

# Xinxin Zhang

## List of Publications by Year in descending order

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36  
papers

708  
citations

516710

16  
h-index

580821

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g-index

36  
all docs

36  
docs citations

36  
times ranked

478  
citing authors

#	ARTICLE	IF	CITATIONS
1	Spatially variant defocus blur map estimation and deblurring from a single image. <i>Journal of Visual Communication and Image Representation</i> , 2016, 35, 257-264.	2.8	61
2	Microstructural evolution and biological performance of Cu-incorporated TiO <sub>2</sub> coating fabricated through one-step micro-arc oxidation. <i>Applied Surface Science</i> , 2020, 508, 144766.	6.1	55
3	Characterization and property of dual-functional Zn-incorporated TiO <sub>2</sub> micro-arc oxidation coatings: The influence of current density. <i>Journal of Alloys and Compounds</i> , 2019, 810, 151893.	5.5	43
4	Impact of COVID-19 pandemic on energy consumption and carbon dioxide emissions in China's transportation sector. <i>Case Studies in Thermal Engineering</i> , 2021, 26, 101091.	5.7	43
5	Experimental study and analysis on a fluidic hammer—an innovative rotary-percussion drilling tool. <i>Journal of Petroleum Science and Engineering</i> , 2019, 173, 362-370.	4.2	41
6	Growth mechanism of titania on titanium substrate during the early stage of plasma electrolytic oxidation. <i>Surface and Coatings Technology</i> , 2020, 400, 126202.	4.8	41
7	Formation mechanism, corrosion behaviour and biological property of hydroxyapatite/TiO <sub>2</sub> coatings fabricated by plasma electrolytic oxidation. <i>Surface and Coatings Technology</i> , 2020, 386, 125483.	4.8	41
8	Assessing probabilistic wind load effects via a multivariate extreme wind speed model: A unified framework to consider directionality and uncertainty. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2015, 147, 30-42.	3.9	36
9	Economic Analysis of Organic Rankine Cycle Using R123 and R245fa as Working Fluids and a Demonstration Project Report. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 288.	2.5	27
10	Working Fluid Selection for Organic Rankine Cycle Using Single-Screw Expander. <i>Energies</i> , 2019, 12, 3197.	3.1	24
11	Performance Study of a Fluidic Hammer Controlled by an Output-Fed Bistable Fluidic Oscillator. <i>Applied Sciences (Switzerland)</i> , 2016, 6, 305.	2.5	22
12	Development of applicable ice valves for ice-valve-based pressure corer employed in offshore pressure coring of gas hydrate-bearing sediments. <i>Chemical Engineering Research and Design</i> , 2016, 111, 117-126.	5.6	22
13	Fluidic DTH hammer with backward-impact-damping design for hard rock drilling. <i>Journal of Petroleum Science and Engineering</i> , 2018, 171, 1077-1083.	4.2	20
14	Investigation of RC-DTH air hammer performance using CFD approach with dynamic mesh method. <i>Journal of Advanced Research</i> , 2019, 18, 127-135.	9.5	19
15	Reverse Circulation Drilling Method Based on a Supersonic Nozzle for Dust Control. <i>Applied Sciences (Switzerland)</i> , 2017, 7, 5.	2.5	18
16	Energy-saving renovation of old urban buildings: A case study of Beijing. <i>Case Studies in Thermal Engineering</i> , 2021, 28, 101632.	5.7	17
17	Image deblurring using robust sparsity priors. , 2015, , .		15
18	Performance Analysis of a Fluidic Axial Oscillation Tool for Friction Reduction with the Absence of a Throttling Plate. <i>Applied Sciences (Switzerland)</i> , 2017, 7, 360.	2.5	15

#	ARTICLE	IF	CITATIONS
19	A fluidic oscillator with concave attachment walls and shorter splitter distance for fluidic DTH hammers. <i>Sensors and Actuators A: Physical</i> , 2018, 270, 127-135.	4.1	15
20	Design and numerical analysis of a large-diameter air reverse circulation drill bit for reverse circulation down-the-hole air hammer drilling. <i>Energy Science and Engineering</i> , 2019, 7, 921-929.	4.0	15
21	Influence of dependence of directional extreme wind speeds on wind load effects with various mean recurrence intervals. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2016, 148, 45-56.	3.9	13
22	Experimental study on a pressure-coring technology based on a freeze-core valve for marine hydrate-bearing sediment sampling. <i>Journal of Natural Gas Science and Engineering</i> , 2016, 33, 135-142.	4.4	12
23	Charging system analysis, energy consumption, and carbon dioxide emissions of battery electric buses in Beijing. <i>Case Studies in Thermal Engineering</i> , 2021, 26, 101197.	5.7	11
24	Corrosion behaviour of micro-arc oxidized titanium in NaCl solution with H <sub>2</sub> O <sub>2</sub> and albumin. <i>Materials Chemistry and Physics</i> , 2022, 276, 125376.	4.0	11
25	Geodesic Paths for Image Segmentation With Implicit Region-Based Homogeneity Enhancement. <i>IEEE Transactions on Image Processing</i> , 2021, 30, 5138-5153.	9.8	10
26	What can Beijing learn from the world megacities on energy and environmental issues?. <i>Energy Reports</i> , 2022, 8, 414-424.	5.1	10
27	All-Pass Parametric Image Registration. <i>IEEE Transactions on Image Processing</i> , 2020, 29, 5625-5640.	9.8	8
28	Zeotropic Mixture Selection for an Organic Rankine Cycle Using a Single Screw Expander. <i>Energies</i> , 2020, 13, 1022.	3.1	6
29	Numerical Investigation on the Dynamic Flow Pattern in a New Wastewater Treatment System. <i>Water (Switzerland)</i> , 2021, 13, 1101.	2.7	6
30	Development status and some considerations on Energy Internet construction in Beijing-Tianjin-Hebei region. <i>Heliyon</i> , 2022, 8, e08722.	3.2	6
31	A high-energy liquid-jet hammer with specially designed backward stroke end buffer structure. <i>Journal of Vibroengineering</i> , 2016, 18, 4935-4948.	1.0	5
32	Insight into dust control performance of a reverse circulation drill bit using multiphase flow simulation. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2022, 16, 841-857.	3.1	5
33	A numerical and laboratory study of ice layer growth and freezing characteristics in the vicinity of a vertical ice valve. <i>Applied Thermal Engineering</i> , 2017, 123, 1214-1222.	6.0	4
34	The effect of actuator parameters on the performance of a liquid-jet hammer associated with its jet behavior. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2017, 231, 2610-2620.	2.1	4
35	Handling Outliers by Robust M-Estimation in Blind Image Deblurring. <i>IEEE Transactions on Multimedia</i> , 2021, 23, 3215-3226.	7.2	4
36	Study on the Mechanism of Ionic Stabilizers on Shale Gas Reservoir Mechanics in Northwestern Hunan. <i>Energies</i> , 2019, 12, 2453.	3.1	3