

Wenlong Tian

List of Publications by Year in descending order

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36
papers

1,043
citations

471371

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docs citations

36
times ranked

808
citing authors

#	ARTICLE	IF	CITATIONS
1	Representative volume element for composites reinforced by spatially randomly distributed discontinuous fibers and its applications. <i>Composite Structures</i> , 2015, 131, 366-373.	3.1	103
2	Periodic boundary condition and its numerical implementation algorithm for the evaluation of effective mechanical properties of the composites with complicated micro-structures. <i>Composites Part B: Engineering</i> , 2019, 162, 1-10.	5.9	98
3	Numerical evaluation of effective elastic properties of composites reinforced by spatially randomly distributed short fibers with certain aspect ratio. <i>Composite Structures</i> , 2015, 131, 843-851.	3.1	77
4	Fabrication and mechanical properties of CNTs/Mg composites prepared by combining friction stir processing and ultrasonic assisted extrusion. <i>Journal of Alloys and Compounds</i> , 2017, 728, 282-288.	2.8	75
5	Chemical Sensing Systems that Utilize Soft Electronics on Thin Elastomeric Substrates with Open Cellular Designs. <i>Advanced Functional Materials</i> , 2017, 27, 1605476.	7.8	64
6	Numerical evaluation on mechanical properties of short-fiber-reinforced metal matrix composites: Two-step mean-field homogenization procedure. <i>Composite Structures</i> , 2016, 139, 96-103.	3.1	52
7	Numerical study of the effects of irregular pores on transverse mechanical properties of unidirectional composites. <i>Composites Science and Technology</i> , 2018, 159, 142-151.	3.8	51
8	Evaluation of the effect of PyC coating thickness on the mechanical properties of T700 carbon fiber tows. <i>Applied Surface Science</i> , 2019, 463, 310-321.	3.1	46
9	Numerical simulation on elastic properties of short-fiber-reinforced metal matrix composites: Effect of fiber orientation. <i>Composite Structures</i> , 2016, 152, 408-417.	3.1	44
10	Numerical evaluation of the effect of pores on effective elastic properties of carbon/carbon composites. <i>Composite Structures</i> , 2018, 196, 108-116.	3.1	43
11	Numerical evaluation of the influence of porosity on bending properties of 2D carbon/carbon composites. <i>Composites Part B: Engineering</i> , 2018, 136, 72-80.	5.9	37
12	Effects of the fiber orientation and fiber aspect ratio on the tensile strength of Csf/Mg composites. <i>Computational Materials Science</i> , 2014, 89, 6-11.	1.4	36
13	Influence of Ni-CNTs additions on the microstructure and mechanical properties of extruded Mg-9Al alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016, 678, 101-109.	2.6	34
14	Numerical evaluation on the effective thermal conductivity of the composites with discontinuous inclusions: Periodic boundary condition and its numerical algorithm. <i>International Journal of Heat and Mass Transfer</i> , 2019, 134, 735-751.	2.5	29
15	Tensile and fatigue behavior of carbon fiber reinforced magnesium composite fabricated by liquid-solid extrusion following vacuum pressure infiltration. <i>Journal of Alloys and Compounds</i> , 2017, 721, 55-63.	2.8	27
16	Effect of fiber transverse isotropy on effective thermal conductivity of metal matrix composites reinforced by randomly distributed fibers. <i>Composite Structures</i> , 2016, 152, 637-644.	3.1	24
17	An advanced method for efficiently generating composite RVEs with specified particle orientation. <i>Composites Science and Technology</i> , 2021, 205, 108647.	3.8	21
18	An algorithm for generation of RVEs of composites with high particle volume fractions. <i>Composites Science and Technology</i> , 2021, 207, 108714.	3.8	18

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19	A fractal model of effective mechanical properties of porous composites. <i>Composites Science and Technology</i> , 2021, 213, 108957.	3.8	18
20	Evaluation for elastic properties of metal matrix composites with randomly distributed fibers: Two-step mean-field homogenization procedure versus FE homogenization method. <i>Journal of Alloys and Compounds</i> , 2016, 658, 241-247.	2.8	17
21	Micro-mechanical model for the effective thermal conductivity of the multi-oriented inclusions reinforced composites with imperfect interfaces. <i>International Journal of Heat and Mass Transfer</i> , 2020, 148, 119167.	2.5	17
22	Mean-field homogenization based approach to evaluate macroscopic coefficients of thermal expansion of composite materials. <i>International Journal of Heat and Mass Transfer</i> , 2016, 102, 1321-1333.	2.5	16
23	Potential of porous pyrolytic carbon for producing zero thermal expansion coefficient composites: A multi-scale numerical evaluation. <i>Composite Structures</i> , 2020, 235, 111819.	3.1	15
24	Interphase model for FE prediction of the effective thermal conductivity of the composites with imperfect interfaces. <i>International Journal of Heat and Mass Transfer</i> , 2019, 145, 118796.	2.5	12
25	Experimental and multi-scale numerical evaluations for effective mechanical properties of 2-D Cf/Mg composites. <i>Composite Structures</i> , 2018, 189, 1-8.	3.1	9
26	A new interpolative homogenization model for evaluation of the effective elasto-plastic responses of two-phase composites. <i>Composite Structures</i> , 2019, 210, 810-821.	3.1	9
27	Evaluation for interfacial fracture of fiber-reinforced pyrocarbon matrix composites by using a zero-thickness cohesive approach. <i>Journal of Alloys and Compounds</i> , 2020, 820, 153378.	2.8	9
28	New numerical algorithm for the periodic boundary condition for predicting the coefficients of thermal expansion of composites. <i>Mechanics of Materials</i> , 2021, 154, 103737.	1.7	9
29	Multi-scale and multi-step modeling of thermal conductivities of 3D braided composites. <i>International Journal of Mechanical Sciences</i> , 2022, 228, 107466.	3.6	9
30	Homogenization of transverse elastic properties of Cf/Mg composites at an elevated temperature and containing a small fraction of liquid phase. <i>Composites Science and Technology</i> , 2015, 117, 234-243.	3.8	7
31	Quantitative characterization of the fiber orientation variation in the Csf/Mg composites. <i>Computational Materials Science</i> , 2015, 98, 56-63.	1.4	4
32	Tool wear morphologies and mechanisms for cutting Cf/Mg composites. <i>International Journal of Advanced Manufacturing Technology</i> , 2016, 86, 613-619.	1.5	4
33	Effect of holding pressure on densification and mechanical properties of C _f /Mg composites. <i>Materials Science and Technology</i> , 2017, 33, 629-634.	0.8	4
34	Micro-mechanical model for predicting the elasto-plastic behavior of composites based on secant formulation method. <i>Chinese Journal of Aeronautics</i> , 2021, 34, 281-295.	2.8	3
35	Principal strain-induced fiber orientation evolution in the C _{sf} /Mg composites with a large deformation. <i>Journal of Composite Materials</i> , 2015, 49, 3229-3240.	1.2	2
36	Experimental and Numerical Evaluations for Failure Mechanism of Notched C _f /Mg Composite. <i>Integrated Ferroelectrics</i> , 2021, 219, 218-232.	0.3	0