

Hai Huang

List of Publications by Year in descending order

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65
papers

924
citations

471509

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501196

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all docs

66
docs citations

66
times ranked

939
citing authors

#	ARTICLE	IF	CITATIONS
1	Role of NaA zeolites in the interfacial polymerization process towards a polyamide nanocomposite reverse osmosis membrane. RSC Advances, 2013, 3, 8203.	3.6	141
2	Acid and multivalent ion resistance of thin film nanocomposite RO membranes loaded with silicalite-1 nanozeolites. Journal of Materials Chemistry A, 2013, 1, 11343.	10.3	108
3	Laminate stacking sequence optimization with strength constraints using two-level approximations and adaptive genetic algorithm. Structural and Multidisciplinary Optimization, 2015, 51, 903-918.	3.5	37
4	Vibration isolation and dual-stage actuation pointing system for space precision payloads. Acta Astronautica, 2018, 143, 183-192.	3.2	36
5	Multi-objective optimal design of hybrid composite laminates for minimum cost and maximum fundamental frequency and frequency gaps. Composite Structures, 2019, 209, 268-276.	5.8	35
6	Involvement of FvSet1 in Fumonisin B1 Biosynthesis, Vegetative Growth, Fungal Virulence, and Environmental Stress Responses in Fusarium verticillioides. Toxins, 2017, 9, 43.	3.4	31
7	Stacking sequence optimization with genetic algorithm using a two-level approximation. Structural and Multidisciplinary Optimization, 2013, 48, 795-805.	3.5	30
8	Histone H3 lysine 9 methyltransferase FvDim5 regulates fungal development, pathogenicity and osmotic stress responses in Fusarium verticillioides. FEMS Microbiology Letters, 2017, 364, .	1.8	28
9	Multi-objective optimization of a composite stiffened panel for hybrid design of stiffener layout and laminate stacking sequence. Structural and Multidisciplinary Optimization, 2018, 57, 1411-1426.	3.5	26
10	DropConnect Regularization Method with Sparsity Constraint for Neural Networks. Chinese Journal of Electronics, 2016, 25, 152-158.	1.5	24
11	Design and experiments of an active isolator for satellite micro-vibration. Chinese Journal of Aeronautics, 2014, 27, 1461-1468.	5.3	23
12	Simultaneous optimization of stacking sequences and sizing with two-level approximations and a genetic algorithm. Composite Structures, 2015, 123, 180-189.	5.8	21
13	An engineering method for complex structural optimization involving both size and topology design variables. International Journal for Numerical Methods in Engineering, 2019, 117, 291-315.	2.8	21
14	Actuator placement optimization for adaptive trusses using a two-level multipoint approximation method. Structural and Multidisciplinary Optimization, 2016, 53, 29-48.	3.5	20
15	Robust fault-tolerant attitude control for satellite with multiple uncertainties and actuator faults. Chinese Journal of Aeronautics, 2020, 33, 3380-3394.	5.3	19
16	Improved genetic algorithm with two-level approximation for truss topology optimization. Structural and Multidisciplinary Optimization, 2014, 49, 795-814.	3.5	18
17	Optimal design of composite sandwich structures by considering multiple structure cases. Composite Structures, 2016, 152, 676-686.	5.8	18
18	One-pot Template-free Cross-linking Synthesis of SiO ₂ -SnO ₂ @C Hollow Spheres as a High Volumetric Capacity Anode for Lithium-ion Batteries. Energy Technology, 2020, 8, 2000314.	3.8	18

#	ARTICLE	IF	CITATIONS
19	FvSet2 regulates fungal growth, pathogenicity, and secondary metabolism in <i>Fusarium verticillioides</i> . <i>Fungal Genetics and Biology</i> , 2017, 107, 24-30.	2.1	17
20	Robust attitude control for a rigid-flexible-rigid microsatellite with multiple uncertainties and input saturations. <i>Aerospace Science and Technology</i> , 2019, 95, 105443.	4.8	17
21	Coordinative coupled attitude and orbit control for satellite formation with multiple uncertainties and actuator saturation. <i>Acta Astronautica</i> , 2021, 181, 325-335.	3.2	17
22	Topology and Sizing Optimization for Frame Structures with a Two-Level Approximation Method. <i>AIAA Journal</i> , 2017, 55, 1044-1057.	2.6	14
23	Improved genetic algorithm with two-level approximation using shape sensitivities for truss layout optimization. <i>Structural and Multidisciplinary Optimization</i> , 2017, 55, 1365-1382.	3.5	14
24	A multi-frequency MIMO control method for the 6DOF micro-vibration exciting system. <i>Acta Astronautica</i> , 2020, 170, 552-569.	3.2	14
25	Truss topology optimization considering local buckling constraints and restrictions on intersection and overlap of bar members. <i>Structural and Multidisciplinary Optimization</i> , 2018, 58, 575-594.	3.5	13
26	Performance enhancement of disturbance-free payload with a novel design of architecture and control. <i>Acta Astronautica</i> , 2019, 159, 238-249.	3.2	13
27	Optimum Design of a Space Frame and its Application in Satellite Structure. <i>Journal of Spacecraft and Rockets</i> , 2010, 47, 1063-1066.	1.9	12
28	Topology optimization of continuum structure with dynamic constraints using mode identification. <i>Journal of Mechanical Science and Technology</i> , 2015, 29, 1407-1412.	1.5	12
29	Trajectory classification in circular restricted three-body problem using support vector machine. <i>Advances in Space Research</i> , 2015, 56, 273-280.	2.6	11
30	Finite element reconstruction approach for on-orbit spacecraft breakup dynamics simulation and fragment analysis. <i>Advances in Space Research</i> , 2013, 51, 423-433.	2.6	10
31	A fast numerical approach for Whipple shield ballistic limit analysis. <i>Acta Astronautica</i> , 2014, 93, 112-120.	3.2	10
32	Comparison of Gonadal Transcriptomes Uncovers Reproduction-Related Genes with Sexually Dimorphic Expression Patterns in <i>Diodon hystrix</i> . <i>Animals</i> , 2021, 11, 1042.	2.3	9
33	Improved Genetic Algorithm with Two-Level Approximation Method for Laminate Stacking Sequence Optimization by Considering Engineering Requirements. <i>Mathematical Problems in Engineering</i> , 2015, 2015, 1-13.	1.1	8
34	Structural optimization for multiple structure cases and multiple payload cases with a two-level multipoint approximation method. <i>Chinese Journal of Aeronautics</i> , 2016, 29, 1273-1284.	5.3	8
35	Effect of Seepage Force on the Wellbore Breakdown of a Vertical Wellbore. <i>Geofluids</i> , 2021, 2021, 1-12.	0.7	7
36	Improved cyclostationary feature detection based on correlation between the signal and noise. , 2016, , .		5

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37	An Intelligent Human Behavior-Based Reasoning Model for Service Prediction in Smart Home. IEEE Access, 2018, 6, 68535-68544.	4.2	5
38	pH and temperature-responsive POSS-based poly(2-(dimethylamino)ethyl methacrylate) for highly efficient Cr(VI) adsorption. Colloid and Polymer Science, 2020, 298, 1515-1521.	2.1	5
39	Exploring the pathogenic function of Pantoea ananatis endogenous plasmid by an efficient and simple plasmid elimination strategy. Microbiological Research, 2021, 246, 126710.	5.3	5
40	An improved reconstruction method for compressive sensing based OFDM channel estimation. , 2013, , .		4
41	An approach for constituting double/multi wall BLE by single wall BLE of spacecraft shield. International Journal of Impact Engineering, 2014, 69, 114-121.	5.0	4
42	Multiple-degree-of-freedom sinusoidal vibration generation based on a hexapod platform. Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering, 2015, 229, 139-148.	1.0	4
43	Large-Scale Truss Topology and Sizing Optimization by an Improved Genetic Algorithm with Multipoint Approximation. Applied Sciences (Switzerland), 2022, 12, 407.	2.5	4
44	Sparse channel estimation in OFDM systems using improved smooth LO algorithm. , 2014, , .		3
45	Study on the criterion to determine the bottom deployment modes of a coilable mast. Acta Astronautica, 2017, 141, 89-97.	3.2	3
46	Distinct Characteristics of Bacterial Community in the Soil of Nanshazhou Island, South China Sea. Current Microbiology, 2020, 77, 1292-1300.	2.2	3
47	De Novo Transcriptomic Characterization Enables Novel Microsatellite Identification and Marker Development in Betta splendens. Life, 2021, 11, 803.	2.4	3
48	Simultaneous outline shape and size optimization for stiffeners in practical engineering structures. Acta Astronautica, 2022, 191, 216-226.	3.2	3
49	Effect of In-Situ TiB2 Particles on the Creep Properties of 3 Wt.% TiB2/Al-Cu-Mg-Ag Composite. Jom, 0, , .	1.9	3
50	Analysis of PCE-based wavelength assignment schemes in wavelength switched optical networks. , 2010, , .		2
51	Inverted antenna subset transmission technique for secure millimeter-wave wireless communication. , 2017, , .		2
52	Maximization of fundamental frequency and buckling load for the optimal stacking sequence design of laminated composite structures. Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications, 2019, 233, 1485-1499.	1.1	2
53	A Precise Identification and Control Method for the 6D Micro-Vibration Exciting System. Journal of Vibration Engineering and Technologies, 0, , 1.	2.2	2
54	Optimal design of the stacking sequences of a corrugated central cylinder in a satellite. Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications, 2019, 233, 239-253.	1.1	1

#	ARTICLE	IF	CITATIONS
55	A structural discrete size and topology optimization method with extended approximation concepts. Structural and Multidisciplinary Optimization, 2022, 65, 1.	3.5	1
56	Research and analysis of distributed signaling schemes in PCE-based Wavelength Switching Optical Network. , 2009, , .		0
57	An improved channel estimation based on generalized DFT for OFDM system. , 2014, , .		0
58	A novel network based on TD-LTE for counter-terrorism emergency communication in urban area. , 2014, , .		0
59	An improved adaptive user classification algorithm for FFR scheme. , 2014, , .		0
60	Compressive sensing based decryption method for covert CDD-OFDM transmission. , 2014, , .		0
61	An effective MIMO detection scheme for future wireless HetNet based on MU-MIMO. , 2015, , .		0
62	A topology and sizing optimization method for frame structures combined with an orthogonal-maximin Latin hypercube design(LHD) method. Journal of Physics: Conference Series, 2020, 1509, 012001.	0.4	0
63	Improved genetic algorithm with two-level multipoint approximation for complex frame structural optimization. Journal of Physics: Conference Series, 2020, 1509, 012017.	0.4	0
64	Transverse Error of ICP Piezoelectric Accelerometers and Its Correction Method in 6D Micro-vibration Excitation System. , 2021, , .		0
65	Efficient oil-water separation with amphipathic magnetic nanoparticles of $\text{Fe}_3\text{O}_4@ \text{TiO}_2$. Journal of Dispersion Science and Technology, 2023, 44, 1965-1971.	2.4	0