

# Mark A Brenckle

## 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.

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	Direct Transfer Printing of Water Hydrolyzable Metals onto Silk Fibroin Substrates through Thermal-Reflow-Based Adhesion. <i>Advanced Materials Interfaces</i> , <b>2016</b> , 3, 1600094	4.6	8
19	Evaluation of the Spectral Response of Functionalized Silk Inverse Opals as Colorimetric Immunosensors. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 16218-26	9.5	29
18	Methods and Applications of Multilayer Silk Fibroin Laminates Based on Spatially Controlled Welding in Protein Films. <i>Advanced Functional Materials</i> , <b>2016</b> , 26, 44-50	15.6	22
17	Transient Electronics: Materials for Programmed, Functional Transformation in Transient Electronic Systems (Adv. Mater. 1/2015). <i>Advanced Materials</i> , <b>2015</b> , 27, 187-187	24	2
16	Modulated Degradation of Transient Electronic Devices through Multilayer Silk Fibroin Pockets. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 19870-5	9.5	57
15	Materials for programmed, functional transformation in transient electronic systems. <i>Advanced Materials</i> , <b>2015</b> , 27, 47-52	24	66
14	All-water-based electron-beam lithography using silk as a resist. <i>Nature Nanotechnology</i> , <b>2014</b> , 9, 306-1028.7	19.5	195
13	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> , <b>2014</b> , 111, 17385-9	11.5	223
12	Protein-protein nanoimprinting of silk fibroin films. <i>Advanced Materials</i> , <b>2013</b> , 25, 2409-14	24	67
11	Biomimetics: A Biomimetic Composite from Solution Self-Assembly of Chitin Nanofibers in a Silk Fibroin Matrix (Adv. Mater. 32/2013). <i>Advanced Materials</i> , <b>2013</b> , 25, 4528-4528	24	1
10	An Analytical Model of Reactive Diffusion for Transient Electronics. <i>Advanced Functional Materials</i> , <b>2013</b> , 23, 3106-3114	15.6	63
9	Interface control of semicrystalline biopolymer films through thermal reflow. <i>Biomacromolecules</i> , <b>2013</b> , 14, 2189-95	6.9	8
8	A biomimetic composite from solution self-assembly of chitin nanofibers in a silk fibroin matrix. <i>Advanced Materials</i> , <b>2013</b> , 25, 4482-7	24	100
7	Nanoimprinting: Protein-Protein Nanoimprinting of Silk Fibroin Films (Adv. Mater. 17/2013). <i>Advanced Materials</i> , <b>2013</b> , 25, 2378-2378	24	1
6	Silk-based conformal, adhesive, edible food sensors. <i>Advanced Materials</i> , <b>2012</b> , 24, 1067-72	24	266
5	A physically transient form of silicon electronics. <i>Science</i> , <b>2012</b> , 337, 1640-4	33.3	862
4	Focal Infection Treatment using Laser-Mediated Heating of Injectable Silk Hydrogels with Gold Nanoparticles. <i>Advanced Functional Materials</i> , <b>2012</b> , 22, 3793-3798	15.6	46

3	Implantable, multifunctional, bioresorbable optics. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2012</b> , 109, 19584-9	11.5	97
2	Metamaterials on paper as a sensing platform. <i>Advanced Materials</i> , <b>2011</b> , 23, 3197-201	24	178
1	Gold nanoparticle-doped biocompatible silk films as a path to implantable thermo-electrically wireless powering devices. <i>Applied Physics Letters</i> , <b>2010</b> , 97, 123702	3-4	21