Guangwei Meng

List of Publications by Year
in descending order

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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	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
2	Diamond turning of freeform surfaces using non-zero rake angle tools. International Journal of Advanced Manufacturing Technology, 2022, 118, 2265-2284.	3.0	2
3	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
4	A bivariate Chebyshev polynomials method for nonlinear dynamic systems with interval uncertainties. Nonlinear Dynamics, 2022, 107, 793-811.	5.2	5
5	Bounds for uncertain structural problems with large-range interval parameters. Archive of Applied Mechanics, 2021, 91, 1157-1177.	2.2	5
6	Static Response Analysis of Uncertain Structures With Large-Scale Unknown-But-Bounded Parameters. International Journal of Applied Mechanics, 2021, 13, 2150004.	2.2	8
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	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
9	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
10	Node-based smoothed radial point interpolation method for electromagnetic-thermal coupled analysis. Applied Mathematical Modelling, 2020, 78, 841-862.	4.2	37
11	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
12	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
13	Rollover crashworthiness analysis and optimization of bus frame for conceptual design. Journal of Mechanical Science and Technology, 2019, 33, 3363-3373.	1.5	25
14	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
15	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
16	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
17	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
18	Bending collapse of dual rectangle thin-walled tubes for conceptual design. Thin-Walled Structures, 2019, 135, 185-195.	5.3	39

#	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	A novel vibration assisted polishing device based on the flexural mechanism driven by the piezoelectric actuators. AIP Advances, 2018, 8, 015012.	1.3	8
21	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
22	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
23	Hybrid reliability analysis of structural fatigue life: Based on Taylor expansion method. Advances in Mechanical Engineering, 2016, 8, 168781401667702.	1.6	0
24	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
25	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
26	Comparison of finite element analysis of the first molar in two different rehabilitaition systems. , 2011, , .		0
27	Relationships between the three-dimension morphologic parameters of proximal femurs. , 2010, , .		1
28	Machining feature recognition of part from STEP file based on ANN. , 2010, , .		1
29	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