

Bin Xu

List of Publications by Year in descending order

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77
papers

2,449
citations

201674

27
h-index

223800

46
g-index

82
all docs

82
docs citations

82
times ranked

2547
citing authors

#	ARTICLE	IF	CITATIONS
1	Natural product-based nanomedicine: recent advances and issues. <i>International Journal of Nanomedicine</i> , 2015, 10, 6055.	6.7	189
2	Natural product-based amyloid inhibitors. <i>Biochemical Pharmacology</i> , 2017, 139, 40-55.	4.4	155
3	A comprehensive review of organic rankine cycle waste heat recovery systems in heavy-duty diesel engine applications. <i>Renewable and Sustainable Energy Reviews</i> , 2019, 107, 145-170.	16.4	137
4	Crystal structure of a β T-cell receptor specific for the human MHC class I homolog MICA. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 2414-2419.	7.1	133
5	Parametric study on reinforcement learning optimized energy management strategy for a hybrid electric vehicle. <i>Applied Energy</i> , 2020, 259, 114200.	10.1	109
6	Human health risk assessment of groundwater arsenic contamination in Jinghui irrigation district, China. <i>Journal of Environmental Management</i> , 2019, 237, 163-169.	7.8	88
7	A review of reinforcement learning based energy management systems for electrified powertrains: Progress, challenge, and potential solution. <i>Renewable and Sustainable Energy Reviews</i> , 2022, 154, 111833.	16.4	88
8	How Insulin Binds: the B-Chain β -Helix Contacts the L1 β -Helix of the Insulin Receptor. <i>Journal of Molecular Biology</i> , 2004, 341, 529-550.	4.2	74
9	Amylin Amyloid Inhibition by Flavonoid Baicalein: Key Roles of Its Vicinal Dihydroxyl Groups of the Catechol Moiety. <i>Biochemistry</i> , 2016, 55, 4255-4258.	2.5	62
10	Transient dynamic modeling and validation of an organic Rankine cycle waste heat recovery system for heavy duty diesel engine applications. <i>Applied Energy</i> , 2017, 205, 260-279.	10.1	61
11	Diabetes-Associated Mutations in Insulin: Consecutive Residues in the B Chain Contact Distinct Domains of the Insulin Receptor. <i>Biochemistry</i> , 2004, 43, 8356-8372.	2.5	58
12	Ensemble Reinforcement Learning-Based Supervisory Control of Hybrid Electric Vehicle for Fuel Economy Improvement. <i>IEEE Transactions on Transportation Electrification</i> , 2020, 6, 717-727.	7.8	52
13	Towards a novel holistic design of organic Rankine cycle (ORC) systems operating under heat source fluctuations and intermittency. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 147, 111207.	16.4	52
14	An Achilles' Heel in an Amyloidogenic Protein and Its Repair. <i>Journal of Biological Chemistry</i> , 2010, 285, 10806-10821.	3.4	49
15	Diabetes-Associated Mutations in Human Insulin: Crystal Structure and Photo-Cross-Linking Studies of A-Chain Variant InsulinWakayama. <i>Biochemistry</i> , 2005, 44, 5000-5016.	2.5	47
16	Olive Component Oleuropein Promotes β -Cell Insulin Secretion and Protects β -Cells from Amylin Amyloid-Induced Cytotoxicity. <i>Biochemistry</i> , 2017, 56, 5035-5039.	2.5	46
17	Chiral mutagenesis of insulin's hidden receptor-binding surface: structure of an Allo-isoleucineA2 analogue. <i>Journal of Molecular Biology</i> , 2002, 316, 435-441.	4.2	43
18	Decoding the Cryptic Active Conformation of a Protein by Synthetic Photoscanning. <i>Journal of Biological Chemistry</i> , 2009, 284, 14597-14608.	3.4	43

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19	Energy consumption and battery aging minimization using a Q-learning strategy for a battery/ultracapacitor electric vehicle. <i>Energy</i> , 2021, 229, 120705.	8.8	42
20	Enhancing the Activity of a Protein by Stereospecific Unfolding. <i>Journal of Biological Chemistry</i> , 2009, 284, 14586-14596.	3.4	40
21	Enhancing the Activity of Insulin at the Receptor Interface: A Crystal Structure and Photo-Cross-Linking of A8 Analogues. <i>Biochemistry</i> , 2004, 43, 16119-16133.	2.5	37
22	Protein Structure and the Spandrels of San Marco: Insulin's Receptor-Binding Surface Is Buttressed by an Invariant Leucine Essential for Its Stability. <i>Biochemistry</i> , 2002, 41, 809-819.	2.5	35
23	Comparative analysis of hybrid vehicle energy management strategies with optimization of fuel economy and battery life. <i>Energy</i> , 2021, 228, 120604.	8.8	34
24	Energy management strategy for battery/supercapacitor hybrid electric city bus based on driving pattern recognition. <i>Energy</i> , 2022, 243, 122752.	8.8	34
25	Diabetes-Associated Mutations in Insulin Identify Invariant Receptor Contacts. <i>Diabetes</i> , 2004, 53, 1599-1602.	0.6	29
26	An experimentally validated, energy focused, optimal control strategy for an Organic Rankine Cycle waste heat recovery system. <i>Applied Energy</i> , 2019, 256, 113991.	10.1	29
27	Durability testing of electronic textile surface resistivity and textile antenna performance. <i>Textile Research Journal</i> , 2019, 89, 3708-3721.	2.2	29
28	A Wide-Angle Beam Scanning Antenna in E-plane for K-band Radar Sensor. <i>IEEE Access</i> , 2019, 7, 171684-171690.	4.2	28
29	A comparative analysis of real-time power optimization for organic Rankine cycle waste heat recovery systems. <i>Applied Thermal Engineering</i> , 2020, 164, 114442.	6.0	28
30	Phytonutrient genistein is a survival factor for pancreatic β -cells via GPR30-mediated mechanism. <i>Journal of Nutritional Biochemistry</i> , 2018, 58, 59-70.	4.2	27
31	Real-time realization of Dynamic Programming using machine learning methods for IC engine waste heat recovery system power optimization. <i>Applied Energy</i> , 2020, 262, 114514.	10.1	26
32	A Q-learning based transient power optimization method for organic Rankine cycle waste heat recovery system in heavy duty diesel engine applications. <i>Applied Energy</i> , 2021, 286, 116532.	10.1	26
33	A Zero-Mode Induced mmWave Patch Antenna With Low-Profile, Wide-Bandwidth and Large-Angle Scanning for 5G Mobile Terminals. <i>IEEE Access</i> , 2019, 7, 177607-177615.	4.2	24
34	Real-Time Reinforcement Learning Optimized Energy Management for a 48V Mild Hybrid Electric Vehicle. , 0, , .		24
35	Predict failures in production lines: A two-stage approach with clustering and supervised learning. , 2016, , .		22
36	Model Predictive Control of an Organic Rankine Cycle System. <i>Energy Procedia</i> , 2017, 129, 184-191.	1.8	21

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37	Transient Power Optimization of an Organic Rankine Cycle Waste Heat Recovery System for Heavy-Duty Diesel Engine Applications. <i>SAE International Journal of Alternative Powertrains</i> , 0, 6, 25-33.	0.8	21
38	Dual-Functional MIMO Antenna Array With High Isolation for 5G/WLAN Applications in Smartphones. <i>IEEE Access</i> , 2019, 7, 167470-167480.	4.2	21
39	Hydrogeochemistry and human health risks of groundwater fluoride in Jinhuiqu irrigation district of Wei river basin, China. <i>Human and Ecological Risk Assessment (HERA)</i> , 2019, 25, 230-249.	3.4	21
40	Crystal Structure of allo-IleA2-Insulin, an Inactive Chiral Analogue: Implications for the Mechanism of Receptor Binding. <i>Biochemistry</i> , 2003, 42, 12770-12783.	2.5	20
41	Q-Learning-Based Supervisory Control Adaptability Investigation for Hybrid Electric Vehicles. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2022, 23, 6797-6806.	8.0	20
42	Soil treatment and crop rotation for <i>in situ</i> remediation of heavy metal-contaminated agricultural soil in gold mining areas. <i>Human and Ecological Risk Assessment (HERA)</i> , 2019, 25, 374-392.	3.4	18
43	Emerging hot spot analysis and the spatial-temporal trends of NDVI in the Jing River Basin of China. <i>Environmental Earth Sciences</i> , 2022, 81, 1.	2.7	18
44	Development of Autologous C5 Vaccine Nanoparticles to Reduce Intravascular Hemolysis <i>in Vivo</i> . <i>ACS Chemical Biology</i> , 2017, 12, 539-547.	3.4	17
45	Comparative analysis of state of charge based adaptive supervisory control strategies of plug-in Hybrid Electric Vehicles. <i>Energy</i> , 2021, 230, 120856.	8.8	17
46	Insights into the Impact of a Membrane-Anchoring Moiety on the Biological Activities of Bivalent Compounds As Potential Neuroprotectants for Alzheimer's Disease. <i>Journal of Medicinal Chemistry</i> , 2018, 61, 777-790.	6.4	14
47	Estimation and Predictive Control of a Parallel Evaporator Diesel Engine Waste Heat Recovery System. <i>IEEE Transactions on Control Systems Technology</i> , 2019, 27, 282-295.	5.2	14
48	A comparative analysis of dynamic evaporator models for organic Rankine cycle waste heat recovery systems. <i>Applied Thermal Engineering</i> , 2020, 165, 114576.	6.0	14
49	Rosmarinic Acid Potently Detoxifies Amylin Amyloid and Ameliorates Diabetic Pathology in a Transgenic Rat Model of Type 2 Diabetes. <i>ACS Pharmacology and Translational Science</i> , 2021, 4, 1322-1337.	4.9	14
50	Design of an Insulin Analog with Enhanced Receptor Binding Selectivity. <i>Journal of Biological Chemistry</i> , 2009, 284, 32178-32187.	3.4	13
51	Learning Time Reduction Using Warm-Start Methods for a Reinforcement Learning-Based Supervisory Control in Hybrid Electric Vehicle Applications. <i>IEEE Transactions on Transportation Electrification</i> , 2021, 7, 626-635.	7.8	12
52	Classification of Finger Movements Based on Reflection Coefficient Variations of a Body-Worn Electrically Small Antenna. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2017, , 1-1.	4.0	11
53	Hydrogeochemistry and quality assessment of groundwater in Jinghui canal irrigation district of China. <i>Human and Ecological Risk Assessment (HERA)</i> , 2020, 26, 2349-2366.	3.4	11
54	Active Metamaterial Antenna With Beam Scanning Manipulation Based on a Digitally Modulated Array Factor Method. <i>IEEE Transactions on Antennas and Propagation</i> , 2021, 69, 1198-1203.	5.1	11

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55	A Study of Vehicle Driving Condition Recognition Using Supervised Learning Methods. IEEE Transactions on Transportation Electrification, 2022, 8, 1665-1673.	7.8	11
56	A cloud-based energy management strategy for hybrid electric city bus considering real-time passenger load prediction. Journal of Energy Storage, 2022, 45, 103749.	8.1	11
57	A machine learning approach to quality monitoring of injection molding process using regression models. International Journal of Computer Integrated Manufacturing, 2021, 34, 1223-1236.	4.6	9
58	Hierarchical Q-learning network for online simultaneous optimization of energy efficiency and battery life of the battery/ultracapacitor electric vehicle. Journal of Energy Storage, 2022, 46, 103925.	8.1	9
59	Power Maximization of a Heavy Duty Diesel Organic Rankine Cycle Waste Heat Recovery System Utilizing Mechanically Coupled and Fully Electrified Turbine Expanders. , 2016, , .		8
60	A Rapid Method for Refolding Cell Surface Receptors and Ligands. Scientific Reports, 2016, 6, 26482.	3.3	8
61	Using Thermogenic Beige Cells to Identify Biologically Active Small Molecules and Peptides. Methods in Molecular Biology, 2017, 1566, 203-212.	0.9	8
62	A Rigorous Model Order Reduction Framework for Waste Heat Recovery Systems Based on Proper Orthogonal Decomposition and Galerkin Projection. IEEE Transactions on Control Systems Technology, 2020, 28, 635-643.	5.2	8
63	An enhanced evaporator model for working fluid phase length prediction, validated with experimental thermal imaging data. International Journal of Heat and Mass Transfer, 2019, 132, 194-208.	4.8	7
64	Nonlinear Model Predictive Control Strategies for a Parallel Evaporator Diesel Engine Waste Heat Recovery System. , 2016, , .		6
65	Effect of wheat straw derived biochar on immobilization of Cd and Pb in single- and binary-metal contaminated soil. Human and Ecological Risk Assessment (HERA), 2020, 26, 2420-2433.	3.4	6
66	Optimal Wireless Information and Power Transfer Using Deep Q-Network. Wireless Power Transfer, 2021, 2021, 1-12.	1.1	6
67	A Heuristic Supervisory Controller for a 48V Hybrid Electric Vehicle Considering Fuel Economy and Battery Aging. , 0, , .		6
68	Physics-Based Modeling and Transient Validation of an Organic Rankine Cycle Waste Heat Recovery System for a Heavy-Duty Diesel Engine. , 2016, , .		5
69	Machine Learning Based Optimal Energy Storage Devices Selection Assistance for Vehicle Propulsion Systems. , 0, , .		5
70	Analysis of receptor-ligand binding by photoaffinity cross-linking. Science China Chemistry, 2014, 57, 232-242.	8.2	4
71	A Look-Ahead Model Predictive Optimal Control Strategy of a Waste Heat Recovery-Organic Rankine Cycle for Automotive Application. , 0, , .		3
72	Modeling for Organic Rankine Cycle Waste Heat Recovery System Development. , 2018, , .		2

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73	Experimental Evaluation of Evaporator Thermal Inertia for an Optimal Control Strategy of an Organic Rankine Cycle Waste Heat Recovery System. SAE International Journal of Engines, 0, 13, .	0.4	2
74	Optimization of Energy Management Strategy for Range-Extended Electric Vehicle Using Reinforcement Learning and Neural Network. , 0, , .		2
75	A Fast Q-learning Energy Management Strategy for Battery/Supercapacitor Electric Vehicles Considering Energy Saving and Battery Aging. , 2021, , .		2
76	Experimental Validation of Nonlinear Model Predictive Control for a Heavy-Duty Diesel Engine Waste Heat Recovery System. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2020, 142, .	1.6	1
77	Cooperative Mandatory Lane Change for Connected Vehicles on Signalized Intersection Roads. , 0, , .		1