

# Wenqiong Tu

## List of Publications by Year in descending order

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Version: 2024-02-01

16  
papers

245  
citations

840776

11  
h-index

996975

15  
g-index

17  
all docs

17  
docs citations

17  
times ranked

146  
citing authors

#	ARTICLE	IF	CITATIONS
1	Cohesive Zone-Based Damage Evolution in Periodic Materials Via Finite-Volume Homogenization. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2014, 81, .	2.2	44
2	Damage evolution in cross-ply laminates revisited via cohesive zone model and finite-volume homogenization. <i>Composites Part B: Engineering</i> , 2016, 86, 40-60.	12.0	24
3	Targeting the finite-deformation response of wavy biological tissues with bio-inspired material architectures. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2013, 28, 291-308.	3.1	23
4	Parametric multiphysics finite-volume theory for periodic composites with thermo-electro-elastic phases. <i>Journal of Intelligent Material Systems and Structures</i> , 2018, 29, 530-552.	2.5	20
5	Evolution of interfacial debonding of a unidirectional graphite/polyimide composite under off-axis loading. <i>Engineering Fracture Mechanics</i> , 2020, 230, 106947.	4.3	18
6	Tailoring the moduli of composites using hollow reinforcement. <i>Composite Structures</i> , 2017, 160, 838-853.	5.8	15
7	Deep learning in heterogeneous materials: Targeting the thermo-mechanical response of unidirectional composites. <i>Journal of Applied Physics</i> , 2020, 127, .	2.5	15
8	Homogenization and localization of unidirectional fiber-reinforced composites with evolving damage by FVDAM and FEM approaches: A critical assessment. <i>Engineering Fracture Mechanics</i> , 2020, 239, 107280.	4.3	14
9	Progressive modeling of transverse thermal conductivity of unidirectional natural fiber composites. <i>International Journal of Thermal Sciences</i> , 2021, 162, 106782.	4.9	13
10	Optimal Strength Design for Fiber-Metal Laminates and Fiber-reinforced Plastic Laminates. <i>Journal of Composite Materials</i> , 2011, 45, 237-254.	2.4	12
11	Homogenization and localization of imperfectly bonded periodic fiber-reinforced composites. <i>Mechanics of Materials</i> , 2019, 139, 103178.	3.2	12
12	Plastic strain localization in periodic materials with wavy brick-and-mortar architectures and its effect on the homogenized response. <i>Composites Part B: Engineering</i> , 2015, 68, 270-280.	12.0	11
13	A tangent finite-volume direct averaging micromechanics framework for elastoplastic porous materials: Theory and validation. <i>International Journal of Plasticity</i> , 2021, 139, 102968.	8.8	7
14	Characterization of Interphase/Interface Parameters of Unidirectional Fibrous Composites by Optimization-Based Inverse Homogenization. <i>International Journal of Applied Mechanics</i> , 2019, 11, 1950074.	2.2	6
15	Electromechanical response of multilayered piezoelectric BaTiO <sub>3</sub> /PZT-7A composites with wavy architecture. <i>Journal of Intelligent Material Systems and Structures</i> , 2021, 32, 1966-1986.	2.5	5
16	An effective thermal conductivity and thermomechanical homogenization scheme for a multiscale Nb <sub>3</sub> Sn filaments. <i>Nanotechnology Reviews</i> , 2021, 10, 187-200.	5.8	5