

# Graham J Nathan

## List of Publications by Year in descending order

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232  
papers

5,876  
citations

71102

41  
h-index

123424

61  
g-index

235  
all docs

235  
docs citations

235  
times ranked

2950  
citing authors

#	ARTICLE	IF	CITATIONS
1	The effect of particle size and volumetric loading on the gas temperature distributions in a particle-laden flow heated with high-flux radiation. <i>International Journal of Heat and Mass Transfer</i> , 2022, 182, 122041.	4.8	1
2	Measured global thermal performance of a directly irradiated suspension-flow solar particle receiver with an open aperture. <i>Solar Energy</i> , 2022, 231, 185-193.	6.1	3
3	Influence of particle loading, Froude and Stokes number on the global thermal performance of a vortex-based solar particle receiver. <i>Renewable Energy</i> , 2022, 184, 201-214.	8.9	7
4	Editorial: Technological and Fundamental Advances in Production, Storage and Utilization of Fuels. <i>Frontiers in Energy Research</i> , 2022, 10, .	2.3	1
5	Direct measurements and prediction of the particle egress from a vortex-based solar cavity receiver with an open aperture. <i>Solar Energy</i> , 2022, 235, 105-117.	6.1	2
6	The effect of instantaneous particle distributions on the gas-phase temperature in an unsteady particle-laden jet heated with high-flux radiation. <i>International Journal of Multiphase Flow</i> , 2022, 153, 104106.	3.4	0
7	In-situ imaging of particle size distribution in an industrial-scale calcination reactor using micro-focusing particle shadowgraphy. <i>Powder Technology</i> , 2022, 404, 117459.	4.2	4
8	Bottom-Up Estimates of the Cost of Supplying High-Temperature Industrial Process Heat from Intermittent Renewable Electricity and Thermal Energy Storage in Australia. <i>Processes</i> , 2022, 10, 1070.	2.8	6
9	Effects of gas preheat temperature on soot formation in co-flow methane and ethylene diffusion flames. <i>Proceedings of the Combustion Institute</i> , 2021, 38, 1225-1232.	3.9	15
10	A mathematical model to assess the influence of transients on a refractory-lined solar receiver. <i>Renewable Energy</i> , 2021, 167, 217-235.	8.9	12
11	Renormalisation of particle distributions in an initially-biased turbulent jet by swirl and radial injection. <i>International Journal of Multiphase Flow</i> , 2021, 135, 103509.	3.4	2
12	The flow-field within a vortex-based solar cavity receiver with an open aperture. <i>Experimental Thermal and Fluid Science</i> , 2021, 123, 110314.	2.7	10
13	Experimental investigation of the influence of solar-to-fuel ratio on performance and stability characteristics of hybrid solar-MILD hydrogen processes. <i>Proceedings of the Combustion Institute</i> , 2021, 38, 6723-6731.	3.9	3
14	Statistical relationship between soot volume fraction, temperature, primary particle diameter and OH radicals along transects normal to the local reaction zone in a turbulent flame. <i>Proceedings of the Combustion Institute</i> , 2021, 38, 1497-1505.	3.9	3
15	Temperature imaging of mobile BaMgAl10O17:Eu phosphor aggregates under high radiation flux. <i>Optics and Lasers in Engineering</i> , 2021, 137, 106398.	3.8	5
16	On the use of oscillating jet flames in a coflow to develop soot models for practical applications. <i>Proceedings of the Combustion Institute</i> , 2021, 38, 1309-1317.	3.9	0
17	Soot-flowfield interactions in turbulent non-premixed bluff-body flames of ethylene/nitrogen. <i>Proceedings of the Combustion Institute</i> , 2021, 38, 1125-1132.	3.9	6
18	Generating planar distributions of soot particles from luminosity images in turbulent flames using deep learning. <i>Applied Physics B: Lasers and Optics</i> , 2021, 127, 1.	2.2	5

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19	Particle velocity measurement within a free-falling particle curtain using microscopic shadow velocimetry. <i>Optics Express</i> , 2021, 29, 10923.	3.4	8
20	Insights from a new method providing single-shot, planar measurement of gas-phase temperature in particle-laden flows under high-flux radiation. <i>Experiments in Fluids</i> , 2021, 62, 1.	2.4	5
21	An adaptive aerodynamic approach to mitigate convective losses from solar cavity receivers. <i>Solar Energy</i> , 2021, 224, 1333-1343.	6.1	1
22	Numerical and experimental analysis of poly-dispersion effects on particle-laden jets. <i>International Journal of Heat and Fluid Flow</i> , 2021, 91, 108852.	2.4	8
23	Flow regimes within horizontal particle-laden pipe flows. <i>International Journal of Multiphase Flow</i> , 2021, 143, 103748.	3.4	9
24	Effects of steam on the kinetics of calcium carbonate calcination. <i>Chemical Engineering Science</i> , 2021, 246, 116987.	3.8	25
25	Integration assessment of the hybrid sulphur cycle with a copper production plant. <i>Energy Conversion and Management</i> , 2021, 249, 114832.	9.2	5
26	The influence of the coefficient of restitution on flow regimes within horizontal particle-laden pipe flows. <i>Physics of Fluids</i> , 2021, 33, .	4.0	8
27	The effect of oxygen concentration in the co-flow of laminar ethylene diffusion flames. <i>Combustion and Flame</i> , 2020, 211, 96-111.	5.2	40
28	The coupling between the internal and external flows through a hybridized solar cavity receiver under isothermal conditions. <i>Experimental Thermal and Fluid Science</i> , 2020, 113, 110028.	2.7	2
29	Particle residence time distributions in a vortex-based solar particle receiver-reactor: An experimental, numerical and theoretical study. <i>Chemical Engineering Science</i> , 2020, 214, 115421.	3.8	14
30	A Review of Terminology Used to Describe Soot Formation and Evolution under Combustion and Pyrolytic Conditions. <i>ACS Nano</i> , 2020, 14, 12470-12490.	14.6	122
31	Impact of Flow Blowing and Suction strategies on the establishment of an aerodynamic barrier for solar cavity receivers. <i>Applied Thermal Engineering</i> , 2020, 180, 115841.	6.0	8
32	Luminescence interference to two-colour toluene laser-induced fluorescence thermometry in a particle-laden flow. <i>Experiments in Fluids</i> , 2020, 61, 1.	2.4	7
33	Effect of Calcium and Phosphorus on Interactions between Quartz Sand and K-Salt-Doped Wood under Both Steam Gasification and Combustion Atmospheres. <i>Energy &amp; Fuels</i> , 2020, 34, 3210-3222.	5.1	9
34	Gas-lift circulation of a liquid between two inter-connected bubble columns. <i>Chemical Engineering Science</i> , 2020, 218, 115574.	3.8	3
35	Experimental and numerical study of the influence of syngas composition on the performance and stability of a laboratory-scale MILD combustor. <i>Experimental Thermal and Fluid Science</i> , 2020, 115, 110083.	2.7	12
36	Interactions between Quartz Sand and Wood Doped with either K or Na Salts under Steam Gasification and Combustion Atmospheres. <i>Industrial &amp; Engineering Chemistry Research</i> , 2020, 59, 1712-1722.	3.7	8

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37	Experimental insights into the mechanism of heat losses from a cylindrical solar cavity receiver equipped with an air curtain. <i>Solar Energy</i> , 2020, 201, 314-322.	6.1	21
38	Experimental investigation on the influence of an air curtain on the convective heat losses from solar cavity receivers under windy condition. <i>AIP Conference Proceedings</i> , 2020, , .	0.4	3
39	First-of-a-kind investigation on performance of a directly-irradiated windowless vortex-based particle receiver. <i>AIP Conference Proceedings</i> , 2020, , .	0.4	5
40	Technical feasibility of integrating concentrating solar thermal energy in the Bayer alumina process. <i>AIP Conference Proceedings</i> , 2020, , .	0.4	4
41	First-of-a-kind demonstration of a direct hybrid between a solar receiver and the radiant burner technology. <i>AIP Conference Proceedings</i> , 2020, , .	0.4	0
42	A new correlation between soot sheet width and soot volume fraction in turbulent non-premixed jet flames. <i>Proceedings of the Combustion Institute</i> , 2019, 37, 927-934.	3.9	6
43	An experimental study of the stability and performance characteristics of a Hybrid Solar Receiver Combustor operated in the MILD combustion regime. <i>Proceedings of the Combustion Institute</i> , 2019, 37, 5687-5695.	3.9	16
44	Resolving the three-dimensional structure of particles that are aerodynamically clustered by a turbulent flow. <i>Physics of Fluids</i> , 2019, 31, .	4.0	15
45	Performance characteristics of a hybrid solar receiver combustor utilising hydrogen or syngas. <i>AIP Conference Proceedings</i> , 2019, , .	0.4	1
46	Hybrid Solar-MILD Combustion for Renewable Energy Generation. <i>Frontiers in Mechanical Engineering</i> , 2019, 5, .	1.8	1
47	A technical assessment of pneumatic conveying of solids for a high temperature particle receiver. <i>AIP Conference Proceedings</i> , 2019, , .	0.4	1
48	Particle residence time distributions in a vortex-based solar particle receiver-reactor: The influence of receiver tilt angle. <i>Solar Energy</i> , 2019, 190, 126-138.	6.1	12
49	The influence of wind speed, aperture ratio and tilt angle on the heat losses from a finely controlled heated cavity for a solar receiver. <i>Renewable Energy</i> , 2019, 143, 1544-1553.	8.9	13
50	Calculated concentration distributions and time histories of key species in an acoustically forced laminar flame. <i>Combustion and Flame</i> , 2019, 204, 189-203.	5.2	4
51	Thermogravimetric analysis of Cu, Mn, Co, and Pb oxides for thermochemical energy storage. <i>Journal of Energy Storage</i> , 2019, 23, 138-147.	8.1	17
52	Characteristics of swirling and precessing flows generated by multiple confined jets. <i>Physics of Fluids</i> , 2019, 31, 055102.	4.0	5
53	Numerical investigation of the isothermal flow field and particle deposition behaviour in a rotating fluidized bed solar receiver. <i>Solar Energy</i> , 2019, 182, 348-360.	6.1	4
54	Experimental investigation of the reduction of liquid bismuth oxide with graphite. <i>Fuel Processing Technology</i> , 2019, 188, 110-117.	7.2	18

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55	Preliminary evaluation of a novel solar bubble receiver for heating a gas. <i>Solar Energy</i> , 2019, 182, 264-277.	6.1	38
56	The thermo-chemical potential liquid chemical looping gasification with bismuth oxide. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 8038-8050.	7.1	17
57	The influence of wall temperature distribution on the mixed convective losses from a heated cavity. <i>Applied Thermal Engineering</i> , 2019, 155, 157-165.	6.0	15
58	The energetic performance of a liquid chemical looping cycle with solar thermal energy storage. <i>Energy</i> , 2019, 170, 93-101.	8.8	12
59	Thermal performance of vortex-based solar particle receivers for sensible heating. <i>Solar Energy</i> , 2019, 177, 163-177.	6.1	24
60	Experimental assessment of copper oxide for liquid chemical looping for thermal energy storage. <i>Journal of Energy Storage</i> , 2019, 21, 216-221.	8.1	12
61	Simultaneously calibrated two-line atomic fluorescence for high-precision temperature imaging in sooting flames. <i>Proceedings of the Combustion Institute</i> , 2019, 37, 1417-1425.	3.9	12
62	Thermal performance analysis of a syngas-fuelled hybrid solar receiver combustor operated in the MILD combustion regime. <i>Combustion Science and Technology</i> , 2019, 191, 2-17.	2.3	19
63	Potential of molten lead oxide for liquid chemical looping gasification (LCLG): A thermochemical analysis. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 4195-4210.	7.1	27
64	Ashâ€œBed Material Interaction during the Combustion and Steam Gasification of Australian Agricultural Residues. <i>Energy &amp; Fuels</i> , 2018, 32, 4278-4290.	5.1	21
65	Experimental investigation of the effects of wind speed and yaw angle on heat losses from a heated cavity. <i>Solar Energy</i> , 2018, 165, 178-188.	6.1	20
66	Non-intrusive temperature measurement of particles in a fluidised bed heated by well-characterised radiation. <i>International Journal of Multiphase Flow</i> , 2018, 100, 186-195.	3.4	7
67	Mixed mode operation for the Solar Aided Power Generation. <i>Applied Thermal Engineering</i> , 2018, 139, 177-186.	6.0	30
68	Solar thermal hybrids for combustion power plant: A growing opportunity. <i>Progress in Energy and Combustion Science</i> , 2018, 64, 4-28.	31.2	110
69	The effect of exit Reynolds number on soot volume fraction in turbulent non-premixed jet flames. <i>Combustion and Flame</i> , 2018, 187, 42-51.	5.2	30
70	Performance of a hybrid solar receiver combustor. <i>AIP Conference Proceedings</i> , 2018, , .	0.4	1
71	The influence of aspect ratio on the iso-thermal flow characteristics of multiple confined jets. <i>Physics of Fluids</i> , 2018, 30, 125108.	4.0	6
72	Combined solar energy and combustion of hydrogen-based fuels under MILD conditions. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 20086-20100.	7.1	13

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73	Soot evolution and flame response to acoustic forcing of laminar non-premixed jet flames at varying amplitudes. <i>Combustion and Flame</i> , 2018, 198, 249-259.	5.2	15
74	Iso-thermal flow characteristics of rotationally symmetric jets generating a swirl within a cylindrical chamber. <i>Physics of Fluids</i> , 2018, 30, 055110.	4.0	11
75	Experimental demonstration of the hybrid solar receiver combustor. <i>Applied Energy</i> , 2018, 224, 426-437.	10.1	23
76	Influence of nozzle diameter on soot evolution in acoustically forced laminar non-premixed flames. <i>Combustion and Flame</i> , 2018, 194, 376-386.	5.2	23
77	A pressurized high-flux solar reactor for the efficient thermochemical gasification of carbonaceous feedstock. <i>Fuel</i> , 2017, 193, 432-443.	6.4	61
78	Thermodynamic potential of high temperature chemical looping combustion with molten iron oxide as the oxygen carrier. <i>Chemical Engineering Research and Design</i> , 2017, 120, 69-81.	5.6	24
79	Simultaneous measurements of gas temperature, soot volume fraction and primary particle diameter in a sooting lifted turbulent ethylene/air non-premixed flame. <i>Combustion and Flame</i> , 2017, 179, 33-50.	5.2	51
80	The Topology of a Precessing Flow Within a Suddenly Expanding Axisymmetric Chamber. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2017, 139, .	1.5	3
81	Gasification Reactivity and Physicochemical Properties of the Chars from Raw and Torrefied Wood, Grape Marc, and Macroalgae. <i>Energy &amp; Fuels</i> , 2017, 31, 2246-2259.	5.1	24
82	An investigation into the effect of aspect ratio on the heat loss from a solar cavity receiver. <i>Solar Energy</i> , 2017, 149, 20-31.	6.1	28
83	Solar-driven alumina calcination for CO <sub>2</sub> mitigation and improved product quality. <i>Green Chemistry</i> , 2017, 19, 2992-3005.	9.0	34
84	Experimental investigation of acoustic forcing on temperature, soot volume fraction and primary particle diameter in non-premixed laminar flames. <i>Combustion and Flame</i> , 2017, 181, 270-282.	5.2	31
85	Techno-economic evaluation of modular hybrid concentrating solar power systems. <i>Energy</i> , 2017, 129, 158-170.	8.8	9
86	The effect of exit strain rate on soot volume fraction in turbulent non-premixed jet flames. <i>Proceedings of the Combustion Institute</i> , 2017, 36, 889-897.	3.9	42
87	The relative performance of alternative oxygen carriers for liquid chemical looping combustion and gasification. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 16396-16407.	7.1	40
88	Approaches to accommodate resource variability in the modelling of solar driven gasification processes for liquid fuels synthesis. <i>Solar Energy</i> , 2017, 156, 101-112.	6.1	16
89	Thermodynamic potential of molten copper oxide for high temperature solar energy storage and oxygen production. <i>Applied Energy</i> , 2017, 201, 69-83.	10.1	36
90	High temperature solar thermochemical process for production of stored energy and oxygen based on CuO/Cu <sub>2</sub> O redox reactions. <i>Solar Energy</i> , 2017, 153, 1-10.	6.1	31

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91	New Understanding of Mode Switching in the Fluidic Processing Jet Flow. Journal of Fluids Engineering, Transactions of the ASME, 2017, 139, .	1.5	2
92	Potential use of liquid metal oxides for chemical looping gasification: A thermodynamic assessment. Applied Energy, 2017, 195, 702-712.	10.1	63
93	Optical thermometry for high temperature multiphase environments under high-flux irradiation. Solar Energy, 2017, 146, 191-198.	6.1	1
94	Comparison of system performance in a hybrid solar receiver combustor operating with MILD and conventional combustion. Part I: Solar-only and combustion-only employing conventional combustion. Solar Energy, 2017, 147, 489-503.	6.1	20
95	Comparison of system performance in a hybrid solar receiver combustor operating with MILD and conventional combustion. Part II: Effect of the combustion mode. Solar Energy, 2017, 147, 479-488.	6.1	21
96	Impact of the operation of non-displaced feedwater heaters on the performance of Solar Aided Power Generation plants. Energy Conversion and Management, 2017, 135, 1-8.	9.2	39
97	Effects of hydrogen and nitrogen on soot volume fraction, primary particle diameter and temperature in laminar ethylene/air diffusion flames. Combustion and Flame, 2017, 175, 270-282.	5.2	77
98	System Optimization for Fischer-Tropsch Liquid Fuels Production via Solar Hybridized Dual Fluidized Bed Gasification of Solid Fuels. Energy & Fuels, 2017, 31, 2033-2043.	5.1	18
99	Concentrating or non-concentrating solar collectors for solar Aided Power Generation?. Energy Conversion and Management, 2017, 152, 281-290.	9.2	31
100	Experimental and numerical investigation of the iso-thermal flow characteristics within a cylindrical chamber with multiple planar-symmetric impinging jets. Physics of Fluids, 2017, 29, 105111.	4.0	10
101	Development of ASTRI high-temperature solar receivers. AIP Conference Proceedings, 2017, , .	0.4	6
102	Flow behavior inside a novel rotating fluidized bed for solar gasification of biomass. AIP Conference Proceedings, 2017, , .	0.4	1
103	Experimental and numerical investigation of the flow characteristics within a Solar Expanding-Vortex Particle Receiver-Reactor. Solar Energy, 2017, 141, 25-37.	6.1	19
104	A method for identifying and characterising particle clusters in a two-phase turbulent jet. International Journal of Multiphase Flow, 2017, 88, 191-204.	3.4	16
105	Research challenges in combustion and gasification arising from emerging technologies employing directly irradiated concentrating solar thermal radiation. Proceedings of the Combustion Institute, 2017, 36, 2055-2074.	3.9	34
106	Impact of acoustic forcing on soot evolution and temperature in ethylene-air flames. Proceedings of the Combustion Institute, 2017, 36, 781-788.	3.9	24
107	Hydrodynamic and chemical effects of hydrogen addition on soot evolution in turbulent nonpremixed bluff body ethylene flames. Proceedings of the Combustion Institute, 2017, 36, 807-814.	3.9	29
108	Single-shot planar temperature imaging of radiatively heated fluidized particles. Optics Express, 2017, 25, 28764.	3.4	5

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109	Assessing the techno-economics of modular hybrid solar thermal systems. AIP Conference Proceedings, 2017, , .	0.4	5
110	Comparing the thermodynamic potential of alternative liquid metal oxides for the storage of solar thermal energy. Solar Energy, 2017, 157, 251-258.	6.1	25
111	Development of the ASTRI heliostat. AIP Conference Proceedings, 2016, , .	0.4	3
112	The influence of high flux broadband irradiation on soot concentration and temperature of a sooty flame. Combustion and Flame, 2016, 171, 103-111.	5.2	11
113	Techno-economic assessment of a hybrid solar receiver and combustor. AIP Conference Proceedings, 2016, , .	0.4	13
114	Analytical assessment of a novel rotating fluidized bed solar reactor for steam gasification of char particles. Solar Energy, 2016, 140, 113-123.	6.1	8
115	Particleâ€Scale Investigation of Heat Transfer in Radiationâ€Driven Char Gasification. Chemical Engineering and Technology, 2016, 39, 1903-1911.	1.5	4
116	The effect of Stokes number on particle velocity and concentration distributions in a well-characterised, turbulent, co-flowingâ€two-phase jet. Journal of Fluid Mechanics, 2016, 809, 72-110.	3.4	75
117	Secondary Concentrators to Achieve High Flux Radiation With Metal Halide Solar Simulators. Journal of Solar Energy Engineering, Transactions of the ASME, 2016, 138, .	1.8	4
118	Storage capacity assessment of liquid fuels production by solar gasification in a packed bed reactor using a dynamic process model. Applied Energy, 2016, 173, 578-588.	10.1	10
119	The performance of a Solar Aided Power Generation plant with diverse â€œconfiguration-operationâ€ combinations. Energy Conversion and Management, 2016, 124, 155-167.	9.2	45
120	Assessment of the potential benefits and constraints of a hybrid solar receiver and combustor operated in the MILD combustion regime. Energy, 2016, 116, 735-745.	8.8	21
121	Effect of High-Flux Solar Irradiation on the Gasification of Coal in a Hybrid Entrained-Flow Reactor. Energy & Fuels, 2016, 30, 5138-5147.	5.1	14
122	A Novel Solar Expanding-Vortex Particle Reactor: Experimental and Numerical Investigation of the Iso-thermal Flow Field and Particle Deposition. Solar Energy, 2016, 133, 451-464.	6.1	26
123	Impact of start-up and shut-down losses on the economic benefit of an integrated hybrid solar cavity receiver and combustor. Applied Energy, 2016, 164, 10-20.	10.1	19
124	Analytical assessment of a novel hybrid solar tubular receiver and combustor. Applied Energy, 2016, 162, 298-307.	10.1	21
125	Improvement of precision and accuracy of temperature imaging in sooting flames using two-line atomic fluorescence (TLAF). Combustion and Flame, 2016, 167, 481-493.	5.2	23
126	The Dynamic Performance of Different Configurations of Solar Aided Power Generation (SAPG). , 2016, , .		0



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127	Numerical modelling of flows in a solar-enhanced vortex gasifier: Part 1, comparison of turbulence models. <i>Progress in Computational Fluid Dynamics</i> , 2015, 15, 114.	0.2	14
128	Fischer-tropsch liquid Fuel Production by Co-gasification of Coal and Biomass in a Solar Hybrid Dual Fluidized Bed Gasifier. <i>Energy Procedia</i> , 2015, 69, 1770-1779.	1.8	11
129	Velocity and orientation distributions of fibrous particles in the near-field of a turbulent jet. <i>Powder Technology</i> , 2015, 276, 10-17.	4.2	9
130	Simultaneous planar measurements of temperature and soot volume fraction in a turbulent non-premixed jet flame. <i>Proceedings of the Combustion Institute</i> , 2015, 35, 1931-1938.	3.9	50
131	Temporal release of potassium from pinewood particles during combustion. <i>Combustion and Flame</i> , 2015, 162, 496-505.	5.2	55
132	Single-shot, Time-Resolved planar Laser-Induced Incandescence (TiRe-LII) for soot primary particle sizing in flames. <i>Proceedings of the Combustion Institute</i> , 2015, 35, 3673-3680.	3.9	45
133	Storage capacities required for a solar thermal plant to avoid unscheduled reductions in output. <i>Solar Energy</i> , 2015, 118, 209-221.	6.1	28
134	Performance Assessment of Fischer-Tropsch Liquid Fuels Production by Solar Hybridized Dual Fluidized Bed Gasification of Lignite. <i>Energy &amp; Fuels</i> , 2015, 29, 2738-2751.	5.1	35
135	Time-resolved spectra of solar simulators employing metal halide and xenon arc lamps. <i>Solar Energy</i> , 2015, 115, 613-620.	6.1	47
136	Planar laser-induced incandescence of turbulent sooting flames: the influence of beam steering and signal trapping. <i>Applied Physics B: Lasers and Optics</i> , 2015, 119, 731-743.	2.2	31
137	Effect of heliostat design wind speed on the levelised cost of electricity from concentrating solar thermal power tower plants. <i>Solar Energy</i> , 2015, 115, 441-451.	6.1	41
138	A Novel Solar Expanding-Vortex Particle Reactor: Influence of Vortex Structure on Particle Residence Times and Trajectories. <i>Solar Energy</i> , 2015, 122, 58-75.	6.1	56
139	Concentric multilayer model of the arc in high intensity discharge lamps for solar simulators with experimental validation. <i>Solar Energy</i> , 2015, 122, 293-306.	6.1	32
140	Solar Hybridized Coal-to-liquids via Gasification in Australia: Techno-economic Assessment. <i>Energy Procedia</i> , 2015, 69, 1819-1827.	1.8	12
141	Mechanism for laser-induced fluorescence signal generation in a nanoparticle-seeded flow for planar flame thermometry. <i>Applied Physics B: Lasers and Optics</i> , 2015, 118, 209-218.	2.2	17
142	Global characteristics of non-premixed jet flames of hydrogen-hydrocarbon blended fuels. <i>Combustion and Flame</i> , 2015, 162, 1326-1335.	5.2	20
143	A hybrid solar chemical looping combustion system with a high solar share. <i>Applied Energy</i> , 2014, 126, 69-77.	10.1	33
144	Economic evaluation of a novel fuel-saver hybrid combining a solar receiver with a combustor for a solar power tower. <i>Applied Energy</i> , 2014, 113, 1235-1243.	10.1	55

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145	Temperature imaging of turbulent dilute spray flames using two-line atomic fluorescence. Experiments in Fluids, 2014, 55, 1.	2.4	18
146	Algorithm for soot sheet quantification in a piloted turbulent jet non-premixed natural gas flame. Experiments in Fluids, 2014, 55, 1.	2.4	18
147	Influence of sidewalls on the centerline small-scale turbulence of a turbulent high-aspect-ratio rectangular jet. Experimental Thermal and Fluid Science, 2014, 58, 139-144.	2.7	2
148	Influence of the Type of Oxygen Carriers on the Performance of a Hybrid Solar Chemical Looping Combustion System. Energy & Fuels, 2014, 28, 2914-2924.	5.1	20
149	The energetic performance of a novel hybrid solar thermal & chemical looping combustion plant. Applied Energy, 2014, 132, 74-85.	10.1	36
150	The influence of aspect ratio on distributions of settling velocities and orientations of long fibres. Powder Technology, 2014, 257, 192-197.	4.2	9
151	Influence of Stokes number on the velocity and concentration distributions in particle-laden jets. Journal of Fluid Mechanics, 2014, 757, 432-457.	3.4	94
152	Optics and Photonics in Solar Thermal Energy Technologies. , 2014, , .		0
153	Experimental and computational study of soot evolution in a turbulent nonpremixed bluff body ethylene flame. Combustion and Flame, 2013, 160, 1298-1309.	5.2	55
154	A hybrid solar and chemical looping combustion system for solar thermal energy storage. Applied Energy, 2013, 103, 671-678.	10.1	63
155	Temperature measurements in turbulent non-premixed flames by two-line atomic fluorescence. Proceedings of the Combustion Institute, 2013, 34, 3619-3627.	3.9	23
156	The influence of high intensity solar radiation on the temperature and reduction of an oxygen carrier particle in hybrid chemical looping combustion. Chemical Engineering Science, 2013, 95, 331-342.	3.8	18
157	Dynamic Modeling of the Coproduction of Liquid Fuels and Electricity from a Hybrid Solar Gasifier with Various Fuel Blends. Energy & Fuels, 2013, 27, 3556-3569.	5.1	26
158	Similarity analysis of the momentum field of a subsonic, plane air jet with varying jet-exit and local Reynolds numbers. Physics of Fluids, 2013, 25, .	4.0	25
159	Polygeneration of Liquid Fuels and Electricity by the Atmospheric Pressure Hybrid Solar Gasification of Coal. Energy & Fuels, 2013, 27, 3538-3555.	5.1	49
160	Aerodynamics of long fibres settling in air at $10 < Re < 100$ . Powder Technology, 2013, 235, 550-555.	4.2	7
161	New Seeding Methodology for Gas Concentration Measurements. Applied Spectroscopy, 2012, 66, 803-809.	2.2	15
162	PTV measurement of drag coefficient of fibrous particles with large aspect ratio. Powder Technology, 2012, 229, 261-269.	4.2	17

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163	The potential role of data-centres in enabling investment in geothermal energy. <i>Applied Energy</i> , 2012, 98, 458-466.	10.1	11
164	Flow seeding with elemental metal species via an optical method. <i>Applied Physics B: Lasers and Optics</i> , 2012, 107, 665-668.	2.2	18
165	The effects of temperature and hydrodynamics on the crystallization fouling under cross flow conditions. <i>Applied Thermal Engineering</i> , 2012, 36, 210-218.	6.0	38
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