## Patrick Kirchen

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Heat release rate and emissions regimes of stratified pilot-ignited direct-injection natural gas combustion. International Journal of Engine Research, 2023, 24, 265-285.	1.4	4
2	Measurement of cycle-resolved engine-out soot concentration from a diesel-pilot assisted natural gas direct-injection compression-ignition engine. International Journal of Engine Research, 2022, 23, 380-396.	1.4	4
3	New transform to project axisymmetric deflection fields along arbitrary rays. Measurement Science and Technology, 2022, 33, 035201.	1.4	10
4	Pyrometric imaging of soot processes in a pilot ignited direct injected natural gas engine. International Journal of Engine Research, 2021, 22, 1605-1623.	1.4	6
5	Discrete-Time Preview-Feedback Hâ^ž Control for Selective Catalytic Reduction Systems. International Journal of Automotive Technology, 2021, 22, 811-821.	0.7	2
6	Characterizing soot in TEM images using a convolutional neural network. Powder Technology, 2021, 387, 313-324.	2.1	12
7	Parametric study of pilot-ignited direct-injection natural gas combustion in an optically accessible heavy-duty engine. International Journal of Engine Research, 2020, 21, 497-513.	1.4	23
8	Characterization of particulate matter emitted by a marine engine operated with liquefied natural gas and diesel fuels. Atmospheric Environment, 2020, 220, 117030.	1.9	30
9	Comprehensive analysis of the air quality impacts of switching a marine vessel from diesel fuel to natural gas. Environmental Pollution, 2020, 266, 115404.	3.7	27
10	Development and validation of a multi-angle light scattering method for fast engine soot mass and size measurements. Aerosol Science and Technology, 2020, 54, 1083-1101.	1.5	13
11	Robust image segmentation for feature extraction from internal combustion engine in-cylinder images. Measurement Science and Technology, 2020, 32, 015302.	1.4	3
12	Typical and Atypical Morphology of Non-volatile Particles from a Diesel and Natural Gas Marine Engine. Aerosol and Air Quality Research, 2020, 20, 730-740.	0.9	20
13	Size and morphology of soot produced by a dual-fuel marine engine. Journal of Aerosol Science, 2019, 138, 105448.	1.8	23
14	Refinement of the two-color pyrometry method for application in a direct injection diesel and natural gas compression-ignition engine. Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 2019, 233, 3787-3800.	1.1	9
15	Characterization and Reduction of In-Use CH <sub>4</sub> Emissions from a Dual Fuel Marine Engine Using Wavelength Modulation Spectroscopy. Environmental Science & Technology, 2019, 53, 2892-2899.	4.6	23
16	Towards improved partial oxidation product yield in mixed ionic-electronic membrane reactors using CSTR and CFD modelling. Chemical Engineering Science, 2019, 195, 11-22.	1.9	7
17	Characterization of reaction zone growth in an optically accessible heavy-duty diesel/methane dual-fuel engine. International Journal of Engine Research, 2019, 20, 483-500.	1.4	33
18	Production, analysis and combustion characterization of biomass fast pyrolysis oil – Biodiesel blends for use in diesel engines. Fuel, 2017, 199, 346-357.	3.4	46

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19	Fast Exhaust Nephelometer (FEN): A New Instrument for Measuring Cycle-Resolved Engine Particulate Emission. , 2016, , .		2
20	Effect of Fuelling Control Parameters on Combustion Characteristics of Diesel-Ignited Natural Gas Dual-Fuel Combustion in an Optical Engine. , 2016, , .		10
21	The coupling effect of gas-phase chemistry and surface reactions on oxygen permeation and fuel conversion in ITM reactors. Journal of Membrane Science, 2015, 488, 1-12.	4.1	3
22	Toward enhanced hydrogen generation from water using oxygen permeating LCF membranes. Physical Chemistry Chemical Physics, 2015, 17, 10093-10107.	1.3	30
23	CFD (computational fluid dynamics) analysis of a novel reactor design using ion transport membranes for oxy-fuel combustion. Energy, 2014, 77, 932-944 Measuring the oxygen profile and permeation flux across an ion transport <mml:math< td=""><td>4.5</td><td>29</td></mml:math<>	4.5	29
24	altimg="si0029.gif" overflow="scroll" xmlns:xocs="http://www.elsevier.com/xml/xocs/dtd" xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://www.elsevier.com/xml/ja/dtd" xmlns:ja="http://www.elsevier.com/xml/ja/dtd" xmlns:mml="http://www.w3.org/1998/Math/MathML"	4.1	40
25	xmlns:tb="http://www.elsevier.com/xml/common/table/dtd" Amlovellien/transportmembienecreactor/for fundamental investigations of oxygen permeation and oxy-combustion under reactive flow conditions. Proceedings of the Combustion Institute, 2013, 34, 3463-3470.	2.4	45
26	Laminar oxy-fuel diffusion flame supported by an oxygen-permeable-ion-transport membrane. Combustion and Flame, 2013, 160, 704-717.	2.8	18
27	Modeling of a combined ion transport and porous membrane reactor for oxy-combustion. Journal of Membrane Science, 2013, 446, 230-243.	4.1	32
28	Analysis of heterogeneous oxygen exchange and fuel oxidation on the catalytic surface of perovskite membranes. Journal of Membrane Science, 2013, 445, 96-106.	4.1	13
29	Interactions between oxygen permeation and homogeneous-phase fuel conversion on the sweep side of an ion transport membrane. Journal of Membrane Science, 2013, 428, 309-322.	4.1	28
30	Numerical simulation of ion transport membrane reactors: Oxygen permeation and transport and fuel conversion. Journal of Membrane Science, 2012, 407-408, 71-85.	4.1	63
31	Exhaust-Stream and In-Cylinder Measurements and Analysis of the Soot Emissions From a Common Rail Diesel Engine Using Two Fuels. Journal of Engineering for Gas Turbines and Power, 2010, 132, .	0.5	12
32	A Phenomenological Mean Value Soot Model for Transient Engine Operation. MTZ Worldwide, 2008, 69, 58-65.	0.1	8
33	A SKELETAL KINETIC MECHANISM FOR PRF COMBUSTION IN HCCI ENGINES. Combustion Science and Technology, 2007, 179, 1059-1083.	1.2	43
34	Soot Emission Measurements and Validation of a Mean Value Soot Model for Common-Rail Diesel Engines during Transient Operation. SAE International Journal of Engines, 0, 2, 1663-1678.	0.4	17
35	Effect of Fueling Control Parameters on Combustion and Emissions Characteristics of Diesel-Ignited Methane Dual-Fuel Combustion. , 0, , .		24
36	Effect of Injection Strategies on Emissions from a Pilot-Ignited Direct-Injection Natural-Gas Engine- Part I: Late Post Injection. , 0, , .		19

#	Article	IF	CITATIONS
37	Two-Colour Pyrometry Measurements of Low-Temperature Combustion using Borescopic Imaging. , 0, , $\cdot$		1
38	Characterization of Methane Emissions from a Natural Gas-Fuelled Marine Vessel under Transient Operation. , 0, , .		1
39	Optical characterization of stratified-premixed natural gas direct-injection combustion regimes. International Journal of Engine Research, 0, , 146808742211071.	1.4	1