

Jianzhong Xu

List of Publications by Year in descending order

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80
papers

1,966
citations

201575

27
h-index

276775

41
g-index

84
all docs

84
docs citations

84
times ranked

2368
citing authors

#	ARTICLE	IF	CITATIONS
1	Highly time-resolved urban aerosol characteristics during springtime in Yangtze River Delta, China: insights from soot particle aerosol mass spectrometry. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 9109-9127.	1.9	96
2	Mercury Distribution and Deposition in Glacier Snow over Western China. <i>Environmental Science & Technology</i> , 2012, 46, 5404-5413.	4.6	93
3	Chemical Composition of Microbe-Derived Dissolved Organic Matter in Cryoconite in Tibetan Plateau Glaciers: Insights from Fourier Transform Ion Cyclotron Resonance Mass Spectrometry Analysis. <i>Environmental Science & Technology</i> , 2016, 50, 13215-13223.	4.6	92
4	Regional Influence of Aerosol Emissions from Wildfires Driven by Combustion Efficiency: Insights from the BBOP Campaign. <i>Environmental Science & Technology</i> , 2016, 50, 8613-8622.	4.6	89
5	Determination of and evidence for non-core-shell structure of particles containing black carbon using the Single-Particle Soot Photometer (SP2). <i>Geophysical Research Letters</i> , 2012, 39, .	1.5	87
6	Chemical characterization of fine particulate matter in Changzhou, China, and source apportionment with offline aerosol mass spectrometry. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 2573-2592.	1.9	86
7	Wintertime organic and inorganic aerosols in Lanzhou, China: sources, processes, and comparison with the results during summer. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 14937-14957.	1.9	83
8	Aerosol characteristics and sources in Yangzhou, China resolved by offline aerosol mass spectrometry and other techniques. <i>Environmental Pollution</i> , 2017, 225, 74-85.	3.7	82
9	Characteristics of water soluble ionic species in fine particles from a high altitude site on the northern boundary of Tibetan Plateau: Mixture of mineral dust and anthropogenic aerosol. <i>Atmospheric Research</i> , 2014, 143, 43-56.	1.8	60
10	Dissolved Organic Matter and Inorganic Ions in a Central Himalayan Glacier—Insights into Chemical Composition and Atmospheric Sources. <i>Environmental Science & Technology</i> , 2013, 47, 6181-6188.	4.6	55
11	First Chemical Characterization of Refractory Black Carbon Aerosols and Associated Coatings over the Tibetan Plateau (4730 m a.s.l.). <i>Environmental Science & Technology</i> , 2017, 51, 14072-14082.	4.6	55
12	Characteristics and Formation Mechanisms of Fine Particulate Nitrate in Typical Urban Areas in China. <i>Atmosphere</i> , 2017, 8, 62.	1.0	52
13	A 108.83-m Ice-Core Record of Atmospheric Dust Deposition at Mt. Qomolangma (Everest), Central Himalaya. <i>Quaternary Research</i> , 2010, 73, 33-38.	1.0	45
14	Mixing State and Fractal Dimension of Soot Particles at a Remote Site in the Southeastern Tibetan Plateau. <i>Environmental Science & Technology</i> , 2019, 53, 8227-8234.	4.6	43
15	Chemical characteristics of submicron particles at the central Tibetan Plateau: insights from aerosol mass spectrometry. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 427-443.	1.9	42
16	Sr-Nd isotope evidence for modern aeolian dust sources in mountain glaciers of western China. <i>Journal of Glaciology</i> , 2012, 58, 859-865.	1.1	41
17	Numerical simulation of flow characteristics behind the aerodynamic performances on an airfoil with leading edge protuberances. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2017, 11, 193-209.	1.5	40
18	Importance of Mountain Glaciers as a Source of Dissolved Organic Carbon. <i>Journal of Geophysical Research F: Earth Surface</i> , 2018, 123, 2123-2134.	1.0	36

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19	Influences of upwind emission sources and atmospheric processing on aerosol chemistry and properties at a rural location in the Northeastern U.S.. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 6049-6065.	1.2	35
20	Dust storm activity over the Tibetan Plateau recorded by a shallow ice core from the north slope of Mt. Qomolangma (Everest), Tibetâ€Himal region. <i>Geophysical Research Letters</i> , 2007, 34, .	1.5	34
21	Seasonal variations, speciation and possible sources of mercury in the snowpack of Zhadang glacier, Mt. NyainqÃ²ntanglha, southern Tibetan Plateau. <i>Science of the Total Environment</i> , 2012, 429, 223-230.	3.9	34
22	Numerical analysis and experimental investigation of wind turbine blades with innovative features: Structural response and characteristics. <i>Science China Technological Sciences</i> , 2015, 58, 1-8.	2.0	33
23	COVIDâ€™19 Impact on the Concentration and Composition of Submicron Particulate Matter in a Typical City of Northwest China. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL089035.	1.5	33
24	Simulation of aerodynamic performance affected by vortex generators on blunt trailing-edge airfoils. <i>Science China Technological Sciences</i> , 2010, 53, 1-7.	2.0	32
25	Chemical characterization of long-range transport biomass burning emissions to the Himalayas: insights from high-resolution aerosol mass spectrometry. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 4617-4638.	1.9	29
26	Evidence for Large Amounts of Brown Carbonaceous Tarballs in the Himalayan Atmosphere. <i>Environmental Science and Technology Letters</i> , 2021, 8, 16-23.	3.9	29
27	Light absorption by water-soluble organic carbon in atmospheric fine particles in the central Tibetan Plateau. <i>Environmental Science and Pollution Research</i> , 2017, 24, 21386-21397.	2.7	28
28	Lead isotopic composition of insoluble particles from widespread mountain glaciers in western China: Natural vs. anthropogenic sources. <i>Atmospheric Environment</i> , 2013, 75, 224-232.	1.9	26
29	Storage of dissolved organic carbon in Chinese glaciers. <i>Journal of Glaciology</i> , 2016, 62, 402-406.	1.1	25
30	Molecular characterization of organic aerosol in the Himalayas: insight from ultra-high-resolution mass spectrometry. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 1115-1128.	1.9	25
31	Accumulation of Atmospheric Mercury in Glacier Cryoconite over Western China. <i>Environmental Science & Technology</i> , 2019, 53, 6632-6639.	4.6	23
32	A Hybrid Semi-empirical Model for Lean Blow-Out Limit Predictions of Aero-engine Combustors. <i>Journal of Engineering for Gas Turbines and Power</i> , 2015, 137, .	0.5	22
33	Preliminary Design and Model Assessment of a Supercritical CO2 Compressor. <i>Applied Sciences (Switzerland)</i> , 2018, 8, 595.	1.3	22
34	Chemical characterization and sources of submicron aerosols in the northeastern Qinghaiâ€™Tibet Plateau: insights from high-resolution mass spectrometry. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 7897-7911.	1.9	21
35	The effects of geometrical dimensions on the failure of composite-to-composite adhesively bonded joints. <i>Journal of Adhesion</i> , 2021, 97, 1024-1051.	1.8	19
36	Seasonal and diurnal variations in aerosol concentrations at a high-altitude site on the northern boundary of Qinghai-Xizang Plateau. <i>Atmospheric Research</i> , 2013, 120-121, 240-248.	1.8	18

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37	Tracing the sources of particles in the East Rongbuk ice core from Mt. Qomolangma. <i>Science Bulletin</i> , 2009, 54, 1781-1785.	4.3	17
38	Effect of internal bubbly flow on pipe vibrations. <i>Science China Technological Sciences</i> , 2010, 53, 423-428.	2.0	16
39	Regional Differences of Chemical Composition and Optical Properties of Aerosols in the Tibetan Plateau. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020, 125, e2019JD031226.	1.2	16
40	Modeling of delta-wing type vortex generators. <i>Science China Technological Sciences</i> , 2011, 54, 277-285.	2.0	15
41	Large thickness airfoils with high lift in the operating range of angle of attack. <i>Journal of Renewable and Sustainable Energy</i> , 2014, 6, .	0.8	15
42	Preconditioning method and engineering application of large eddy simulation. <i>Science in China Series G: Physics, Mechanics and Astronomy</i> , 2008, 51, 667-677.	0.2	14
43	Preliminary results of the close-off depth and the stable isotopic records along a 109.91 m ice core from Dome A, Antarctica. <i>Science in China Series D: Earth Sciences</i> , 2009, 52, 1502-1509.	0.9	14
44	Characteristics and sources of dissolved organic matter in a glacier in the northern Tibetan Plateau: differences between different snow categories. <i>Annals of Glaciology</i> , 2018, 59, 31-40.	2.8	13
45	A method to evaluate the overall performance of the CAS-W1 airfoils for wind turbines. <i>Journal of Renewable and Sustainable Energy</i> , 2013, 5, 063118.	0.8	12
46	A study on performance influences of airfoil aerodynamic parameters and evaluation indicators for the roughness sensitivity on wind turbine blade. <i>Science China Technological Sciences</i> , 2011, 54, 2993-2998.	2.0	11
47	An integrated turbocharger design approach to improve engine performance. <i>Science China Technological Sciences</i> , 2010, 53, 69-74.	2.0	10
48	An improved model for tip clearance loss in transonic axial compressors. <i>Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy</i> , 2018, 232, 295-314.	0.8	9
49	Chemical composition of inorganic and organic species in snow/ice in the glaciers of western China. <i>Science of the Total Environment</i> , 2020, 706, 135351.	3.9	9
50	Atmospheric Brown Carbon on the Tibetan Plateau: Regional Differences in Chemical Composition and Light Absorption Properties. <i>Environmental Science and Technology Letters</i> , 2022, 9, 219-225.	3.9	9
51	Numerical analysis of 3-D unsteady flow in a vaneless counter-rotating turbine. <i>Frontiers of Energy and Power Engineering in China</i> , 2007, 1, 352-358.	0.4	8
52	Active control of fluctuating pressure induced by blade-vortex interaction. <i>Science China Technological Sciences</i> , 2011, 54, 862-868.	2.0	8
53	Records of volcanic events since AD 1800 in the East Rongbuk ice core from Mt. Qomolangma. <i>Science Bulletin</i> , 2009, 54, 1411-1416.	4.3	7
54	Biochemical evolution of dissolved organic matter during snow metamorphism across the ablation season for a glacier on the central Tibetan Plateau. <i>Scientific Reports</i> , 2020, 10, 6123.	1.6	7

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55	The influence of rotation on natural frequencies of wind turbine blades with pre-bend. <i>Journal of Renewable and Sustainable Energy</i> , 2020, 12, 023303.	0.8	7
56	Chemical characterization and sources of submicron aerosols in Lhasa on the Qinghai-Tibet Plateau: Insights from high-resolution mass spectrometry. <i>Science of the Total Environment</i> , 2022, 815, 152866.	3.9	7
57	Investigation of influencing factors of hot streaks migration in high pressure stage of a vaneless counter-rotating turbine. <i>Science in China Series D: Earth Sciences</i> , 2008, 51, 127-144.	0.9	6
58	The impact of circumferential casing grooves on rotating instability in a transonic axial compressor. <i>Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering</i> , 2019, 233, 2868-2893.	0.7	6
59	Chemical characteristics and regional transport of submicron particulate matter at a suburban site near Lanzhou, China. <i>Environmental Research</i> , 2022, 212, 113179.	3.7	6
60	Numerical investigation of blade tip winglet on flow structure in a high loading transonic rotor. <i>Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering</i> , 2022, 236, 96-108.	0.7	5
61	Photobleaching reduces the contribution of dissolved organic carbon to glacier melting in the Himalayas and the Tibetan Plateau. <i>Science of the Total Environment</i> , 2021, 797, 149178.	3.9	5
62	Adaptive flow optimization of a turbocharger compressor to improve engine low speed performance. <i>Journal of Mechanical Science and Technology</i> , 2013, 27, 1581-1587.	0.7	4
63	H THEOREM AND SUFFICIENT CONDITIONS FOR THE DISCRETE VELOCITY DIRECTION MODEL. <i>Modern Physics Letters B</i> , 2013, 27, 1350007.	1.0	4
64	Determining Division Location for Sectional Wind Turbine Blades. <i>Energies</i> , 2017, 10, 1404.	1.6	4
65	Chemical characterization of submicron particulate matter (PM1) emitted by burning highland barley in the northeastern part of the Qinghai-Tibet Plateau. <i>Atmospheric Environment</i> , 2020, 224, 117351.	1.9	4
66	Molecular Insights into Glacial Cryoconite Dissolved Organic Matter Evolution under Dark Conditions during the Ablation Season on the Tibetan Plateau. <i>ACS Earth and Space Chemistry</i> , 2021, 5, 870-879.	1.2	4
67	Regional Differences in the Light Absorption Properties of Fine Particulate Matter Over the Tibetan Plateau: Insights From ToF-AMS and Aethalometer Measurements. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, .	1.2	4
68	Experimental investigation on unsteady pressure fluctuation of rotor tip region in high pressure stage of a vaneless counter-rotating turbine. <i>Science in China Series D: Earth Sciences</i> , 2009, 52, 1478-1483.	0.9	3
69	Investigation on the effects of winglet geometry in a high loading compressor rotor. <i>Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy</i> , 2021, 235, 1819-1831.	0.8	3
70	Measurement report: Cloud condensation nuclei activity and its variation with organic oxidation level and volatility observed during an aerosol life cycle intensive operational period (ALC-IOP). <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 13019-13029.	1.9	3
71	High-spatial-resolution distributions of aerosol chemical characteristics in urban Lanzhou, western China, during wintertime: Insights from an on-road mobile aerosol mass spectrometry measurement experiment. <i>Science of the Total Environment</i> , 2022, 819, 153069.	3.9	3
72	Inlet and outlet boundary conditions for the discrete velocity direction model. <i>Modern Physics Letters B</i> , 2018, 32, 1850048.	1.0	2

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73	Development of a New-Type Multiple-Source Heat Pump with Two-Stage Compression. Journal of Thermal Science, 2019, 28, 635-642.	0.9	2
74	Investigation of variable geometry orifice design for improving centrifugal compressor low-end performance and stable operating range. Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering, 2022, 236, 1971-1983.	0.7	2
75	Concentrations, Compositions, and Deposition Rates of Dissolved Nitrogen in Western China: Insights From Snow Records. Frontiers in Environmental Science, 2022, 9, .	1.5	2
76	The solution of transonic cascade flow by the combined shock-capturing and -fitting method. , 1987, , .		0
77	Study on topology and vortex structure in a diffusion cascade. Science in China Series D: Earth Sciences, 2009, 52, 2305-2315.	0.9	0
78	Influence of exit-to-throat width ratio on performance of high pressure convergent-divergent rotor in a vaneless counter-rotating turbine. Science China Technological Sciences, 2011, 54, 723-732.	2.0	0
79	Recent progress on renewable energy in engineering thermophysics. Science Bulletin, 2012, 57, 4400-4403.	1.7	0
80	Numerical investigations on the effect of blade tip winglet on leakage flow loss reduction for a zero inlet swirl turbine rotor. Aeronautical Journal, 0, , 1-24.	1.1	0