanethiolates with Bipyridine-Metal Complexes. <i>Journal of the American Chemical Society</i> , <b>2021</b> , 143, 2156-2163	16.4	15
46	Elastic-instability-enabled locomotion. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2021</b> , 118,	11.5	4
45	A soft ring oscillator. <i>Science Robotics</i> , <b>2019</b> , 4,	18.6	64
44	Dipole-Induced Rectification Across Ag/SAM//GaO/EGaIn Junctions. <i>Journal of the American Chemical Society</i> , <b>2019</b> , 141, 8969-8980	16.4	29
43	Digital logic for soft devices. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2019</b> , 116, 7750-7759	11.5	89
42	Fabricating 3D Structures by Combining 2D Printing and Relaxation of Strain. <i>Advanced Materials Technologies</i> , <b>2019</b> , 4, 1800299	6.8	26
41	Soft kink valves. <i>Journal of the Mechanics and Physics of Solids</i> , <b>2019</b> , 131, 230-239	5	14
40	Soft Robotics. <i>Angewandte Chemie - International Edition</i> , <b>2018</b> , 57, 4258-4273	16.4	307
39	Curiosity and Science. <i>Angewandte Chemie - International Edition</i> , <b>2018</b> , 57, 4126-4129	16.4	7
38	Neugier und Wissenschaft. <i>Angewandte Chemie</i> , <b>2018</b> , 130, 4192-4196	3.6	5
37	Slit Tubes for Semisoft Pneumatic Actuators. <i>Advanced Materials</i> , <b>2018</b> , 30, 1704446	24	44
36	A soft, bistable valve for autonomous control of soft actuators. <i>Science Robotics</i> , <b>2018</b> , 3,	18.6	169
35	Soft-Robotik. <i>Angewandte Chemie</i> , <b>2018</b> , 130, 4336-4353	3.6	13
34	Autocatalytic Cycles in a Copper-Catalyzed Azide-Alkyne Cycloaddition Reaction. <i>Journal of the American Chemical Society</i> , <b>2018</b> , 140, 10221-10232	16.4	37
33	Arthroblots. <i>Soft Robotics</i> , <b>2017</b> , 4, 183-190	9.2	45
32	Negative-Pressure Soft Linear Actuator with a Mechanical Advantage. <i>Advanced Materials Technologies</i> , <b>2017</b> , 2, 1600164	6.8	45

31	Soft Mobile Robots with On-Board Chemical Pressure Generation. <i>Springer Tracts in Advanced Robotics</i> , <b>2017</b> , 525-540	0.5	52
30	An integrated design and fabrication strategy for entirely soft, autonomous robots. <i>Nature</i> , <b>2016</b> , 536, 451-5	50.4	1073
29	Buckling Pneumatic Linear Actuators Inspired by Muscle. <i>Advanced Materials Technologies</i> , <b>2016</b> , 1, 16000-5	15.6	151
28	Electrically Activated Paper Actuators. <i>Advanced Functional Materials</i> , <b>2016</b> , 26, 2446-2453	15.6	113
27	SOFT ROBOTICS. A 3D-printed, functionally graded soft robot powered by combustion. <i>Science</i> , <b>2015</b> , 349, 161-5	33.3	608
26	Buckling of Elastomeric Beams Enables Actuation of Soft Machines. <i>Advanced Materials</i> , <b>2015</b> , 27, 6323-24	9.2	182
25	Stretchable Conductive Composites Based on Metal Wools for Use as Electrical Vias in Soft Devices. <i>Advanced Functional Materials</i> , <b>2015</b> , 25, 1418-1425	15.6	31
24	A Hybrid Combining Hard and Soft Robots. <i>Soft Robotics</i> , <b>2014</b> , 1, 70-74	9.2	157
23	Pneumatic Networks for Soft Robotics that Actuate Rapidly. <i>Advanced Functional Materials</i> , <b>2014</b> , 24, 2163-2170	15.6	763
22	Using "click-e-bricks" to make 3D elastomeric structures. <i>Advanced Materials</i> , <b>2014</b> , 26, 5991-9	24	58
21	A Resilient, Untethered Soft Robot. <i>Soft Robotics</i> , <b>2014</b> , 1, 213-223	9.2	612
20	Pneumatic Energy Sources for Autonomous and Wearable Soft Robotics. <i>Soft Robotics</i> , <b>2014</b> , 1, 263-274	9.2	160
19	Soft machines that are resistant to puncture and that self seal. <i>Advanced Materials</i> , <b>2013</b> , 25, 6709-13	24	129
18	Stretchable, transparent, ionic conductors. <i>Science</i> , <b>2013</b> , 341, 984-7	33.3	1133
17	Using explosions to power a soft robot. <i>Angewandte Chemie - International Edition</i> , <b>2013</b> , 52, 2892-6	16.4	166
16	Robotic tentacles with three-dimensional mobility based on flexible elastomers. <i>Advanced Materials</i> , <b>2013</b> , 25, 205-12	24	457
15	Using Explosions to Power a Soft Robot. <i>Angewandte Chemie</i> , <b>2013</b> , 125, 2964-2968	3.6	66
14	Camouflage and display for soft machines. <i>Science</i> , <b>2012</b> , 337, 828-32	33.3	514

13	Elastomeric Origami: Programmable Paper-Elastomer Composites as Pneumatic Actuators. <i>Advanced Functional Materials</i> , <b>2012</b> , 22, 1376-1384	15.6	384
12	Titelbild: Soft Robotics for Chemists (Angew. Chem. 8/2011). <i>Angewandte Chemie</i> , <b>2011</b> , 123, 1765-1765	3.6	8
11	Soft Robotics for Chemists. <i>Angewandte Chemie</i> , <b>2011</b> , 123, 1930-1935	3.6	421
10	Soft robotics for chemists. <i>Angewandte Chemie - International Edition</i> , <b>2011</b> , 50, 1890-5	16.4	691
9	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
8	Cofabrication: a strategy for building multicomponent microsystems. <i>Accounts of Chemical Research</i> , <b>2010</b> , 43, 518-28	24.3	49
7	A multi-color fast-switching microfluidic droplet dye laser. <i>Lab on A Chip</i> , <b>2009</b> , 9, 2767-71	7.2	154
6	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
5	Cofabrication of electromagnets and microfluidic systems in poly(dimethylsiloxane). <i>Angewandte Chemie - International Edition</i> , <b>2006</b> , 45, 6877-82	16.4	105
4	Cofabrication of Electromagnets and Microfluidic Systems in Poly(dimethylsiloxane). <i>Angewandte Chemie</i> , <b>2006</b> , 118, 7031-7036	3.6	35
3	Dynamic control of liquid-core/liquid-cladding optical waveguides. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2004</b> , 101, 12434-8	11.5	226
2	Components for integrated poly(dimethylsiloxane) microfluidic systems. <i>Electrophoresis</i> , <b>2002</b> , 23, 3461-3	3.8	496
1	Soft lithographic methods for nano-fabrication. <i>Journal of Materials Chemistry</i> , <b>1997</b> , 7, 1069-1074		364