Guangwei Meng

List of Publications by Year
in descending order

29 papers	291 citations	1040056 9 h-index	940533 16 g-index
30 all docs	30 docs citations	30 times ranked	158 citing authors

#	Article	IF	Citations
1	Bending collapse of dual rectangle thin-walled tubes for conceptual design. Thin-Walled Structures, 2019, 135, 185-195.	5.3	39
2	Node-based smoothed radial point interpolation method for electromagnetic-thermal coupled analysis. Applied Mathematical Modelling, 2020, 78, 841-862.	4.2	37
3	A stabilized node-based smoothed radial point interpolation method for functionally graded magneto-electro-elastic structures in thermal environment. Composite Structures, 2020, 234, 111674.	5.8	32
4	An effective cell-based smoothed finite element model for the transient responses of magneto-electro-elastic structures. Journal of Intelligent Material Systems and Structures, 2018, 29, 3006-3022.	2.5	29
5	Rollover crashworthiness analysis and optimization of bus frame for conceptual design. Journal of Mechanical Science and Technology, 2019, 33, 3363-3373.	1.5	25
6	A novel stabilized node-based smoothed radial point interpolation method (SNS-RPIM) for coupling analysis of magneto-electro-elastic structures in hygrothermal environment. Computer Methods in Applied Mechanics and Engineering, 2020, 365, 112975.	6.6	21
7	Bridging Topological Results and Thin-Walled Frame Structures Considering Manufacturability. Journal of Mechanical Design, Transactions of the ASME, 2021, 143, .	2.9	14
8	Stable node-based smoothed radial point interpolation method for the dynamic analysis of the hygro-thermo-magneto-electro-elastic coupling problem. Engineering Analysis With Boundary Elements, 2022, 134, 435-452.	3.7	14
9	A multi-physics node-based smoothed radial point interpolation method for transient responses of magneto-electro-elastic structures. Engineering Analysis With Boundary Elements, 2019, 101, 371-384.	3.7	12
10	Tissue level microstructure and mechanical properties of the femoral head in the proximal femur of fracture patients. Acta Mechanica Sinica/Lixue Xuebao, 2015, 31, 259-267.	3.4	9
11	A novel vibration assisted polishing device based on the flexural mechanism driven by the piezoelectric actuators. AIP Advances, 2018, 8, 015012.	1.3	8
12	Static Response Analysis of Uncertain Structures With Large-Scale Unknown-But-Bounded Parameters. International Journal of Applied Mechanics, 2021, 13, 2150004.	2.2	8
13	Development of A New Type of 2-DOF Piezo-Actuated Pseudo-Decoupled Compliant Mechanism for Elliptical Vibration Machining. Micromachines, 2019, 10, 122.	2.9	6
14	Stabilized nodeâ€based smoothed radial point interpolation method for micromechanical analysis of the magnetoâ€electroâ€elastic structures in thermal environment. Mathematical Methods in the Applied Sciences, 0, , .	2.3	6
15	An Inhomogeneous Cell-Based Smoothed Finite Element Method for Free Vibration Calculation of Functionally Graded Magnetoelectroelastic Structures. Shock and Vibration, 2018, 2018, 1-17.	0.6	5
16	Bounds for uncertain structural problems with large-range interval parameters. Archive of Applied Mechanics, 2021, 91, 1157-1177.	2.2	5
17	A bivariate Chebyshev polynomials method for nonlinear dynamic systems with interval uncertainties. Nonlinear Dynamics, 2022, 107, 793-811.	5.2	5
18	The static and dynamic analysis for the coupling hygro-electro-mechanical multifield problems via stabilized node-based smoothed radial point interpolation method. Mechanics of Advanced Materials and Structures, 2023, 30, 2651-2667.	2.6	4

#	Article	IF	Citations
19	Development of a new type of elliptical/non-elliptical vibration coining approaches for manufacturing functional microstructure surfaces. Journal of Micromechanics and Microengineering, 2019, 29, 025012.	2.6	2
20	Dynamic analysis of magneto-electro-elastic nanostructures using node-based smoothed radial point interpolation method combined with micromechanics-based asymptotic homogenization technique. Journal of Intelligent Material Systems and Structures, 2020, 31, 2342-2361.	2.5	2
21	Diamond turning of freeform surfaces using non-zero rake angle tools. International Journal of Advanced Manufacturing Technology, 2022, 118, 2265-2284.	3.0	2
22	Relationships between the three-dimension morphologic parameters of proximal femurs. , 2010, , .		1
23	Machining feature recognition of part from STEP file based on ANN. , 2010, , .		1
24	Regional Variations in Trabecular Morphological Features of Femoral Head of Patients with Proximal Femoral Fractures. Journal of Bionic Engineering, 2015, 12, 294-303.	5.0	1
25	Probabilistic robustness analysis on the planar parasitic motions of flexural mechanisms with uncertain manufacturing imperfectness. Sensors and Actuators A: Physical, 2019, 294, 154-163.	4.1	1
26	Development of a novel type of elliptical vibration cutting approaches with varying phase difference. International Journal of Advanced Manufacturing Technology, 2019, 101, 3107-3120.	3.0	1
27	Coupled Thermalâ€“Electricalâ€“Mechanical Inhomogeneous Cell-Based Smoothed Finite Element Method for Transient Responses of Functionally Graded Piezoelectric Structures to Dynamic Loadings. International Journal of Computational Methods, 2020, 17, 1950012.	1.3	1
28	Comparison of finite element analysis of the first molar in two different rehabilitaition systems. , 2011, , .		0
29	Hybrid reliability analysis of structural fatigue life: Based on Taylor expansion method. Advances in Mechanical Engineering, 2016, 8, 168781401667702.	1.6	0