

Gustavo R Plaza

List of Publications by Year in Descending Order

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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.

60
papers

1,756
citations

25
h-index

40
g-index

62
ext. papers

2,042
ext. citations

4.6
avg, IF

4.49
L-index

#	Paper	IF	Citations
60	Basic Principles in the Design of Spider Silk Fibers. <i>Molecules</i> , 2021 , 26,	4.8	3
59	Programmable ROS-Mediated Cancer Therapy via Magneto-Inductions. <i>Advanced Science</i> , 2020 , 7, 1902936	3.6	15
58	Single-cell biophysical study reveals deformability and internal ordering relationship in T cells. <i>Soft Matter</i> , 2020 , 16, 5669-5678	3.6	5
57	Remote Control of Mechanical Forces via Mitochondrial-Targeted Magnetic Nanospinners for Efficient Cancer Treatment. <i>Small</i> , 2020 , 16, e1905424	11	19
56	Soft-Lithography of Polyacrylamide Hydrogels Using Microstructured Templates: Towards Controlled Cell Populations on Biointerfaces. <i>Materials</i> , 2020 , 13,	3.5	4
55	Production of regenerated silkworm silk fibers from aqueous dopes through straining flow spinning. <i>Textile Reseach Journal</i> , 2019 , 89, 4554-4567	1.7	3
54	Comparison of cell mechanical measurements provided by Atomic Force Microscopy (AFM) and Micropipette Aspiration (MPA). <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2019 , 95, 103-115	4.1	10
53	Advances in Micropipette Aspiration: Applications in Cell Biomechanics, Models, and Extended Studies. <i>Biophysical Journal</i> , 2019 , 116, 587-594	2.9	46
52	Comparison of the effects of post-spinning drawing and wet stretching on regenerated silk fibers produced through straining flow spinning. <i>Polymer</i> , 2018 , 150, 311-317	3.9	14
51	Straining Flow Spinning of Artificial Silk Fibers: A Review. <i>Biomimetics</i> , 2018 , 3,	3.7	10
50	Improved Measurement of Elastic Properties of Cells by Micropipette Aspiration and Its Application to Lymphocytes. <i>Annals of Biomedical Engineering</i> , 2017 , 45, 1375-1385	4.7	14
49	Biomimetic spinning of artificial spider silk from a chimeric minispidroin. <i>Nature Chemical Biology</i> , 2017 , 13, 262-264	11.7	143
48	Production of High Performance Bioinspired Silk Fibers by Straining Flow Spinning. <i>Biomacromolecules</i> , 2017 , 18, 1127-1133	6.9	27
47	Cell Mechanosensors and the Possibilities of Using Magnetic Nanoparticles to Study Them and to Modify Cell Fate. <i>Annals of Biomedical Engineering</i> , 2017 , 45, 2475-2486	4.7	7
46	Probing the effect of tip pressure on fungal growth: Application to <i>Aspergillus nidulans</i> . <i>Physical Review E</i> , 2017 , 96, 022402	2.4	4
45	Elongated Nanoparticle Aggregates in Cancer Cells for Mechanical Destruction with Low Frequency Rotating Magnetic Field. <i>Theranostics</i> , 2017 , 7, 1735-1748	12.1	51
44	Straining flow spinning: production of regenerated silk fibers under a wide range of mild coagulating chemistries. <i>Green Chemistry</i> , 2017 , 19, 3380-3389	10	14

43	Material properties of evolutionary diverse spider silks described by variation in a single structural parameter. <i>Scientific Reports</i> , 2016 , 6, 18991	4.9	25
42	The apparent variability of silkworm (<i>Bombyx mori</i>) silk and its relationship with degumming. <i>European Polymer Journal</i> , 2016 , 78, 129-140	5.2	25
41	Study of the influence of actin-binding proteins using linear analyses of cell deformability. <i>Soft Matter</i> , 2015 , 11, 5435-46	3.6	11
40	Topographical and mechanical characterization of living eukaryotic cells on opaque substrates: development of a general procedure and its application to the study of non-adherent lymphocytes. <i>Physical Biology</i> , 2015 , 12, 026005	3	3
39	Mechanical behaviour and formation process of silkworm silk gut. <i>Soft Matter</i> , 2015 , 11, 8981-91	3.6	10
38	Low-Intensity Pulsed Ultrasound Improves the Functional Properties of Cardiac Mesoangioblasts. <i>Stem Cell Reviews and Reports</i> , 2015 , 11, 852-65	6.4	16
37	Ultraviolet-visible optical isolators based on CeF ₃ Faraday rotator. <i>Journal of Applied Physics</i> , 2015 , 117, 233101	2.5	15
36	Persistence and variation in microstructural design during the evolution of spider silk. <i>Scientific Reports</i> , 2015 , 5, 14820	4.9	35
35	Unexpected behavior of irradiated spider silk links conformational freedom to mechanical performance. <i>Soft Matter</i> , 2015 , 11, 4868-78	3.6	13
34	Spider silk gut: development and characterization of a novel strong spider silk fiber. <i>Scientific Reports</i> , 2014 , 4, 7326	4.9	8
33	Structure and properties of spider and silkworm silk for tissue scaffolds 2014 , 239-274		2
32	Insights into the production and characterization of electrospun fibers from regenerated silk fibroin. <i>European Polymer Journal</i> , 2014 , 60, 123-134	5.2	10
31	Simple measurement of the apparent viscosity of a cell from only one picture: Application to cardiac stem cells. <i>Physical Review E</i> , 2014 , 90, 052715	2.4	12
30	Contraction speed of the actomyosin cytoskeleton in the absence of the cell membrane. <i>Soft Matter</i> , 2013 , 9, 4390	3.6	7
29	The variability and interdependence of spider viscid line tensile properties. <i>Journal of Experimental Biology</i> , 2013 , 216, 4722-8	3	6
28	Identification and dynamics of polyglycine II nanocrystals in <i>Argiope trifasciata</i> flagelliform silk. <i>Scientific Reports</i> , 2013 , 3, 3061	4.9	24
27	Relationship between microstructure and mechanical properties in spider silk fibers: identification of two regimes in the microstructural changes. <i>Soft Matter</i> , 2012 , 8, 6015	3.6	71
26	Minor ampullate silks from <i>Nephila</i> and <i>Argiope</i> spiders: tensile properties and microstructural characterization. <i>Biomacromolecules</i> , 2012 , 13, 2087-98	6.9	39

25	Correlation between processing conditions, microstructure and mechanical behavior in regenerated silkworm silk fibers. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2012 , 50, 455-465	2.6	30
24	Sequential origin in the high performance properties of orb spider dragline silk. <i>Scientific Reports</i> , 2012 , 2, 782	4.9	62
23	Bioinspired Fibers Follow the Track of Natural Spider Silk. <i>Macromolecules</i> , 2011 , 44, 1166-1176	5.5	61
22	Polymeric fibers with tunable properties: Lessons from spider silk. <i>Materials Science and Engineering C</i> , 2011 , 31, 1184-1188	8.3	12
21	The hidden link between supercontraction and mechanical behavior of spider silks. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2011 , 4, 658-69	4.1	63
20	Energy distribution in disordered elastic networks. <i>Physical Review E</i> , 2010 , 82, 031902	2.4	4
19	Recovery in viscid line fibers. <i>Biomacromolecules</i> , 2010 , 11, 1174-9	6.9	21
18	Supercontraction of dragline silk spun by lynx spiders (Oxyopidae). <i>International Journal of Biological Macromolecules</i> , 2010 , 46, 555-7	7.9	19
17	Mechanical behavior of silk during the evolution of orb-web spinning spiders. <i>Biomacromolecules</i> , 2009 , 10, 1904-10	6.9	46
16	Old Silks Endowed with New Properties. <i>Macromolecules</i> , 2009 , 42, 8977-8982	5.5	50
15	Supramolecular organization of regenerated silkworm silk fibers. <i>International Journal of Biological Macromolecules</i> , 2009 , 44, 195-202	7.9	19
14	Spider Silk as an Inspiration for Biomimicking. <i>Advances in Science and Technology</i> , 2008 , 58, 1-9	0.1	
13	Effect of water on Bombyx mori regenerated silk fibers and its application in modifying their mechanical properties. <i>Journal of Applied Polymer Science</i> , 2008 , 109, 1793-1801	2.9	55
12	Similarities and Differences in the Supramolecular Organization of Silkworm and Spider Silk. <i>Macromolecules</i> , 2007 , 40, 5360-5365	5.5	44
11	Fracture surfaces and tensile properties of UV-irradiated spider silk fibers. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2007 , 45, 786-793	2.6	15
10	Influence of the draw ratio on the tensile and fracture behavior of NMMO regenerated silk fibers. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2007 , 45, 2568-2579	2.6	43
9	Example of microprocessing in a natural polymeric fiber: Role of reeling stress in spider silk. <i>Journal of Materials Research</i> , 2006 , 21, 1931-1938	2.5	19
8	The influence of anaesthesia on the tensile properties of spider silk. <i>Journal of Experimental Biology</i> , 2006 , 209, 320-6	3	12

7	Volume constancy during stretching of spider silk. <i>Biomacromolecules</i> , 2006 , 7, 2173-7	6.9	74
6	Thermo-hygro-mechanical behavior of spider dragline silk: Glassy and rubbery states. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2006 , 44, 994-999	2.6	76
5	Finding inspiration in argiope trifasciata spider silk fibers. <i>Jom</i> , 2005 , 57, 60-66	2.1	28
4	Stretching of supercontracted fibers: a link between spinning and the variability of spider silk. <i>Journal of Experimental Biology</i> , 2005 , 208, 25-30	3	95
3	The effect of spinning forces on spider silk properties. <i>Journal of Experimental Biology</i> , 2005 , 208, 2633-9		69
2	Recovery in spider silk fibers. <i>Journal of Applied Polymer Science</i> , 2004 , 92, 3537-3541	2.9	52
1	Self-tightening of spider silk fibers induced by moisture. <i>Polymer</i> , 2003 , 44, 5785-5788	3.9	65