

Jos Prez-Rigueiro

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.

94
papers

2,750
citations

30
h-index

49
g-index

98
ext. papers

3,072
ext. citations

4.7
avg, IF

4.78
L-index

#	Paper	IF	Citations
94	Basic Principles in the Design of Spider Silk Fibers. <i>Molecules</i> , 2021 , 26,	4.8	3
93	Silk Fibroin: An Ancient Material for Repairing the Injured Nervous System. <i>Pharmaceutics</i> , 2021 , 13,	6.4	4
92	Improved cell adhesion to activated vapor silanization-biofunctionalized Ti-6Al-4V surfaces with ECM-derived oligopeptides.. <i>Materials Science and Engineering C</i> , 2021 , 112614	8.3	0
91	Biomaterials to Neuroprotect the Stroke Brain: A Large Opportunity for Narrow Time Windows. <i>Cells</i> , 2020 , 9,	7.9	18
90	Lessons From Spider and Silkworm Silk Guts. <i>Frontiers in Materials</i> , 2020 , 7,	4	1
89	Structure-Function Relationship of Artificial Spider Silk Fibers Produced by Straining Flow Spinning. <i>Biomacromolecules</i> , 2020 , 21, 2116-2124	6.9	16
88	Conduits based on the combination of hyaluronic acid and silk fibroin: Characterization, in vitro studies and in vivo biocompatibility. <i>International Journal of Biological Macromolecules</i> , 2020 , 148, 378-390	7.9	10
87	Mechanical and structural adaptations to migration in the flight feathers of a Palaearctic passerine. <i>Journal of Evolutionary Biology</i> , 2020 , 33, 979-989	2.3	1
86	First steps for the development of silk fibroin-based 3D biohybrid retina for age-related macular degeneration (AMD). <i>Journal of Neural Engineering</i> , 2020 , 17, 055003	5	2
85	Biomimetic Approaches for Separated Regeneration of Sensory and Motor Fibers in Amputee People: Necessary Conditions for Functional Integration of Sensory-Motor Prosthesis With the Peripheral Nerves. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020 , 8, 584823	5.8	1
84	Application of the Spider Silk Standardization Initiative (SI) methodology to the characterization of major ampullate gland silk fibers spun by spiders from Pantanos de Villa wetlands (Lima, Peru). <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2020 , 111, 104023	4.1	4
83	Regenerated Silk Fibers Obtained by Straining Flow Spinning for Guiding Axonal Elongation in Primary Cortical Neurons. <i>ACS Biomaterials Science and Engineering</i> , 2020 , 6, 6842-6852	5.5	2
82	Biotechnology and Biomaterial-Based Therapeutic Strategies for Age-Related Macular Degeneration. Part II: Cell and Tissue Engineering Therapies. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020 , 8, 588014	5.8	5
81	Potential use of silkworm gut fiber braids as scaffolds for tendon and ligament tissue engineering. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2019 , 107, 2209-2215	3.5	11
80	Evaluation of Neurosecretome from Mesenchymal Stem Cells Encapsulated in Silk Fibroin Hydrogels. <i>Scientific Reports</i> , 2019 , 9, 8801	4.9	18
79	Production of regenerated silkworm silk fibers from aqueous dopes through straining flow spinning. <i>Textile Research Journal</i> , 2019 , 89, 4554-4567	1.7	3
78	Functionalization of atomic force microscopy cantilevers and tips by activated vapour silanization. <i>Applied Surface Science</i> , 2019 , 484, 1141-1148	6.7	3

77	Preparation and characterization of Nephila clavipes tubuliform silk gut. <i>Soft Matter</i> , 2019 , 15, 2960-2970	4.6	5
76	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
75	Emergence of supercontraction in regenerated silkworm (<i>Bombyx mori</i>) silk fibers. <i>Scientific Reports</i> , 2019 , 9, 2398	4.9	11
74	Enhanced Biological Response of AVS-Functionalized Ti-6Al-4V Alloy through Covalent Immobilization of Collagen. <i>Scientific Reports</i> , 2018 , 8, 3337	4.9	11
73	Hydrogels-Assisted Cell Engraftment for Repairing the Stroke-Damaged Brain: Chimera or Reality. <i>Polymers</i> , 2018 , 10,	4.5	22
72	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
71	Straining Flow Spinning of Artificial Silk Fibers: A Review. <i>Biomimetics</i> , 2018 , 3,	3.7	10
70	Cortical Reshaping and Functional Recovery Induced by Silk Fibroin Hydrogels-Encapsulated Stem Cells Implanted in Stroke Animals. <i>Frontiers in Cellular Neuroscience</i> , 2018 , 12, 296	6.1	22
69	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
68	Production of High Performance Bioinspired Silk Fibers by Straining Flow Spinning. <i>Biomacromolecules</i> , 2017 , 18, 1127-1133	6.9	27
67	Stability and activity of lactate dehydrogenase on biofunctional layers deposited by activated vapor silanization (AVS) and immersion silanization (IS). <i>Applied Surface Science</i> , 2017 , 416, 965-970	6.7	6
66	Straining flow spinning: Simplified model of a bioinspired process to mass produce regenerated silk fibers controllably. <i>European Polymer Journal</i> , 2017 , 97, 26-39	5.2	7
65	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
64	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
63	Development of a versatile procedure for the biofunctionalization of Ti-6Al-4V implants. <i>Applied Surface Science</i> , 2016 , 387, 652-660	6.7	4
62	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
61	Safety and tolerability of silk fibroin hydrogels implanted into the mouse brain. <i>Acta Biomaterialia</i> , 2016 , 45, 262-275	10.8	63
60	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

59	Mechanical behaviour and formation process of silkworm silk gut. <i>Soft Matter</i> , 2015 , 11, 8981-91	3.6	10
58	Unexpected behavior of irradiated spider silk links conformational freedom to mechanical performance. <i>Soft Matter</i> , 2015 , 11, 4868-78	3.6	13
57	Spider silk gut: development and characterization of a novel strong spider silk fiber. <i>Scientific Reports</i> , 2014 , 4, 7326	4.9	8
56	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
55	Optimization of functionalization conditions for protein analysis by AFM. <i>Applied Surface Science</i> , 2014 , 317, 462-468	6.7	8
54	The variability and interdependence of spider viscid line tensile properties. <i>Journal of Experimental Biology</i> , 2013 , 216, 4722-8	3	6
53	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
52	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
51	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
50	Sequential origin in the high performance properties of orb spider dragline silk. <i>Scientific Reports</i> , 2012 , 2, 782	4.9	62
49	Bioinspired Fibers Follow the Track of Natural Spider Silk. <i>Macromolecules</i> , 2011 , 44, 1166-1176	5.5	61
48	Polymeric fibers with tunable properties: Lessons from spider silk. <i>Materials Science and Engineering C</i> , 2011 , 31, 1184-1188	8.3	12
47	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
46	Recovery in viscid line fibers. <i>Biomacromolecules</i> , 2010 , 11, 1174-9	6.9	21
45	Supercontraction of dragline silk spun by lynx spiders (Oxyopidae). <i>International Journal of Biological Macromolecules</i> , 2010 , 46, 555-7	7.9	19
44	Mechanical behavior of silk during the evolution of orb-web spinning spiders. <i>Biomacromolecules</i> , 2009 , 10, 1904-10	6.9	46
43	Old Silks Endowed with New Properties. <i>Macromolecules</i> , 2009 , 42, 8977-8982	5.5	50
42	Supramolecular organization of regenerated silkworm silk fibers. <i>International Journal of Biological Macromolecules</i> , 2009 , 44, 195-202	7.9	19

41	Spider Silk as an Inspiration for Biomimicking. <i>Advances in Science and Technology</i> , 2008 , 58, 1-9	0.1	
40	Characterization of biofunctional thin films deposited by activated vapor silanization. <i>Journal of Materials Research</i> , 2008 , 23, 1931-1939	2.5	12
39	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
38	Similarities and Differences in the Supramolecular Organization of Silkworm and Spider Silk. <i>Macromolecules</i> , 2007 , 40, 5360-5365	5.5	44
37	Bioactivity test for amine-based functionalized meso- and macro-porous silicon substrates. <i>Materials Science and Engineering C</i> , 2007 , 27, 1211-1214	8.3	9
36	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
35	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
34	Formation of amine functionalized films by chemical vapour deposition. <i>Materials Science and Engineering C</i> , 2006 , 26, 938-941	8.3	18
33	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
32	The influence of anaesthesia on the tensile properties of spider silk. <i>Journal of Experimental Biology</i> , 2006 , 209, 320-6	3	12
31	Volume constancy during stretching of spider silk. <i>Biomacromolecules</i> , 2006 , 7, 2173-7	6.9	74
30	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
29	Reproducibility of the tensile properties of spider (<i>Argiope trifasciata</i>) silk obtained by forced silking. <i>Journal of Experimental Zoology Part A, Comparative Experimental Biology</i> , 2005 , 303, 37-44		29
28	Finding inspiration in argiope trifasciata spider silk fibers. <i>Jom</i> , 2005 , 57, 60-66	2.1	28
27	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
26	The effect of spinning forces on spider silk properties. <i>Journal of Experimental Biology</i> , 2005 , 208, 2633-9		69
25	Reproducibility of the tensile properties of spider (<i>Argiope trifasciata</i>) silk obtained by forced silking 2005 , 303A, 37		1
24	Surface biofunctionalization of materials by amine groups. <i>Journal of Materials Research</i> , 2004 , 19, 2415-2420		26

23	Porous silicon multilayer stacks for optical biosensing applications. <i>Microelectronics Journal</i> , 2004 , 35, 45-48	1.8	24
22	Recovery in spider silk fibers. <i>Journal of Applied Polymer Science</i> , 2004 , 92, 3537-3541	2.9	52
21	Biofunctionalization of surfaces of nanostructured porous silicon. <i>Materials Science and Engineering C</i> , 2003 , 23, 697-701	8.3	54
20	Controlled supercontraction tailors the tensile behaviour of spider silk. <i>Polymer</i> , 2003 , 44, 3733-3736	3.9	93
19	Self-tightening of spider silk fibers induced by moisture. <i>Polymer</i> , 2003 , 44, 5785-5788	3.9	65
18	Effect of degumming on the tensile properties of silkworm (<i>Bombyx mori</i>) silk fiber. <i>Journal of Applied Polymer Science</i> , 2002 , 84, 1431-1437	2.9	91
17	Testing biomaterials by the in-situ evaluation of cell response. <i>New Biotechnology</i> , 2002 , 19, 239-42		17
16	Surface functionalisation by the condensation of hybrid titanate- β -amino sols. <i>Thin Solid Films</i> , 2002 , 415, 253-257	2.2	8
15	Active control of spider silk strength: comparison of drag line spun on vertical and horizontal surfaces. <i>Polymer</i> , 2002 , 43, 1537-1540	3.9	70
14	The variability and interdependence of spider drag line tensile properties. <i>Polymer</i> , 2002 , 43, 4495-4502	3.9	52
13	Mechanical and in vitro testing of aerosol-gel deposited titania coatings for biocompatible applications. <i>Biomaterials</i> , 2002 , 23, 349-56	15.6	32
12	Fractographic analysis of silkworm and spider silk. <i>Engineering Fracture Mechanics</i> , 2002 , 69, 1035-1048	4.2	91
11	Development of human mesenchymal stem cells on DC sputtered titanium nitride thin films. <i>Journal of Materials Science: Materials in Medicine</i> , 2002 , 13, 289-93	4.5	16
10	Tensile properties of <i>Attacus atlas</i> silk submerged in liquid media. <i>Journal of Applied Polymer Science</i> , 2001 , 82, 53-62	2.9	13
9	Tensile properties of silkworm silk obtained by forced silking. <i>Journal of Applied Polymer Science</i> , 2001 , 82, 1928-1935	2.9	65
8	Mechanical properties of single-brin silkworm silk. <i>Journal of Applied Polymer Science</i> , 2000 , 75, 1270-1279	2.9	188
7	Mechanical properties of silkworm silk in liquid media. <i>Polymer</i> , 2000 , 41, 8433-8439	3.9	112
6	Study of carrier transport in metal/porous silicon/Si structures. <i>Journal of Applied Physics</i> , 1999 , 86, 6911-6914	12.6	31

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| 5 | Ageing of aluminum electrical contacts to porous silicon. <i>Journal of Applied Physics</i> , 1999 , 85, 583-586 | 2.5 | 25 |
| 4 | Revisiting the mechanical behavior of alumina/silicon carbide nanocomposites. <i>Acta Materialia</i> , 1998 , 46, 5399-5411 | 8.4 | 68 |
| 3 | Silicidation process of Ti/TiN _x /Si structures. <i>Journal of Applied Physics</i> , 1997 , 81, 781-785 | 2.5 | 5 |
| 2 | Nitridation of TiSi ₂ thin films by rapid thermal processing. <i>Surface and Coatings Technology</i> , 1996 , 80, 72-75 | 4.4 | 4 |
| 1 | Preparation of Si ⁺ TiSi ₂ Schottky diodes by rapid thermal annealing. <i>Thin Solid Films</i> , 1994 , 246, 172-176 | 2.2 | 6 |