# Jianzhong Xu

## List of Publications by Year in descending order

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|---|---|---|---|
| 80 papers | 1,966 citations | 201674 27 h-index | 276875 41 g-index |
| 84 all docs | 84 docs citations | 84 times ranked | 2368 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Numerical investigation of blade tip winglet on flow structure in a high loading transonic rotor. Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering, 2022, 236, 96-108. | 1.3 | 5 |
| 2 | 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. | 1.3 | 2 |
| 3 | Chemical characterization and sources of submicron aerosols in Lhasa on the Qinghaiâ€“Tibet Plateau: Insights from high-resolution mass spectrometry. Science of the Total Environment, 2022, 815, 152866. | 8.0 | 7 |
| 4 | Concentrations, Compositions, and Deposition Rates of Dissolved Nitrogen in Western China: Insights From Snow Records. Frontiers in Environmental Science, 2022, 9, . | 3.3 | 2 |
| 5 | 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. Science of the Total Environment, 2022, 819, 153069. | 8.0 | 3 |
| 6 | Atmospheric Brown Carbon on the Tibetan Plateau: Regional Differences in Chemical Composition and Light Absorption Properties. Environmental Science and Technology Letters, 2022, 9, 219-225. | 8.7 | 9 |
| 7 | Chemical characteristics and regional transport of submicron particulate matter at a suburban site near Lanzhou, China. Environmental Research, 2022, 212, 113179. | 7.5 | 6 |
| 8 | The effects of geometrical dimensions on the failure of composite-to-composite adhesively bonded joints. Journal of Adhesion, 2021, 97, 1024-1051. | 3.0 | 19 |
| 9 | Evidence for Large Amounts of Brown Carbonaceous Tarballs in the Himalayan Atmosphere. Environmental Science and Technology Letters, 2021, 8, 16-23. | 8.7 | 29 |
| 10 | Molecular Insights into Glacial Cryoconite Dissolved Organic Matter Evolution under Dark Conditions during the Ablation Season on the Tibetan Plateau. ACS Earth and Space Chemistry, 2021, 5, 870-879. | 2.7 | 4 |
| 11 | Investigation on the effects of winglet geometry in a high loading compressor rotor. Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy, 2021, 235, 1819-1831. | 1.4 | 3 |
| 12 | 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). Atmospheric Chemistry and Physics, 2021, 21, 13019-13029. | 4.9 | 3 |
| 13 | Photobleaching reduces the contribution of dissolved organic carbon to glacier melting in the Himalayas and the Tibetan Plateau. Science of the Total Environment, 2021, 797, 149178. | 8.0 | 5 |
| 14 | Regional Differences in the Light Absorption Properties of Fine Particulate Matter Over the Tibetan Plateau: Insights From HRâ€ToFâ€AMS and Aethalometer Measurements. Journal of Geophysical Research D: Atmospheres, 2021, 126, . | 3.3 | 4 |
| 15 | Regional Differences of Chemical Composition and Optical Properties of Aerosols in the Tibetan Plateau. Journal of Geophysical Research D: Atmospheres, 2020, 125, e2019JD031226. | 3.3 | 16 |
| 16 | Chemical composition of inorganic and organic species in snow/ice in the glaciers of western China. Science of the Total Environment, 2020, 706, 135351. | 8.0 | 9 |
| 17 | COVIDâ€19 Impact on the Concentration and Composition of Submicron Particulate Matter in a Typical City of Northwest China. Geophysical Research Letters, 2020, 47, e2020GL089035. | 4.0 | 33 |
| 18 | Biochemical evolution of dissolved organic matter during snow metamorphism across the ablation season for a glacier on the central Tibetan Plateau. Scientific Reports, 2020, 10, 6123. | 3.3 | 7 |

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|---|---|---|---|
| 19 | Chemical characterization of submicron particulate matter (PM1) emitted by burning highland barley in the northeastern part of the Qinghaiâ€“Tibet Plateau. Atmospheric Environment, 2020, 224, 117351. | 4.1 | 4 |
| 20 | The influence of rotation on natural frequencies of wind turbine blades with pre-bend. Journal of Renewable and Sustainable Energy, 2020, 12, 023303. | 2.0 | 7 |
| 21 | The impact of circumferential casing grooves on rotating instability in a transonic axial compressor. Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering, 2019, 233, 2868-2893. | 1.3 | 6 |
| 22 | Chemical characterization and sources of submicron aerosols in the northeastern Qinghaiâ€“Tibet Plateau: insights from high-resolution mass spectrometry. Atmospheric Chemistry and Physics, 2019, 19, 7897-7911. | 4.9 | 21 |
| 23 | Accumulation of Atmospheric Mercury in Glacier Cryoconite over Western China. Environmental Science & Technology, 2019, 53, 6632-6639. | 10.0 | 23 |
| 24 | Mixing State and Fractal Dimension of Soot Particles at a Remote Site in the Southeastern Tibetan Plateau. Environmental Science & Technology, 2019, 53, 8227-8234. | 10.0 | 43 |
| 25 | Development of a New-Type Multiple-Source Heat Pump with Two-Stage Compression. Journal of Thermal Science, 2019, 28, 635-642. | 1.9 | 2 |
| 26 | Molecular characterization of organic aerosol in the Himalayas: insight from ultra-high-resolution mass spectrometry. Atmospheric Chemistry and Physics, 2019, 19, 1115-1128. | 4.9 | 25 |
| 27 | Chemical characterization of long-range transport biomass burning emissions to the Himalayas: insights from high-resolution aerosol mass spectrometry. Atmospheric Chemistry and Physics, 2018, 18, 4617-4638. | 4.9 | 29 |
| 28 | Inlet and outlet boundary conditions for the discrete velocity direction model. Modern Physics Letters B, 2018, 32, 1850048. | 1.9 | 2 |
| 29 | Chemical characteristics of submicron particles at the central Tibetan Plateau: insights from aerosol mass spectrometry. Atmospheric Chemistry and Physics, 2018, 18, 427-443. | 4.9 | 42 |
| 30 | An improved model for tip clearance loss in transonic axial compressors. Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy, 2018, 232, 295-314. | 1.4 | 9 |
| 31 | Characteristics and sources of dissolved organic matter in a glacier in the northern Tibetan Plateau: differences between different snow categories. Annals of Glaciology, 2018, 59, 31-40. | 1.4 | 13 |
| 32 | Importance of Mountain Glaciers as a Source of Dissolved Organic Carbon. Journal of Geophysical Research F: Earth Surface, 2018, 123, 2123-2134. | 2.8 | 36 |
| 33 | Preliminary Design and Model Assessment of a Supercritical CO2 Compressor. Applied Sciences (Switzerland), 2018, 8, 595. | 2.5 | 22 |
| 34 | Numerical simulation of flow characteristics behind the aerodynamic performances on an airfoil with leading edge protuberances. Engineering Applications of Computational Fluid Mechanics, 2017, 11, 193-209. | 3.1 | 40 |
| 35 | Aerosol characteristics and sources in Yangzhou, China resolved by offline aerosol mass spectrometry and other techniques. Environmental Pollution, 2017, 225, 74-85. | 7.5 | 82 |
| 36 | Light absorption by water-soluble organic carbon in atmospheric fine particles in the central Tibetan Plateau. Environmental Science and Pollution Research, 2017, 24, 21386-21397. | 5.3 | 28 |

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|---|---|---|---|
| 37 | First Chemical Characterization of Refractory Black Carbon Aerosols and Associated Coatings over the Tibetan Plateau (4730 m a.s.l). Environmental Science & Technology, 2017, 51, 14072-14082. | 10.0 | 55 |
| 38 | Chemical characterization of fine particulate matter in Changzhou, China, and source apportionment with offline aerosol mass spectrometry. Atmospheric Chemistry and Physics, 2017, 17, 2573-2592. | 4.9 | 86 |
| 39 | Determining Division Location for Sectional Wind Turbine Blades. Energies, 2017, 10, 1404. | 3.1 | 4 |
| 40 | Characteristics and Formation Mechanisms of Fine Particulate Nitrate in Typical Urban Areas in China. Atmosphere, 2017, 8, 62. | 2.3 | 52 |
| 41 | Storage of dissolved organic carbon in Chinese glaciers. Journal of Glaciology, 2016, 62, 402-406. | 2.2 | 25 |
| 42 | Wintertime organic and inorganic aerosols in Lanzhou, China: sources, processes, and comparison with the results during summer. Atmospheric Chemistry and Physics, 2016, 16, 14937-14957. | 4.9 | 83 |
| 43 | Regional Influence of Aerosol Emissions from Wildfires Driven by Combustion Efficiency: Insights from the BBOP Campaign. Environmental Science & Technology, 2016, 50, 8613-8622. | 10.0 | 89 |
| 44 | Chemical Composition of Microbe-Derived Dissolved Organic Matter in Cryoconite in Tibetan Plateau Glaciers: Insights from Fourier Transform Ion Cyclotron Resonance Mass Spectrometry Analysis. Environmental Science & Technology, 2016, 50, 13215-13223. | 10.0 | 92 |
| 45 | Influences of upwind emission sources and atmospheric processing on aerosol chemistry and properties at a rural location in the Northeastern U.S.. Journal of Geophysical Research D: Atmospheres, 2016, 121, 6049-6065. | 3.3 | 35 |
| 46 | Highly time-resolved urban aerosol characteristics during springtime in Yangtze River Delta, China: insights from soot particle aerosol mass spectrometry. Atmospheric Chemistry and Physics, 2016, 16, 9109-9127. | 4.9 | 96 |
| 47 | A Hybrid Semi-empirical Model for Lean Blow-Out Limit Predictions of Aero-engine Combustors. Journal of Engineering for Gas Turbines and Power, 2015, 137, . | 1.1 | 22 |
| 48 | Numerical analysis and experimental investigation of wind turbine blades with innovative features: Structural response and characteristics. Science China Technological Sciences, 2015, 58, 1-8. | 4.0 | 33 |
| 49 | Large thickness airfoils with high lift in the operating range of angle of attack. Journal of Renewable and Sustainable Energy, 2014, 6, . | 2.0 | 15 |
| 50 | 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. Atmospheric Research, 2014, 143, 43-56. | 4.1 | 60 |
| 51 | Adaptive flow optimization of a turbocharger compressor to improve engine low speed performance. Journal of Mechanical Science and Technology, 2013, 27, 1581-1587. | 1.5 | 4 |
| 52 | Lead isotopic composition of insoluble particles from widespread mountain glaciers in western China: Natural vs. anthropogenic sources. Atmospheric Environment, 2013, 75, 224-232. | 4.1 | 26 |
| 53 | Seasonal and diurnal variations in aerosol concentrations at a high-altitude site on the northern boundary of Qinghai-Xizang Plateau. Atmospheric Research, 2013, 120-121, 240-248. | 4.1 | 18 |
| 54 | Dissolved Organic Matter and Inorganic Ions in a Central Himalayan Glacierâ€"Insights into Chemical Composition and Atmospheric Sources. Environmental Science & Technology, 2013, 47, 6181-6188. | 10.0 | 55 |

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|---|---|---|---|
| 55 | A method to evaluate the overall performance of the CAS-W1 airfoils for wind turbines. Journal of Renewable and Sustainable Energy, 2013, 5, 063118. | 2.0 | 12 |
| 56 | H THEOREM AND SUFFICIENT CONDITIONS FOR THE DISCRETE VELOCITY DIRECTION MODEL. Modern Physics Letters B, 2013, 27, 1350007. | 1.9 | 4 |
| 57 | Sr-Nd isotope evidence for modern aeolian dust sources in mountain glaciers of western China. Journal of Glaciology, 2012, 58, 859-865. | 2.2 | 41 |
| 58 | Mercury Distribution and Deposition in Glacier Snow over Western China. Environmental Science & Technology, 2012, 46, 5404-5413. | 10.0 | 93 |
| 59 | Determination of and evidence for nonâ€coreâ€shell structure of particles containing black carbon using the Singleâ€Particle Soot Photometer (SP2). Geophysical Research Letters, 2012, 39, . | 4.0 | 87 |
| 60 | Recent progress on renewable energy in engineering thermophysics. Science Bulletin, 2012, 57, 4400-4403. | 1.7 | 0 |
| 61 | Seasonal variations, speciation and possible sources of mercury in the snowpack of Zhadang glacier, Mt. NyainqÃªntanglha, southern Tibetan Plateau. Science of the Total Environment, 2012, 429, 223-230. | 8.0 | 34 |
| 62 | 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. | 4.0 | 0 |
| 63 | Active control of fluctuating pressure induced by blade-vortex interaction. Science China Technological Sciences, 2011, 54, 862-868. | 4.0 | 8 |
| 64 | Modeling of delta-wing type vortex generators. Science China Technological Sciences, 2011, 54, 277-285. | 4.0 | 15 |
| 65 | A study on performance influences of airfoil aerodynamic parameters and evaluation indicators for the roughness sensitivity on wind turbine blade. Science China Technological Sciences, 2011, 54, 2993-2998. | 4.0 | 11 |
| 66 | Effect of internal bubbly flow on pipe vibrations. Science China Technological Sciences, 2010, 53, 423-428. | 4.0 | 16 |
| 67 | An integrated turbocharger design approach to improve engine performance. Science China Technological Sciences, 2010, 53, 69-74. | 4.0 | 10 |
| 68 | Simulation of aerodynamic performance affected by vortex generators on blunt trailing-edge airfoils. Science China Technological Sciences, 2010, 53, 1-7. | 4.0 | 32 |
| 69 | A 108.83-m Ice-Core Record of Atmospheric Dust Deposition at Mt. Qomolangma (Everest), Central Himalaya. Quaternary Research, 2010, 73, 33-38. | 1.7 | 45 |
| 70 | Preliminary results of the close-off depth and the stable isotopic records along a 109.91 m ice core from Dome A, Antarctica. Science in China Series D: Earth Sciences, 2009, 52, 1502-1509. | 0.9 | 14 |
| 71 | Study on topology and vortex structure in a diffusion cascade. Science in China Series D: Earth Sciences, 2009, 52, 2305-2315. | 0.9 | 0 |
| 72 | Experimental investigation on unsteady pressure fluctuation of rotor tip region in high pressure stage of a vaneless counter-rotating turbine. Science in China Series D: Earth Sciences, 2009, 52, 1478-1483. | 0.9 | 3 |

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|---|---|---|---|
| 73 | Records of volcanic events since AD 1800 in the East Rongbuk ice core from Mt. Qomolangma. Science Bulletin, 2009, 54, 1411-1416. | 9.0 | 7 |
| 74 | Tracing the sources of particles in the East Rongbuk ice core from Mt. Qomolangma. Science Bulletin, 2009, 54, 1781-1785. | 9.0 | 17 |
| 75 | Investigation of influencing factors of hot streaks migration in high pressure stage of a vaneless counter-rotating turbine. Science in China Series D: Earth Sciences, 2008, 51, 127-144. | 0.9 | 6 |
| 76 | Preconditioning method and engineering application of large eddy simulation. Science in China Series G: Physics, Mechanics and Astronomy, 2008, 51, 667-677. | 0.2 | 14 |
| 77 | Dust storm activity over the Tibetan Plateau recorded by a shallow ice core from the north slope of Mt. Qomolangma (Everest), Tibetâ€Himal region. Geophysical Research Letters, 2007, 34, . | 4.0 | 34 |
| 78 | Numerical analysis of 3-D unsteady flow in a vaneless counter-rotating turbine. Frontiers of Energy and Power Engineering in China, 2007, 1, 352-358. | 0.4 | 8 |
| 79 | The solution of transonic cascade flow by the combined shock-capturing and -fitting method. , 1987, , . | | 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. | 1.6 | 0 |