

Xiao Wei Deng

List of Publications by Year in descending order

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48
papers

1,725
citations

257450

24
h-index

289244

40
g-index

48
all docs

48
docs citations

48
times ranked

1334
citing authors

#	ARTICLE	IF	CITATIONS
1	Review on the research progress of cement-based and geopolymer materials modified by graphene and graphene oxide. <i>Nanotechnology Reviews</i> , 2020, 9, 155-169.	5.8	166
2	Wake modeling of wind turbines using machine learning. <i>Applied Energy</i> , 2020, 257, 114025.	10.1	142
3	Scaffold Structural Microenvironmental Cues to Guide Tissue Regeneration in Bone Tissue Applications. <i>Nanomaterials</i> , 2018, 8, 960.	4.1	129
4	Free vibrations of functionally graded porous rectangular plate with uniform elastic boundary conditions. <i>Composites Part B: Engineering</i> , 2019, 168, 106-120.	12.0	106
5	Deployment simulation of foldable origami membrane structures. <i>Aerospace Science and Technology</i> , 2017, 67, 343-353.	4.8	76
6	Mechanical properties and microstructures of hypergolic and calcined coal gangue based geopolymer recycled concrete. <i>Construction and Building Materials</i> , 2019, 221, 691-708.	7.2	63
7	Application of nanomaterials in ultra-high performance concrete: A review. <i>Nanotechnology Reviews</i> , 2020, 9, 1427-1444.	5.8	62
8	A modified series solution for free vibration analyses of moderately thick functionally graded porous (FGP) deep curved and straight beams. <i>Composites Part B: Engineering</i> , 2019, 165, 155-166.	12.0	58
9	Artificial Neural Networks based wake model for power prediction of wind farm. <i>Renewable Energy</i> , 2021, 172, 618-631.	8.9	57
10	Advance on the dispersion treatment of graphene oxide and the graphene oxide modified cement-based materials. <i>Nanotechnology Reviews</i> , 2021, 10, 34-49.	5.8	53
11	The effect of graphene oxide on the mechanical properties, impermeability and corrosion resistance of cement mortar containing mineral admixtures. <i>Construction and Building Materials</i> , 2021, 288, 123059.	7.2	53
12	Dynamic response of saddle membrane structure under hail impact. <i>Engineering Structures</i> , 2020, 214, 110597.	5.3	47
13	A unified modeling method for dynamic analysis of GPL-reinforced FGP plate resting on Winkler-Pasternak foundation with elastic boundary conditions. <i>Composite Structures</i> , 2020, 244, 112217.	5.8	47
14	Geometric design and mechanical behavior of a deployable cylinder with Miura origami. <i>Smart Materials and Structures</i> , 2015, 24, 125031.	3.5	44
15	Research progress on mechanical properties of geopolymer recycled aggregate concrete. <i>Reviews on Advanced Materials Science</i> , 2021, 60, 158-172.	3.3	40
16	Form-finding method for multi-mode tensegrity structures using extended force density method by grouping elements. <i>Composite Structures</i> , 2018, 187, 1-9.	5.8	36
17	New energy harvester with embedded piezoelectric stacks. <i>Composites Part B: Engineering</i> , 2019, 163, 303-313.	12.0	35
18	Experimental and numerical investigation on dynamic responses of the umbrella membrane structure excited by heavy rainfall. <i>JVC/Journal of Vibration and Control</i> , 2021, 27, 675-684.	2.6	35

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19	Geometry and Motion Analysis of Origami-Based Deployable Shelter Structures. <i>Journal of Structural Engineering</i> , 2015, 141, .	3.4	34
20	Hailstone-induced dynamic responses of pretensioned umbrella membrane structure. <i>Advances in Structural Engineering</i> , 2021, 24, 3-16.	2.4	34
21	Experimental study on seismic behavior of precast concrete column with grouted sleeve connections considering ratios of longitudinal reinforcement and stirrups. <i>Bulletin of Earthquake Engineering</i> , 2018, 16, 6077-6104.	4.1	33
22	Studies on mechanical properties and durability of steel fiber reinforced concrete incorporating graphene oxide. <i>Cement and Concrete Composites</i> , 2022, 130, 104508.	10.7	30
23	Motion Analysis of a Foldable Barrel Vault Based on Regular and Irregular Yoshimura Origami. <i>Journal of Mechanisms and Robotics</i> , 2016, 8, .	2.2	29
24	Numerical Simulations of Two Back-To-Back Horizontal Axis Tidal Stream Turbines in Free-Surface Flows. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2020, 87, .	2.2	29
25	Research progress on key problems of nanomaterials-modified geopolymer concrete. <i>Nanotechnology Reviews</i> , 2021, 10, 779-792.	5.8	23
26	Nonlinear wind-induced aerodynamic stability of orthotropic saddle membrane structures. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2017, 164, 119-127.	3.9	21
27	Experimental study on mechanical properties and microstructures of steel fiber-reinforced fly ash-metakaolin geopolymer-recycled concrete. <i>Reviews on Advanced Materials Science</i> , 2021, 60, 578-590.	3.3	21
28	Cooperative yaw control of wind farm using a double-layer machine learning framework. <i>Renewable Energy</i> , 2022, 193, 519-537.	8.9	21
29	Impact-induced nonlinear damped vibration of fabric membrane structure: Theory, analysis, experiment and parametric study. <i>Composites Part B: Engineering</i> , 2019, 159, 389-404.	12.0	20
30	Wrinkling modelling of space membranes subject to solar radiation pressure. <i>Composites Part B: Engineering</i> , 2019, 157, 266-275.	12.0	19
31	Computer Modeling of Wind Turbines: 2. Free-Surface FSI and Fatigue-Damage. <i>Archives of Computational Methods in Engineering</i> , 2019, 26, 1101-1115.	10.2	17
32	Layout optimization of offshore wind farm considering spatially inhomogeneous wave loads. <i>Applied Energy</i> , 2022, 306, 117947.	10.1	16
33	Integrated design framework of next-generation 85-m wind turbine blade: Modelling, aeroelasticity and optimization. <i>Composites Part B: Engineering</i> , 2019, 159, 53-61.	12.0	14
34	Isogeometric analysis based on geometric reconstruction models. <i>Frontiers of Mechanical Engineering</i> , 2021, 16, 782-797.	4.3	12
35	Protection of steel tube against corrosion using self-prestressing UHPC prepared with expansive agent and steel fibers. <i>Structures</i> , 2022, 37, 95-108.	3.6	12
36	Experimental study on effect of length of service hole on seismic behavior of exterior precast beam-column connections. <i>Structural Concrete</i> , 2019, 20, 85-96.	3.1	11

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37	Constraint Analysis and Redundancy of Planar Closed Loop Double Chain Linkages. <i>Advances in Mechanical Engineering</i> , 2014, 6, 635423.	1.6	10
38	Multi-scale response sensitivity analysis based on direct differentiation method for concrete structures. <i>Composites Part B: Engineering</i> , 2019, 157, 295-304.	12.0	10
39	Random vibration of composite saddle membrane structure under the impact loading. <i>Composite Structures</i> , 2021, 269, 114020.	5.8	9
40	Integrated design framework of 3D printed planar stainless tubular joint: Modelling, optimization, manufacturing, and experiment. <i>Thin-Walled Structures</i> , 2021, 169, 108463.	5.3	9
41	Modeling of soil-pile-structure interaction for dynamic response of standalone wind turbines. <i>Renewable Energy</i> , 2022, 186, 394-410.	8.9	9
42	Detached eddy simulation of turbulent flow fields over steep hilly terrain. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2022, 221, 104906.	3.9	8
43	Numerical Simulation for Vortex-Induced Vibration (VIV) of a High-Rise Building Based on Two-Way Coupled Fluid-Structure Interaction Method. <i>International Journal of Structural Stability and Dynamics</i> , 2022, 22, .	2.4	8
44	Tunable origami metamaterial with arbitrary single-curvature configuration. <i>Mechanism and Machine Theory</i> , 2022, 171, 104745.	4.5	7
45	Theoretical and Numerical Studies on Damped Nonlinear Vibration of Orthotropic Saddle Membrane Structures Excited by Hailstone Impact Load. <i>Shock and Vibration</i> , 2019, 2019, 1-21.	0.6	3
46	Theoretical and experimental study on nonlinear dynamic response of composite umbrella membrane structure under hail impact. <i>Thin-Walled Structures</i> , 2022, 173, 109039.	5.3	3
47	Impact of saddle membrane structure by hail with combined particle sizes: Numerical simulation and experimental investigation. <i>Engineering Structures</i> , 2022, 264, 114477.	5.3	3
48	Mobility analysis of planar radially foldable bar structures. <i>Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering</i> , 2015, 229, 694-702.	1.3	1