

# Amanda L Forster

## List of Publications by Year in descending order

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32  
papers

703  
citations

933447

10  
h-index

580821

25  
g-index

36  
all docs

36  
docs citations

36  
times ranked

749  
citing authors

#	ARTICLE	IF	CITATIONS
1	Mechanochromic Response of Poly(ethylene glycol) Methacrylate Hydrogel Encapsulated Crystalline Colloidal Arrays. <i>Langmuir</i> , 2001, 17, 6023-6026.	3.5	131
2	Photonic Crystal Composites with Reversible High-Frequency Stop Band Shifts. <i>Advanced Materials</i> , 2003, 15, 685-689.	21.0	129
3	Photonic Bandgap Composites. <i>Advanced Materials</i> , 2001, 13, 1898.	21.0	106
4	Temperature and humidity aging of poly(p-phenylene-2,6-benzobisoxazole) fibers: Chemical and physical characterization. <i>Polymer Degradation and Stability</i> , 2007, 92, 1234-1246.	5.8	65
5	Binary Cellulose Nanocrystal Blends for Bioinspired Damage Tolerant Photonic Films. <i>Advanced Functional Materials</i> , 2018, 28, 1800032.	14.9	63
6	Long-term stability of UHMWPE fibers. <i>Polymer Degradation and Stability</i> , 2015, 114, 45-51.	5.8	37
7	Effect of Irradiation and Detection of Long-Lived Polyenyl Radicals in Highly Crystalline Ultra-High Molar Mass Polyethylene (UHMWPE) Fibers. <i>Polymers</i> , 2019, 11, 924.	4.5	25
8	Hydrolytic stability of polybenzobisoxazole and polyterephthalamide body armor. <i>Polymer Degradation and Stability</i> , 2011, 96, 247-254.	5.8	22
9	Effect of artificial perspiration and cleaning chemicals on the mechanical and chemical properties of ballistic materials. <i>Journal of Applied Polymer Science</i> , 2009, 113, 567-584.	2.6	13
10	Multiscale Polymer Dynamics in Hierarchical Carbon Nanotube Grafted Glass Fiber Reinforced Composites. <i>ACS Applied Polymer Materials</i> , 2019, 1, 1905-1917.	4.4	11
11	Effect of moisture on copolymer fibers based on 5-amino-2-(p-aminophenyl)-benzimidazole. <i>Polymer Degradation and Stability</i> , 2011, 96, 1847-1857.	5.8	9
12	X-ray scattering study on the damage in fibers used in soft body armor after folding. <i>Polymer Composites</i> , 2012, 33, 803-811.	4.6	9
13	Photofading in cotton fibers dyed using red, yellow, and blue direct dyes during examination with microspectrophotometry (MSP). <i>Forensic Chemistry</i> , 2017, 5, 72-78.	2.8	9
14	Tensile testing of aged flexible unidirectional composite laminates for body armor. <i>Journal of Materials Science</i> , 2020, 55, 1035-1048.	3.7	9
15	Testing and analyses of copolymer fibers based on 5-amino-2-(p-aminophenyl)-benzimidazole. <i>Fibers and Polymers</i> , 2015, 16, 1836-1852.	2.1	8
16	Oxidation reactions in kink banded regions of UHMWPE fiber-based laminates used in body armor: A mechanistic study. <i>Polymer Degradation and Stability</i> , 2018, 154, 103-114.	5.8	7
17	Effects of Thermal Aging on Molar Mass of Ultra-High Molar Mass Polyethylene Fibers. <i>Polymers</i> , 2022, 14, 1324.	4.5	7
18	Enhanced durability of carbon nanotube grafted hierarchical ceramic microfiber-reinforced epoxy composites. <i>Carbon</i> , 2017, 125, 63-75.	10.3	6

#	ARTICLE	IF	CITATIONS
19	Linking Theory to Practice: Predicting Ballistic Performance from Mechanical Properties of Aged Body Armor. <i>Journal of Research of the National Institute of Standards and Technology</i> , 2020, 125, .	1.2	5
20	Long Term Stability of UHMWPE Fibers. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2016, , 369-375.	0.5	4
21	Specifying and testing idealized bust surrogates for testing of female stab-resistant body armor. <i>Textile Reseach Journal</i> , 2015, 85, 2108-2124.	2.2	3
22	Effect of elevated temperature and humidity on fibers based on 5-amino-2-(p-aminophenyl) benzimidazole (PBIA). <i>SN Applied Sciences</i> , 2020, 2, 1.	2.9	3
23	Disentangling High Strength Copolymer Aramid Fibers to Enable the Determination of Their Mechanical Properties. <i>Journal of Visualized Experiments</i> , 2018, , .	0.3	2
24	Cutting Procedures, Tensile Testing, and Ageing of Flexible Unidirectional Composite Laminates. <i>Journal of Visualized Experiments</i> , 2019, , .	0.3	2
25	Investigating Pigment Photoreactivity for Coatings Applications: Methods Development. , 2009, , 423-456.		2
26	Field and Laboratory Aging Effects on Poly(p-phenylene benzobisoxazole) Fibers Used in Body Armor. <i>ACS Symposium Series</i> , 2009, , 113-120.	0.5	1
27	Temperature-insensitive silicone composites as ballistic witness materials: the impact of water content on the thermophysical properties. <i>Journal of Materials Science</i> , 2021, 56, 16362-16375.	3.7	1
28	Assesment of Spectrophotometric Assay Methods on Nanostructured Pigments. <i>ACS Symposium Series</i> , 2009, , 349-372.	0.5	0
29	Solution Blow Spinning of Polymeric Nano-Composite Fibers for Personal Protective Equipment. <i>Journal of Visualized Experiments</i> , 2021, , .	0.3	0
30	Building a Better Jungle Combat Boot for Soldiers. , 2020, , 264-286.		0
31	Tensile Testing of Aged Flexible Unidirectional Composite Laminates for Body Armor. <i>Journal of Materials Science</i> , 2020, 55, .	3.7	0
32	Effect of Elevated Temperature and Humidity on Fibers Based on 5-amino-2-(p-aminophenyl) benzimidazole (PBIA). <i>SN Applied Sciences</i> , 2020, 2, .	2.9	0