# James Braun

## List of Publications by Year
## in descending order

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|---|---|---|---|
| 16 papers | 236 citations | 1163117<br>8 h-index | 1058476<br>14 g-index |
| 16 all docs | 16 docs citations | 16 times ranked | 136 citing authors |

| # | Article | IF | Citations |
|---|---------|----|-----------|
| 1 | A Simplified Method for Determining Optimal Cooling Control Strategies for Thermal Storage in Building Mass. HVAC and R Research, 1996, 2, 59-78. | 0.6 | 44 |
| 2 | On the effects of reactant stratification and wall curvature in non-premixed rotating detonation combustors. Combustion and Flame, 2022, 240, 112013. | 5.2 | 33 |
| 3 | Experimental study of internal flow structures in cylindrical rotating detonation engines. Proceedings of the Combustion Institute, 2021, 38, 3759-3768. | 3.9 | 32 |
| 4 | Numerical Assessment of the Convective Heat Transfer in Rotating Detonation Combustors Using a Reduced-Order Model. Applied Sciences (Switzerland), 2018, 8, 893. | 2.5 | 29 |
| 5 | Femtosecond/picosecond rotational coherent anti-Stokes Raman scattering thermometry in the exhaust of a rotating detonation combustor. Combustion and Flame, 2021, 231, 111504. | 5.2 | 21 |
| 6 | An inverse hygrothermal model for multi-zone buildings. Journal of Building Performance Simulation, 2016, 9, 510-528. | 2.0 | 17 |
| 7 | Application of femtosecond laser electronic excitation tagging (FLEET) velocimetry in a bladeless turbine. Measurement Science and Technology, 2020, 31, 064005. | 2.6 | 15 |
| 8 | Design and Experimental Assessment of Bladeless Turbines for Axial Inlet Supersonic Flows. Journal of Engineering for Gas Turbines and Power, 2020, 142, . | 1.1 | 10 |
| 9 | Multi-stage nozzle-shape optimization for pulsed hydrogen–air detonation combustor. Advances in Mechanical Engineering, 2017, 9, 168781401769095. | 1.6 | 8 |
| 10 | Integration of a transonic high-pressure turbine with a rotating detonation combustor and a diffuser. International Journal of Turbo and Jet Engines, 2020, . | 0.7 | 7 |
| 11 | Comparative evaluation of model predictive control strategies for a building HVAC system. , 2013, , . | | 5 |
| 12 | Aerothermal Optimization of Bladeless Turbines. Journal of Engineering for Gas Turbines and Power, 2021, 143, . | 1.1 | 5 |
| 13 | Real-time model for unit-level heating and cooling energy prediction in multi-family residential housing. Journal of Building Performance Simulation, 2021, 14, 420-445. | 2.0 | 4 |
| 14 | A data-driven model for building energy normalization to enable eco-feedback in multi-family residential buildings with smart and connected technology. Journal of Building Performance Simulation, 2021, 14, 343-365. | 2.0 | 3 |
| 15 | Supersonic Exhaust from a Rotating Detonation Engine with Throatless Diverging Channel. AIAA Journal, 2022, 60, 4015-4023. | 2.6 | 3 |
| 16 | A scalable and practical method for disaggregating heating and cooling electrical usage using smart thermostat and smart metre data. Journal of Building Performance Simulation, 2022, 15, 251-267. | 2.0 | 0 |