

Fiorenzo G Omenetto

List of Publications by Citations

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171
papers

18,288
citations

63
h-index

134
g-index

190
ext. papers

20,872
ext. citations

13
avg, IF

6.72
L-index

#	Paper	IF	Citations
171	Epidermal electronics. <i>Science</i> , 2011 , 333, 838-43	33.3	3216
170	Dissolvable films of silk fibroin for ultrathin conformal bio-integrated electronics. <i>Nature Materials</i> , 2010 , 9, 511-7	27	1239
169	New opportunities for an ancient material. <i>Science</i> , 2010 , 329, 528-31	33.3	1016
168	A physically transient form of silicon electronics. <i>Science</i> , 2012 , 337, 1640-4	33.3	862
167	Injectable, cellular-scale optoelectronics with applications for wireless optogenetics. <i>Science</i> , 2013 , 340, 211-6	33.3	832
166	Graphene-based wireless bacteria detection on tooth enamel. <i>Nature Communications</i> , 2012 , 3, 763	17.4	657
165	Silk materials--a road to sustainable high technology. <i>Advanced Materials</i> , 2012 , 24, 2824-37	24	380
164	Silk film biomaterials for cornea tissue engineering. <i>Biomaterials</i> , 2009 , 30, 1299-308	15.6	329
163	In vivo bioresponses to silk proteins. <i>Biomaterials</i> , 2015 , 71, 145-157	15.6	269
162	Silk-based conformal, adhesive, edible food sensors. <i>Advanced Materials</i> , 2012 , 24, 1067-72	24	266
161	Highly tunable elastomeric silk biomaterials. <i>Advanced Functional Materials</i> , 2014 , 24, 4615-4624	15.6	265
160	Biocompatible Silk Printed Optical Waveguides. <i>Advanced Materials</i> , 2009 , 21, 2411-2415	24	260
159	Bioactive silk protein biomaterial systems for optical devices. <i>Biomacromolecules</i> , 2008 , 9, 1214-20	6.9	248
158	Effect of processing on silk-based biomaterials: reproducibility and biocompatibility. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2011 , 99, 89-101	3.5	227
157	Silk-based resorbable electronic devices for remotely controlled therapy and in vivo infection abatement. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 17385-9	11.5	223
156	Silkworm silk-based materials and devices generated using bio-nanotechnology. <i>Chemical Society Reviews</i> , 2018 , 47, 6486-6504	58.5	206
155	Bioengineered functional brain-like cortical tissue. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 13811-6	11.5	203

154	All-water-based electron-beam lithography using silk as a resist. <i>Nature Nanotechnology</i> , 2014 , 9, 306-1028.7	195
153	Fabrication of Silk Microneedles for Controlled-Release Drug Delivery. <i>Advanced Functional Materials</i> , 2012 , 22, 330-335	15.6 195
152	Materials and Fabrication Processes for Transient and Bioresorbable High-Performance Electronics. <i>Advanced Functional Materials</i> , 2013 , 23, 4087-4093	15.6 191
151	Evolution of Bioinks and Additive Manufacturing Technologies for 3D Bioprinting. <i>ACS Biomaterials Science and Engineering</i> , 2016 , 2, 1662-1678	5.5 187
150	Silk inverse opals. <i>Nature Photonics</i> , 2012 , 6, 818-823	33.9 181
149	Nano- and Micropatterning of Optically Transparent, Mechanically Robust, Biocompatible Silk Fibroin Films. <i>Advanced Materials</i> , 2008 , 20, 3070-3072	24 161
148	Insoluble and flexible silk films containing glycerol. <i>Biomacromolecules</i> , 2010 , 11, 143-50	6.9 155
147	Bio-microfluidics: biomaterials and biomimetic designs. <i>Advanced Materials</i> , 2010 , 22, 249-60	24 154
146	Processing methods to control silk fibroin film biomaterial features. <i>Journal of Materials Science</i> , 2008 , 43, 6967-6985	4.3 144
145	Inkjet Printing of Regenerated Silk Fibroin: From Printable Forms to Printable Functions. <i>Advanced Materials</i> , 2015 , 27, 4273-9	24 143
144	Fabrication and application of flexible, multimodal light-emitting devices for wireless optogenetics. <i>Nature Protocols</i> , 2013 , 8, 2413-2428	18.8 142
143	Stabilization of enzymes in silk films. <i>Biomacromolecules</i> , 2009 , 10, 1032-42	6.9 140
142	Silk based bioinks for soft tissue reconstruction using 3-dimensional (3D) printing with in vitro and in vivo assessments. <i>Biomaterials</i> , 2017 , 117, 105-115	15.6 139
141	Antibiotic-Releasing Silk Biomaterials for Infection Prevention and Treatment. <i>Advanced Functional Materials</i> , 2013 , 23, 854-861	15.6 137
140	25th anniversary article: materials for high-performance biodegradable semiconductor devices. <i>Advanced Materials</i> , 2014 , 26, 1992-2000	24 130
139	Review physical and chemical aspects of stabilization of compounds in silk. <i>Biopolymers</i> , 2012 , 97, 479-98.2	120
138	Performance enhancement of terahertz metamaterials on ultrathin substrates for sensing applications. <i>Applied Physics Letters</i> , 2010 , 97, 261909	3.4 119
137	Rapid nanoimprinting of silk fibroin films for biophotonic applications. <i>Advanced Materials</i> , 2010 , 22, 1746-9	24 119

136	Silk Fibroin as Edible Coating for Perishable Food Preservation. <i>Scientific Reports</i> , 2016 , 6, 25263	4.9	117
135	Stabilization and release of enzymes from silk films. <i>Macromolecular Bioscience</i> , 2010 , 10, 359-68	5.5	112
134	Directed assembly of bio-inspired hierarchical materials with controlled nanofibrillar architectures. <i>Nature Nanotechnology</i> , 2017 , 12, 474-480	28.7	111
133	Laser-based three-dimensional multiscale micropatterning of biocompatible hydrogels for customized tissue engineering scaffolds. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 12052-7	11.5	104
132	Functional, RF-Trilayer Sensors for Tooth-Mounted, Wireless Monitoring of the Oral Cavity and Food Consumption. <i>Advanced Materials</i> , 2018 , 30, e1703257	24	98
131	Implantable, multifunctional, bioresorbable optics. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 19584-9	11.5	97
130	Silk as a Multifunctional Biomaterial Substrate for Reduced Glial Scarring around Brain-Penetrating Electrodes. <i>Advanced Functional Materials</i> , 2013 , 23, 3185-3193	15.6	91
129	Design, Fabrication, and Function of Silk-Based Nanomaterials. <i>Advanced Functional Materials</i> , 2018 , 28, 1805305	15.6	90
128	High-Strength, Durable All-Silk Fibroin Hydrogels with Versatile Processability toward Multifunctional Applications. <i>Advanced Functional Materials</i> , 2018 , 28, 1704757	15.6	89
127	Metamaterial silk composites at terahertz frequencies. <i>Advanced Materials</i> , 2010 , 22, 3527-31	24	89
126	Photocrosslinking of Silk Fibroin Using Riboflavin for Ocular Prostheses. <i>Advanced Materials</i> , 2016 , 28, 2417-20	24	88
125	A Biodegradable Thin-Film Magnesium Primary Battery Using Silk Fibroin Ionic Liquid Polymer Electrolyte. <i>ACS Energy Letters</i> , 2017 , 2, 831-836	20.1	87
124	Silk-based stabilization of biomacromolecules. <i>Journal of Controlled Release</i> , 2015 , 219, 416-430	11.7	86
123	The Use of Functionalized Silk Fibroin Films as a Platform for Optical Diffraction-Based Sensing Applications. <i>Advanced Materials</i> , 2017 , 29, 1605471	24	85
122	Printing of stretchable silk membranes for strain measurements. <i>Lab on A Chip</i> , 2016 , 16, 2459-66	7.2	80
121	Biopatterning: Precise Protein Photolithography (P3): High Performance Biopatterning Using Silk Fibroin Light Chain as the Resist (Adv. Sci. 9/2017). <i>Advanced Science</i> , 2017 , 4,	13.6	78
120	Dityrosine Cross-Linking in Designing Biomaterials. <i>ACS Biomaterials Science and Engineering</i> , 2016 , 2, 2108-2121	5.5	74
119	In vitro bioengineered model of cortical brain tissue. <i>Nature Protocols</i> , 2015 , 10, 1362-73	18.8	71

118	Programmable Hydrogel Ionic Circuits for Biologically Matched Electronic Interfaces. <i>Advanced Materials</i> , 2018 , 30, e1800598	24	71
117	Modulation of Multiscale 3D Lattices through Conformational Control: Painting Silk Inverse Opals with Water and Light. <i>Advanced Materials</i> , 2017 , 29, 1702769	24	71
116	Biocompatible silk step-index optical waveguides. <i>Biomedical Optics Express</i> , 2015 , 6, 4221-7	3.5	71
115	Bio-functionalized silk hydrogel microfluidic systems. <i>Biomaterials</i> , 2016 , 93, 60-70	15.6	70
114	Polyol-Silk Bioink Formulations as Two-Part Room-Temperature Curable Materials for 3D Printing. <i>ACS Biomaterials Science and Engineering</i> , 2015 , 1, 780-788	5.5	68
113	Protein-protein nanoimprinting of silk fibroin films. <i>Advanced Materials</i> , 2013 , 25, 2409-14	24	67
112	Materials for programmed, functional transformation in transient electronic systems. <i>Advanced Materials</i> , 2015 , 27, 47-52	24	66
111	Silk-Based Biocompatible Random Lasing. <i>Advanced Optical Materials</i> , 2016 , 4, 998-1003	8.1	66
110	Low-threshold blue lasing from silk fibroin thin films. <i>Applied Physics Letters</i> , 2012 , 101, 091110	3.4	66
109	An Analytical Model of Reactive Diffusion for Transient Electronics. <i>Advanced Functional Materials</i> , 2013 , 23, 3106-3114	15.6	63
108	Synthesis of silk fibroin micro- and submicron spheres using a co-flow capillary device. <i>Advanced Materials</i> , 2014 , 26, 1105-10	24	62
107	Silk-based blood stabilization for diagnostics. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 5892-7	11.5	60
106	Programming function into mechanical forms by directed assembly of silk bulk materials. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 451-456	11.5	58
105	Modulated Degradation of Transient Electronic Devices through Multilayer Silk Fibroin Pockets. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 19870-5	9.5	57
104	Nanoscale probing of electron-regulated structural transitions in silk proteins by near-field IR imaging and nano-spectroscopy. <i>Nature Communications</i> , 2016 , 7, 13079	17.4	54
103	3D freeform printing of silk fibroin. <i>Acta Biomaterialia</i> , 2018 , 71, 379-387	10.8	51
102	Transdermal delivery devices: fabrication, mechanics and drug release from silk. <i>Small</i> , 2013 , 9, 3704-13	11	51
101	Functionalized-Silk-Based Active Optofluidic Devices. <i>Advanced Functional Materials</i> , 2010 , 20, 1083-1089	5.6	51

100	Tuning chemical and physical cross-links in silk electrogels for morphological analysis and mechanical reinforcement. <i>Biomacromolecules</i> , 2013 , 14, 2629-35	6.9	48
99	Spectral analysis of induced color change on periodically nanopatterned silk films. <i>Optics Express</i> , 2009 , 17, 21271-9	3.3	48
98	Inkjet Printing of Patterned, Multispectral, and Biocompatible Photonic Crystals. <i>Advanced Materials</i> , 2019 , 31, e1901036	24	45
97	Biofunctional Silk/Neuron Interfaces. <i>Advanced Functional Materials</i> , 2012 , 22, 1871-1884	15.6	45
96	Rapid nanoimprinting of doped silk films for enhanced fluorescent emission. <i>Advanced Materials</i> , 2010 , 22, 4596-9	24	45
95	3D Functional Corneal Stromal Tissue Equivalent Based on Corneal Stromal Stem Cells and Multi-Layered Silk Film Architecture. <i>PLoS ONE</i> , 2017 , 12, e0169504	3.7	45
94	Film-based Implants for Supporting Neuron-Electrode Integrated Interfaces for The Brain. <i>Advanced Functional Materials</i> , 2014 , 24, 1938-1948	15.6	44
93	Flexible magnetic composites for light-controlled actuation and interfaces. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 8119-8124	11.5	43
92	Spatial and spectral detection of protein monolayers with deterministic aperiodic arrays of metal nanoparticles. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 12086-90	11.5	43
91	Rapid transfer-based micropatterning and dry etching of silk microstructures. <i>Advanced Materials</i> , 2011 , 23, 2015-9	24	42
90	Bioinspired stimuli-responsive multilayer film made of silk/titanate nanocomposites. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 3924-3931	7.1	41
89	Regenerated silk materials for functionalized silk orthopedic devices by mimicking natural processing. <i>Biomaterials</i> , 2016 , 110, 24-33	15.6	40
88	Bioactive "self-sensing" optical systems. <i>Applied Physics Letters</i> , 2009 , 95, 253702	3.4	40
87	Transparent, Nanostructured Silk Fibroin Hydrogels with Tunable Mechanical Properties. <i>ACS Biomaterials Science and Engineering</i> , 2015 , 1, 964-970	5.5	39
86	Direct transfer of subwavelength plasmonic nanostructures on bioactive silk films. <i>Advanced Materials</i> , 2012 , 24, 6088-93	24	39
85	Controlling silk fibroin conformation for dynamic, responsive, multifunctional, micropatterned surfaces. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 21361-21368	11.5	38
84	Recombinant reflectin-based optical materials. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2013 , 51, 254-264	2.6	38
83	High-Q silk fibroin whispering gallery microresonator. <i>Optics Express</i> , 2016 , 24, 20825-30	3.3	38

82	Silk Fibroin Microneedles for Transdermal Vaccine Delivery. <i>ACS Biomaterials Science and Engineering</i> , 2017 , 3, 360-369	5.5	35
81	The optical properties of regenerated silk fibroin films obtained from different sources. <i>Applied Physics Letters</i> , 2017 , 111, 103702	3.4	35
80	Protein Bricks: 2D and 3D Bio-Nanostructures with Shape and Function on Demand. <i>Advanced Materials</i> , 2018 , 30, e1705919	24	34
79	Eco-friendly photolithography using water-developable pure silk fibroin. <i>RSC Advances</i> , 2016 , 6, 39330-39334	3.3	33
78	3D Printing of Regenerated Silk Fibroin and Antibody-Containing Microstructures via Multiphoton Lithography. <i>ACS Biomaterials Science and Engineering</i> , 2017 , 3, 2064-2075	5.5	32
77	Hydrogel Gate Graphene Field-Effect Transistors as Multiplexed Biosensors. <i>Nano Letters</i> , 2019 , 19, 2620-2623	2.6	30
76	Stimuli-responsive composite biopolymer actuators with selective spatial deformation behavior. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 14602-14608	11.5	29
75	Evaluation of the Spectral Response of Functionalized Silk Inverse Opals as Colorimetric Immunosensors. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 16218-26	9.5	29
74	Doxorubicin loaded nanodiamond-silk spheres for fluorescence tracking and controlled drug release. <i>Biomedical Optics Express</i> , 2016 , 7, 132-47	3.5	29
73	Fluorescent Nanodiamond Silk Fibroin Spheres: Advanced Nanoscale Bioimaging Tool. <i>ACS Biomaterials Science and Engineering</i> , 2015 , 1, 1104-1113	5.5	28
72	Coding cell micropatterns through peptide inkjet printing for arbitrary biomineralized architectures. <i>Advanced Functional Materials</i> , 2018 , 28, 1800228	15.6	28
71	Silk protein based hybrid photonic-plasmonic crystal. <i>Optics Express</i> , 2013 , 21, 8897-903	3.3	28
70	Biomaterial-Based "Structured Opals" with Programmable Combination of Diffractive Optical Elements and Photonic Bandgap Effects. <i>Advanced Materials</i> , 2019 , 31, e1805312	24	26
69	Fabrication of Tunable, High-Refractive-Index Titanate-Silk Nanocomposites on the Micro- and Nanoscale. <i>Advanced Materials</i> , 2015 , 27, 6728-32	24	24
68	Materials and fabrication sequences for water soluble silicon integrated circuits at the 90 nm node. <i>Applied Physics Letters</i> , 2015 , 106, 014105	3.4	24
67	Bioinspired Biomaterial Composite for All-Water-Based High-Performance Adhesives. <i>Advanced Science</i> , 2021 , 8, e2004786	13.6	23
66	Methods and Applications of Multilayer Silk Fibroin Laminates Based on Spatially Controlled Welding in Protein Films. <i>Advanced Functional Materials</i> , 2016 , 26, 44-50	15.6	22
65	3D Printing of Silk Protein Structures by Aqueous Solvent-Directed Molecular Assembly. <i>Macromolecular Bioscience</i> , 2020 , 20, e1900191	5.5	22

64	Large-Scale Patterning of Reactive Surfaces for Wearable and Environmentally Deployable Sensors. <i>Advanced Materials</i> , 2020 , 32, e2001258	24	21
63	Gold nanoparticle-doped biocompatible silk films as a path to implantable thermo-electrically wireless powering devices. <i>Applied Physics Letters</i> , 2010 , 97, 123702	3.4	21
62	Cashmere-derived keratin for device manufacturing on the micro- and nanoscale. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 2783-2787	7.1	20
61	Optimizing Molecular Weight of Lyophilized Silk As a Shelf-Stable Source Material. <i>ACS Biomaterials Science and Engineering</i> , 2016 , 2, 595-605	5.5	20
60	Dielectric breakdown strength of regenerated silk fibroin films as a function of protein conformation. <i>Biomacromolecules</i> , 2013 , 14, 3509-14	6.9	20
59	Gain-Based Mechanism for pH Sensing Based on Random Lasing. <i>Physical Review Applied</i> , 2017 , 7,	4.3	19
58	Rapid fabrication of silk films with controlled architectures via electrogelation. <i>Journal of Materials Chemistry B</i> , 2014 , 2, 4983-4987	7.3	18
57	Synthesis and characterization of biocompatible nanodiamond-silk hybrid material. <i>Biomedical Optics Express</i> , 2014 , 5, 596-608	3.5	18
56	Optically induced birefringence and holography in silk. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2012 , 50, 257-262	2.6	18
55	3D Printing of Functional Microalgal Silk Structures for Environmental Applications. <i>ACS Biomaterials Science and Engineering</i> , 2019 , 5, 4808-4816	5.5	17
54	Enhanced photoluminescence of Si nanocrystals-doped cellulose nanofibers by plasmonic light scattering. <i>Applied Physics Letters</i> , 2015 , 107, 041111	3.4	17
53	Designing the Iridescences of Biopolymers by Assembly of Photonic Crystal Superlattices. <i>Advanced Optical Materials</i> , 2018 , 6, 1800066	8.1	14
52	Encapsulation of Volatile Compounds in Silk Microparticles 2015 , 12, 793-799		14
51	Conformal Silk-Azobenzene Composite for Optically Switchable Diffractive Structures. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 30951-30957	9.5	13
50	Evaluation of Silk Inverse Opals for "Smart" Tissue Culture. <i>ACS Omega</i> , 2017 , 2, 470-477	3.9	12
49	Silk fibroin hydroxyapatite composite thermal stabilisation of carbonic anhydrase. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 19282-19287	13	12
48	Encapsulation of oil in silk fibroin biomaterials. <i>Journal of Applied Polymer Science</i> , 2014 , 131, n/a-n/a	2.9	12
47	Stabilization of RNA Encapsulated in Silk. <i>ACS Biomaterials Science and Engineering</i> , 2018 , 4, 1708-1715	5.5	11

46	Silk Fibroin-Carbon Nanotube Composite Electrodes for Flexible Biocatalytic Fuel Cells. <i>Advanced Electronic Materials</i> , 2016 , 2, 1600190	6.4	11
45	Enhanced Stabilization in Dried Silk Fibroin Matrices. <i>Biomacromolecules</i> , 2017 , 18, 2900-2905	6.9	11
44	Light-activated shape morphing and light-tracking materials using biopolymer-based programmable photonic nanostructures. <i>Nature Communications</i> , 2021 , 12, 1651	17.4	11
43	Fabrication of elastomeric silk fibers. <i>Biopolymers</i> , 2017 , 107, e23030	2.2	10
42	Photo-induced structural modification of silk gels containing azobenzene side groups. <i>Soft Matter</i> , 2017 , 13, 2903-2906	3.6	10
41	Palladium Supported on Silk Fibroin for Suzuki-Miyaura Cross-Coupling Reactions. <i>European Journal of Organic Chemistry</i> , 2020 , 2020, 6992-6996	3.2	10
40	Reconfigurable microwave metadevices based on organic electrochemical transistors. <i>Nature Electronics</i> , 2021 , 4, 424-428	28.4	10
39	Silk Embolic Material for Catheter-Directed Endovascular Drug Delivery. <i>Advanced Materials</i> , 2021 , e2106665	16.5	9
38	Optomechanically Actuated Microcilia for Locally Reconfigurable Surfaces. <i>Advanced Materials</i> , 2020 , 32, e2004147	24	9
37	Photonic paper: Multiscale assembly of reflective cellulose sheets in. <i>Science Advances</i> , 2020 , 6,	14.3	8
36	Direct Transfer Printing of Water Hydrolyzable Metals onto Silk Fibroin Substrates through Thermal-Reflow-Based Adhesion. <i>Advanced Materials Interfaces</i> , 2016 , 3, 1600094	4.6	8
35	Functionalized Mouth-Conformable Interfaces for pH Evaluation of the Oral Cavity. <i>Advanced Science</i> , 2021 , 8, e2003416	13.6	8
34	Silk: A Different Kind of Fiber Optics. <i>Optics and Photonics News</i> , 2014 , 25, 28	1.9	7
33	Active optics with silk. <i>Nanophotonics</i> , 2020 , 10, 137-148	6.3	7
32	Silk materials at the convergence of science, sustainability, healthcare, and technology. <i>Applied Physics Reviews</i> , 2022 , 9, 011302	17.3	7
31	Engineering optical defects in biopolymer photonic lattices. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 966-971	7.1	6
30	SnapShot: Silk biomaterials. <i>Biomaterials</i> , 2010 , 31, 6119-20	15.6	6
29	Towards the fabrication of biohybrid silk fibroin materials: entrapment and preservation of chloroplast organelles in silk fibroin films. <i>RSC Advances</i> , 2016 , 6, 72366-72370	3.7	6

28	Cutting the Cord: Progress in Untethered Soft Robotics and Actuators. <i>MRS Advances</i> , 2019 , 4, 2787-2804.	4.7	6
27	Towards an Integrated Optofluidic Diffractive Spectrometer. <i>IEEE Photonics Technology Letters</i> , 2007 , 19, 1976-1978	2.2	5
26	Silk Fibroin: Photocrosslinking of Silk Fibroin Using Riboflavin for Ocular Prostheses (Adv. Mater. 12/2016). <i>Advanced Materials</i> , 2016 , 28, 2464-2464	24	5
25	Silk Fibroin Processing from CeCl ₃ Aqueous Solution: Fibers Regeneration and Doping with Ce(III). <i>Macromolecular Chemistry and Physics</i> , 2020 , 221, 2000066	2.6	4
24	Three-dimensional thermal analysis of wirelessly powered light-emitting systems. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2012 , 468, 4088-4097	2.4	4
23	Inkjet-printed lasing silk text on reusable distributed feedback boards. <i>Optical Materials Express</i> , 2020 , 10, 818	2.6	4
22	Proton conduction in inkjet-printed reflectin films. <i>APL Materials</i> , 2020 , 8, 101113	5.7	4
21	Stabilization of Salivary Biomarkers. <i>ACS Biomaterials Science and Engineering</i> , 2021 ,	5.5	3
20	Silk Fibroin Regeneration in Solution of Lanthanide Ions: A Systematic Investigation. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021 , 9, 653033	5.8	3
19	Transient Electronics: Materials for Programmed, Functional Transformation in Transient Electronic Systems (Adv. Mater. 1/2015). <i>Advanced Materials</i> , 2015 , 27, 187-187	24	2
18	Bio-Nanostructures: Protein Bricks: 2D and 3D Bio-Nanostructures with Shape and Function on Demand (Adv. Mater. 20/2018). <i>Advanced Materials</i> , 2018 , 30, 1870141	24	2
17	Flexible Electronics: Materials and Designs for Wirelessly Powered Implantable Light-Emitting Systems (Small 18/2012). <i>Small</i> , 2012 , 8, 2770-2770	11	2
16	IR Supercontinuum in Compact Tellurite PCFs 2007 ,		2
15	Nanoporous silk films with capillary action and size-exclusion capacity for sensitive glucose determination in whole blood. <i>Lab on A Chip</i> , 2021 , 21, 608-615	7.2	2
14	Silk Reservoir Implants for Sustained Drug Delivery. <i>ACS Applied Bio Materials</i> , 2021 , 4, 869-880	4.1	2
13	Solvent-Free Strategy To Encapsulate Degradable, Implantable Metals in Silk Fibroin.. <i>ACS Applied Bio Materials</i> , 2018 , 1, 1677-1686	4.1	2
12	Biomimetics: A Biomimetic Composite from Solution Self-Assembly of Chitin Nanofibers in a Silk Fibroin Matrix (Adv. Mater. 32/2013). <i>Advanced Materials</i> , 2013 , 25, 4528-4528	24	1
11	Nanoimprinting: Protein-Protein Nanoimprinting of Silk Fibroin Films (Adv. Mater. 17/2013). <i>Advanced Materials</i> , 2013 , 25, 2378-2378	24	1

10	N-dimensional optics with natural materials. <i>MRS Communications</i> , 2020 , 10, 201-214	2.7	1
9	Multispectral Imaging: Multicolor T-Ray Imaging Using Multispectral Metamaterials (Adv. Sci. 7/2018). <i>Advanced Science</i> , 2018 , 5, 1870044	13.6	1
8	Dry Spun, Bulk-Functionalized rGO Fibers for Textile Integrated Potentiometric Sensors. <i>Advanced Materials Technologies</i> , 2101508	6.8	1
7	Generation of Complex Tunable Multispectral Signatures with Reconfigurable Protein-Based, Plasmonic-Photonic Crystal Hybrid Nanostructures.. <i>Small</i> , 2022 , e2201036	11	1
6	Wearable Sensors: Large-Scale Patterning of Reactive Surfaces for Wearable and Environmentally Deployable Sensors (Adv. Mater. 28/2020). <i>Advanced Materials</i> , 2020 , 32, 2070213	24	0
5	Unmixing octopus camouflage by multispectral mapping of Octopus bimaculoides chromatic elements. <i>Nanophotonics</i> , 2021 , 10, 2441-2450	6.3	0
4	Hierarchical Opals: Biomaterial-Based Structured Opals with Programmable Combination of Diffractive Optical Elements and Photonic Bandgap Effects (Adv. Mater. 5/2019). <i>Advanced Materials</i> , 2019 , 31, 1970030	24	
3	Biomaterials: Biofunctional Silk/Neuron Interfaces (Adv. Funct. Mater. 9/2012). <i>Advanced Functional Materials</i> , 2012 , 22, 1870-1870	15.6	
2	Surface Enhanced Vibrational Spectroscopy of Proteins with Plasmonic Nanoantenna Arrays. <i>Materials Research Society Symposia Proceedings</i> , 2010 , 1248, 1002		
1	Silk Embolic Material for Catheter-Directed Endovascular Drug Delivery (Adv. Mater. 2/2022). <i>Advanced Materials</i> , 2022 , 34, 2270017	24	