

Sanghoon Kook

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

125
papers

3,217
citations

32
h-index

51
g-index

132
ext. papers

3,813
ext. citations

4.6
avg, IF

5.72
L-index

#	Paper	IF	Citations
125	Laser ignition of iso-octane and n-heptane jets under compression-ignition conditions. <i>Fuel</i> , 2022 , 311, 122555	7.1	0
124	A parametric study of autoigniting hydrogen jets under compression-ignition engine conditions. <i>International Journal of Hydrogen Energy</i> , 2022 , 47, 21307-21322	6.7	0
123	Application of pilot injection strategies for enhanced ignition and combustion of a low reactivity fuel in a compression-ignition engine. <i>Applied Thermal Engineering</i> , 2022 , 213, 118706	5.8	0
122	Effect of the jet fuel cetane number on combustion in a small-bore compression-ignition engine. <i>Fuel</i> , 2021 , 292, 120301	7.1	3
121	Influence of wall-wetting conditions on in-flame and exhaust soot structures in a spark ignition direct injection petrol engine. <i>International Journal of Engine Research</i> , 2021 , 22, 1958-1973	2.7	3
120	Soot particles in piston-top pool fires and exhaust at 5 and 15 MPa injection pressure in a gasoline direct-injection engine. <i>Proceedings of the Combustion Institute</i> , 2021 , 38, 5761-5768	5.9	1
119	Flame image velocimetry analysis of reacting jet flow fields with a variation of injection pressure in a small-bore diesel engine. <i>International Journal of Engine Research</i> , 2021 , 22, 2968-2981	2.7	3
118	Performance and emissions of hydrogen-diesel dual direct injection (H2DDI) in a single-cylinder compression-ignition engine. <i>International Journal of Hydrogen Energy</i> , 2021 , 46, 1302-1314	6.7	13
117	Understanding the soot reduction associated with injection timing variation in a small-bore diesel engine. <i>International Journal of Engine Research</i> , 2021 , 22, 1001-1015	2.7	4
116	A novel stochastic approach to study water droplet/flame interaction of water mist systems. <i>Numerical Heat Transfer; Part A: Applications</i> , 2021 , 79, 570-593	2.3	7
115	Ignition and flame stabilisation of primary reference fuel sprays at engine-relevant conditions. <i>Combustion and Flame</i> , 2021 , 233, 111620	5.3	2
114	Effect of jet fuel aromatics on in-flame soot distribution and particle morphology in a small-bore compression ignition engine. <i>Fuel</i> , 2021 , 305, 121582	7.1	2
113	Endoscopic high-speed particle image velocimetry (eHS-PIV) in a high tumble production engine. <i>Experiments in Fluids</i> , 2020 , 61, 1	2.5	2
112	Numerical Study of the Comparison of Symmetrical and Asymmetrical Eddy-Generation Scheme on the Fire Whirl Formulation and Evolution. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 318	2.6	1
111	Critical assessment on operating water droplet sizes for fire sprinkler and water mist systems. <i>Journal of Building Engineering</i> , 2020 , 28, 100999	5.2	15
110	Morphology and internal structure of soot particles under the influence of jet swirl and jet-jet interactions in a diesel combustion environment. <i>Combustion and Flame</i> , 2020 , 214, 25-36	5.3	5
109	Utilising genetic algorithm to optimise pyrolysis kinetics for fire modelling and characterisation of chitosan/graphene oxide polyurethane composites. <i>Composites Part B: Engineering</i> , 2020 , 182, 107619	10	33

108	Study of Ignition and Combustion Characteristics of Consecutive Injections with iso-Octane and n-Heptane as Fuels. <i>Energy & Fuels</i> , 2020 , 34, 14741-14756	4.1	4
107	Visualization of hydrogen jet evolution and combustion under simulated direct-injection compression-ignition engine conditions. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 32562-32578	6.7	7
106	Effects of flame-plane wall impingement on diesel combustion and soot processes. <i>Fuel</i> , 2019 , 255, 1157-1157	2.6	14
105	Influence of Eddy-Generation Mechanism on the Characteristic of On-Source Fire Whirl. <i>Applied Sciences (Switzerland)</i> , 2019 , 9, 3989	2.6	5
104	Application of LED-based thermographic phosphorescent technique to diesel combustion chamber walls in a pre-burn-type optical constant-volume vessel. <i>Experiments in Fluids</i> , 2019 , 60, 1	2.5	8
103	Influence of ethanol blending ratios on in-flame soot particle structures in an optical spark-ignition direct-injection engine. <i>Fuel</i> , 2019 , 248, 16-26	7.1	7
102	Application of a multiple mapping conditioning mixing model to ECN Spray A. <i>Proceedings of the Combustion Institute</i> , 2019 , 37, 3263-3270	5.9	12
101	In-flame soot particle structure on the up- and down-swirl side of a wall-interacting jet in a small-bore diesel engine. <i>Proceedings of the Combustion Institute</i> , 2019 , 37, 4847-4855	5.9	12
100	Ignition process of gasoline compression ignition (GCI) combustion in a small-bore optical engine. <i>Fuel</i> , 2019 , 256, 115844	7.1	20
99	Flame-Wall Interaction Effects on Diesel Post-injection Combustion and Soot Formation Processes. <i>Energy & Fuels</i> , 2019 , 33, 7759-7769	4.1	15
98	A Review of Hydrogen Direct Injection for Internal Combustion Engines: Towards Carbon-Free Combustion. <i>Applied Sciences (Switzerland)</i> , 2019 , 9, 4842	2.6	62
97	Influence of biodiesel carbon chain length on in-cylinder soot processes in a small bore optical diesel engine. <i>Fuel</i> , 2019 , 235, 1184-1194	7.1	24
96	Color-ratio pyrometry methods for flame-wall impingement study. <i>Journal of the Energy Institute</i> , 2019 , 92, 1968-1976	5.7	13
95	Relating aerosol mass spectra to composition and nanostructure of soot particles. <i>Carbon</i> , 2019 , 142, 535-546	10.4	23
94	The influence of fuel ignition quality and first injection proportion on gasoline compression ignition (GCI) combustion in a small-bore engine. <i>Fuel</i> , 2019 , 235, 1207-1215	7.1	21
93	Understanding in-cylinder soot reduction in the use of high pressure fuel injection in a small-bore diesel engine. <i>Proceedings of the Combustion Institute</i> , 2019 , 37, 4839-4846	5.9	13
92	Correlation of Spatial and Temporal Filtering Methods for Turbulence Quantification in Spark-Ignition Direct-Injection (SID) Engine Flows. <i>Flow, Turbulence and Combustion</i> , 2018 , 101, 161-189	2.5	9
91	The Effect of Fuel-Injection Timing on In-cylinder Flow and Combustion Performance in a Spark-Ignition Direct-Injection (SID) Engine Using Particle Image Velocimetry (PIV). <i>Flow, Turbulence and Combustion</i> , 2018 , 101, 191-218	2.5	18

90	A comparison of high-temperature reaction and soot processes of conventional diesel and methyl decanoate. <i>Fuel</i> , 2018 , 226, 635-643	7.1	9
89	Combustion characterization of waste cooking oil and canola oil based biodiesels under simulated engine conditions. <i>Fuel</i> , 2018 , 224, 167-177	7.1	34
88	Effect of after injections on late cycle soot oxidation in a small-bore diesel engine. <i>Combustion and Flame</i> , 2018 , 191, 513-526	5.3	18
87	A Conditional Moment Closure Study of Chemical Reaction Source Terms in SCCI Combustion. <i>Flow, Turbulence and Combustion</i> , 2018 , 100, 93-118	2.5	3
86	In-Flame Soot Sampling and Morphology Analysis in an Optical Spark-Ignition Direct-Injection (SID) Engine. <i>SAE International Journal of Engines</i> , 2018 , 11, 1007-1022	2.4	5
85	Spray and Combustion Investigation of Post Injections under Low-Temperature Combustion Conditions with Biodiesel. <i>Energy & Fuels</i> , 2018 , 32, 8727-8742	4.1	25
84	Soot formation modelling for n-dodecane sprays using the transported PDF model. <i>Combustion and Flame</i> , 2018 , 192, 101-119	5.3	28
83	Influence of turbulent fluctuations on radiation heat transfer, NO and soot formation under ECN Spray A conditions. <i>Proceedings of the Combustion Institute</i> , 2017 , 36, 3551-3558	5.9	24
82	The influence of a large methyl ester on in-flame soot particle structures in a small-bore diesel engine. <i>Fuel</i> , 2017 , 194, 423-435	7.1	34
81	Modeling combustion under engine combustion network Spray A conditions with multiple injections using the transported probability density function method. <i>International Journal of Engine Research</i> , 2017 , 18, 6-14	2.7	20
80	Morphological variations of in-flame and exhaust soot particles associated with jet-to-jet variations and jet-jet interactions in a light-duty diesel engine. <i>Combustion and Flame</i> , 2017 , 176, 377-390	5.3	19
79	Influence of Injection Timing for Split-Injection Strategies on Well-Mixed High-Load Combustion Performance in an Optically Accessible Spark-Ignition Direct-Injection (SID) Engine 2017 ,		11
78	A Comparison between In-Flame and Exhaust Soot Nanostructures in a Light-Duty Diesel Engine 2017 ,		6
77	Influence of Engine Speed on Gasoline Compression Ignition (GCI) Combustion in a Single-Cylinder Light-Duty Diesel Engine 2017 ,		13
76	The soot particle formation process inside the piston bowl of a small-bore diesel engine. <i>Combustion and Flame</i> , 2017 , 185, 278-291	5.3	26
75	Emissions characteristics of NO _x and SO ₂ in the combustion of microalgae biomass using a tube furnace. <i>Journal of the Energy Institute</i> , 2017 , 90, 806-812	5.7	20
74	Doubly conditional moment closure modelling for HCCI with temperature inhomogeneities. <i>Proceedings of the Combustion Institute</i> , 2017 , 36, 3677-3685	5.9	10
73	Effect of jet-jet interactions on soot formation in a small-bore diesel engine. <i>Proceedings of the Combustion Institute</i> , 2017 , 36, 3559-3566	5.9	14

72	The development of hydroxyl and soot in a methyl decanoate-fuelled automotive-size optical diesel engine. <i>Fuel</i> , 2016 , 166, 320-332	7.1	32
71	External irradiation effect on the growth and evolution of in-flame soot species. <i>Carbon</i> , 2016 , 102, 161-174	7.1	20
70	Dependency of engine combustion on blending ratio variations of lipase-catalysed coconut oil biodiesel and petroleum diesel. <i>Fuel</i> , 2016 , 169, 146-157	7.1	27
69	Double Injection Strategies for Ethanol-Fuelled Gasoline Compression Ignition (GCI) Combustion in a Single-Cylinder Light-Duty Diesel Engine 2016 ,		13
68	Multiple Injection Strategy Investigation for Well-Mixed Operation in an Optical Wall-Guided Spark-Ignition Direct-Injection (WG-SIDI) Engine through Flame Shape Analysis 2016 ,		6
67	Assessing the Importance of Radiative Heat Transfer for ECN Spray A Using the Transported PDF Method. <i>SAE International Journal of Fuels and Lubricants</i> , 2016 , 9, 100-107	1.8	11
66	Effect of intake air temperature and common-rail pressure on ethanol combustion in a single-cylinder light-duty diesel engine. <i>Fuel</i> , 2016 , 180, 9-19	7.1	29
65	An analysis of the structure of an n-dodecane spray flame using TPDF modelling. <i>Combustion and Flame</i> , 2016 , 168, 420-435	5.3	65
64	Automated determination of size and morphology information from soot transmission electron microscope (TEM)-generated images. <i>Journal of Nanoparticle Research</i> , 2016 , 18, 1	2.3	27
63	Structural evolution of soot particles during diesel combustion in a single-cylinder light-duty engine. <i>Combustion and Flame</i> , 2015 , 162, 2720-2728	5.3	44
62	Conditional moment closure modelling for HCCI with temperature inhomogeneities. <i>Proceedings of the Combustion Institute</i> , 2015 , 35, 3087-3095	5.9	20
61	The planar imaging of laser induced fluorescence of fuel and hydroxyl for a wall-interacting jet in a single-cylinder, automotive-size, optically accessible diesel engine. <i>Fuel</i> , 2015 , 140, 143-155	7.1	32
60	Soot Formation Modelling of Spray-A Using a Transported PDF Approach 2015 ,		3
59	Automated Detection of Primary Particles from Transmission Electron Microscope (TEM) Images of Soot Aggregates in Diesel Engine Environments. <i>SAE International Journal of Engines</i> , 2015 , 9, 279-296	2.4	35
58	A Numerical Study of the Influence of Different Operating Conditions on the Combustion Development in an Automotive-Size Diesel Engine 2015 ,		4
57	A Comparative Analysis on Engine Performance of a Conventional Diesel Fuel and 10% Biodiesel Blends Produced from Coconut Oils. <i>SAE International Journal of Fuels and Lubricants</i> , 2015 , 8, 597-609	1.8	13
56	A Comparative Study of Conditional Moment Closure Modelling for Ignition of iso-octane and n-heptane in Thermally Stratified Mixtures. <i>Flow, Turbulence and Combustion</i> , 2015 , 95, 1-28	2.5	17
55	Nanostructure Analysis of In-flame Soot Particles under the Influence of Jet-Jet Interactions in a Light-Duty Diesel Engine. <i>SAE International Journal of Engines</i> , 2015 , 8, 2213-2226	2.4	29

54	Injection Pressure Effects on the Flame Development in a Light-Duty Optical Diesel Engine. <i>SAE International Journal of Engines</i> , 2015 , 8, 609-624	2.4	12
53	Modelling n-dodecane spray and combustion with the transported probability density function method. <i>Combustion and Flame</i> , 2015 , 162, 2006-2019	5.3	100
52	Effect of Ethanol Port-Fuel-Injector Position on Dual-Fuel Combustion in an Automotive-Size Diesel Engine. <i>Energy & Fuels</i> , 2014 , 28, 340-348	4.1	17
51	Influence of fuel injection timing and pressure on in-flame soot particles in an automotive-size diesel engine. <i>Environmental Science & Technology</i> , 2014 , 48, 8243-50	10.3	38
50	The shortening of lift-off length associated with jet-wall and jet-jet interaction in a small-bore optical diesel engine. <i>Fuel</i> , 2014 , 125, 1-14	7.1	27
49	Effects of injection pressure on the structural transformation of flash-boiling sprays of gasoline and ethanol in a spark-ignition direct-injection (SIDI) engine. <i>Fuel</i> , 2014 , 130, 228-240	7.1	64
48	A Comparative Analysis on the Spray Penetration of Ethanol, Gasoline and Iso-Octane Fuel in a Spark-Ignition Direct-Injection Engine 2014 ,		8
47	Spray Penetrations of Ethanol, Gasoline and Iso-Octane in an Optically Accessible Spark-Ignition Direct-Injection Engine. <i>SAE International Journal of Fuels and Lubricants</i> , 2014 , 7, 1010-1026	1.8	20
46	High-Speed Imaging of Soot Luminosity and Spectral Analysis of In-Cylinder Pressure Trace during Diesel Knock 2014 ,		6
45	Imaging diagnostics of ethanol port fuel injection sprays for automobile engine applications. <i>Applied Thermal Engineering</i> , 2013 , 52, 24-37	5.8	19
44	Fundamental spray and combustion measurements of soy methyl-ester biodiesel. <i>International Journal of Engine Research</i> , 2013 , 14, 373-390	2.7	48
43	Transported probability density function modelling of the vapour phase of an n-heptane jet at diesel engine conditions. <i>Proceedings of the Combustion Institute</i> , 2013 , 34, 3039-3047	5.9	75
42	A Comprehensive Study of Effects of Mixing and Chemical Kinetic Models on Predictions of n-heptane Jet Ignitions with the PDF Method. <i>Flow, Turbulence and Combustion</i> , 2013 , 91, 249-280	2.5	59
41	Ethanol utilisation in a diesel engine using dual-fuelling technology. <i>Fuel</i> , 2013 , 109, 597-607	7.1	83
40	A numerical study of the autoignition of dimethyl ether with temperature inhomogeneities. <i>Proceedings of the Combustion Institute</i> , 2013 , 34, 803-812	5.9	27
39	In-Flame Soot Sampling and Particle Analysis in a Diesel Engine. <i>SAE International Journal of Fuels and Lubricants</i> , 2013 , 6, 80-97	1.8	35
38	Uncertainty in Sampling and TEM Analysis of Soot Particles in Diesel Spray Flame 2013 ,		29
37	Effect of Injection Pressure on Transient Behaviour of Wall-Interacting Jet Flame Base in an Automotive-Size Diesel Engine. <i>SAE International Journal of Fuels and Lubricants</i> , 2013 , 6, 615-626	1.8	9

36	Size Distribution and Structure of Wall-Deposited Soot Particles in an Automotive-Size Diesel Engine. <i>SAE International Journal of Fuels and Lubricants</i> , 2013 , 6, 605-614	1.8	18
35	On the potential of ethanol fuel stratification to extend the high load limit in stratified-charge compression-ignition engines. <i>Fuel</i> , 2012 , 99, 45-54	7.1	39
34	Diesel Spray Ignition Detection and Spatial/Temporal Correction. <i>SAE International Journal of Engines</i> , 2012 , 5, 1330-1346	2.4	58
33	Transmission Electron Microscopy of Soot Particles Directly Sampled in Diesel Spray Flame - A Comparison between US#2 and Biodiesel Soot. <i>SAE International Journal of Fuels and Lubricants</i> , 2012 , 5, 665-673	1.8	43
32	Effect of Pilot Injection on Diesel Knock in a Small-Bore Optical Engine 2012 ,		6
31	Liquid length and vapor penetration of conventional, Fischer-Tropsch, coal-derived, and surrogate fuel sprays at high-temperature and high-pressure ambient conditions. <i>Fuel</i> , 2012 , 93, 539-548	7.1	133
30	Soot Volume Fraction and Morphology of Conventional, Fischer-Tropsch, Coal-Derived, and Surrogate Fuel at Diesel Conditions. <i>SAE International Journal of Fuels and Lubricants</i> , 2012 , 5, 647-664	1.8	82
29	Z-type Schlieren Setup and its Application to High-Speed Imaging of Gasoline Sprays 2011 ,		7
28	Soot volume fraction and morphology of conventional and surrogate jet fuel sprays at 1000-K and 6.7-MPa ambient conditions. <i>Proceedings of the Combustion Institute</i> , 2011 , 33, 2911-2918	5.9	57
27	Optical Investigation Into Wall Wetting From Late-Cycle Post-Injections Used for Diesel Particulate Filter Regeneration. <i>Journal of Engineering for Gas Turbines and Power</i> , 2011 , 133,	1.7	4
26	EFFECT OF ETHANOL AND AMBIENT PRESSURE ON PORT-FUEL-INJECTION SPRAYS IN AN OPTICALLY ACCESSIBLE INTAKE CHAMBER. <i>Atomization and Sprays</i> , 2011 , 21, 427-445	1.2	10
25	Liquid Penetration of Diesel and Biodiesel Sprays at Late-Cycle Post-Injection Conditions. <i>SAE International Journal of Engines</i> , 2010 , 3, 479-495	2.4	51
24	Optical Investigation Into Wall Wetting From Late-Cycle Post-Injections Used for Diesel Particulate Filter Regeneration 2010 ,		4
23	EFFECT OF AMBIENT TEMPERATURE AND DENSITY ON SHOCK WAVE GENERATION IN A DIESEL ENGINE. <i>Atomization and Sprays</i> , 2010 , 20, 163-175	1.2	20
22	Effect of Fuel Volatility and Ignition Quality on Combustion and Soot Formation at Fixed Premixing Conditions. <i>SAE International Journal of Engines</i> , 2009 , 2, 11-23	2.4	31
21	Influence of Diesel Injection Parameters on End-of-Injection Liquid Length Recession. <i>SAE International Journal of Engines</i> , 2009 , 2, 1194-1210	2.4	35
20	Transient Liquid Penetration of Early-Injection Diesel Sprays. <i>SAE International Journal of Engines</i> , 2009 , 2, 785-804	2.4	43
19	Visualization of Diesel Spray Penetration, Cool-Flame, Ignition, High-Temperature Combustion, and Soot Formation Using High-Speed Imaging. <i>SAE International Journal of Engines</i> , 2009 , 2, 439-459	2.4	137

18	Diesel fuel jet lift-off stabilization in the presence of laser-induced plasma ignition. <i>Proceedings of the Combustion Institute</i> , 2009 , 32, 2793-2800	5.9	86
17	Influence of Early Fuel Injection Timings on Premixing and Combustion in a Diesel Engine. <i>Energy & Fuels</i> , 2008 , 22, 331-337	4.1	42
16	Studying the Influence of Direct Injection on PCCI Combustion and Emissions at Engine Idle Condition Using Two Dimensional CFD and Stochastic Reactor Model 2008 ,		14
15	SC2-4: Liquid-Phase Diesel Spray Penetration during End-of-Injection Transient(SC: Spray and Spray Combustion,General Session Papers). <i>The Proceedings of the International Symposium on Diagnostics and Modeling of Combustion in Internal Combustion Engines</i> , 2008 , 2008.7, 413-420		10
14	Two-stage Fuel Direct Injection in a Diesel Fuelled HCCI Engine 2007 ,		19
13	Diesel-fuelled homogeneous charge compression ignition engine with optimized premixing strategies. <i>International Journal of Engine Research</i> , 2007 , 8, 127-137	2.7	24
12	The Effect of Swirl Ratio and Fuel Injection Parameters on CO Emission and Fuel Conversion Efficiency for High-Dilution, Low-Temperature Combustion in an Automotive Diesel Engine 2006 ,		62
11	Effect of Multiple Injections on Fuel-Air Mixing and Soot Formation in Diesel Combustion Using Direct Flame Visualization and CFD Techniques 2005 , 171		13
10	The Influence of Charge Dilution and Injection Timing on Low-Temperature Diesel Combustion and Emissions 2005 ,		235
9	Effects of Multiple Injections in a HSDI Diesel Engine Equipped with Common Rail Injection System 2004 ,		50
8	Combustion Control Using Two-Stage Diesel Fuel Injection in a Single-Cylinder PCCI Engine 2004 ,		54
7	90 nm generation, 300 mm wafer low k ILD/Cu interconnect technology		4
6	Low- to High-Temperature Reaction Transition in a Small-Bore Optical Gasoline Compression Ignition (GCI) Engine. <i>SAE International Journal of Engines</i> ,12,	2.4	10
5	Optimisation of Image Processing Parameters for Flame Image Velocimetry (FIV) Measurement in a Single-Cylinder, Small-Bore Optical Diesel Engine		2
4	Triple Injection Strategies for Gasoline Compression Ignition (GCI) Combustion in a Single-Cylinder Small-Bore Common-Rail Diesel Engine		3
3	Characteristics of BrC and BC emissions from controlled diffusion flame and diesel engine combustion. <i>Aerosol Science and Technology</i> ,1-16	3.4	1
2	The influence of inter-jet spacing and jet-swirl interaction on flame image velocimetry (FIV) derived flow fields in a small-bore diesel engine. <i>International Journal of Engine Research</i> ,146808742110384	2.7	2
1	Flow directed spark stretch and flame propagation in a high-tumble production engine. <i>International Journal of Engine Research</i> ,146808742110378	2.7	1

