

# Andreas Dreizler

## List of Publications by Year in descending order

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227  
papers

7,339  
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44042

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230  
docs citations

230  
times ranked

2902  
citing authors

#	ARTICLE	IF	CITATIONS
1	Fuel Effects in Turbulent Premixed Pre-vaporised Alcohol/Air Jet Flames. Flow, Turbulence and Combustion, 2021, 106, 547-573.	1.4	3
2	Simultaneous 10 <sup>6</sup> -kHz three-dimensional CH <sub>2</sub> O and tomographic PIV measurements in a lifted partially-premixed jet flame. Proceedings of the Combustion Institute, 2021, 38, 1675-1683.	2.4	8
3	Flame structure analysis of turbulent premixed/stratified flames with H <sub>2</sub> addition considering differential diffusion and stretch effects. Proceedings of the Combustion Institute, 2021, 38, 2993-3001.	2.4	13
4	Investigation of cycle-to-cycle variations in a spark-ignition engine based on a machine learning analysis of the early flame kernel. Proceedings of the Combustion Institute, 2021, 38, 5751-5759.	2.4	18
5	Investigation of the transition from single to group coal particle combustion using high-speed scanning OH-LIF and diffuse backlight-illumination. Proceedings of the Combustion Institute, 2021, 38, 4101-4109.	2.4	15
6	MARSFT: Efficient fitting of CARS spectra using a library-based genetic algorithm. Journal of Raman Spectroscopy, 2021, 52, 655-663.	1.2	8
7	Experimental Investigation of AdBlue Film Formation in a Generic SCR Test Bench and Numerical Analysis Using LES. Applied Sciences (Switzerland), 2021, 11, 6907.	1.3	11
8	Numerical Investigation of Local Heat-Release Rates and Thermo-Chemical States in Side-Wall Quenching of Laminar Methane and Dimethyl Ether Flames. Flow, Turbulence and Combustion, 2021, 106, 681-700.	1.4	18
9	Near-Wall Flame and Flow Measurements in an Optically Accessible SI Engine. Flow, Turbulence and Combustion, 2021, 106, 597-611.	1.4	17
10	Evaluation of Flame Area Based on Detailed Chemistry DNS of Premixed Turbulent Hydrogen-Air Flames in Different Regimes of Combustion. Flow, Turbulence and Combustion, 2020, 104, 403-419.	1.4	30
11	Effect of Flame-Wall Interaction on Local Heat Release of Methane and DME Combustion in a Side-Wall Quenching Geometry. Flow, Turbulence and Combustion, 2020, 104, 1029-1046.	1.4	37
12	Particle dynamics in a gas assisted coal combustion chamber using advanced laser diagnostics. Fuel, 2020, 269, 117188.	3.4	17
13	High-speed volumetric imaging of formaldehyde in a lifted turbulent jet flame using an acousto-optic deflector. Experiments in Fluids, 2020, 61, 1.	1.1	13
14	Investigation of flame retarded polypropylene by high-speed planar laser-induced fluorescence of OH radicals combined with a thermal decomposition analysis. Experiments in Fluids, 2020, 61, 1.	1.1	8
15	Large Eddy Simulation of a laboratory-scale gas-assisted pulverized coal combustion chamber under oxy-fuel atmospheres using tabulated chemistry. Fuel, 2020, 272, 117683.	3.4	18
16	Influence of the in-cylinder flow on cycle-to-cycle variations in lean combustion DISI engines measured by high-speed scanning-PIV. Proceedings of the Combustion Institute, 2019, 37, 4929-4936.	2.4	34
17	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.	2.4	18
18	Multi-parameter diagnostics for high-resolution in-situ measurements of single coal particle combustion. Proceedings of the Combustion Institute, 2019, 37, 2893-2900.	2.4	36

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19	Assessing the relative importance of flame regimes in Raman/Rayleigh line measurements of turbulent lifted flames. Proceedings of the Combustion Institute, 2019, 37, 2297-2305.	2.4	19
20	A study of the spatial and temporal evolution of auto-ignition kernels using time-resolved tomographic OH-LIF. Proceedings of the Combustion Institute, 2019, 37, 1321-1328.	2.4	19
21	Local flame structure analysis in turbulent CH <sub>4</sub> /air flames with multi-regime characteristics. Combustion and Flame, 2019, 210, 426-438.	2.8	43
22	An application of tomographic PIV to investigate the spray-induced turbulence in a direct-injection engine. International Journal of Multiphase Flow, 2019, 121, 103116.	1.6	21
23	Quantitative mixture fraction imaging of a synthetic biogas turbulent jet propagating into a NO-vitiated air co-flow using planar laser-induced fluorescence (PLIF). Experiments in Fluids, 2019, 60, 1.	1.1	5
24	Multiple scattering reduction in instantaneous gas phase phosphor thermometry: applications with dispersed seeding. Measurement Science and Technology, 2019, 30, 054003.	1.4	12
25	Structure of a stratified CH <sub>4</sub> flame with H <sub>2</sub> addition. Proceedings of the Combustion Institute, 2019, 37, 2307-2315.	2.4	11
26	Flame-cooling air interaction in an effusion-cooled model gas turbine combustor at elevated pressure. Experiments in Fluids, 2019, 60, 1.	1.1	15
27	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.	2.8	22
28	Experimental Investigation of Global Combustion Characteristics in an Effusion Cooled Single Sector Model Gas Turbine Combustor. Flow, Turbulence and Combustion, 2019, 102, 1025-1052.	1.4	16
29	Experimental investigation of particle-laden flows in an oxy-coal combustion chamber for non-reacting conditions. Fuel, 2019, 235, 753-762.	3.4	16
30	Comparison of two measurement strategies to obtain the residence time distribution in combustion chambers using tunable diode laser absorption spectroscopy. Applied Optics, 2019, 58, C36.	0.9	6
31	Wall heat fluxes and CO formation/oxidation during laminar and turbulent side-wall quenching of methane and DME flames. International Journal of Heat and Fluid Flow, 2018, 70, 181-192.	1.1	55
32	3D Numerical Simulation of a Laminar Experimental SWQ Burner with Tabulated Chemistry. Flow, Turbulence and Combustion, 2018, 100, 535-559.	1.4	16
33	Investigation of the Influence of Nanostructured LiNi <sub>0.33</sub> Co <sub>0.33</sub> Mn <sub>0.33</sub> O <sub>2</sub> Lithium-Ion Battery Electrodes on Performance and Aging. Journal of the Electrochemical Society, 2018, 165, A273-A282.	1.3	23
34	Multiscale and luminescent, hollow microspheres for gas phase thermometry. Scientific Reports, 2018, 8, 602.	1.6	6
35	Regime identification from Raman/Rayleigh line measurements in partially premixed flames. Combustion and Flame, 2018, 189, 126-141.	2.8	41
36	Experimental comparison of a 2D laminar diffusion flame under oxy-fuel and air atmosphere. Fuel, 2018, 212, 302-308.	3.4	27

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37	Quenching of Premixed Flames at Cold Walls: Effects on the Local Flow Field. <i>Flow, Turbulence and Combustion</i> , 2018, 100, 177-196.	1.4	22
38	On the importance of non-equilibrium models for describing the coupling of heat and mass transfer at high pressure. <i>International Communications in Heat and Mass Transfer</i> , 2018, 98, 49-58.	2.9	23
39	Experimental investigation of the flue gas thermochemical composition of an oxy-fuel swirl burner. <i>Fuel</i> , 2018, 231, 61-72.	3.4	20
40	Database of Near-Wall Turbulent Flow Properties of a Jet Impinging on a Solid Surface under Different Inclination Angles. <i>Fluids</i> , 2018, 3, 5.	0.8	12
41	Data analysis and uncertainty estimation in supercontinuum laser absorption spectroscopy. <i>Scientific Reports</i> , 2018, 8, 10312.	1.6	16
42	Large Eddy Simulation of a Novel Gas-Assisted Coal Combustion Chamber. <i>Flow, Turbulence and Combustion</i> , 2018, 101, 895-926.	1.4	30
43	Experimental characterization of the velocity boundary layer in a motored IC engine. <i>International Journal of Heat and Fluid Flow</i> , 2018, 71, 366-377.	1.1	27
44	Laser based measurement of water film thickness for the application in exhaust after-treatment processes. <i>International Journal of Heat and Fluid Flow</i> , 2018, 71, 288-294.	1.1	12
45	Tomographic imaging of OH laser-induced fluorescence in laminar and turbulent jet flames. <i>Measurement Science and Technology</i> , 2018, 29, 015206.	1.4	33
46	Experimental and Numerical Investigation of the Argon Power Cycle. , 2018, , .		3
47	PolySpec: polynomial spectrum models for fast and light-weight spectroscopic evaluation. <i>Applied Optics</i> , 2018, 57, 9907.	0.9	1
48	Diode Laser Based Film Thickness Measurement of DEF. , 2018, , .		0
49	An improved TDLAS technique to measure residence time distributions in particle loaded combustion chambers. , 2018, , .		0
50	Development and Analysis of Wall Models for Internal Combustion Engine Simulations Using High-speed Micro-PIV Measurements. <i>Flow, Turbulence and Combustion</i> , 2017, 98, 283-309.	1.4	38
51	Flame-Flow Interaction in Premixed Turbulent Flames During Transient Head-On Quenching. <i>Flow, Turbulence and Combustion</i> , 2017, 98, 1025-1038.	1.4	18
52	Cause-and-effect chain from flow and spray to heat release during lean gasoline combustion operation using conditional statistics. <i>International Journal of Engine Research</i> , 2017, 18, 143-154.	1.4	12
53	Quasi-4D laser diagnostics using an acousto-optic deflector scanning system. <i>Applied Physics B: Lasers and Optics</i> , 2017, 123, 1.	1.1	15
54	An interband cascade laser-based in situ absorption sensor for nitric oxide in combustion exhaust gases. <i>Applied Physics B: Lasers and Optics</i> , 2017, 123, 1.	1.1	9

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55	In-situ measurement of residence time distributions in a turbulent oxy-fuel gas-flame combustor. Experiments in Fluids, 2017, 58, 1.	1.1	10
56	Temporal evolution of auto-ignition of ethylene and methane jets propagating into a turbulent hot air co-flow vitiated with NO <sub>x</sub> . Combustion and Flame, 2017, 177, 193-206.	2.8	20
57	Electrohydrodynamic simulation of electrically controlled droplet generation. International Journal of Heat and Fluid Flow, 2017, 64, 120-128.	1.1	27
58	Experimental investigation of flame surface density and mean reaction rate during flame-wall interaction. Proceedings of the Combustion Institute, 2017, 36, 1827-1834.	2.4	52
59	Numerical analysis of laminar methane-air side-wall-quenching. Combustion and Flame, 2017, 186, 299-310.	2.8	48
60	Flame imaging using planar laser induced fluorescence of sulfur dioxide. Applied Physics B: Lasers and Optics, 2017, 123, 1.	1.1	20
61	Detailed Analysis of the Velocity Fields from 60 kW Swirl-Stabilized Coal Flames in CO <sub>2</sub> /O <sub>2</sub> - and N <sub>2</sub> /O <sub>2</sub> -Atmospheres by Means of Laser Doppler Velocimetry and Particle Image Velocimetry. Combustion Science and Technology, 2017, 189, 1751-1775.	1.2	15
62	Simultaneous measurement of flame impingement and piston surface temperatures in an optically accessible spark ignition engine. Applied Physics B: Lasers and Optics, 2017, 123, 1.	1.1	10
63	Sidewall quenching of atmospheric laminar premixed flames studied by laser-based diagnostics. Combustion and Flame, 2017, 183, 271-282.	2.8	70
64	Application of structured illumination to gas phase thermometry using thermographic phosphor particles: a study for averaged imaging. Experiments in Fluids, 2017, 58, 1.	1.1	12
65	Multiple conditioned analysis of the turbulent stratified flame A. Proceedings of the Combustion Institute, 2017, 36, 1947-1955.	2.4	11
66	Measurement of species concentration and estimation of temperature in the wake of evaporating n-heptane droplets at trans-critical conditions. Proceedings of the Combustion Institute, 2017, 36, 2433-2440.	2.4	17
67	Multiparameter spatio-thermochemical probing of flame-wall interactions advanced with coherent Raman imaging. Proceedings of the Combustion Institute, 2017, 36, 4557-4564.	2.4	50
68	Assessment and application of tomographic PIV for the spray-induced flow in an IC engine. Proceedings of the Combustion Institute, 2017, 36, 3467-3475.	2.4	23
69	Influence of three-dimensional in-cylinder flows on cycle-to-cycle variations in a fired stratified DISI engine measured by time-resolved dual-plane PIV. Proceedings of the Combustion Institute, 2017, 36, 3477-3485.	2.4	52
70	Experimental investigation of flame stabilization inside the quarl of an oxyfuel swirl burner. Fuel, 2017, 201, 124-135.	3.4	47
71	Investigation of ignition and volatile combustion of single coal particles within oxygen-enriched atmospheres using high-speed OH-PLIF. Proceedings of the Combustion Institute, 2017, 36, 2103-2111.	2.4	50
72	Ammonia concentration distribution measurements in the exhaust of a heavy duty diesel engine based on limited data absorption tomography. Optics Express, 2017, 25, 8180.	1.7	33

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73	On the turbulent flow in piston engines: Coupling of statistical theory quantities and instantaneous turbulence. <i>Physics of Fluids</i> , 2016, 28, 045108.	1.6	35
74	Technical design note: differential infrared thermography of methane jets. <i>Measurement Science and Technology</i> , 2016, 27, 107001.	1.4	1
75	Broadband fitting approach for the application of supercontinuum broadband laser absorption spectroscopy to combustion environments. <i>Measurement Science and Technology</i> , 2016, 27, 015501.	1.4	21
76	Devolatilization and volatiles reaction of individual coal particles in the context of FGM tabulated chemistry. <i>Combustion and Flame</i> , 2016, 169, 72-84.	2.8	43
77	Residence time calculations for complex swirling flow in a combustion chamber using large-eddy simulations. <i>Chemical Engineering Science</i> , 2016, 156, 97-114.	1.9	29
78	Turbulent heat flux measurement in a non-reacting round jet, using BAM:Eu <sup>2+</sup> phosphor thermography and particle image velocimetry. <i>Applied Physics B: Lasers and Optics</i> , 2016, 122, 1.	1.1	21
79	Influence of intake geometry variations on in-cylinder flow and flow-spray interactions in a stratified direct-injection spark-ignition engine captured by time-resolved particle image velocimetry. <i>International Journal of Engine Research</i> , 2016, 17, 983-997.	1.4	40
80	Generation of Adverse Pressure Gradient in the Circumferential Flashback of a Premixed Flame. <i>Flow, Turbulence and Combustion</i> , 2016, 97, 663-687.	1.4	14
81	Solid solution between lithium-rich yttrium and europium molybdate as new efficient red-emitting phosphors. <i>Journal of Materials Chemistry C</i> , 2016, 4, 596-602.	2.7	30
82	Differential infrared thermography of gasoline direct injection sprays. <i>Quantitative InfraRed Thermography Journal</i> , 2016, 13, 50-69.	2.1	3
83	Evaluation of a 2.5 kW automotive low temperature PEM fuel cell stack with extended operating temperature range up to 120 °C. <i>Journal of Power Sources</i> , 2016, 303, 257-266.	4.0	21
84	Optical sensing of turbine inlet temperature in a pressurized gas turbine combustor. , 2016, , .		2
85	NO mole fraction measurement in a plasma-heated auto ignition test rig using a 5.2 μm interband cascade laser. , 2016, , .		0
86	Time resolved three-dimensional flamebase imaging of a lifted jet flame by laser scanning. <i>Measurement Science and Technology</i> , 2015, 26, 105201.	1.4	20
87	Challenging modeling strategies for LES of non-adiabatic turbulent stratified combustion. <i>Combustion and Flame</i> , 2015, 162, 4264-4282.	2.8	79
88	A novel plasma heater for auto-ignition studies of turbulent non-premixed flows. <i>Experiments in Fluids</i> , 2015, 56, 1.	1.1	11
89	Characterization of single coal particle combustion within oxygen-enriched environments using high-speed OH-PLIF. <i>Applied Physics B: Lasers and Optics</i> , 2015, 121, 459-464.	1.1	45
90	Development of two-beam femtosecond/picosecond one-dimensional rotational coherent anti-Stokes Raman spectroscopy: Time-resolved probing of flame wall interactions. <i>Proceedings of the Combustion Institute</i> , 2015, 35, 3723-3730.	2.4	53

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91	Early flame propagation in a spark-ignition engine measured with quasi 4D-diagnostics. Proceedings of the Combustion Institute, 2015, 35, 3829-3837.	2.4	45
92	Spray-induced temperature stratification dynamics in a gasoline direct-injection engine. Proceedings of the Combustion Institute, 2015, 35, 2923-2931.	2.4	25
93	Advanced laser diagnostics for an improved understanding of premixed flame-wall interactions. Proceedings of the Combustion Institute, 2015, 35, 37-64.	2.4	152
94	Experimental and Theoretical Investigation of the Flashback of a Swirling, Bluff-Body Stabilised, Premixed Flame. Zeitschrift Fur Physikalische Chemie, 2015, 229, 663-689.	1.4	14
95	Effects of doping concentration and co-doping with cerium on the luminescence properties of Gd <sub>3</sub> Ga <sub>5</sub> O <sub>12</sub> :Cr <sup>3+</sup> for thermometry applications. Optical Materials, 2015, 47, 338-344.	1.7	12
96	Robust, spatially scanning, open-path TDLAS hygrometer using retro-reflective foils for fast tomographic 2-D water vapor concentration field measurements. Atmospheric Measurement Techniques, 2015, 8, 2061-2068.	1.2	18
97	Quantitative acetylene measurements in laminar and turbulent flames using 1D Raman/Rayleigh scattering. Combustion and Flame, 2015, 162, 2248-2255.	2.8	14
98	A Numerical Study of the Flame Stabilization Mechanism Being Determined by Chemical Reaction Rates Submitted to Heat Transfer Processes. Zeitschrift Fur Physikalische Chemie, 2015, 229, 643-662.	1.4	6
99	Investigation of flame propagation in a partially premixed jet by high-speed-Stereo-PIV and acetone-PLIF. Proceedings of the Combustion Institute, 2015, 35, 3773-3781.	2.4	37
100	Evaluation of toluene LIF thermometry detection strategies applied in an internal combustion engine. Applied Physics B: Lasers and Optics, 2014, 117, 151-175.	1.1	45
101	Transient flame-wall interactions: Experimental analysis using spectroscopic temperature and CO concentration measurements. Combustion and Flame, 2014, 161, 2371-2386.	2.8	79
102	Laser imaging investigation of transient heat transfer processes in turbulent nitrogen jets impinging on a heated wall. International Journal of Heat and Mass Transfer, 2014, 74, 101-112.	2.5	26
103	On The Validation of LES Applied to Internal Combustion Engine Flows: Part 1: Comprehensive Experimental Database. Flow, Turbulence and Combustion, 2014, 92, 269-297.	1.4	110
104	LES of Premixed Methane Flame Impinging on the Wall Using Non-adiabatic Flamelet Generated Manifold (FGM) Approach. Flow, Turbulence and Combustion, 2014, 92, 805-836.	1.4	15
105	Cylinder head temperature determination using high-speed phosphor thermometry in a fired internal combustion engine. Applied Physics B: Lasers and Optics, 2014, 116, 293-303.	1.1	24
106	On the mono-exponential fitting of phosphorescence decays. Applied Physics B: Lasers and Optics, 2014, 116, 359-369.	1.1	19
107	Surface thermometry in combustion diagnostics by sputtered thin films of thermographic phosphors. Applied Physics B: Lasers and Optics, 2014, 117, 85-93.	1.1	6
108	Temperature measurements of the bluff body surface of a Swirl Burner using phosphor thermometry. Combustion and Flame, 2014, 161, 2842-2848.	2.8	27

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109	Investigation of the 3D flow field in an IC engine using tomographic PIV. Proceedings of the Combustion Institute, 2013, 34, 2903-2910.	2.4	83
110	Phosphor thermometry: A comparison of the luminescence lifetime and the intensity ratio approach. Proceedings of the Combustion Institute, 2013, 34, 3611-3618.	2.4	91
111	In-Cylinder Flow and Fuel Spray Interactions in a Stratified Spray-Guided Gasoline Engine Investigated by High-Speed Laser Imaging Techniques. Flow, Turbulence and Combustion, 2013, 91, 431-450.	1.4	56
112	Tomographic PIV measurements in a turbulent lifted jet flame. Experiments in Fluids, 2013, 54, 1.	1.1	35
113	Premixed flame propagation in turbulent flow by means of stereoscopic PIV and dual-plane OH-PLIF at sustained kHz repetition rates. Proceedings of the Combustion Institute, 2013, 34, 3565-3572.	2.4	49
114	High-speed PIV and LIF imaging of temperature stratification in an internal combustion engine. Proceedings of the Combustion Institute, 2013, 34, 3653-3660.	2.4	62
115	Application of femtosecond lasers to the polarization ratio technique for droplet sizing. Measurement Science and Technology, 2013, 24, 025203.	1.4	12
116	Phosphor thermometry: On the synthesis and characterisation of Y3Al5O12:Eu (YAG:Eu) and YAlO3:Eu (YAP:Eu). Materials Chemistry and Physics, 2013, 140, 435-440.	2.0	24
117	Simultaneous Measurements of Temperature and CO Concentration in Stagnation Stabilized Flames. Flow, Turbulence and Combustion, 2013, 90, 723-739.	1.4	18
118	Development of a Miniaturized Energy Converter Without Moving Parts. Flow, Turbulence and Combustion, 2013, 90, 741-761.	1.4	9
119	On surface temperature measurements with thermographic phosphors: A review. Progress in Energy and Combustion Science, 2013, 39, 37-60.	15.8	295
120	Spectral decomposition of phosphorescence decays. Review of Scientific Instruments, 2013, 84, 114902.	0.6	6
121	Phosphor thermometry at high repetition rates. , 2013, , .		1
122	High-speed micro particle image velocimetry studies of boundary-layer flows in a direct-injection engine. International Journal of Engine Research, 2013, 14, 247-259.	1.4	62
123	Two-dimensional surface temperature diagnostics in a full-metal engine using thermographic phosphors. Measurement Science and Technology, 2013, 24, 095203.	1.4	33
124	A quantum cascade laser based mid-infrared sensor for the detection of carbon monoxide and nitrous oxide in the jet of a microwave plasma preheated auto-ignition burner. , 2013, , .		0
125	Absolute, spatially resolved, in situ CO profiles in atmospheric laminar counter-flow diffusion flames using 2.3Å <sup>1/4</sup> m TDLAS. Applied Physics B: Lasers and Optics, 2012, 109, 533-540.	1.1	31
126	Raman/Rayleigh scattering and CO-LIF measurements in laminar and turbulent jet flames of dimethyl ether. Combustion and Flame, 2012, 159, 2533-2562.	2.8	69



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127	Experimental and numerical analysis of a lean premixed stratified burner using 1D Raman/Rayleigh scattering and large eddy simulation. <i>Combustion and Flame</i> , 2012, 159, 2669-2689.	2.8	101
128	Two-dimensional cycle-resolved exhaust valve temperature measurements in an optically accessible internal combustion engine using thermographic phosphors. <i>Applied Physics B: Lasers and Optics</i> , 2012, 106, 945-951.	1.1	37
129	In situ TDLAS measurement of absolute acetylene concentration profiles in a non-premixed laminar counter-flow flame. <i>Applied Physics B: Lasers and Optics</i> , 2012, 107, 585-589.	1.1	36
130	Ray tracing of chemiluminescence in an unconfined non-premixed turbulent jet flame using large-eddy simulation. <i>Applied Physics B: Lasers and Optics</i> , 2012, 107, 603-610.	1.1	6
131	Lifted Diffusion Flame Stabilisation: Conditional Analysis of Multi-Parameter High-Repetition Rate Diagnostics at the Flame Base. <i>Flow, Turbulence and Combustion</i> , 2012, 88, 503-527.	1.4	22
132	Reaction Kinetics of Hydroxyl Radicals with Model Compounds of Fuel Cell Polymer Membranes. <i>Fuel Cells</i> , 2012, 12, 132-140.	1.5	31
133	Analysis of cyclic Variability in Motored IC-Engines by Means of Detailed Comparison of Highly-Resolved Experimental and Numerical Data. , 2012, , .		1
134	Gd <sub>3</sub> Ga <sub>5</sub> O <sub>12</sub> :Cr <sup>3+</sup> a phosphor for two-dimensional thermometry in internal combustion engines. <i>Measurement Science and Technology</i> , 2011, 22, 045301.	1.4	37
135	High-speed phosphor thermometry. <i>Review of Scientific Instruments</i> , 2011, 82, 104903.	0.6	58
136	Self-Exited Oscillation in a Combustion Chamber Driven by Phase Change in the Liquid Fuel Feed System. <i>International Journal of Spray and Combustion Dynamics</i> , 2011, 3, 273-284.	0.4	1
137	Single Acetone Droplets at Supercritical Pressure: Droplet Generation and Characterization of PLIFP. <i>Zeitschrift Fur Physikalische Chemie</i> , 2011, 225, 1417-1431.	1.4	6
138	New Perspectives on Turbulent Combustion: Multi-Parameter High-Speed Planar Laser Diagnostics. <i>Flow, Turbulence and Combustion</i> , 2011, 86, 313-341.	1.4	67
139	Highly-resolved LES and PIV Analysis of Isothermal Turbulent Opposed Jets for Combustion Applications. <i>Flow, Turbulence and Combustion</i> , 2011, 87, 425-447.	1.4	29
140	Investigations of soot formation in an optically accessible gasoline direct injection engine by means of laser-induced incandescence (LII). <i>Applied Physics B: Lasers and Optics</i> , 2011, 104, 399-407.	1.1	13
141	Pixel-based characterisation of CMOS high-speed camera systems. <i>Applied Physics B: Lasers and Optics</i> , 2011, 103, 421-433.	1.1	56
142	Gas-phase toluene LIF temperature imaging near surfaces at 10 <sup>6</sup> Hz. <i>Experiments in Fluids</i> , 2011, 51, 1169-1176.	1.1	42
143	A survey of phosphors novel for thermography. <i>Journal of Luminescence</i> , 2011, 131, 559-564.	1.5	54
144	A hybrid method for data evaluation in 1-D Raman spectroscopy. <i>Proceedings of the Combustion Institute</i> , 2011, 33, 815-822.	2.4	59

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145	Temperature and mixing field measurements in stratified lean premixed turbulent flames. Proceedings of the Combustion Institute, 2011, 33, 1583-1590.	2.4	39
146	The spectrally resolved luminescence decay of thermographic phosphors. Measurement Science and Technology, 2011, 22, 083001.	1.4	9
147	LES of Pre-Vaporized Kerosene Combustion at High Pressures in a Single Sector Combustor Taking Advantage of the Flamelet Generated Manifolds Method. , 2011, , .		7
148	Velocity and Droplet Diameter Distributions of Reacting N-Heptane Sprays at Varied Boundary Conditions in a Generic Gas Turbine Combustor. , 2010, , .		1
149	Analysis of the temporal flame kernel development in an optically accessible IC engine using high-speed OH-PLIF. Applied Physics B: Lasers and Optics, 2010, 100, 447-452.	1.1	27
150	1D high-speed Rayleigh measurements in turbulent flames. Applied Physics B: Lasers and Optics, 2010, 101, 487-491.	1.1	19
151	Flow field measurements in an optically accessible, direct-injection spray-guided internal combustion engine using high-speed PIV. Experiments in Fluids, 2010, 48, 281-290.	1.1	96
152	Experimental analysis of flashback in lean premixed swirling flames: upstream flame propagation. Experiments in Fluids, 2010, 49, 853-863.	1.1	76
153	In-Nozzle Measurements of a Turbulent Opposed Jet Using PIV. Flow, Turbulence and Combustion, 2010, 85, 73-93.	1.4	24
154	Flow field studies of a new series of turbulent premixed stratified flames. Combustion and Flame, 2010, 157, 384-396.	2.8	82
155	A fuel cell that runs on water and air. Energy and Environmental Science, 2010, 3, 761.	15.6	10
156	EXPERIMENTAL AND NUMERICAL ANALYSIS OF SPRAY DISPERSION AND EVAPORATION IN A COMBUSTION CHAMBER. Small Group Research, 2009, 19, 929-955.	1.8	13
157	A quasi-adiabatic laminar flat flame burner for high temperature calibration. Measurement Science and Technology, 2009, 20, 065402.	1.4	18
158	Simultaneous phosphor and CARS thermometry at the wall-gas interface within a combustor. Proceedings of the Combustion Institute, 2009, 32, 855-861.	2.4	28
159	On the importance of temporal context in interpretation of flame discontinuities. Combustion and Flame, 2009, 156, 269-271.	2.8	58
160	Two-dimensional thermographic phosphor thermometry using CMOS high speed camera system. Applied Physics B: Lasers and Optics, 2009, 96, 731-734.	1.1	70
161	High-speed mixture fraction imaging. Applied Physics B: Lasers and Optics, 2009, 96, 745-748.	1.1	44
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