

Michael W Czabaj

List of Publications by Year in descending order

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papers

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times ranked

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citing authors

#	ARTICLE	IF	CITATIONS
1	Numerical reconstruction of graphite/epoxy composite microstructure based on sub-micron resolution X-ray computed tomography. <i>Composites Science and Technology</i> , 2014, 105, 174-182.	7.8	94
2	Comparison of intralaminar and interlaminar mode I fracture toughnesses of a unidirectional IM7/8552 carbon/epoxy composite. <i>Composites Science and Technology</i> , 2013, 89, 15-23.	7.8	78
3	The third Sandia fracture challenge: predictions of ductile fracture in additively manufactured metal. <i>International Journal of Fracture</i> , 2019, 218, 5-61.	2.2	62
4	Interlayer fracture toughness of additively manufactured unreinforced and carbon-fiber-reinforced acrylonitrile butadiene styrene. <i>Additive Manufacturing</i> , 2018, 22, 508-515.	3.0	54
5	Assessment of carbon nanotube yarns as reinforcement for composite overwrapped pressure vessels. <i>Composites Part A: Applied Science and Manufacturing</i> , 2016, 84, 256-265.	7.6	39
6	A fiber-segmentation algorithm for composites imaged using X-ray microtomography: Development and validation. <i>Composites Part A: Applied Science and Manufacturing</i> , 2019, 126, 105606.	7.6	24
7	Observation of intralaminar cracking in the edge crack torsion specimen. <i>Engineering Fracture Mechanics</i> , 2014, 120, 1-14.	4.3	23
8	Simulation of delamination migration and core crushing in a CFRP sandwich structure. <i>Composites Part A: Applied Science and Manufacturing</i> , 2015, 79, 192-202.	7.6	21
9	Delamination of moisture saturated graphite/polyimide composites due to rapid heating. <i>Composites Part B: Engineering</i> , 2010, 41, 568-577.	12.0	17
10	Determination of the mode I, mode II, and mixed-mode I/II delamination toughness of a graphite/polyimide composite at room and elevated temperatures. <i>Journal of Composite Materials</i> , 2016, 50, 2235-2253.	2.4	16
11	4D Imaging of ceramic matrix composites during polymer infiltration and pyrolysis. <i>Acta Materialia</i> , 2020, 201, 547-560.	7.9	14
12	Blistering of Moisture Saturated Graphite/Polyimide Composites Due to Rapid Heating. <i>Journal of Composite Materials</i> , 2009, 43, 153-174.	2.4	13
13	Authigenic Mineral Texture in Submarine 1979 Basalt Drill Core, Surtsey Volcano, Iceland. <i>Geochemistry, Geophysics, Geosystems</i> , 2019, 20, 3751-3773.	2.5	10
14	Reexamination of the edge crack torsion test for determining the mode III delamination toughness of laminated composites. <i>Engineering Fracture Mechanics</i> , 2019, 215, 138-150.	4.3	10
15	Three-dimensional crack surface evolution in mode III delamination toughness tests. <i>Engineering Fracture Mechanics</i> , 2015, 149, 313-325.	4.3	9
16	Interlayer fracture toughness of additively manufactured unreinforced and carbon-fiber-reinforced acrylonitrile butadiene styrene. <i>Additive Manufacturing</i> , 2018, 22, 883-890.	3.0	9
17	Damage characterization of quasi-statically indented composite sandwich structures. <i>Journal of Composite Materials</i> , 2013, 47, 1211-1229.	2.4	8
18	Compressive strength of honeycomb-stiffened graphite/epoxy sandwich panels with barely-visible indentation damage. <i>Journal of Composite Materials</i> , 2014, 48, 2455-2471.	2.4	8

#	ARTICLE	IF	CITATIONS
19	Automated 3D Digital Reconstruction of Fiber Reinforced Polymer Composites. , 2015, , .		8
20	Modeling as-manufactured fiber-reinforced microstructures based on X-ray microcomputed tomography. Composites Science and Technology, 2021, 214, 109004.	7.8	8
21	High-throughput feature extraction for measuring attributes of deforming open-cell foams. IEEE Transactions on Visualization and Computer Graphics, 2020, 26, 140-150.	4.4	7
22	Experimental reexamination of transverse tensile strength for IM7/8552 tape-laminate composites. Journal of Composite Materials, 2020, 54, 3297-3312.	2.4	7
23	Characterization of the interlaminar shear strength of IM7/8552 using small-scale short beam shear tests. Composites Part A: Applied Science and Manufacturing, 2021, 142, 106200.	7.6	7
24	Investigating the effect of grain structure on compressive response of open-cell metal foam using high-fidelity crystal-plasticity modeling. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2021, 812, 140847.	5.6	7
25	Compression After Impact of Sandwich Composite Structures: Experiments and Modeling. , 2010, , .		6
26	The third Sandia Fracture Challenge: from theory to practice in a classroom setting. International Journal of Fracture, 2019, 218, 171-194.	2.2	6
27	A combined experimental and numerical approach for characterizing ply-level damage in tape-laminate composites subjected to biaxial loading. Composite Structures, 2019, 224, 111062.	5.8	5
28	Piecewise-linear generalizable cohesive element approach for simulating mixed-mode delamination. Engineering Fracture Mechanics, 2021, 242, 107484.	4.3	5
29	In-situ imaging of flexure-induced fracture in tape-laminate composites using high-resolution X-ray computed tomography. Composites Science and Technology, 2022, 220, 109288.	7.8	5
30	In-situ imaging of advanced materials subjected to in-plane biaxial loading using X-ray micro-computed tomography. Composites Science and Technology, 2022, 224, 109453.	7.8	5
31	Formation of cryobiaxial-induced damage in tape-laminate composites. Composite Structures, 2020, 235, 111816.	5.8	3
32	The hard x-ray nanotomography microscope at the advanced light source. Review of Scientific Instruments, 2022, 93, 023704.	1.3	3
33	Extension of Automated 3D Digital Reconstruction to Multi-Directional Fiber Reinforced Composite Microstructures. , 2016, , .		2
34	Effect of Processing Parameters on Interlayer Fracture Toughness of Fused Filament Fabrication Thermoplastic Materials. Conference Proceedings of the Society for Experimental Mechanics, 2019, , 77-79.	0.5	1
35	Combined Experimental/Numerical Assessment of Compression After Impact of Sandwich Composite Structures. Conference Proceedings of the Society for Experimental Mechanics, 2011, , 793-800.	0.5	1
36	In-Situ Imaging of Flexure-Induced Fracture in Fiber-Reinforced Composites Using High-Resolution X-Ray Computed Tomography. Conference Proceedings of the Society for Experimental Mechanics, 2019, , 331-334.	0.5	1

#	ARTICLE	IF	CITATIONS
37	Delamination and Blistering Due to Rapid Heating of Moist Composites. , 2006, , .		1
38	Microscale Investigation of Transverse Tensile Failure of Fiber-Reinforced Polymer Composites. Conference Proceedings of the Society for Experimental Mechanics, 2019, , 209-212.	0.5	0