

# James Braun

## List of Publications by Year in descending order

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16  
papers

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citations

1163117

8  
h-index

1058476

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16  
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16  
docs citations

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times ranked

136  
citing authors

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