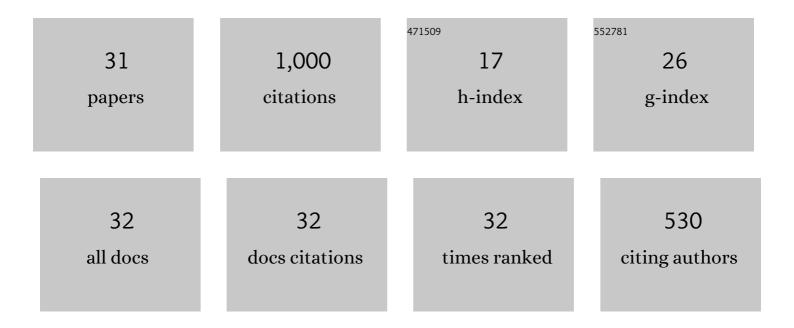
Brian Peterson

List of Publications by Year in descending order

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RDIAN DETERSON

#	Article	IF	CITATIONS
1	On the ignition and flame development in a spray-guided direct-injection spark-ignition engine. Combustion and Flame, 2014, 161, 240-255.	5.2	112
2	On The Validation of LES Applied to Internal Combustion Engine Flows: Part 1: Comprehensive Experimental Database. Flow, Turbulence and Combustion, 2014, 92, 269-297.	2.6	110
3	High-speed imaging analysis of misfires in a spray-guided direct injection engine. Proceedings of the Combustion Institute, 2011, 33, 3089-3096.	3.9	96
4	Investigation of the 3D flow field in an IC engine using tomographic PIV. Proceedings of the Combustion Institute, 2013, 34, 2903-2910.	3.9	83
5	High-speed PIV and LIF imaging of temperature stratification in an internal combustion engine. Proceedings of the Combustion Institute, 2013, 34, 3653-3660.	3.9	62
6	Evaluation of toluene LIF thermometry detection strategies applied in an internal combustion engine. Applied Physics B: Lasers and Optics, 2014, 117, 151-175.	2.2	45
7	Early flame propagation in a spark-ignition engine measured with quasi 4D-diagnostics. Proceedings of the Combustion Institute, 2015, 35, 3829-3837.	3.9	45
8	The Influence of Cylinder Head Geometry Variations on the Volumetric Intake Flow Captured by Magnetic Resonance Velocimetry. SAE International Journal of Engines, 0, 8, 1826-1836.	0.4	44
9	Simultaneous flow field and fuel concentration imaging at 4.8ÂkHz in an operating engine. Applied Physics B: Lasers and Optics, 2009, 97, 887-895.	2.2	43
10	Volumetric intake flow measurements of an IC engine using magnetic resonance velocimetry. Experiments in Fluids, 2014, 55, 1.	2.4	40
11	On the turbulent flow in piston engines: Coupling of statistical theory quantities and instantaneous turbulence. Physics of Fluids, 2016, 28, 045108.	4.0	35
12	High-Speed Flow and Fuel Imaging Study of Available Spark Energy in a Spray-Guided Direct-Injection Engine and Implications on Misfires. International Journal of Engine Research, 2010, 11, 313-329.	2.3	29
13	Spray-induced temperature stratification dynamics in a gasoline direct-injection engine. Proceedings of the Combustion Institute, 2015, 35, 2923-2931.	3.9	25
14	Analysis of Thermal and Chemical Effects on Negative Valve Overlap Period Energy Recovery for Low-Temperature Gasoline Combustion. SAE International Journal of Engines, 0, 8, 2227-2239.	0.4	24
15	Dual-probe 1D hybrid fs/ps rotational CARS for simultaneous single-shot temperature, pressure, and O ₂ /N ₂ measurements. Optics Letters, 2020, 45, 4758.	3.3	24
16	Investigation of Negative Valve Overlap Reforming Products Using Gas Sampling and Single-Zone Modeling. SAE International Journal of Engines, 0, 8, 747-757.	0.4	23
17	Assessment and application of tomographic PIV for the spray-induced flow in an IC engine. Proceedings of the Combustion Institute, 2017, 36, 3467-3475.	3.9	23
18	An experimental study of the detailed flame transport in a SI engine using simultaneous dual-plane OH-LIF and stereoscopic PIV. Combustion and Flame, 2019, 202, 16-32.	5.2	22

BRIAN PETERSON

#	Article	IF	CITATIONS
19	An application of tomographic PIV to investigate the spray-induced turbulence in a direct-injection engine. International Journal of Multiphase Flow, 2019, 121, 103116.	3.4	21
20	Flame/flow dynamics at the piston surface of an IC engine measured by high-speed PLIF and PTV. Proceedings of the Combustion Institute, 2019, 37, 4973-4981.	3.9	18
21	Near-Wall Flame and Flow Measurements in an Optically Accessible SI Engine. Flow, Turbulence and Combustion, 2021, 106, 597-611.	2.6	17
22	Simultaneous 1D hybrid fs/ps rotational CARS, phosphor thermometry, and CH* imaging to study transient near-wall heat transfer processes. Proceedings of the Combustion Institute, 2021, 38, 1579-1587.	3.9	12
23	Evaluation of the flame propagation within an SI engine using flame imaging and LES. Combustion Theory and Modelling, 2017, 21, 1080-1113.	1.9	9
24	Experimental investigation of thermal boundary layers and associated heat loss for transient engine-relevant processes using HRCARS and phosphor thermometry. Combustion and Flame, 2021, 233, 111567.	5.2	9
25	Optimizing hybrid rotational femtosecond/picosecond coherent anti-Stokes Raman spectroscopy in nitrogen at high pressures and temperatures. Journal of the Optical Society of America B: Optical Physics, 2020, 37, 1035.	2.1	7
26	Development and Application of Bivariate 2D-EMD for the Analysis of Instantaneous Flow Structures and Cycle-to-Cycle Variations of In-cylinder Flow. Flow, Turbulence and Combustion, 2021, 106, 231-259.	2.6	6
27	Precise surface temperature measurements at kHz-rates using phosphor thermometry to study flame-wall interactions in narrow passages. Combustion and Flame, 2022, 240, 111984. Revisiting N <mml:math <="" td="" xmlns:mml="http://www.w3.org/1998/Math/MathML"><td>5.2</td><td>6</td></mml:math>	5.2	6
28	altimg="si2.svg"> <mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:mrow </mml:msub> -N <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si2.svg"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:mrow </mml:msub> collisional linewidth models for S-branch</mml:math 	5.2	5
29	rotational Raman scattering. Combustion and Flame, 2022, 243, 111928. Ultrafast multi-photon excitation of ScVO ₄ :Bi ³⁺ for luminescence thermometry. Optics Letters, 2022, 47, 13.	3.3	4
30	Improvement of the Robustness of the Common Rail System for the Fuel Diversification. , 2015, , .		1
31	Laser-based Measurements for Validation of Numerical Simulations. MTZ Worldwide, 2016, 77, 76-82.	0.1	0