

Guoqiang Zhang

List of Publications by Year in descending order

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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	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
2	Recent advances in the development of <i>Aspergillus</i> for protein production. <i>Bioresource Technology</i> , 2022, 348, 126768.	9.6	19
3	Application Prospect of Protein-Glutaminase in the Development of Plant-Based Protein Foods. <i>Foods</i> , 2022, 11, 440.	4.3	15
4	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
5	A Feasible and Novel Multi-Generation System Taking Advantage of Two-Stage Compressor for Luxury Hotels. <i>Journal of Thermal Science</i> , 2021, 30, 817-827.	1.9	2
6	Current progress and prospects of enzyme technologies in future foods. <i>Systems Microbiology and Biomanufacturing</i> , 2021, 1, 24-32.	2.9	16
7	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
8	A Strategy to Maximally Utilize Outdoor Air for Indoor Thermal Environment. <i>Energies</i> , 2021, 14, 3987.	3.1	12
9	Challenges and Opportunities of Polymer Nanodielectrics for Capacitive Energy Storage. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 37939-37960.	8.0	106
10	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
11	Growth-coupled evolution and high-throughput screening assisted rapid enhancement for amylase-producing <i>Bacillus licheniformis</i> . <i>Bioresource Technology</i> , 2021, 337, 125467.	9.6	27
12	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
13	Protein-glutaminase: Research progress and prospect in food manufacturing. <i>Food Bioscience</i> , 2021, 43, 101314.	4.4	12
14	A novel model based on multi-grained cascade forests with wavelet denoising for indoor occupancy estimation. <i>Building and Environment</i> , 2020, 167, 106461.	6.9	30
15	Machine-learning based study on the on-site renewable electrical performance of an optimal hybrid PCMs integrated renewable system with high-level parameters'™ uncertainties. <i>Renewable Energy</i> , 2020, 151, 403-418.	8.9	55
16	Energy-based optimisation of a phase change materials integrated hybrid renewable system for active cooling applications using supervised machine learning method. <i>Solar Energy</i> , 2020, 195, 514-526.	6.1	44
17	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. <i>Energy</i> , 2020, 192, 116608.	8.8	52
18	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

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19	Understanding the Morphological and Structural Evolution of $\hat{1}\pm$ - and $\hat{1}^3$ -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
20	Experimental Study on Biomass Heating System in the Greenhouse: A Case Study in Xiangtan, China. <i>Sustainability</i> , 2020, 12, 5673.	3.2	5
21	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
22	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
23	Effects of Rigid Amorphous Fraction and Lamellar Crystal Orientation on Electrical Insulation of Poly(ethylene terephthalate) Films. <i>Macromolecules</i> , 2020, 53, 3967-3977.	4.8	34
24	Azobenzene Molecular Trigger Controlling Phase Transitions of PNIPAM in Ionic Liquids and Light-Controlled Adhesiveness. <i>Macromolecules</i> , 2020, 53, 4901-4907.	4.8	21
25	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. <i>Energy and Buildings</i> , 2020, 220, 110013.	6.7	38
26	Experimental research on an innovative sawdust biomass-based insulation material for buildings. <i>Journal of Cleaner Production</i> , 2020, 260, 121029.	9.3	49
27	Artificial neural network based multivariable optimization of a hybrid system integrated with phase change materials, active cooling and hybrid ventilations. <i>Energy Conversion and Management</i> , 2019, 197, 111859.	9.2	46
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	Optimization of a New Phase Change Material Integrated Photovoltaic/Thermal Panel with The Active Cooling Technique Using Taguchi Method. <i>Energies</i> , 2019, 12, 1022.	3.1	28
30	Robustly Superhydrophobic Conductive Textile for Efficient Electromagnetic Interference Shielding. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 1680-1688.	8.0	136
31	Thermodynamic and economic assessment of a novel CCHP integrated system taking biomass, natural gas and geothermal energy as co-feeds. <i>Energy Conversion and Management</i> , 2018, 172, 105-118.	9.2	82
32	Optimal design and analysis of a new CHP-HP integrated system. <i>Energy Conversion and Management</i> , 2017, 146, 217-227.	9.2	14
33	How Chain Intermixing Dictates the Polymorphism of PVDF in Poly(vinylidene) Core-Shell Particles and Latex Blend. <i>Polymers</i> , 2017, 9, 448.	4.5	13
34	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
35	Mass concentrations of BTEX inside air environment of buses in Changsha, China. <i>Building and Environment</i> , 2011, 46, 421-427.	6.9	43
36	Terminal Amino Acids Disturb Xylanase Thermostability and Activity. <i>Journal of Biological Chemistry</i> , 2011, 286, 44710-44715.	3.4	56

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37	Exergy optimisation of a Brayton cycle-based cogeneration plant. International Journal of Exergy, 2009, 6, 34.	0.4	11