Michael T Heitzmann

List of Publications by Year
in descending order

41	705	687363 13	580821 25
papers	citations	h-index	g-index

41	41	41	769
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Compact Unidirectional Conformal Antenna Based on Flexible High-Permittivity Custom-Made Substrate for Wearable Wideband Electromagnetic Head Imaging System. IEEE Transactions on Antennas and Propagation, 2020, 68, 183-194.	5.1	81
2	The mechanical properties of natural fibre composite laminates: A statistical study. Composites Part A: Applied Science and Manufacturing, 2017, 98, 99-104.	7.6	66
3	Wear behaviour of polymeric materials reinforced with man-made fibres: A comprehensive review about fibre volume fraction influence on wear performance. Journal of Reinforced Plastics and Composites, 2022, 41, 215-241.	3.1	53
4	Hybrid fibre reinforced polymer and seawater sea sand concrete structures: A systematic review on short-term and long-term structural performance. Construction and Building Materials, 2021, 301, 124335.	7.2	52
5	Additive Manufacturing of Cobalt-Based Dental Alloys: Analysis of Microstructure and Physicomechanical Properties. Advances in Materials Science and Engineering, 2018, 2018, 1-12.	1.8	51
6	Inverse gas chromatography for natural fibre characterisation: Identification of the critical parameters to determine the Brunauerâ€“Emmettâ€“Teller specific surface area. Journal of Chromatography A, 2015, 1425, 273-279.	3.7	46
7	Experimental and numerical analysis of drop-weight low-velocity impact tests on hybrid titanium composite laminates. Journal of Composite Materials, 2016, 50, 3605-3617.	2.4	36
8	A biocompatible thermoset polymer binder for Direct Ink Writing of porous titanium scaffolds for bone tissue engineering. Materials Science and Engineering C, 2019, 95, 160-165.	7.3	32
9	Durability of fibre-reinforced polymer-wood composite members: An overview. Composite Structures, 2022, 295, 115827.	5.8	27
10	Inverse gas chromatography for natural fibre characterisation: dispersive and acid-base distribution profiles of the surface energy. Cellulose, 2017, 24, 4691-4700.	4.9	24
11	GFRP-to-timber bonded joints: Adhesive selection. International Journal of Adhesion and Adhesives, 2019, 94, 29-39.	2.9	19
12	Folded hybrid FRP-timber sections: concept, geometric design and experimental behaviour. Thin-Walled Structures, 2018, 122, 182-192.	5.3	16
13	Morphology of an Interface between Polyetherimide and Epoxy Prepreg. Advanced Materials Research, 0, 393-395, 184-188.	0.3	14
14	Mechanical properties of polyamide 11 reinforced with cellulose nanofibres from Triodia pungens. Cellulose, 2018, 25, 2367-2380.	4.9	14
15	The effect of fibre length and fibre type on the fire performance of thermoplastic composites: The behaviour of polycarbonate as an example of a charring matrix. Construction and Building Materials, 2020, 234, 117889.	7.2	13
16	Towards a better understanding of fire performance assessment of faÃ§ade systems: Current situation and a proposed new assessment framework. Construction and Building Materials, 2021, 300, 124301.	7.2	13
17	Single-Plant Biocomposite from Ricinus Communis: Preparation, Properties and Environmental Performance. Journal of Polymers and the Environment, 2013, 21, 366-374.	5.0	12
18	Hybrid fibre-reinforced polymerâ€“timber thin-walled structural members. Advances in Structural Engineering, 2018, 21, 1409-1417.	2.4	12

#	Article	IF	Citations
19	Flammability trends for a comprehensive array of cladding materials. Fire Safety Journal, 2021, 120, 103133.	3.1	12
20	Compliant curved-crease origami-inspired metamaterials with a programmable force-displacement response. Materials and Design, 2021, 207, 109859.	7.0	12
21	Stable and Lifelong Head Phantoms Using Polymer Composition Mimicking Materials to Test Electromagnetic Medical Imaging Systems. IEEE Journal of Electromagnetics, RF and Microwaves in Medicine and Biology, 2021, 5, 322-328.	3.4	11
22	Long-span timber flooring systems: A systematic review from structural performance and design considerations to constructability and sustainability aspects. Journal of Building Engineering, 2022, 48, 103981.	3.4	11
23	Manufacture and structural performance of modular hybrid FRP-timber thin-walled columns. Composite Structures, 2021, 260, 113506.	5.8	9
24	A flammability study of aluminium hydroxide (ATH) and ammonium polyphosphate (APP) used with hemp/epoxy composites. Construction and Building Materials, 2021, 304, 124540.	7.2	9
25	Fluorine Mobility During SEM-EDX Analysis: A Challenge for Characterizing Epoxy/Fluoropolymer Interfaces. Journal of Physical Chemistry C, 2013, 117, 16933-16941.	3.1	8
26	Fire performance of continuous glass fibre reinforced polycarbonate composites: The effect of fibre architecture on the fire properties of polycarbonate composites. Journal of Composite Materials, 2019, 53, 1705-1715.	2.4	8
27	Mechanical properties of hybrid fibre reinforced polymer-timber veneer laminates. Construction and Building Materials, 2021, 301, 124316.	7.2	7
28	Nonlinear rotational stiffness and clash prevention in perforated steel fold lines. Engineering Structures, 2020, 209, 110218.	5.3	6
29	Isothermal differential scanning calorimetry analysis of the anionic polymerisation of polyamide-6: Separation by dual asymmetric gaussians. Materials Today Communications, 2020, 25, 101473.	1.9	4
30	Constitutive modelling of the mechanical response of a polycaprolactone based polyurethane elastomer: Finite element analysis and experimental validation through a bulge test. Journal of Strain Analysis for Engineering Design, 2021, 56, 206-215.	1.8	4
31	Curing kinetics of a siloxane pre-ceramic prepreg resin. Ceramics International, 2021, 47, 20678-20685.	4.8	4
32	Comparison of Experimental and Calculated Tensile Properties of Flax Fibres. Journal of Composites Science, 2022, 6, 100.	3.0	4
33	Influence of nonlinearities on the accuracy of the analytical solution for the shaft loaded blister test. International Journal of Solids and Structures, 2011, 48, 1424-1435.	2.7	3
34	Microanalysis Techniques for the Investigation of Interphases Formed between Thermoset and Thermoplastic Polymers: Scanning Electron Microscopy and Energy Dispersive X-Ray Analysis. Key Engineering Materials, 0, 471-472, 309-314.	0.4	2
35	Process modelling in Anionically Polymerised Polyamide-6 (APA6) for the in situ polymerisation of composite matrices. Composites Communications, 2018, 8, 111-114.	6.3	2
36	The effect of fibre length and matrix modification on the fire performance of thermoplastic composites: The behaviour of PP as an example of non-charring matrix. Journal of Thermoplastic Composite Materials, 2020, , 089270572092513.	4.2	2

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37	Comparing the ignition and burning hazards of sugarâ€cane bagasse and hemp epoxy composites. Fire and Materials, 2022, 46, 529-543.	2.0	2
38	Investigation of ammonium polyphosphate dilution with ground eggshells and lignin through the study of natural fibre composite flammability. Fire and Materials, 0, , .	2.0	2
39	Local buckling of FRP thin-walled plates, shells and hollow sections with curved edges and arbitrary lamination. Thin-Walled Structures, 2021, 168, 108242.	5.3	1
40	Behaviour of hybrid glass fibre-reinforced polymer and timber composite laminates under shear loading: Importance of fibre rotation. Composite Structures, 2022, 287, 115304.	5.8	1
41	Measurements of Interface Fracture Strength between Fiber-Reinforced Composite Laminates and Thin Surface Films Using the Blister Test. Key Engineering Materials, 0, 471-472, 315-319.	0.4	0