

Tao Zhu

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

120
papers

1,420
citations

20
h-index

33
g-index

131
ext. papers

1,916
ext. citations

3.7
avg, IF

4.95
L-index

#	Paper	IF	Citations
120	Eccentric behaviour of square CFST columns strengthened using square steel tube and high-performance concrete jackets. <i>Engineering Structures</i> , 2022 , 253, 113772	4.7	1
119	TSVD Regularization-Parameter Selection Method Based on Wilson- α and Its Application to Vertical Wheel-Rail Force Identification of Rail Vehicles. <i>Shock and Vibration</i> , 2022 , 2022, 1-19	1.1	
118	Compound self-heating strategies and multi-objective optimization for lithium-ion batteries at low temperature. <i>Applied Thermal Engineering</i> , 2021 , 186, 116158	5.8	10
117	Enrichment and Separation of Methane Gas by Vacuum Pressure Swing Adsorption. <i>Adsorption Science and Technology</i> , 2021 , 2021, 1-12	3.6	0
116	Optimal sizing and sensitivity analysis of a battery-supercapacitor energy storage system for electric vehicles. <i>Energy</i> , 2021 , 221, 119851	7.9	17
115	Adaptive energy management of a battery-supercapacitor energy storage system for electric vehicles based on flexible perception and neural network fitting. <i>Applied Energy</i> , 2021 , 292, 116932	10.7	12
114	Research on Calculation Method for Maximum Mean Acceleration in Longitudinal Train Collision. <i>Shock and Vibration</i> , 2021 , 2021, 1-16	1.1	
113	Axial behaviour of square stub CFST columns strengthened with square steel tube and HPC jacket. <i>Journal of Constructional Steel Research</i> , 2021 , 186, 106896	3.8	2
112	Inversion prediction of back propagation neural network in collision analysis of anti-climbing device. <i>Advances in Mechanical Engineering</i> , 2020 , 12, 168781402092205	1.2	2
111	Gas-phase elemental mercury removal by nano-ceramic material. <i>Nanomaterials and Nanotechnology</i> , 2020 , 10, 184798041989975	2.9	0
110	A comparative study of fatigue estimation methods for single-spot and multispot welds. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2020 , 43, 1142-1158	3	1
109	Study on Short Fatigue Crack Behaviour of LZ50 Steel Under Non-Proportional Loading. <i>Materials</i> , 2020 , 13,	3.5	3
108	Dynamic Evolution of Knowledge Sharing Behavior among Enterprises in the Cluster Innovation Network Based on Evolutionary Game Theory. <i>Sustainability</i> , 2020 , 12, 75	3.6	15
107	Axial behaviour of slender concrete-filled steel tube square columns strengthened with square concrete-filled steel tube jackets. <i>Advances in Structural Engineering</i> , 2020 , 23, 1074-1086	1.9	9
106	Sizing a battery-supercapacitor energy storage system with battery degradation consideration for high-performance electric vehicles. <i>Energy</i> , 2020 , 208, 118336	7.9	8
105	Nonlinear Spring-Mass-Damper Modeling and Parameter Estimation of Train Frontal Crash Using CLGAN Model. <i>Shock and Vibration</i> , 2020 , 2020, 1-19	1.1	0
104	Effects of MO (M=Mn, Cu, Sb, La) on V ₂ O ₅ /Ce/Ti selective catalytic reduction catalysts. <i>Journal of Rare Earths</i> , 2020 , 38, 157-166	3.7	13

103	Train collision dynamic model considering longitudinal and vertical coupling. <i>Advances in Mechanical Engineering</i> , 2019 , 11, 168781401882396	1.2	5
102	Optimization research on S-N curve of ring welding structure based on structural stress method. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2019 , 42, 2207-2219	3	1
101	Experimental Study and Life Prediction of Bolt Loosening Life under Variable Amplitude Vibration. <i>Shock and Vibration</i> , 2019 , 2019, 1-8	1.1	4
100	Advanced oxidation technology for H2S odor gas using non-thermal plasma. <i>Plasma Science and Technology</i> , 2018 , 20, 054007	1.5	7
99	Evaluation and sensitivity analysis for economical operation of active distribution network. <i>IEEJ Transactions on Electrical and Electronic Engineering</i> , 2018 , 13, 715-724	1	2
98	Effects of O2 Feeding Strategy and Over-Fire Air Configuration on Oxy-Fuel Combustion Characteristics in an Opposed Wall-Fired Utility Boiler. <i>Energy & Fuels</i> , 2018 , 32, 2479-2489	4.1	5
97	The mechanism for the coupler and draft gear and its influence on safety during a train collision. <i>Vehicle System Dynamics</i> , 2018 , 56, 1375-1393	2.8	11
96	Learning enhanced differential evolution for tracking optimal decisions in dynamic power systems. <i>Applied Soft Computing Journal</i> , 2018 , 67, 812-821	7.5	11
95	A Survey of Data Semantization in Internet of Things. <i>Sensors</i> , 2018 , 18,	3.8	36
94	Life cycle carbon emission modelling of coal-fired power: Chinese case. <i>Energy</i> , 2018 , 162, 841-852	7.9	43
93	A survey of RDF management technologies and benchmark datasets. <i>Journal of Ambient Intelligence and Humanized Computing</i> , 2018 , 9, 1693-1704	3.7	14
92	Social relationship for physical objects. <i>International Journal of Distributed Sensor Networks</i> , 2018 , 14, 155014771875496	1.7	4
91	Dynamic constitutive relation of 5083P-O aluminium alloy and its influence on energy-absorbing structure. <i>Advances in Mechanical Engineering</i> , 2018 , 10, 168781401880733	1.2	1
90	Axial Behaviour of Slender RC Circular Columns Strengthened with Circular CFST Jackets. <i>Advances in Civil Engineering</i> , 2018 , 2018, 1-11	1.3	3
89	Study on the influence factors of impact ejection performance for flexible airbag. <i>Advances in Mechanical Engineering</i> , 2018 , 10, 168781401880733	1.2	
88	Bond Behavior of Wet-Bonded Carbon Fiber-Reinforced Polymer-Concrete Interface Subjected to Moisture. <i>International Journal of Polymer Science</i> , 2018 , 2018, 1-11	2.4	8
87	Assessment of numerical integration algorithms for nonlinear vibration of railway vehicles. <i>Proceedings of the Institution of Mechanical Engineers, Part F: Journal of Rail and Rapid Transit</i> , 2017 , 231, 729-739	1.4	1
86	Cyberlogic Paves the Way From Cyber Philosophy to Cyber Science. <i>IEEE Internet of Things Journal</i> , 2017 , 4, 783-790	10.7	9

85	Co-expression of GR79 EPSPS and GAT yields herbicide-resistant cotton with low glyphosate residues. <i>Plant Biotechnology Journal</i> , 2017 , 15, 1622-1629	11.6	18
84	Solving online dynamic time-linkage problems under unreliable prediction. <i>Applied Soft Computing Journal</i> , 2017 , 56, 702-716	7.5	6
83	Increased lateral root formation by CRISPR/Cas9-mediated editing of arginase genes in cotton. <i>Science China Life Sciences</i> , 2017 , 60, 524-527	8.5	39
82	Comparison and assessment of time integration algorithms for nonlinear vibration systems. <i>Journal of Central South University</i> , 2017 , 24, 1090-1097	2.1	2
81	An Improved Approach to Estimate Methane Emissions from Coal Mining in China. <i>Environmental Science & Technology</i> , 2017 , 51, 12072-12080	10.3	20
80	Limitations of Load Balancing Mechanisms for N-Tier Systems in the Presence of Millibottlenecks 2017 ,		5
79	GFF3sort: a novel tool to sort GFF3 files for tabix indexing. <i>BMC Bioinformatics</i> , 2017 , 18, 482	3.6	1
78	The Millibottleneck Theory of Performance Bugs, and Its Experimental Verification 2017 ,		6
77	Confined-Space Mechanism Inspired by the Ingenious Fabrication of a Faster Resonance Energy Transfer System as a Ratiometric Probe for Ag ⁺ Recognition. <i>Industrial & Engineering Chemistry Research</i> , 2017 , 56, 10591-10596	3.9	5
76	Identification of an operon involved in fluoride resistance in <i>Enterobacter cloacae</i> FRM. <i>Scientific Reports</i> , 2017 , 7, 6786	4.9	8
75	CottonFGD: an integrated functional genomics database for cotton. <i>BMC Plant Biology</i> , 2017 , 17, 101	5.3	123
74	An online incremental orthogonal component analysis method for dimensionality reduction. <i>Neural Networks</i> , 2017 , 85, 33-50	9.1	8
73	An architecture for aggregating information from distributed data nodes for industrial internet of things. <i>Computers and Electrical Engineering</i> , 2017 , 58, 337-349	4.3	46
72	Large-scale super-Gaussian sources separation using Fast-ICA with rational nonlinearities. <i>International Journal of Adaptive Control and Signal Processing</i> , 2017 , 31, 379-397	2.8	5
71	milliScope: A Fine-Grained Monitoring Framework for Performance Debugging of n-Tier Web Services 2017 ,		10
70	The Analysis of Natural Lighting Simulation and Study on Energy Saving in Cigarette Factory. <i>Procedia Engineering</i> , 2017 , 205, 895-901		3
69	Activation of ABA Receptors Gene Is Positively Correlated with Cotton Drought Tolerance in Transgenic. <i>Frontiers in Plant Science</i> , 2017 , 8, 1453	6.2	21
68	An Optimized Energy Management Strategy for Preheating Vehicle-Mounted Li-ion Batteries at Subzero Temperatures. <i>Energies</i> , 2017 , 10, 243	3.1	27

67	Comparison Study of Two Semi-Active Hybrid Energy Storage Systems for Hybrid Electric Vehicle Applications and Their Experimental Validation. <i>Energies</i> , 2017 , 10, 279	3.1	18
66	Research on the Optimal Charging Strategy for Li-Ion Batteries Based on Multi-Objective Optimization. <i>Energies</i> , 2017 , 10, 709	3.1	27
65	Internet Use and Its Impact on Individual Physical Health. <i>IEEE Access</i> , 2016 , 4, 5135-5142	3.5	13
64	A design of novel damping controller combined with PID for nanopositioners 2016 ,		1
63	A Swarm Intelligence Algorithm Inspired by Twitter. <i>Lecture Notes in Computer Science</i> , 2016 , 344-351	0.9	2
62	GhABF2, a bZIP transcription factor, confers drought and salinity tolerance in cotton (<i>Gossypium hirsutum</i> L.). <i>Scientific Reports</i> , 2016 , 6, 35040	4.9	75
61	Bt protein expression in the transgenic insect-resistant cotton in China. <i>Science Bulletin</i> , 2016 , 61, 1555-1557	1.5	3
60	Special dynamic behavior of an aluminum alloy and effects on energy absorption in train collisions. <i>Advances in Mechanical Engineering</i> , 2016 , 8, 168781401664952	1.2	6
59	Optimal charging scheduling for large-scale EV (electric vehicle) deployment based on the interaction of the smart-grid and intelligent-transport systems. <i>Energy</i> , 2016 , 97, 359-368	7.9	86
58	MPSO-Based Model of Train Operation Adjustment. <i>Procedia Engineering</i> , 2016 , 137, 114-123		4
57	Microenvironment-Sensitive Fluorescent Dyes for Recognition of Serum Albumin in Urine and Imaging in Living Cells. <i>Industrial & Engineering Chemistry Research</i> , 2016 , 55, 527-533	3.9	47
56	Forecast of Train Delay Propagation Based on Max-Plus Algebra Theory. <i>Lecture Notes in Electrical Engineering</i> , 2016 , 661-672	0.2	1
55	Orthogonal component analysis: A fast dimensionality reduction algorithm. <i>Neurocomputing</i> , 2016 , 177, 136-146	5.4	3
54	Effect of Temperature Variation on Bond Characteristics between CFRP and Steel Plate. <i>International Journal of Polymer Science</i> , 2016 , 2016, 1-8	2.4	16
53	A Novel Degradation Estimation Method for a Hybrid Energy Storage System Consisting of Battery and Double-Layer Capacitor. <i>Mathematical Problems in Engineering</i> , 2016 , 2016, 1-7	1.1	
52	Progress in genome sequencing will accelerate molecular breeding in cotton (<i>Gossypium</i> spp.). <i>3 Biotech</i> , 2016 , 6, 217	2.8	13
51	STLF: Spatial-temporal-logical knowledge representation and object mapping framework 2016 ,		4
50	Vibration isolation using six degree-of-freedom quasi-zero stiffness magnetic levitation. <i>Journal of Sound and Vibration</i> , 2015 , 358, 48-73	3.9	55

49	Identification of SNPs in NPY and LEP and the association with food habit domestication traits in mandarin fish. <i>Journal of Genetics</i> , 2015 , 94, 118-122	1.2	6
48	Genome-wide survey and expression analysis of the OSCA gene family in rice. <i>BMC Plant Biology</i> , 2015 , 15, 261	5.3	40
47	An estimation of regional emission intensity of coal mine methane based on coefficient-intensity factor methodology using China as a case study 2015 , 5, 437-448		11
46	Imprecise intron losses are less frequent than precise intron losses but are not rare in plants. <i>Biology Direct</i> , 2015 , 10, 24	7.2	6
45	Study of the Tensile Properties of CFRP Strengthened Steel Plates. <i>Polymers</i> , 2015 , 7, 2595-2610	4.5	20
44	New Insights into Benzene Hydrocarbon Decomposition from Fuel Exhaust Using Self-Support Ray Polarization Plasma with Nano-TiO ₂ . <i>Journal of Nanomaterials</i> , 2015 , 2015, 1-8	3.2	
43	Volatile organic compounds emission control in industrial pollution source using plasma technology coupled with F-TiO ₂ /Al ₂ O ₃ . <i>Environmental Technology (United Kingdom)</i> , 2015 , 36, 1405-13	2.6	14
42	Roughness and micro pit defects on surface of SUS 430 stainless steel strip in cold rolling process. <i>Advances in Materials Research (South Korea)</i> , 2015 , 4, 215-226		4
41	Study on the Layered Calculation Model for Railway Network Car Flow Estimation 2015 , 147-152		
40	ICA of Noisy Music Audio Mixtures Based on Iterative Shrinkage Denoising and FastICA Using Rational Nonlinearities. <i>Circuits, Systems, and Signal Processing</i> , 2014 , 33, 1917-1956	2.2	3
39	A Genetic-Simulated Annealing Algorithm Based on PTS Technique for PAPR Reduction in OFDM System 2014 ,		3
38	Hard magnetization direction and its relation with magnetic permeability of highly grain-oriented electrical steel. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2014 , 21, 1077-1082	3.1	10
37	Two dynamic explicit methods based on double time steps. <i>Proceedings of the Institution of Mechanical Engineers, Part K: Journal of Multi-body Dynamics</i> , 2014 , 228, 330-337	0.9	2
36	Vibration Fatigue Analysis for the Frame of Vehicle Equipment. <i>Applied Mechanics and Materials</i> , 2014 , 494-495, 142-145	0.3	
35	Roughness and Glossiness of SUS430 Stainless Steel in Cold Rolling. <i>Procedia Engineering</i> , 2014 , 81, 167-172		1
34	HConfig: Resource Adaptive Fast Bulk Loading in HBase 2014 ,		5
33	Process Design and Analysis of Emergency Decision Support System for High-Speed Rail Transport Organization. <i>Lecture Notes in Electrical Engineering</i> , 2014 , 547-554	0.2	
32	Effect of Ball Scribing on Magnetic Barkhausen Noise of Grain-oriented Electrical Steel. <i>Journal of Materials Science and Technology</i> , 2013 , 29, 673-677	9.1	12

31	Frequency of intron loss correlates with processed pseudogene abundance: a novel strategy to test the reverse transcriptase model of intron loss. <i>BMC Biology</i> , 2013 , 11, 23	7.3	23
30	2013 ,		2
29	Hydrocarbon profiles and phylogenetic analyses of diversified cyanobacterial species. <i>Applied Energy</i> , 2013 , 111, 383-393	10.7	33
28	Electric Load Transient Recognition With a Cluster Weighted Modeling Method. <i>IEEE Transactions on Smart Grid</i> , 2013 , 4, 2182-2190	10.7	2
27	Performance Overhead among Three Hypervisors: An Experimental Study Using Hadoop Benchmarks 2013 ,		31
26	Experimental research on micro-pit defects of SUS 430 stainless steel strip in cold rolling process 2013 ,		1
25	Impact of Wind Farms on the Voltage of the Grid Integrated under the Ramp Changing Wind Speed. <i>Advanced Materials Research</i> , 2013 , 860-863, 419-423	0.5	
24	Study on the Interprovincial Emission Factor of Chinese Coal Mine Methane. <i>Applied Mechanics and Materials</i> , 2013 , 295-298, 3354-3358	0.3	0
23	Mechanisms of intron loss and gain in the fission yeast <i>Schizosaccharomyces</i> . <i>PLoS ONE</i> , 2013 , 8, e61683	3.7	21
22	Non-destructive Detection on the Egg Crack Based on Wavelet Transform. <i>IERI Procedia</i> , 2012 , 2, 372-382		4
21	Nonthermal Plasma Hybrid Technology for VOCs Decomposition. <i>Advanced Materials Research</i> , 2012 , 549, 238-241	0.5	1
20	Production of Gaseous Fuel from High-Ash Tailings by Pyrolysis. <i>Advanced Materials Research</i> , 2012 , 550-553, 458-463	0.5	
19	Identification of the transcriptional regulator NcrB in the nickel resistance determinant of <i>Leptospirillum ferriphilum</i> UBK03. <i>PLoS ONE</i> , 2011 , 6, e17367	3.7	17
18	Preliminary Experimental Investigation on MHD Power Generation Using Seeded Supersonic Argon Flow as Working Fluid. <i>Chinese Journal of Aeronautics</i> , 2011 , 24, 701-708	3.7	2
17	VOCs Decomposition via Modified Ferroelectric Packed Bed Dielectric Barrier Discharge Plasma. <i>IEEE Transactions on Plasma Science</i> , 2011 , 39, 1695-1700	1.3	12
16	Research on Liquid Fuels and Chemicals of Waste Blends Copyrolysis. <i>Advanced Materials Research</i> , 2011 , 391-392, 1455-1458	0.5	
15	Object Tracking Using Probabilistic Principal Component Analysis Based on Particle Filtering Framework. <i>Advanced Materials Research</i> , 2011 , 341-342, 790-797	0.5	3
14	Nano-Materials Coupled with Non-Thermal Plasma Application in Environmental Protection. <i>Advanced Materials Research</i> , 2011 , 287-290, 1599-1602	0.5	

13	Perpendicular Magnetic Anisotropy in the CoFeB/Pt Multilayers by Extraordinary Hall Effect. <i>Materials Science Forum</i> , 2011 , 694, 773-777	0.4	
12	Material Removal Mechanisms of Electric Discharge Milling Conductive Ceramic. <i>Advanced Materials Research</i> , 2011 , 308-310, 1746-1750	0.5	5
11	Study on the Mechanism of Ultrasonic Vibration Aided Electrical Discharge Milling in Deionized Water. <i>Applied Mechanics and Materials</i> , 2011 , 130-134, 1344-1347	0.3	1
10	Non-destructive Line Detection of Salted Egg Based on Image Processing and BP Neural Network. <i>Communications in Computer and Information Science</i> , 2011 , 481-488	0.3	1
9	Equilibrium and Kinetic Studies of Aqueous Cesium(I) Ions Biosorption by <i>Pseudomonas alcaligenes</i> Biomass as a Low-Cost Natural Biosorbent. <i>Advanced Materials Research</i> , 2010 , 171-172, 53-56	0.5	
8	VOCs Decomposition Using Multiple Catalysis in Non-Thermal Plasma Processing. <i>Advanced Materials Research</i> , 2010 , 152-153, 973-977	0.5	
7	Wear Rate Predication for Steel Based on Regression Analysis. <i>Advanced Materials Research</i> , 2010 , 126-128, 965-969	0.5	1
6	Formaldehyde removal from gas streams by means of NaNO ₂ dielectric barrier discharge plasma. <i>Journal of Hazardous Materials</i> , 2010 , 175, 1090-5	12.8	76
5	Synergistic effect of catalyst for oxidation removal of toluene. <i>Journal of Hazardous Materials</i> , 2009 , 165, 1258-60	12.8	33
4	A novel rate control scheme for H.264/SVC base layer 2009 ,		1
3	Disodium diaquabis(malonato- λ O,O?)nickelate(II) dihydrate. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2007 , 63, m409-m410		2
2	Regulating expression of pyruvate kinase in <i>Bacillus subtilis</i> for control of growth rate and formation of acidic byproducts. <i>Biotechnology Progress</i> , 2006 , 22, 1451-5	2.8	7
1	Principle and Application of Vibrating Suction Method 2006 ,		19