

Guoqiang Zhang

List of Publications by Year in descending order

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Version: 2024-02-01

37
papers

1,147
citations

471509

17
h-index

395702

33
g-index

40
all docs

40
docs citations

40
times ranked

1114
citing authors

#	ARTICLE	IF	CITATIONS
1	Robustly Superhydrophobic Conductive Textile for Efficient Electromagnetic Interference Shielding. ACS Applied Materials & Interfaces, 2019, 11, 1680-1688.	8.0	136
2	Challenges and Opportunities of Polymer Nanodielectrics for Capacitive Energy Storage. ACS Applied Materials & Interfaces, 2021, 13, 37939-37960.	8.0	106
3	Thermodynamic and economic assessment of a novel CCHP integrated system taking biomass, natural gas and geothermal energy as co-feeds. Energy Conversion and Management, 2018, 172, 105-118.	9.2	82
4	Terminal Amino Acids Disturb Xylanase Thermostability and Activity. Journal of Biological Chemistry, 2011, 286, 44710-44715.	3.4	56
5	Machine-learning based study on the on-site renewable electrical performance of an optimal hybrid PCMs integrated renewable system with high-level parameters'™ uncertainties. Renewable Energy, 2020, 151, 403-418.	8.9	55
6	Machine learning-based optimal design of a phase change material integrated renewable system with on-site PV, radiative cooling and hybrid ventilations'™ study of modelling and application in five climatic regions. Energy, 2020, 192, 116608.	8.8	52
7	Experimental research on an innovative sawdust biomass-based insulation material for buildings. Journal of Cleaner Production, 2020, 260, 121029.	9.3	49
8	Artificial neural network based multivariable optimization of a hybrid system integrated with phase change materials, active cooling and hybrid ventilations. Energy Conversion and Management, 2019, 197, 111859.	9.2	46
9	Exergy-based optimisation of a phase change materials integrated hybrid renewable system for active cooling applications using supervised machine learning method. Solar Energy, 2020, 195, 514-526.	6.1	44
10	Mass concentrations of BTEX inside air environment of buses in Changsha, China. Building and Environment, 2011, 46, 421-427.	6.9	43
11	A state-of-the-art-review on phase change materials integrated cooling systems for deterministic parametrical analysis, stochastic uncertainty-based design, single and multi-objective optimisations with machine learning applications. Energy and Buildings, 2020, 220, 110013.	6.7	38
12	Effects of Rigid Amorphous Fraction and Lamellar Crystal Orientation on Electrical Insulation of Poly(ethylene terephthalate) Films. Macromolecules, 2020, 53, 3967-3977.	4.8	34
13	A novel model based on multi-grained cascade forests with wavelet denoising for indoor occupancy estimation. Building and Environment, 2020, 167, 106461.	6.9	30
14	Optimization of a New Phase Change Material Integrated Photovoltaic/Thermal Panel with The Active Cooling Technique Using Taguchi Method. Energies, 2019, 12, 1022.	3.1	28
15	Growth-coupled evolution and high-throughput screening assisted rapid enhancement for amylase-producing Bacillus licheniformis. Bioresource Technology, 2021, 337, 125467.	9.6	27
16	Azobenzene Molecular Trigger Controlling Phase Transitions of PNIPAM in Ionic Liquids and Light-Controlled Adhesiveness. Macromolecules, 2020, 53, 4901-4907.	4.8	21
17	Recent advances in the development of Aspergillus for protein production. Bioresource Technology, 2022, 348, 126768.	9.6	19
18	Current progress and prospects of enzyme technologies in future foods. Systems Microbiology and Biomanufacturing, 2021, 1, 24-32.	2.9	16

#	ARTICLE	IF	CITATIONS
19	Combinatorial engineering for efficient production of protein-glutaminase in <i>Bacillus subtilis</i> . <i>Enzyme and Microbial Technology</i> , 2021, 150, 109863.	3.2	15
20	Application Prospect of Protein-Glutaminase in the Development of Plant-Based Protein Foods. <i>Foods</i> , 2022, 11, 440.	4.3	15
21	Optimal design and analysis of a new CHP-HP integrated system. <i>Energy Conversion and Management</i> , 2017, 146, 217-227.	9.2	14
22	How Chain Intermixing Dictates the Polymorphism of PVDF in Poly(vinylidene fluoride)/Poly(ethylene oxide) Core-Shell Particles and Latex Blend. <i>Polymers</i> , 2017, 9, 448.	4.5	13
23	Study on a Dynamic Numerical Model of an Underground Air Tunnel System for Cooling Applications—Experimental Validation and Multidimensional Parametrical Analysis. <i>Energies</i> , 2020, 13, 1236.	3.1	12
24	A Strategy to Maximally Utilize Outdoor Air for Indoor Thermal Environment. <i>Energies</i> , 2021, 14, 3987.	3.1	12
25	Protein-glutaminase: Research progress and prospect in food manufacturing. <i>Food Bioscience</i> , 2021, 43, 101314.	4.4	12
26	Exergy optimisation of a Brayton cycle-based cogeneration plant. <i>International Journal of Exergy</i> , 2009, 6, 34.	0.4	11
27	Effects of internal and external electronic conduction in sodium titanate nanotubes on dielectric loss mechanisms in relaxor ferroelectric polymer nanocomposites. <i>Polymer</i> , 2016, 103, 73-82.	3.8	10
28	Thermal performance evaluation of a new structure hot water tank integrated with phase change materials. <i>Energy Procedia</i> , 2019, 158, 5034-5040.	1.8	9
29	Performance Analysis of Solar-Assisted Ground-Coupled Heat Pump Systems with Seasonal Thermal Energy Storage to Supply Domestic Hot Water for Campus Buildings in Southern China. <i>Sustainability</i> , 2021, 13, 8344.	3.2	8
30	Enhancing extracellular production of lipoxygenase in <i>Escherichia coli</i> by signal peptides and autolysis system. <i>Microbial Cell Factories</i> , 2022, 21, 42.	4.0	8
31	Research on a Composite Biomass Insulation Material with Geopolymers as Binders and Forestry Waste as Fillers. <i>Journal of Thermal Science</i> , 2022, 31, 590-605.	1.9	7
32	Active tyrosine phenol-lyase aggregates induced by terminally attached functional peptides in <i>Escherichia coli</i> . <i>Journal of Industrial Microbiology and Biotechnology</i> , 2020, 47, 563-571.	3.0	6
33	Combinatorial strategy towards the efficient expression of lipoxygenase in <i>Escherichia coli</i> at elevated temperatures. <i>Applied Microbiology and Biotechnology</i> , 2020, 104, 10047-10057.	3.6	5
34	Understanding the Morphological and Structural Evolution of β - and γ -Poly(vinylidene fluoride) During High Temperature Uniaxial Stretching by In Situ Synchrotron X-ray Scattering. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 18567-18578.	3.7	5
35	Experimental Study on Biomass Heating System in the Greenhouse: A Case Study in Xiangtan, China. <i>Sustainability</i> , 2020, 12, 5673.	3.2	5
36	Coproduction of 5-Aminovalerate and γ -Valerolactam for the Synthesis of Nylon 5 From L-Lysine in <i>Escherichia coli</i> . <i>Frontiers in Bioengineering and Biotechnology</i> , 2021, 9, 726126.	4.1	4

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37	A Feasible and Novel Multi-Generation System Taking Advantage of Two-Stage Compressor for Luxury Hotels. Journal of Thermal Science, 2021, 30, 817-827.	1.9	2