

# Camilla Parmeggiani

## List of Publications by Year in descending order

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68  
papers

3,949  
citations

136940

32  
h-index

123420

61  
g-index

75  
all docs

75  
docs citations

75  
times ranked

4422  
citing authors

#	ARTICLE	IF	CITATIONS
1	Photoresponsive Polymer-Based Biomimetic Contractile Units as Building Block for Artificial Muscles. <i>Macromolecular Materials and Engineering</i> , 2022, 307, .	3.6	5
2	Light-Powered Microrobots: Challenges and Opportunities for Hard and Soft Responsive Microswimmers. <i>Advanced Intelligent Systems</i> , 2021, 3, 2000256.	6.1	64
3	Dithiols as Liquid Crystalline Building Blocks for Smart Polymers via Thiol-ene Click Chemistry. <i>ACS Applied Polymer Materials</i> , 2021, 3, 1602-1609.	4.4	7
4	Light-Powered Microrobots: Challenges and Opportunities for Hard and Soft Responsive Microswimmers. <i>Advanced Intelligent Systems</i> , 2021, 3, 2170041.	6.1	6
5	Two-Photon Laser Writing of Soft Responsive Polymers via Temperature-Controlled Polymerization. <i>Laser and Photonics Reviews</i> , 2021, 15, 2100090.	8.7	12
6	Cell instructive Liquid Crystalline Networks for myotube formation. <i>IScience</i> , 2021, 24, 103077.	4.1	8
7	New Frontiers on Human Safe Insecticides and Fungicides: An Opinion on Trehalase Inhibitors. <i>Molecules</i> , 2020, 25, 3013.	3.8	23
8	Photonic artificial muscles: from micro robots to tissue engineering. <i>Faraday Discussions</i> , 2020, 223, 216-232.	3.2	19
9	Color Modulation in <i>Morpho</i> Butterfly Wings Using Liquid Crystalline Elastomers. <i>Advanced Intelligent Systems</i> , 2020, 2, 2000035.	6.1	13
10	Self-Regulating Capabilities in Photonic Robotics. <i>Advanced Materials Technologies</i> , 2019, 4, 1800571.	5.8	57
11	Modulation of Optical Properties in Liquid Crystalline Networks across Different Length Scales. <i>Journal of Physical Chemistry C</i> , 2019, 123, 26522-26527.	3.1	8
12	Opposite Self-Folding Behavior of Polymeric Photoresponsive Actuators Enabled by a Molecular Approach. <i>Polymers</i> , 2019, 11, 1644.	4.5	8
13	Polarization-dependent deformation in light responsive polymers doped by dichroic dyes. <i>Soft Matter</i> , 2019, 15, 1312-1318.	2.7	38
14	Multichannel remote polarization control enabled by nanostructured liquid crystalline networks. <i>Applied Physics Letters</i> , 2019, 114, .	3.3	13
15	Loss of Dystrophin Alters Calcium-Handling Maturation in Response to Microenvironment in Hpsc-Cardiomyocytes from Duchenne Muscular Dystrophy Patients. <i>Biophysical Journal</i> , 2019, 116, 95a.	0.5	0
16	3D Printed Photoresponsive Materials for Photonics. <i>Advanced Optical Materials</i> , 2019, 7, 1900156.	7.3	41
17	Liquid Crystals: Liquid Crystal-Induced Myoblast Alignment ( <i>Adv. Healthcare Mater.</i> 3/2019). <i>Advanced Healthcare Materials</i> , 2019, 8, 1970009.	7.6	7
18	Design of Biocompatible Liquid Cristal Elastomers Reproducing the Mechanical Properties of Human Cardiac Muscle. <i>Biophysical Journal</i> , 2019, 116, 264a.	0.5	0

#	ARTICLE	IF	CITATIONS
19	Development of Light-Responsive Liquid Crystalline Elastomers to Assist Cardiac Contraction. <i>Circulation Research</i> , 2019, 124, e44-e54.	4.5	44
20	Liquid Crystalline-Induced Myoblast Alignment. <i>Advanced Healthcare Materials</i> , 2019, 8, e1801489.	7.6	36
21	Frontispiece: Advances in Cell Scaffolds for Tissue Engineering: The Value of Liquid Crystalline Elastomers. <i>Chemistry - A European Journal</i> , 2018, 24, .	3.3	0
22	Optically Driven Soft Micro Robotics. <i>Advanced Optical Materials</i> , 2018, 6, 1800207.	7.3	111
23	Three-Dimensional Photonic Circuits in Rigid and Soft Polymers Tunable by Light. <i>ACS Photonics</i> , 2018, 5, 3222-3230.	6.6	53
24	Advances in Cell Scaffolds for Tissue Engineering: The Value of Liquid Crystalline Elastomers. <i>Chemistry - A European Journal</i> , 2018, 24, 12206-12220.	3.3	44
25	Structured Optical Materials Controlled by Light. <i>Advanced Optical Materials</i> , 2018, 6, 1800167.	7.3	50
26	Beam Steering: Structured Optical Materials Controlled by Light ( <i>Advanced Optical Materials</i> 15/2018). <i>Advanced Optical Materials</i> , 2018, 6, 1870059.	7.3	1
27	Light-fueled polymeric machines: multiple actions at the microscale. , 2018, , .		0
28	Light activated non-reciprocal motion in liquid crystalline networks by designed microactuator architecture. <i>RSC Advances</i> , 2017, 7, 19940-19947.	3.6	51
29	On the Oxidation of Hydroxylamines with o-Iodoxybenzoic Acid (IBX). <i>Synthesis</i> , 2017, 49, 2890-2900.	2.3	14
30	A step forward towards sustainable aerobic alcohol oxidation: new and revised catalysts based on transition metals on solid supports. <i>Green Chemistry</i> , 2017, 19, 2030-2050.	9.0	156
31	Photonic Microhand with Autonomous Action. <i>Advanced Materials</i> , 2017, 29, 1704047.	21.0	122
32	Liquid Crystalline Networks toward Regenerative Medicine and Tissue Repair. <i>Small</i> , 2017, 13, 1702677.	10.0	46
33	Beam steering by liquid crystal elastomer fibres. <i>Soft Matter</i> , 2017, 13, 8590-8596.	2.7	45
34	Tissue Engineering: Liquid Crystalline Networks toward Regenerative Medicine and Tissue Repair ( <i>Small</i> 46/2017). <i>Small</i> , 2017, 13, .	10.0	0
35	Microrobotics: Photonic Microhand with Autonomous Action ( <i>Adv. Mater.</i> 42/2017). <i>Advanced Materials</i> , 2017, 29, .	21.0	1
36	Locomotion of light-driven soft microrobots through a hydrogel via local melting. , 2017, , .		3

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37	Photonic arms, legs, and skin. , 2017, , .		1
38	Photoresist Design for Elastomeric Light Tunable Photonic Devices. Materials, 2016, 9, 525.	2.9	36
39	Towards photo-induced swimming: actuation of liquid crystalline elastomer in water. Proceedings of SPIE, 2016, , .	0.8	1
40	Evidence for a multivalent effect in inhibition of sulfatases involved in lysosomal storage disorders (LSDs). RSC Advances, 2016, 6, 64847-64851.	3.6	20
41	Towards liquid crystalline elastomer optically tunable photonic microstructures. Proceedings of SPIE, 2016, , .	0.8	2
42	Are enzymes sensitive to the multivalent effect? Emerging evidence with glycosidases. Tetrahedron Letters, 2016, 57, 5407-5415.	1.4	54
43	Free-form Light Actuators &#8212; Fabrication and Control of Actuation in Microscopic Scale. Journal of Visualized Experiments, 2016, , .	0.3	0
44	Cycloadditions of Sugarâ€Derived Nitrones Targeting Polyhydroxylated Indolizidines. European Journal of Organic Chemistry, 2016, 2016, 1588-1598.	2.4	27
45	Structured light enables biomimetic swimming and versatile locomotion of photoresponsive soft microrobots. Nature Materials, 2016, 15, 647-653.	27.5	757
46	Lightâ€Fueled Microscopic Walkers. Advanced Materials, 2015, 27, 3883-3887.	21.0	355
47	Artificial Muscle: Lightâ€Fueled Microscopic Walkers (Adv. Mater. 26/2015). Advanced Materials, 2015, 27, 3842-3842.	21.0	1
48	Gold Supported on Silica Catalyzes the Aerobic Oxidation of <i>N,N</i> -Disubstituted Hydroxylamines to Nitrones. European Journal of Organic Chemistry, 2015, 2015, 6541-6546.	2.4	11
49	Human Acid Î²â€Glucosidase Inhibition by Carbohydrate Derived Iminosugars: Towards New Pharmacological Chaperones for Gaucher Disease. ChemBioChem, 2015, 16, 2054-2064.	2.6	45
50	Optically controlled elastic microcavities. Light: Science and Applications, 2015, 4, e282-e282.	16.6	61
51	Oxidation of <i>N,N</i> -Disubstituted Hydroxylamines to Nitrones with Hypervalent Iodine Reagents. Organic Letters, 2015, 17, 4082-4085.	4.6	52
52	The first thiolâ€yne click chemistry approach for the preparation of liquid crystalline elastomers. Journal of Materials Chemistry C, 2015, 3, 9003-9010.	5.5	37
53	Alignment engineering in liquid crystalline elastomers: Free-form microstructures with multiple functionalities. Applied Physics Letters, 2015, 106, .	3.3	56
54	Gold nanoparticles are suitable cores for building tunable iminosugar multivalency. RSC Advances, 2015, 5, 95817-95822.	3.6	13

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55	New synthesis and biological evaluation of uniflorine A derivatives: towards specific insect trehalase inhibitors. <i>Organic and Biomolecular Chemistry</i> , 2015, 13, 886-892.	2.8	16
56	High-Resolution 3D Direct Laser Writing for Liquid-Crystalline Elastomer Microstructures. <i>Advanced Materials</i> , 2014, 26, 2319-2322.	21.0	165
57	6-Azido hyacinthacine A <sub>2</sub> gives a straightforward access to the first multivalent pyrrolizidine architectures. <i>Organic and Biomolecular Chemistry</i> , 2014, 12, 6250.	2.8	27
58	Stereocomplementary Routes to Hydroxylated Nitrogen Heterocycles: Total Syntheses of Casuarine, Australine, and 7-epi-Australine. <i>Chemistry - A European Journal</i> , 2013, 19, 10595-10604.	3.3	52
59	Synthesis and Glycosidase Inhibition Studies of Methyl-Substituted Tetrahydroxyindolizidines and Pyrrolizidines Related to Natural Hyacinthacines B. <i>European Journal of Organic Chemistry</i> , 2013, 2013, 4047-4056.	2.4	31
60	Synthesis and biological evaluation of nojirimycin- and pyrrolidine-based trehalase inhibitors. <i>Beilstein Journal of Organic Chemistry</i> , 2012, 8, 514-521.	2.2	22
61	Transition metal based catalysts in the aerobic oxidation of alcohols. <i>Green Chemistry</i> , 2012, 14, 547.	9.0	597
62	Total Synthesis of (+)-Hyacinthacine A <sub>1</sub> , (+)-7-epi-Hyacinthacine A <sub>1</sub> , (6 <i>R</i> )-6-Hydroxyhyacinthacine A <sub>1</sub> and (6 <i>S</i> )-6-Hydroxy-7-epi-Hyacinthacine A <sub>1</sub> . <i>European Journal of Organic Chemistry</i> , 2011, 2011, 7155-7162.	2.4	36
63	Synthesis, Biological Evaluation and Docking Studies of Casuarine Analogues: Effects of Structural Modifications at Ring B on Inhibitory Activity Towards Glucoamylase. <i>European Journal of Organic Chemistry</i> , 2010, 2010, 5574-5585.	2.4	47
64	A membrane-bound trehalase from <i>Chironomus riparius</i> larvae: purification and sensitivity to inhibition. <i>Glycobiology</i> , 2010, 20, 1186-1195.	2.5	36
65	Casuarine-6-O- $\beta$ -D-glucoside and its analogues are tight binding inhibitors of insect and bacterial trehalases. <i>Chemical Communications</i> , 2010, 46, 2629.	4.1	40
66	Total Syntheses of Casuarine and Its 6-O- $\beta$ -D-Glucoside: Complementary Inhibition towards Glycoside Hydrolases of the GH31 and GH37 Families. <i>Chemistry - A European Journal</i> , 2009, 15, 1627-1636.	3.3	92
67	Total Synthesis of ( $\beta$ )-Uniflorine A. <i>Journal of Natural Products</i> , 2009, 72, 2058-2060.	3.0	32
68	Nucleophilic Additions to Cyclic Nitrones en Route to Iminocyclitols – Total Syntheses of DMDP, 6-deoxy-DMDP, DAB <sub>1</sub> , CYB <sub>3</sub> , Nectrisine, and Radicamine B. <i>European Journal of Organic Chemistry</i> , 2008, 2008, 2929-2947.	2.4	119