# Hao Zhang

List of Publications by Year
in descending order

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|---|---|---|---|
| 32<br>papers | 1,086<br>citations | 516215<br>16<br>h-index | 433756<br>31<br>g-index |
| 32<br>all docs | 32<br>docs citations | 32<br>times ranked | 545<br>citing authors |

| # | Article | IF | Citations |
|---|---------|-----|-----------|
| 1 | Stochastic dynamic modeling and simulation of a pump-turbine in load-rejection process. Journal of Energy Storage, 2021, 35, 102196. | 3.9 | 11 |
| 2 | Transient stability of a hydro-turbine governing system with different tailrace tunnels. Journal of Hydraulic Research/De Recherches Hydrauliques, 2020, 58, 60-69. | 0.7 | 5 |
| 3 | Transient analysis of a multi-unit pumped storage system during load rejection process. Renewable Energy, 2020, 152, 34-43. | 4.3 | 18 |
| 4 | Dynamic characteristics of a hydro‐turbine governing system considering draft tube pressure pulsation. IET Renewable Power Generation, 2020, 14, 1210-1218. | 1.7 | 14 |
| 5 | Transient dynamic analysis of a pump-turbine with hysteresis effect. Modern Physics Letters B, 2020, 34, 2050125. | 1.0 | 7 |
| 6 | Fast–slow dynamic behaviors of a hydraulic generating system with multi-timescales. JVC/Journal of Vibration and Control, 2019, 25, 2863-2874. | 1.5 | 7 |
| 7 | No-Load Stability Analysis of Pump Turbine at Startup-Grid Integration Process. Journal of Fluids Engineering, Transactions of the ASME, 2019, 141, . | 0.8 | 2 |
| 8 | Dynamic Analysis of Hydro-Turbine Governing System with Multistochastic Factors. Journal of Computational and Nonlinear Dynamics, 2019, 14, . | 0.7 | 1 |
| 9 | Dynamical assessment of a PTGS with time delay. IET Renewable Power Generation, 2019, 13, 2594-2603. | 1.7 | 2 |
| 10 | A novel surface-cluster approach towards transient modeling of hydro-turbine governing systems in the start-up process. Energy Conversion and Management, 2018, 165, 861-868. | 4.4 | 31 |
| 11 | Dynamics analysis of the fast-slow hydro-turbine governing system with different time-scale coupling. Communications in Nonlinear Science and Numerical Simulation, 2018, 54, 136-147. | 1.7 | 49 |
| 12 | Fractional-Order Modeling and Dynamical Analysis of a Francis Hydro-Turbine Governing System with Complex Penstocks. Transactions of Tianjin University, 2018, 24, 32-44. | 3.3 | 7 |
| 13 | Dynamic analysis of a pumped-storage hydropower plant with random power load. Mechanical Systems and Signal Processing, 2018, 100, 524-533. | 4.4 | 39 |
| 14 | Nonlinear fast–slow dynamics of a coupled fractional order hydropower generation system. Chinese Physics B, 2018, 27, 128202. | 0.7 | 7 |
| 15 | Shaft mis-alignment induced vibration of a hydraulic turbine generating system considering parametric uncertainties. Journal of Sound and Vibration, 2018, 435, 74-90. | 2.1 | 31 |
| 16 | Stability of multi-hydro-turbine governing time-delay systems with sharing tailrace surge tank. Journal of Vibroengineering, 2018, 20, 2734-2744. | 0.5 | 2 |
| 17 | Dynamic modeling and dynamical analysis of pump-turbines in S-shaped regions during runaway operation. Energy Conversion and Management, 2017, 138, 375-382. | 4.4 | 79 |
| 18 | Switched Model and Dynamic Analysis of a Hydroturbine Governing System in the Process of Load Rejection Transient. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2017, 139, . | 0.9 | 2 |

| # | Article | IF | Citations |
|---|---------|-----|-----------|
| 19 | Bifurcation Analysis of Charged Particles Moving on a Rough Surface Under Different Damping Effects. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2017, 27, 1750069. | 0.7 | 0 |
| 20 | Nonlinear Modal Analysis of Transient Behavior in Cascade DC–DC Boost Converters. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2017, 27, 1750140. | 0.7 | 12 |
| 21 | Hamiltonian model and dynamic analyses for a hydro-turbine governing system with fractional item and time-lag. Communications in Nonlinear Science and Numerical Simulation, 2017, 47, 35-47. | 1.7 | 39 |
| 22 | Hamiltonian analysis of a hydro-energy generation system in the transient of sudden load increasing. Applied Energy, 2017, 185, 244-253. | 5.1 | 98 |
| 23 | The slow-fast dynamical behaviors of a hydro-turbine governing system under periodic excitations. Nonlinear Dynamics, 2017, 87, 2519-2528. | 2.7 | 32 |
| 24 | Bursting oscillations in a hydro-turbine governing system with two time scales. Chinese Physics B, 2017, 26, 128202. | 0.7 | 6 |
| 25 | Nonlinear modeling and dynamic analysis of a hydro-turbine governing system in the process of sudden load increase transient. Mechanical Systems and Signal Processing, 2016, 80, 414-428. | 4.4 | 83 |
| 26 | Nonlinear dynamics of a novel fractional-order Francis hydro-turbine governing system with time delay. Chaos, Solitons and Fractals, 2016, 91, 329-338. | 2.5 | 45 |
| 27 | Hamiltonian modeling of multi-hydro-turbine governing systems with sharing common penstock and dynamic analyses under shock load. Energy Conversion and Management, 2016, 108, 478-487. | 4.4 | 114 |
| 28 | Controllability of fractional-order Chua's circuit. Chinese Physics B, 2015, 24, 030203. | 0.7 | 4 |
| 29 | Modeling and stability analysis of a fractional-order Francis hydro-turbine governing system. Chaos, Solitons and Fractals, 2015, 75, 50-61. | 2.5 | 85 |
| 30 | The modeling of the fractional-order shafting system for a water jet mixed-flow pump during the startup process. Communications in Nonlinear Science and Numerical Simulation, 2015, 29, 12-24. | 1.7 | 18 |
| 31 | Dynamic analysis and modeling of a novel fractional-order hydro-turbine-generator unit. Nonlinear Dynamics, 2015, 81, 1263-1274. | 2.7 | 134 |
| 32 | Nonlinear modeling and dynamic analysis of hydro-turbine governing system in the process of load rejection transient. Energy Conversion and Management, 2015, 90, 128-137. | 4.4 | 102 |