

An improved plastically dilatant unified viscoplastic con  
multiscale analysis of polymer matrix composites unde

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#	ARTICLE	IF	CITATIONS
1	Influence of elastic-viscoplastic behaviour on the filling efficiency of amorphous thermoplastic polymer during the micro hot embossing process. <i>Journal of Manufacturing Processes</i> , 2020, 59, 487-499.	5.9	2
2	Tensionâ€“compression asymmetry in the mechanical response of hydrogels. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2020, 110, 103851.	3.1	15
3	A physically-based constitutive model for the shear-dominated response and strain rate effect of carbon fibre reinforced composites. <i>Composites Part B: Engineering</i> , 2020, 193, 108032.	12.0	11
4	An efficient implementation of the high-fidelity generalized method of cells for complex microstructures. <i>Computational Materials Science</i> , 2021, 186, 110004.	3.0	5
5	A unified viscoplastic model and strain rateâ€“temperature equivalence of frozen soil under impact loading. <i>Journal of the Mechanics and Physics of Solids</i> , 2021, 152, 104413.	4.8	27
6	Mechanical characteristics, constitutive models and fracture behaviors of short basalt fiber reinforced thermoplastic composites under varying strain rates. <i>Composites Part B: Engineering</i> , 2021, 218, 108933.	12.0	26
7	Experiment and simulation analysis on dynamic response of plane cable-membrane structure under impact load. <i>Thin-Walled Structures</i> , 2022, 171, 108814.	5.3	8
8	Recent developments in the performance of micro/nanoparticle-modified urea-formaldehyde resins used as wood-based composite binders: A review. <i>International Journal of Adhesion and Adhesives</i> , 2022, 114, 103106.	2.9	27
9	Experimental and Numerical Simulation to Validate Critical Perforation Velocity on a Flat Plate Aluminium Alloy 6061. <i>Advances in Materials Science and Engineering</i> , 2022, 2022, 1-31.	1.8	3
10	Experimental study of quasi-static and dynamic tensile behavior of epoxy resin under cyclic hygrothermal aging. <i>Polymer Degradation and Stability</i> , 2022, 200, 109940.	5.8	3
11	Characterization and modelling of bisphenol-a type epoxy polymer over a wide range of rates and temperatures. <i>Polymer</i> , 2022, 249, 124860.	3.8	7
12	Study of the effect of strain rate on the in-plane shear and transverse compression response of a composite ply using computational micromechanics. <i>Composites Part A: Applied Science and Manufacturing</i> , 2023, 168, 107482.	7.6	8
13	Experimental characterisation of the dilation angle of polymers. <i>Polymer Testing</i> , 2023, 125, 108137.	4.8	1
14	In situ damage characterization of CFRP under compression using high-speed optical, infrared and synchrotron X-ray phase-contrast imaging. <i>Composites Part A: Applied Science and Manufacturing</i> , 2023, 175, 107766.	7.6	2
15	Examining the Quasi-Static Uniaxial Compressive Behaviour of Commercial High-Performance Epoxy Matrices. <i>Polymers</i> , 2023, 15, 4022.	4.5	0
16	High-fidelity prediction and temperature-rise mechanism for low-velocity impact of triaxially braided composites. <i>Thin-Walled Structures</i> , 2024, 195, 111360.	5.3	0
17	High performance ductile and pseudo-ductile polymer matrix composites: A review. <i>Composites Part A: Applied Science and Manufacturing</i> , 2024, 181, 108029.	7.6	1