Mohammad Malekan

List of Publications by Year
in descending order

30 papers	568 citations	687220 13 h-index	642610 23 g-index
31 all docs	31 docs citations	31 times ranked	495 citing authors

#	Article	IF	Citations
1	Numerical analysis of magnetic field effects on the heat transfer enhancement in ferrofluids for a parabolic trough solar collector. Renewable Energy, 2019, 134, 54-63.	4.3	83
2	Thermodynamic and economic analysis of a hybrid ocean thermal energy conversion/photovoltaic system with hydrogen-based energy storage system. Energy, 2019, 172, 304-319.	4.5	64
3	Heat transfer modeling of a parabolic trough solar collector with working fluid of Fe_3O_4 and CuO/Therminol 66 nanofluids under magnetic field. Applied Thermal Engineering, 2019, 163, 114435.	3.0	60
4	The influence of magnetic field on heat transfer of magnetic nanofluid in a double pipe heat exchanger proposed in a small-scale CAES system. Applied Thermal Engineering, 2019, 146, 146-159.	3.0	38
5	Design parameter modelling of solar power tower system using adaptive neuro-fuzzy inference system optimized with a combination of genetic algorithm and teaching learning-based optimization algorithm. Journal of Cleaner Production, 2020, 244, 118904.	4.6	38
6	Failure analysis and finite element simulation of deformation and fracture of an exploded CNG fuel tank. Engineering Failure Analysis, 2013, 30, 91-98.	1.8	24
7	Investigation of convective heat transfer of ferrofluid using CFD simulation and adaptive neuro-fuzzy inference system optimized with particle swarm optimization algorithm. Powder Technology, 2018, 333, 364-376.	2.1	22
8	Two-dimensional fracture modeling with the generalized/extended finite element method: An object-oriented programming approach. Advances in Engineering Software, 2018, 115, 168-193.	1.8	22
9	Deformation and fracture of cylindrical tubes under detonation loading: A review of numerical and experimental analyses. International Journal of Pressure Vessels and Piping, 2019, 173, 114-132.	1.2	22
10	Well-conditioning global–local analysis using stable generalized/extended finite element method for linear elastic fracture mechanics. Computational Mechanics, 2016, 58, 819-831.	2.2	21
11	Thermal Resistance Modeling of Oscillating Heat Pipes for Nanofluids by Artificial Intelligence Approach. Journal of Heat Transfer, 2019, 141, .	1.2	20
12	A computational framework for a two-scale generalized/extended finite element method. Engineering Computations, 2017, 34, 988-1019.	0.7	18
13	An Object-Oriented Class Organization for Global-Local Generalized Finite Element Method. Latin American Journal of Solids and Structures, 2016, 13, 2529-2551.	0.6	14
14	Fracture analysis in plane structures with the two-scale G/XFEM method. International Journal of Solids and Structures, 2018, 155, 65-80.	1.3	14
15	Effect of the magnetic field on the heat transfer coefficient of a Fe_3O_4-water ferrofluid using artificial intelligence and CFD simulation. European Physical Journal Plus, 2019, 134, 1.	1.2	12
16	Cutting Depth Dictates the Transition from Continuous to Segmented Chip Formation. Physical Review Letters, 2021, 127, 235502.	2.9	12
17	Finite element analysis of a repaired thin-walled aluminum tube containing a longitudinal crack with composite patches under internal dynamic loading. Composite Structures, 2018, 184, 980-1004.	3.1	11
18	Thermo-mechanical analysis of a cylindrical tube under internal shock loading using numerical solution. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2016, 38, 2635-2649.	0.8	8

#	Article	IF	Citations
19	Analysis of a main fatigue crack interaction with multiple micro-cracks/voids in a compact tension specimen repaired by stop-hole technique. Journal of Strain Analysis for Engineering Design, 2018, 53, 648-662.	1.0	8
20	Numerical analysis of a main crack interactions with micro-defects/inhomogeneities using two-scale generalized/extended finite element method. Computational Mechanics, 2018, 62, 783-801.	2.2	8
21	Performance improvement of a double pipe heat exchanger proposed in a small-scale CAES system: An innovative design. Applied Thermal Engineering, 2019, 162, 114315.	3.0	7
22	Parabolic trough solar collectors. , 2021, , 85-100.		7
23	Finite element simulation of gaseous detonation-driven fracture in thin aluminum tube using cohesive element. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2016, 38, 989-997.	0.8	6
24	Imposition of Dirichlet Boundary Conditions in Element Free Galerkin Method through an Object-Oriented Implementation. Latin American Journal of Solids and Structures, 2017, 14, 1017-1039.	0.6	6
25	Finite element evaluation of the effects of curvature in Lamb waves for composites structural health monitoring. Latin American Journal of Solids and Structures, 2018, 15, .	0.6	5
26	An Abaqus plug-in to simulate fatigue crack growth. Engineering With Computers, 2022, 38, 2991-3005.	3.5	5
27	Cutting edge wear in high-speed stainless steel end milling. International Journal of Advanced Manufacturing Technology, 2021, 114, 2911-2928.	1.5	5
28	Fracture analyses of surface asperities during sliding contact. Tribology International, 2021, 159, 106939.	3.0	5
29	On the vibrational responses of thin FGM tubes subjected to internal sequential moving pressure. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2020, 42, 1.	0.8	2
30	Semiautonomous Mission Operation Plan for a Remote Sensing Leo Microsatellite. Journal of Aerospace Engineering, 2016, 29, 04015016.	0.8	1