Green Journals

International Approved Journals

Journal Information

Journal Title	Mechanics of Materials
Publisher	Elsevier B.V.
ISSN	0167-6636
E-ISSN	
Database	SCOPUS
Domain	Physical Sciences, Social Sciences

Classification History

Year	A+	A	B	C
2026		✓	✓	
2025		✓	✓	
2024		✓	✓	
2023		✓	✓	
2021/2022		✓	✓	
2020		✓	✓	
2019		✓	✓	
2018		✓		

Classification: The table above shows all journal classifications recorded for each classification year in the Green Journals database. A journal may have more than one classification in the same year.

Recent Articles

A multi-scale numerical investigation of microstructural controls on plastic deformation accommodation in Ti–6Al–4V alloy
2027-1 Vol. 224 Pages 105878
Authors: Fatna Benmessaoud, Mohammed Cheikh, Souad Zergot et al.
DOI: 10.1016/j.mechmat.2026.105878

Architecture-controlled tearing in soft fibrous composites revealed by crack-tip kinematics
2027-1 Vol. 224 Pages 105901
Authors: Smadar Elinor Sharon, Yana Portnov, Adi Aharonov et al.
DOI: 10.1016/j.mechmat.2026.105901

Molecular dynamics-informed finite element modeling of fiber kinking in thermoset CFRPs
2027-1 Vol. 224 Pages 105903
Authors: Yamato Hoshikawa, Momoka Shinike, Yoshiaki Kawagoe et al.
DOI: 10.1016/j.mechmat.2026.105903

Microstructural features affecting the tensile response of Cu-35Cr composites based on crystal-plasticity simulations
2027-1 Vol. 224 Pages 105885
Authors: Lucas Varoto, Guilhem Martin, Guillaume Hanon et al.
DOI: 10.1016/j.mechmat.2026.105885

Decoupling chain orientation and bond scission in double-network hydrogels via a stress-optical constitutive model
2027-1 Vol. 224 Pages 105896
Authors: Weilin Li, Haibao Lu
DOI: 10.1016/j.mechmat.2026.105896

A dynamic cavity expansion model for projectile penetration into honeycomb steel tube confined UHPC
2027-1 Vol. 224 Pages 105904
Authors: Guangzhi Zhu, Bin Wu
DOI: 10.1016/j.mechmat.2026.105904

Load-path geometry controls stiffness in finite percolating lattices
2027-1 Vol. 224 Pages 105880
Authors: Asher John Joshua, Orel Guetta, Daniel Rittel
DOI: 10.1016/j.mechmat.2026.105880

Void-distribution effect on ductile failure initiation under shear versus tension loading
2027-1 Vol. 224 Pages 105884
Authors: J.C. Zhu, Z.X. Ou, M. Ben Bettaieb et al.
DOI: 10.1016/j.mechmat.2026.105884

Microscopically informed constitutive framework for stress overshoot, yielding, and strain hardening in amorphous materials
2027-1 Vol. 224 Pages 105906
Authors: Ankit Singh, Valeriy V. Ginzburg, Alessio Zaccone
DOI: 10.1016/j.mechmat.2026.105906

Crystallographic orientation effect on crack growth behavior under monotonic and cyclic loadings in single-crystalline α-Ti
2027-1 Vol. 224 Pages 105894
Authors: Zhijia Qin, Xiangbin Cai, Yu Duan et al.
DOI: 10.1016/j.mechmat.2026.105894