

# Tao Zhu

## List of Publications by Year in descending order

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Version: 2024-02-01

128  
papers

2,303  
citations

236833

25  
h-index

265120

42  
g-index

131  
all docs

131  
docs citations

131  
times ranked

2628  
citing authors

#	ARTICLE	IF	CITATIONS
1	CottonFGD: an integrated functional genomics database for cotton. BMC Plant Biology, 2017, 17, 101.	1.6	271
2	GhABF2, a bZIP transcription factor, confers drought and salinity tolerance in cotton (Gossypium) Tj ETQq0 0 0 rgBT /Overlock, 10 Tf 50	1.6	124
3	Optimal charging scheduling for large-scale EV (electric vehicle) deployment based on the interaction of the smart-grid and intelligent-transport systems. Energy, 2016, 97, 359-368.	4.5	123
4	Formaldehyde removal from gas streams by means of NaNO <sub>2</sub> dielectric barrier discharge plasma. Journal of Hazardous Materials, 2010, 175, 1090-1095.	6.5	97
5	Genome-wide survey and expression analysis of the OSCA gene family in rice. BMC Plant Biology, 2015, 15, 261.	1.6	78
6	Vibration isolation using six degree-of-freedom quasi-zero stiffness magnetic levitation. Journal of Sound and Vibration, 2015, 358, 48-73.	2.1	75
7	Life cycle carbon emission modelling of coal-fired power: Chinese case. Energy, 2018, 162, 841-852.	4.5	66
8	A Survey of Data Semantization in Internet of Things. Sensors, 2018, 18, 313.	2.1	62
9	Microenvironment-Sensitive Fluorescent Dyes for Recognition of Serum Albumin in Urine and Imaging in Living Cells. Industrial & Engineering Chemistry Research, 2016, 55, 527-533.	1.8	61
10	Increased lateral root formation by CRISPR/Cas9-mediated editing of arginase genes in cotton. Science China Life Sciences, 2017, 60, 524-527.	2.3	59
11	An architecture for aggregating information from distributed data nodes for industrial internet of things. Computers and Electrical Engineering, 2017, 58, 337-349.	3.0	59
12	Optimal sizing and sensitivity analysis of a battery-supercapacitor energy storage system for electric vehicles. Energy, 2021, 221, 119851.	4.5	45
13	Performance Overhead among Three Hypervisors: An Experimental Study Using Hadoop Benchmarks. , 2013, , .		41
14	An Improved Approach to Estimate Methane Emissions from Coal Mining in China. Environmental Science & Technology, 2017, 51, 12072-12080.	4.6	41
15	An Optimized Energy Management Strategy for Preheating Vehicle-Mounted Li-ion Batteries at Subzero Temperatures. Energies, 2017, 10, 243.	1.6	40
16	Synergistic effect of catalyst for oxidation removal of toluene. Journal of Hazardous Materials, 2009, 165, 1258-1260.	6.5	39
17	Hydrocarbon profiles and phylogenetic analyses of diversified cyanobacterial species. Applied Energy, 2013, 111, 383-393.	5.1	39
18	Activation of ABA Receptors Gene GhPYL9-11A Is Positively Correlated with Cotton Drought Tolerance in Transgenic Arabidopsis. Frontiers in Plant Science, 2017, 8, 1453.	1.7	38

#	ARTICLE	IF	CITATIONS
19	Research on the Optimal Charging Strategy for Li-Ion Batteries Based on Multi-Objective Optimization. Energies, 2017, 10, 709.	1.6	35
20	Internet Use and Its Impact on Individual Physical Health. IEEE Access, 2016, 4, 5135-5142.	2.6	33
21	Co-expression of <i>GR79</i> EPSPS and <i>GAT</i> yields herbicide-resistant cotton with low glyphosate residues. Plant Biotechnology Journal, 2017, 15, 1622-1629.	4.1	33
22	Adaptive energy management of a battery-supercapacitor energy storage system for electric vehicles based on flexible perception and neural network fitting. Applied Energy, 2021, 292, 116932.	5.1	32
23	Principle and Application of Vibrating Suction Method. , 2006, , .		29
24	Comparison Study of Two Semi-Active Hybrid Energy Storage Systems for Hybrid Electric Vehicle Applications and Their Experimental Validation. Energies, 2017, 10, 279.	1.6	29
25	The mechanism for the coupler and draft gear and its influence on safety during a train collision. Vehicle System Dynamics, 2018, 56, 1375-1393.	2.2	29
26	Sizing a battery-supercapacitor energy storage system with battery degradation consideration for high-performance electric vehicles. Energy, 2020, 208, 118336.	4.5	29
27	Frequency of intron loss correlates with processed pseudogene abundance: a novel strategy to test the reverse transcriptase model of intron loss. BMC Biology, 2013, 11, 23.	1.7	27
28	Mechanisms of Intron Loss and Gain in the Fission Yeast <i>Schizosaccharomyces</i> . PLoS ONE, 2013, 8, e61683.	1.1	27
29	Effects of MO (M=Mn, Cu, Sb, La) on $\text{V}^{\text{IV}}$ Mo $\text{O}_4$ Ce/Ti selective catalytic reduction catalysts. Journal of Rare Earths, 2020, 38, 157-166.	2.5	26
30	Compound self-heating strategies and multi-objective optimization for lithium-ion batteries at low temperature. Applied Thermal Engineering, 2021, 186, 116158.	3.0	26
31	Study of the Tensile Properties of CFRP Strengthened Steel Plates. Polymers, 2015, 7, 2595-2610.	2.0	25
32	Dynamic Evolution of Knowledge Sharing Behavior among Enterprises in the Cluster Innovation Network Based on Evolutionary Game Theory. Sustainability, 2020, 12, 75.	1.6	21
33	Identification of the Transcriptional Regulator NcrB in the Nickel Resistance Determinant of <i>Leptospirillum ferriphilum</i> UBK03. PLoS ONE, 2011, 6, e17367.	1.1	20
34	Effect of Temperature Variation on Bond Characteristics between CFRP and Steel Plate. International Journal of Polymer Science, 2016, 2016, 1-8.	1.2	19
35	milliScope: A Fine-Grained Monitoring Framework for Performance Debugging of n-Tier Web Services. , 2017, , .		19
36	Axial behaviour of slender concrete-filled steel tube square columns strengthened with square concrete-filled steel tube jackets. Advances in Structural Engineering, 2020, 23, 1074-1086.	1.2	19

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37	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.	2.4	18
38	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.		18
39	A survey of RDF management technologies and benchmark datasets. <i>Journal of Ambient Intelligence and Humanized Computing</i> , 2018, 9, 1693-1704.	3.3	17
40	Volatile organic compounds emission control in industrial pollution source using plasma technology coupled with F-TiO <sub>2</sub> / $\beta$ -Al <sub>2</sub> O <sub>3</sub> . <i>Environmental Technology (United Kingdom)</i> , 2015, 36, 1405-1413.	1.2	16
41	Progress in genome sequencing will accelerate molecular breeding in cotton ( <i>Gossypium</i> spp.). <i>3 Biotech</i> , 2016, 6, 217.	1.1	15
42	VOCs Decomposition via Modified Ferroelectric Packed Bed Dielectric Barrier Discharge Plasma. <i>IEEE Transactions on Plasma Science</i> , 2011, 39, 1695-1700.	0.6	14
43	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.	5.6	14
44	The Millibottleneck Theory of Performance Bugs, and Its Experimental Verification. , 2017, , .		14
45	Advanced oxidation technology for H <sub>2</sub> S odor gas using non-thermal plasma. <i>Plasma Science and Technology</i> , 2018, 20, 054007.	0.7	14
46	Learning enhanced differential evolution for tracking optimal decisions in dynamic power systems. <i>Applied Soft Computing Journal</i> , 2018, 67, 812-821.	4.1	14
47	Identification of an operon involved in fluoride resistance in <i>Enterobacter cloacae</i> FRM. <i>Scientific Reports</i> , 2017, 7, 6786.	1.6	13
48	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.	1.2	13
49	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.	2.8	12
50	Cyberlogic Paves the Way From Cyber Philosophy to Cyber Science. <i>IEEE Internet of Things Journal</i> , 2017, 4, 783-790.	5.5	11
51	Solving online dynamic time-linkage problems under unreliable prediction. <i>Applied Soft Computing Journal</i> , 2017, 56, 702-716.	4.1	11
52	Imprecise intron losses are less frequent than precise intron losses but are not rare in plants. <i>Biology Direct</i> , 2015, 10, 24.	1.9	10
53	Non-destructive Detection on the Egg Crack Based on Wavelet Transform. <i>IERI Procedia</i> , 2012, 2, 372-382.	0.3	9
54	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.	0.4	9

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55	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.	1.7	9
56	Eccentric behaviour of square CFST columns strengthened using square steel tube and high-performance concrete jackets. <i>Engineering Structures</i> , 2022, 253, 113772.	2.6	9
57	STLF: Spatial-temporal-logical knowledge representation and object mapping framework. , 2016, , .		8
58	An online incremental orthogonal component analysis method for dimensionality reduction. <i>Neural Networks</i> , 2017, 85, 33-50.	3.3	8
59	Limitations of Load Balancing Mechanisms for N-Tier Systems in the Presence of Millibottlenecks. , 2017, , .		8
60	Train collision dynamic model considering longitudinal and vertical coupling. <i>Advances in Mechanical Engineering</i> , 2019, 11, 168781401882396.	0.8	8
61	Regulating Expression of Pyruvate Kinase in <i>Bacillus subtilis</i> for Control of Growth Rate and Formation of Acidic Byproducts. <i>Biotechnology Progress</i> , 2008, 22, 1451-1455.	1.3	7
62	Special dynamic behavior of an aluminum alloy and effects on energy absorption in train collisions. <i>Advances in Mechanical Engineering</i> , 2016, 8, 168781401664952.	0.8	7
63	MPSO-Based Model of Train Operation Adjustment. <i>Procedia Engineering</i> , 2016, 137, 114-123.	1.2	7
64	Large-scale super-Gaussian sources separation using FastICA with rational nonlinearities. <i>International Journal of Adaptive Control and Signal Processing</i> , 2017, 31, 379-397.	2.3	7
65	Experimental Study and Life Prediction of Bolt Loosening Life under Variable Amplitude Vibration. <i>Shock and Vibration</i> , 2019, 2019, 1-8.	0.3	7
66	HConfig: Resource Adaptive Fast Bulk Loading in HBase. , 2014, , .		7
67	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.	1.2	6
68	Orthogonal component analysis: A fast dimensionality reduction algorithm. <i>Neurocomputing</i> , 2016, 177, 136-146.	3.5	6
69	Confined-Space Mechanism Inspired by the Ingenious Fabrication of a First Resonance Energy Transfer System as a Ratiometric Probe for Ag <sup>+</sup> Recognition. <i>Industrial &amp; Engineering Chemistry Research</i> , 2017, 56, 10591-10596.	1.8	6
70	GFF3sort: a novel tool to sort GFF3 files for tabix indexing. <i>BMC Bioinformatics</i> , 2017, 18, 482.	1.2	6
71	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.	1.7	6
72	Material Removal Mechanisms of Electric Discharge Milling Conductive Ceramic. <i>Advanced Materials Research</i> , 0, 308-310, 1746-1750.	0.3	5

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73	A Genetic-Simulated Annealing Algorithm Based on PTS Technique for PAPR Reduction in OFDM System. , 2014, , .		5
74	Bt protein expression in the transgenic insect-resistant cotton in China. Science Bulletin, 2016, 61, 1555-1557.	4.3	5
75	Effects of O <sub>2</sub> Feeding Strategy and Over-Fire Air Configuration on Oxy-Fuel Combustion Characteristics in an Opposed Wall-Fired Utility Boiler. Energy & Fuels, 2018, 32, 2479-2489.	2.5	5
76	Social relationship for physical objects. International Journal of Distributed Sensor Networks, 2018, 14, 155014771875496.	1.3	5
77	Axial Behaviour of Slender RC Circular Columns Strengthened with Circular CFST Jackets. Advances in Civil Engineering, 2018, 2018, 1-11.	0.4	5
78	Optimization research on S&N curve of ring welding structure based on structural stress method. Fatigue and Fracture of Engineering Materials and Structures, 2019, 42, 2207-2219.	1.7	5
79	Inversion prediction of back propagation neural network in collision analysis of anti-climbing device. Advances in Mechanical Engineering, 2020, 12, 168781402092205.	0.8	5
80	Roughness and micro pit defects on surface of SUS 430 stainless steel strip in cold rolling process. Advances in Materials Research (South Korea), 2015, 4, 215-226.	0.6	5
81	The Analysis of Natural Lighting Simulation and Study on Energy Saving in Cigarette Factory. Procedia Engineering, 2017, 205, 895-901.	1.2	4
82	Evaluation and sensitivity analysis for economical operation of active distribution network. IEEJ Transactions on Electrical and Electronic Engineering, 2018, 13, 715-724.	0.8	4
83	Wear Rate Predication for Steel Based on Regression Analysis. Advanced Materials Research, 2010, 126-128, 965-969.	0.3	3
84	Object Tracking Using Probabilistic Principal Component Analysis Based on Particle Filtering Framework. Advanced Materials Research, 0, 341-342, 790-797.	0.3	3
85	Electric Load Transient Recognition With a Cluster Weighted Modeling Method. IEEE Transactions on Smart Grid, 2013, 4, 2182-2190.	6.2	3
86	Study on the Interprovincial Emission Factor of Chinese Coal Mine Methane. Applied Mechanics and Materials, 0, 295-298, 3354-3358.	0.2	3
87	Roughness and Glossiness of SUS430 Stainless Steel in Cold Rolling. Procedia Engineering, 2014, 81, 167-172.	1.2	3
88	Study on Short Fatigue Crack Behaviour of LZ50 Steel Under Non-Proportional Loading. Materials, 2020, 13, 294.	1.3	3
89	Disodium diaquabis(malonato- $\eta^2$ O, $\eta^2$ )nickelate(II) dihydrate. Acta Crystallographica Section E: Structure Reports Online, 2007, 63, m409-m410.	0.2	2
90	An infrastructure for automating large-scale performance studies and data processing. , 2013, , .		2

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91	Two dynamic explicit methods based on double time steps. Proceedings of the Institution of Mechanical Engineers, Part K: Journal of Multi-body Dynamics, 2014, 228, 330-337.	0.5	2
92	A Swarm Intelligence Algorithm Inspired by Twitter. Lecture Notes in Computer Science, 2016, , 344-351.	1.0	2
93	Comparison and assessment of time integration algorithms for nonlinear vibration systems. Journal of Central South University, 2017, 24, 1090-1097.	1.2	2
94	Study on the influence factors of impact ejection performance for flexible airbag. Advances in Mechanical Engineering, 2018, 10, 168781401880733.	0.8	2
95	Gas-phase elemental mercury removal by nano-ceramic material. Nanomaterials and Nanotechnology, 2020, 10, 184798041989975.	1.2	2
96	Enrichment and Separation of Methane Gas by Vacuum Pressure Swing Adsorption. Adsorption Science and Technology, 2021, 2021, 1-12.	1.5	2
97	A novel rate control scheme for H.264/SVC base layer. , 2009, , .		1
98	VOCs Decomposition Using Multiple Catalysis in Non-Thermal Plasma Processing. Advanced Materials Research, 0, 152-153, 973-977.	0.3	1
99	Study on the Mechanism of Ultrasonic Vibration Aided Electrical Discharge Milling in Deionized Water. Applied Mechanics and Materials, 0, 130-134, 1344-1347.	0.2	1
100	Nonthermal Plasma Hybrid Technology for VOCs Decomposition. Advanced Materials Research, 2012, 549, 238-241.	0.3	1
101	Experimental research on micro-pit defects of SUS 430 stainless steel strip in cold rolling process. , 2013, , .		1
102	A design of novel damping controller combined with PID for nanopositioners. , 2016, , .		1
103	Assessment of numerical integration algorithms for nonlinear vibration of railway vehicles. Proceedings of the Institution of Mechanical Engineers, Part F: Journal of Rail and Rapid Transit, 2017, 231, 729-739.	1.3	1
104	Dynamic constitutive relation of 5083P-O aluminium alloy and its influence on energy-absorbing structure. Advances in Mechanical Engineering, 2018, 10, 168781401880733.	0.8	1
105	Optimization of Dual Energy Storage System for High-Performance Electric Vehicles. , 2018, , .		1
106	Nonlinear Spring-Mass-Damper Modeling and Parameter Estimation of Train Frontal Crash Using CLGAN Model. Shock and Vibration, 2020, 2020, 1-19.	0.3	1
107	Research on Calculation Method for Maximum Mean Acceleration in Longitudinal Train Collision. Shock and Vibration, 2021, 2021, 1-16.	0.3	1
108	Non-destructive Line Detection of Salted Egg Based on Image Processing and BP Neural Network. Communications in Computer and Information Science, 2011, , 481-488.	0.4	1

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109	Biosorption characteristics of <i>Pseudomonas fluorescens</i> PFC02 biomass for removal of Pb(II) ions from aqueous solution. , 2009, , .		0
110	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> , 0, 171-172, 53-56.	0.3	0
111	Biosorption Characteristics of <i>Pseudomonas Fluorescens</i> PFC02 Biomass and Its Use for Cobalt and Cadmium Removal. <i>International Conference on Bioinformatics and Biomedical Engineering: [proceedings] International Conference on Bioinformatics and Biomedical Engineering, 2010, , .</i>	0.0	0
112	Research on Liquid Fuels and Chemicals of Waste Blends Copyrolysis. <i>Advanced Materials Research</i> , 0, 391-392, 1455-1458.	0.3	0
113	Nano-Materials Coupled with Non-Thermal Plasma Application in Environmental Protection. <i>Advanced Materials Research</i> , 2011, 287-290, 1599-1602.	0.3	0
114	Perpendicular Magnetic Anisotropy in the CoFeB/Pt Multilayers by Extraordinary Hall Effect. <i>Materials Science Forum</i> , 0, 694, 773-777.	0.3	0
115	Production of Gaseous Fuel from High-Ash Tailings by Pyrolysis. <i>Advanced Materials Research</i> , 0, 550-553, 458-463.	0.3	0
116	Mathematical model for strip surface roughness of stainless steel in cold rolling process. , 2013, , .		0
117	Impact of Wind Farms on the Voltage of the Grid Integrated under the Ramp Changing Wind Speed. <i>Advanced Materials Research</i> , 0, 860-863, 419-423.	0.3	0
118	An incremental learning face recognition system for single sample per person. , 2013, , .		0
119	Vibration Fatigue Analysis for the Frame of Vehicle Equipment. <i>Applied Mechanics and Materials</i> , 2014, 494-495, 142-145.	0.2	0
120	New Insights into Benzene Hydrocarbon Decomposition from Fuel Exhaust Using Self-Support Ray Polarization Plasma with Nano-TiO <sub>2</sub> . <i>Journal of Nanomaterials</i> , 2015, 2015, 1-8.	1.5	0
121	Experimental Research on Development Energy Efficiency of Non-Thermal Plasma Technology. , 2015, , .		0
122	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.	0.6	0
123	Feedback control with feedforward sequence for nanopositioning system. , 2016, , .		0
124	An Experimental Study of a Biosequence Big Data Analysis Service. , 2017, , .		0
125	Modeling Military Organization Based on Multi-Agent in Battlefields. , 2008, , .		0
126	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.	0.3	0



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127	Surface Passivation Process Study with Polyimide for High Voltage IGBT. , 2017, , .		0
128	TSVD Regularization-Parameter Selection Method Based on Wilson- $\hat{\Gamma}$ , and Its Application to Vertical Wheel-Rail Force Identification of Rail Vehicles. Shock and Vibration, 2022, 2022, 1-19.	0.3	0