

Mark A Brenckle

List of Publications by Citations

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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.

20
papers

2,314
citations

15
h-index

21
g-index

21
ext. papers

2,585
ext. citations

17.5
avg, IF

4.09
L-index

#	Paper	IF	Citations
20	A physically transient form of silicon electronics. <i>Science</i> , 2012 , 337, 1640-4	33.3	862
19	Silk-based conformal, adhesive, edible food sensors. <i>Advanced Materials</i> , 2012 , 24, 1067-72	24	266
18	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
17	All-water-based electron-beam lithography using silk as a resist. <i>Nature Nanotechnology</i> , 2014 , 9, 306-10	28.7	195
16	Metamaterials on paper as a sensing platform. <i>Advanced Materials</i> , 2011 , 23, 3197-201	24	178
15	A biomimetic composite from solution self-assembly of chitin nanofibers in a silk fibroin matrix. <i>Advanced Materials</i> , 2013 , 25, 4482-7	24	100
14	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
13	Protein-protein nanoimprinting of silk fibroin films. <i>Advanced Materials</i> , 2013 , 25, 2409-14	24	67
12	Materials for programmed, functional transformation in transient electronic systems. <i>Advanced Materials</i> , 2015 , 27, 47-52	24	66
11	An Analytical Model of Reactive Diffusion for Transient Electronics. <i>Advanced Functional Materials</i> , 2013 , 23, 3106-3114	15.6	63
10	Modulated Degradation of Transient Electronic Devices through Multilayer Silk Fibroin Pockets. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 19870-5	9.5	57
9	Focal Infection Treatment using Laser-Mediated Heating of Injectable Silk Hydrogels with Gold Nanoparticles. <i>Advanced Functional Materials</i> , 2012 , 22, 3793-3798	15.6	46
8	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
7	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
6	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
5	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
4	Interface control of semicrystalline biopolymer films through thermal reflow. <i>Biomacromolecules</i> , 2013 , 14, 2189-95	6.9	8

3	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
2	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
1	Nanoimprinting: Protein-Protein Nanoimprinting of Silk Fibroin Films (Adv. Mater. 17/2013). <i>Advanced Materials</i> , 2013 , 25, 2378-2378	24	1