Christof Schulz

List of Publications by Citations

357 papers	8,364 citations	46 h-index	72 g-index
395 ext. papers	9,545 ext. citations	3.7 avg, IF	6.24 L-index

#	Paper	IF	Citations
357	Tracer-LIF diagnostics: quantitative measurement of fuel concentration, temperature and fuel/air ratio in practical combustion systems. *Progress in Energy and Combustion Science*, **2005**, 31, 75-121	33.6	407
356	Laser-induced incandescence: recent trends and current questions. *Applied Physics B: Lasers and Optics*, **2006**, 83, 333-354	1.9	366
355	Laser-induced incandescence: Particulate diagnostics for combustion, atmospheric, and industrial applications. *Progress in Energy and Combustion Science*, **2015**, 51, 2-48	33.6	208
354	Modeling laser-induced incandescence of soot: a summary and comparison of LII models. *Applied Physics B: Lasers and Optics*, **2007**, 87, 503-521	1.9	163
353	Measurement of temperature, fuel concentration and equivalence ratio fields using tracer LIF in IC engine combustion. *Applied Physics B: Lasers and Optics*, **2000**, 71, 717-723	1.9	141
352	Absorption and fluorescence of toluene vapor at elevated temperatures. *Physical Chemistry Chemical Physics*, **2004**, 6, 2940	3.6	130
351	Autoignition of gasoline surrogates mixtures at intermediate temperatures and high pressures. *Combustion and Flame*, **2008**, 152, 276-281	5.3	110
350	Innovative Ultra-low NOx Controlled Auto-Ignition Combustion Process for Gasoline Engines: the 4-SPACE Project **2000**,		105
349	Shock-tube study of the autoignition of n-heptane/toluene/air mixtures at intermediate temperatures and high pressures. *Combustion and Flame*, **2007**, 149, 25-31	5.3	102
348	Auto-ignition of toluene-doped n-heptane and iso-octane/air mixtures: High-pressure shock-tube experiments and kinetics modeling. *Combustion and Flame*, **2011**, 158, 172-178	5.3	94
347	Parasitic Reactions in Nanosized Silicon Anodes for Lithium-Ion Batteries. *Nano Letters*, **2017**, 17, 1512-1519	11.3	93
346	VCSEL-based, high-speed, in situ TDLAS for in-cylinder water vapor measurements in IC engines. *Optics Express*, **2013**, 21, 19951-65	3.3	89
345	Simultaneous single-shot laser-based imaging of formaldehyde, OH, and temperature in turbulent flames. *Proceedings of the Combustion Institute*, **2000**, 28, 279-286	5.9	89
344	Plasma synthesis of nanostructures for improved thermoelectric properties. *Journal Physics D: Applied Physics*, **2011**, 44, 174034	3	88
343	Study of the H+O+M reaction forming OH*: Kinetics of OH* chemiluminescence in hydrogen combustion systems. *Combustion and Flame*, **2010**, 157, 1261-1273	5.3	83
342	Toluene laser-induced fluorescence for in-cylinder temperature imaging in internal combustion engines. *Applied Physics B: Lasers and Optics*, **2008**, 91, 669-675	1.9	79
341	Two-color time-resolved LII applied to soot particle sizing in the cylinder of a Diesel engine. *Combustion and Flame*, **2006**, 147, 79-92	5.3	78

340	Quantitative multi-line NO-LIF temperature imaging. *Applied Physics B: Lasers and Optics*, **2004**, 78, 519-533	1.9	78
339	Ignition delay times of ethanol-containing multi-component gasoline surrogates: Shock-tube experiments and detailed modeling. *Fuel*, **2011**, 90, 1238-1244	7.1	74
338	Oxygen quenching of toluene fluorescence at elevated temperatures. *Applied Physics B: Lasers and Optics*, **2005**, 80, 777-784	1.9	74
337	Measurement and Chemical Kinetics Modeling of Shock-Induced Ignition of Ethanol/Air Mixtures. *Energy & Fuels*, **2010**, 24, 2830-2840	4.1	68
336	Autoignition of gasoline surrogate mixtures at intermediate temperatures and high pressures: Experimental and numerical approaches. *Proceedings of the Combustion Institute*, **2009**, 32, 501-508	5.9	67
335	Electrical properties of aluminum-doped zinc oxide (AZO) nanoparticles synthesized by chemical vapor synthesis. *Nanotechnology*, **2009**, 20, 445701	3.4	67
334	Laser-induced incandescence for soot diagnostics at high pressures. *Applied Optics*, **2003**, 42, 2052-62	1.7	65
333	A direct-flame solid oxide fuel cell (DFFC) operated on methane, propane, and butane. *Journal of Power Sources*, **2007**, 166, 120-126	8.9	63
332	Predicting LIF signal strength for toluene and 3-pentanone under engine-related temperature and pressure conditions. *Proceedings of the Combustion Institute*, **2005**, 30, 1545-1553	5.9	63
331	Ultraviolet absorption spectra of shock-heated carbon dioxide and water between 900 and 3050 K. *Chemical Physics Letters*, **2002**, 355, 82-88	2.5	62
330	Gas-phase synthesis of functional nanomaterials: Challenges to kinetics, diagnostics, and process development. *Proceedings of the Combustion Institute*, **2019**, 37, 83-108	5.9	61
329	Ignition delay times of diethyl ether measured in a high-pressure shock tube and a rapid compression machine. *Proceedings of the Combustion Institute*, **2015**, 35, 259-266	5.9	59
328	Silicon/Polyaniline Nanocomposites as Anode Material for Lithium Ion Batteries. *Journal of the Electrochemical Society*, **2014**, 161, A40-A45	3.9	55
327	NO-flow tagging by photodissociation of NO2. A new approach for measuring small-scale flow structures. *Chemical Physics Letters*, **1999**, 307, 15-20	2.5	55
326	Stabilization of mid-sized silicon nanoparticles by functionalization with acrylic acid. *Nanoscale Research Letters*, **2012**, 7, 76	5	54
325	High-capacity cathodes for lithium-ion batteries from nanostructured LiFePO4 synthesized by highly-flexible and scalable flame spray pyrolysis. *Journal of Power Sources*, **2012**, 216, 76-83	8.9	54
324	Toluene LIF at elevated temperatures: implications for fuel/air ratio measurements. *Applied Physics B: Lasers and Optics*, **2005**, 80, 147-150	1.9	53
323	In situ nanoparticle size measurements of gas-borne silicon nanoparticles by time-resolved laser-induced incandescence. *Applied Physics B: Lasers and Optics*, **2014**, 116, 623-636	1.9	51

322	Thermal stratification in an internal combustion engine due to wall heat transfer measured by laser-induced fluorescence. *Proceedings of the Combustion Institute*, **2013**, 34, 2911-2919	5.9	51
321	Enhanced coalescence upon laser desorption of fullerene oxides. *Journal of Chemical Physics*, **1994**, 101, 3243-3249	3.9	51
320	Instantaneous 3D imaging of highly turbulent flames using computed tomography of chemiluminescence. *Applied Optics*, **2017**, 56, 7385-7395	1.7	50
319	Direct self-assembly of Fe2O3/reduced graphene oxide nanocomposite for high-performance lithium-ion batteries. *Journal of Materials Chemistry A*, **2015**, 3, 11566-11574	13	49
318	The autoignition of practical fuels at HCCI conditions: High-pressure shock tube experiments and phenomenological modeling. *Fuel*, **2012**, 93, 492-501	7.1	49
317	Functionalization of silicon nanoparticles via hydrosilylation with 1-alkenes. *Colloid and Polymer Science*, **2007**, 285, 729-736	2.4	48
316	Gas-Phase Synthesis of Nanoscale Silicon as an Economical Route towards Sustainable Energy Technology. *KONA Powder and Particle Journal*, **2011**, 29, 191-207	3.4	47
315	Novel strategies for imaging temperature distribution using Toluene LIF. *Journal of Physics: Conference Series*, **2006**, 45, 133-139	0.3	47
314	Strategies for laser-induced fluorescence detection of nitric oxide in high-pressure flames. I. A-X(0,0) excitation. *Applied Optics*, **2002**, 41, 3547-57	1.7	47
313	Quantitative 2D single-shot imaging of no concentrations and temperatures in a transparent SI engine. *Proceedings of the Combustion Institute*, **1996**, 26, 2597-2604		47
312	Laser-induced-fluorescence detection of nitric oxide in high-pressure flames with A-X(0, 2) excitation. *Applied Optics*, **1997**, 36, 3227-32	1.7	46
311	Quantitative NO-LIF imaging in high-pressure flames. *Applied Physics B: Lasers and Optics*, **2002**, 75, 97-102	2.9	45
310	Strategies for laser-induced fluorescence detection of nitric oxide in high-pressure flames. III. Comparison of A-X excitation schemes. *Applied Optics*, **2003**, 42, 4922-36	1.7	45
309	A laser-induced fluorescence scheme for imaging nitric oxide in engines. *Chemical Physics Letters*, **1995**, 242, 259-264	2.5	45
308	SpraySyn-A standardized burner configuration for nanoparticle synthesis in spray flames. *Review of Scientific Instruments*, **2019**, 90, 085108	1.7	44
307	Temperature, pressure, and bath gas composition dependence of fluorescence spectra and fluorescence lifetimes of toluene and naphthalene. *Applied Physics B: Lasers and Optics*, **2013**, 110, 81-93	1.9	44
306	A quantum chemical and kinetics modeling study on the autoignition mechanism of diethyl ether. *Proceedings of the Combustion Institute*, **2017**, 36, 195-202	5.9	44
305	Simultaneous measurement of localized heat-release with OH/CH2O□LIF imaging and spatially integrated OH* chemiluminescence in turbulent swirl flames. *Proceedings of the Combustion Institute*, **2013**, 34, 3549-3556	5.9	43

304	High-speed tunable diode laser absorption spectroscopy for sampling-free in-cylinder water vapor concentration measurements in an optical IC engine. *Applied Physics B: Lasers and Optics*, **2012**, 109, 521-532	1.9	43
303	Quantitative temperature measurements in high-pressure flames with multiline NO-LIF thermometry. *Applied Optics*, **2005**, 44, 6718-28	1.7	43
302	Oxygen-distribution imaging with a novel two-tracer laser-induced fluorescence technique. *Applied Physics B: Lasers and Optics*, **2002**, 74, 111-114	1.9	43
301	Impact of UV absorption by CO2 and H2O on no lif inhigh-pressure combustion applications. *Proceedings of the Combustion Institute*, **2002**, 29, 2735-2742	5.9	43
300	Comparison of micro- and nanoscale Fe+□-containing (Hematite) particles for their toxicological properties in human lung cells in vitro. *Toxicological Sciences*, **2012**, 126, 173-82	4.4	42
299	Experimental and numerical characterization of a turbulent spray flame. *Proceedings of the Combustion Institute*, **2007**, 31, 2247-2255	5.9	42
298	Laser-diagnostic and numerical study of strongly swirling natural gas flames. *Proceedings of the Combustion Institute*, **1998**, 27, 1023-1029		41
297	Influence of the bath gas on the condensation of supersaturated iron atom vapour at room temperature. *Journal Physics D: Applied Physics*, **2008**, 41, 055203	3	40
296	Two-Line Laser-Induced Fluorescence Imaging of Vibrational Temperatures in a NO-Seeded Flame. *Applied Optics*, **2001**, 40, 748-56	1.7	38
295	Shock-tube and plug-flow reactor study of the oxidation of fuel-rich CH4/O2 mixtures enhanced with additives. *Combustion and Flame*, **2016**, 169, 307-320	5.3	38
294	Gas-temperature imaging in a low-pressure flame reactor for nano-particle synthesis with multi-line NO-LIF thermometry. *Applied Physics B: Lasers and Optics*, **2007**, 88, 373-377	1.9	37
293	In-Cylinder Combustion Visualization in an Auto-Igniting Gasoline Engine using Fuel Tracer- and Formaldehyde-LIF Imaging **2001**,		37
292	Quantification of NO A-X (0, 2) laser-induced fluorescence: investigation of calibration and collisional influences in high-pressure flames. *Applied Optics*, **1999**, 38, 1434-43	1.7	37
291	Electrostatic Self-Assembly Enabling Integrated Bulk and Interfacial Sodium Storage in 3D Titania-Graphene Hybrid. *Nano Letters*, **2018**, 18, 336-346	11.5	37
290	Experimental study of the kinetics of ethanol pyrolysis and oxidation behind reflected shock waves and in laminar flames. *Proceedings of the Combustion Institute*, **2015**, 35, 393-400	5.9	35
289	Laser-based diagnostics in the gas-phase synthesis of inorganic nanoparticles. *Powder Technology*, **2016**, 287, 226-238	5.2	35
288	Quantitative liquid and vapor distribution measurements in evaporating fuel sprays using laser-induced exciplex fluorescence. *Measurement Science and Technology*, **2009**, 20, 125401	2	35
287	Combined production of power and syngas in an internal combustion engine □Experiments and simulations in SI and HCCI mode. *Fuel*, **2018**, 215, 40-45	7.1	35

286	Two-tracer LIF imaging of preferential evaporation of multi-component gasoline fuel sprays under engine conditions. *Proceedings of the Combustion Institute*, **2015**, 35, 2915-2922	5.9	34
285	Study of Soot Formation and Oxidation in the Engine Combustion Network (ECN), Spray A: Effects of Ambient Temperature and Oxygen Concentration. *SAE International Journal of Engines*, **2013**, 6, 352-365	2.4	34
284	Combustion Diagnostics **2007**, 1241-1315		34
283	Laser-induced incandescence for soot-particle sizing at elevated pressure. *Applied Physics B: Lasers and Optics*, **2008**, 90, 629-639	1.9	33
282	Two-dimensional cycle-resolved exhaust valve temperature measurements in an optically accessible internal combustion engine using thermographic phosphors. *Applied Physics B: Lasers and Optics*, **2012**, 106, 945-951	1.9	32
281	Carbon dioxide UV laser-induced fluorescence in high-pressure flames. *Chemical Physics Letters*, **2003**, 375, 344-349	2.5	32
280	Determination of small soot particles in the presence of large ones from time-resolved laser-induced incandescence. *Applied Physics B: Lasers and Optics*, **2015**, 118, 169-183	1.9	31
279	Investigation of toluene LIF at high pressure and high temperature in an optical engine. *Applied Physics B: Lasers and Optics*, **2009**, 96, 735-739	1.9	31
278	UV absorption of CO2 for temperature diagnostics of hydrocarbon combustion applications. *Proceedings of the Combustion Institute*, **2005**, 30, 1591-1599	5.9	31
277	Strategies for laser-induced fluorescence detection of nitric oxide in high-pressure flames. II. A-X(0,1) excitation. *Applied Optics*, **2003**, 42, 2031-42	1.7	30
276	Rayleigh-calibrated fluorescence quantum yield measurements of acetone and 3-pentanone. *Applied Optics*, **2004**, 43, 5901-10	1.7	30
275	Combination of LII and extinction measurements for determination of soot volume fraction and estimation of soot maturity in non-premixed laminar flames. *Applied Physics B: Lasers and Optics*, **2015**, 119, 685-696	1.9	29
274	Si@CNT/rGO Nanoheterostructures as High-Performance Lithium-Ion-Battery Anodes. *ChemElectroChem*, **2015**, 2, 1983-1990	4.3	29
273	A Genetic Algorithm-Based Method for the Automatic Reduction of Reaction Mechanisms. *International Journal of Chemical Kinetics*, **2014**, 46, 41-59	1.4	29
272	Investigation of the kinetics of OH* and CH* chemiluminescence in hydrocarbon oxidation behind reflected shock waves. *Applied Physics B: Lasers and Optics*, **2012**, 107, 515-527	1.9	29
271	Temperature and bath gas composition dependence of effective fluorescence lifetimes of toluene excited at 266 nm. *Chemical Physics*, **2011**, 383, 6-11	2.3	29
270	Imaging measurements of atomic iron concentration with laser-induced fluorescence in a nanoparticle synthesis flame reactor. *Applied Physics B: Lasers and Optics*, **2009**, 94, 119-125	1.9	29
269	Quantitative in-cylinder NO-LIF imaging in a realistic gasoline engine with spray-guided direct injection. *Proceedings of the Combustion Institute*, **2005**, 30, 2667-2674	5.9	29

268	Laser-induced incandescence from laser-heated silicon nanoparticles. *Applied Physics B: Lasers and Optics*, **2016**, 122, 1	1.9	28
267	Initial reaction steps during flame synthesis of iron-oxide nanoparticles. *CrystEngComm*, **2015**, 17, 6930-6939	3.3	28
266	A shock tube with a high-repetition-rate time-of-flight mass spectrometer for investigations of complex reaction systems. *Review of Scientific Instruments*, **2011**, 82, 084103	1.7	28
265	Temperature and species measurement in a quenching boundary layer on a flat-flame burner. *Experiments in Fluids*, **2010**, 49, 783-795	2.5	28
264	Measurements and simulation of in-cylinder UV-absorption in spark ignition and Diesel engines. *Applied Physics B: Lasers and Optics*, **2001**, 73, 173-180	1.9	28
263	Power and syngas production from partial oxidation of fuel-rich methane/DME mixtures in an HCCI engine. *Fuel*, **2019**, 243, 97-103	7.1	27
262	Laser-Based Experimental and Monte Carlo PDF Numerical Investigation of an Ethanol/Air Spray Flame. *Combustion Science and Technology*, **2008**, 180, 1529-1547	1.5	27
261	Single-shot laser-induced fluorescence imaging of formaldehyde with XeF excimer excitation. *Applied Physics B: Lasers and Optics*, **2000**, 70, 733-735	1.9	27
260	A comparison of selected organic tracers for quantitative scalar imaging in the gas phase via laser-induced fluorescence. *Applied Physics B: Lasers and Optics*, **2014**, 117, 183-194	1.9	26
259	Photo-physical properties of anisole: temperature, pressure, and bath gas composition dependence of fluorescence spectra and lifetimes. *Applied Physics B: Lasers and Optics*, **2013**, 112, 203-213	1.9	26
258	All gas-phase synthesis of graphene: Characterization and its utilization for silicon-based lithium-ion batteries. *Electrochimica Acta*, **2018**, 272, 52-59	6.7	25
257	TR-LII for sizing of carbon particles forming at room temperature. *Applied Physics B: Lasers and Optics*, **2006**, 83, 449-454	1.9	25
256	Laser diagnostic analysis of no formation in a direct injection diesel engine with pump-line-nozzle and common rail injection systems. *Proceedings of the Combustion Institute*, **2000**, 28, 1137-1143	5.9	25
255	Autoignition of surrogate biodiesel fuel (B30) at high pressures: Experimental and modeling kinetic study. *Combustion and Flame*, **2012**, 159, 996-1008	5.3	24
254	Measurement of water film thickness by laser-induced fluorescence and Raman imaging. *Applied Physics B: Lasers and Optics*, **2011**, 102, 123-132	1.9	24
253	Simultaneous measurement of localized heat release with OH/CH2O-LIF imaging and spatially integrated OH* chemiluminescence in turbulent swirl flames. *Applied Physics B: Lasers and Optics*, **2012**, 107, 611-617	1.9	23
252	Unburned gas temperature measurements in a surrogate Diesel jet via two-color toluene-LIF imaging. *Proceedings of the Combustion Institute*, **2011**, 33, 783-790	5.9	23
251	Heat release of carbon particle formation from hydrogen-free precursors behind shock waves. *Proceedings of the Combustion Institute*, **2007**, 31, 649-656	5.9	23

250	Quantitative oxygen imaging in an engine. *Applied Physics B: Lasers and Optics*, **2002**, 75, 137-141	1.9	23
249	Gas-phase temperature imaging in spray systems using multi-line NO-LIF thermometry. *Applied Physics B: Lasers and Optics*, **2005**, 81, 1071-1074	1.9	23
248	Laser-based in situ measurement and simulation of gas-phase temperature and iron atom concentration in a pilot-plant nanoparticle synthesis reactor. *Proceedings of the Combustion Institute*, **2015**, 35, 2299-2306	5.9	22
247	Impact of shock-tube facility-dependent effects on incident- and reflected-shock conditions over a wide range of pressures and Mach numbers. *Combustion and Flame*, **2020**, 217, 200-211	5.3	22
246	Surface functionalization of microwave plasma-synthesized silica nanoparticles for enhancing the stability of dispersions. *Journal of Nanoparticle Research*, **2014**, 16, 1	2.3	22
245	Mechanism of Iron Oxide Formation from Iron Pentacarbonyl-Doped Low-Pressure Hydrogen/Oxygen Flames. *International Journal of Chemical Kinetics*, **2013**, 45, 487-498	1.4	22
244	A Genetic AlgorithmBased Method for the Optimization of Reduced Kinetics Mechanisms. *International Journal of Chemical Kinetics*, **2015**, 47, 695-723	1.4	22
243	Imaging of the oxygen distribution in an isothermal turbulent free jet using two-color toluene LIF imaging. *Applied Physics B: Lasers and Optics*, **2011**, 103, 707-715	1.9	22
242	Simultaneous measurement of liquid water film thickness and vapor temperature using near-infrared tunable diode laser spectroscopy. *Applied Physics B: Lasers and Optics*, **2010**, 99, 385-390	1.9	22
241	Simultaneous Mapping of the Distribution of Different Fuel Volatility Classes Using Tracer-LIF Tomography in an IC Engine **1998**,		22
240	Towards Mechanistic Understanding of Liquid-Phase Cinnamyl Alcohol Oxidation with tert-Butyl Hydroperoxide over Noble-Metal-Free LaCo Fe O Perovskites. *ChemPlusChem*, **2019**, 84, 1155-1163	2.8	21
239	Optical properties and pyrolysis of shock-heated gas-phase anisole. *Proceedings of the Combustion Institute*, **2017**, 36, 4525-4532	5.9	21
238	An automated thermophoretic soot sampling device for laboratory-scale high-pressure flames. *Review of Scientific Instruments*, **2014**, 85, 045103	1.7	21
237	Experimental and Numerical Investigation of Fe(CO)5 Addition to a Laminar Premixed Hydrogen/Oxygen/Argon Flame. *Zeitschrift Fur Physikalische Chemie*, **2009**, 223, 639-649	3.1	21
236	Vibrational and defect states in SnOx nanoparticles. *Journal of Applied Physics*, **2006**, 99, 113108	2.5	21
235	Direct-Flame Solid-Oxide Fuel Cell (DFFC): A Thermally Self-Sustained, Air Self- Breathing, Hydrocarbon-Operated SOFC System in a Simple, No-Chamber Setup. *ECS Transactions*, **2007**, 7, 555-564[1]		21
234	Detailed modeling and laser-induced fluorescence imaging of nitric oxide in a NH3-seeded non-premixed methane/air flame. *Proceedings of the Combustion Institute*, **2002**, 29, 2195-2202	5.9	21
233	Spray-Flame-Synthesized LaCo1⊠FexO3 Perovskite Nanoparticles as Electrocatalysts for Water and Ethanol Oxidation. *ChemElectroChem*, **2019**, 6, 4266-4274	4.3	21

232	Durability study of platinum nanoparticles supported on gas-phase synthesized graphene in oxygen reduction reaction conditions. *Applied Surface Science*, **2019**, 467-468, 1181-1186	6.7	21
231	Spray-flame synthesis of La(Fe, Co)O3 nano-perovskites from metal nitrates. *AICHE Journal*, **2020**, 66, e16748	3.6	21
230	Sensitivity analysis for soot particle size imaging with laser-induced incandescence at high pressure. *Applied Physics B: Lasers and Optics*, **2015**, 119, 745-763	1.9	20
229	A novel magnetically-separable porous iron-oxide nanocomposite as an adsorbent for methylene blue (MB) dye. *Journal of Environmental Chemical Engineering*, **2016**, 4, 3779-3787	6.8	20
228	Shock-tube study of the ignition and product formation of fuel-rich CH4/air and CH4/additive/air mixtures at high pressure. *Proceedings of the Combustion Institute*, **2019**, 37, 5705-5713	5.9	20
227	Modeling laser-induced incandescence of soot: enthalpy changes during sublimation, conduction, and oxidation. *Applied Physics B: Lasers and Optics*, **2008**, 93, 645-656	1.9	20
226	Two-Dimensional Temperature Measurements in an SI Engine Using Two-Line Tracer LIF **1998**,		20
225	Investigation of spatially resolved light absorption in a spark-ignition engine fueled with propane/air. *Applied Optics*, **1999**, 38, 1452-8	1.7	20
224	A single-pulse shock tube coupled with high-repetition-rate time-of-flight mass spectrometry and gas chromatography for high-temperature gas-phase kinetics studies. *Review of Scientific Instruments*, **2016**, 87, 105103	1.7	20
223	Synthesis of silicon nanoparticles in a pilot-plant-scale microwave plasma reactor: Impact of flow rates and precursor concentration on the nanoparticle size and aggregation. *Powder Technology*, **2019**, 342, 880-886	5.2	20
222	Assessment of soot particle-size imaging with LII at Diesel engine conditions. *Applied Physics B: Lasers and Optics*, **2015**, 119, 765-776	1.9	19
221	Ignition delay times of Jet A-1 fuel: Measurements in a high-pressure shock tube and a rapid compression machine. *Proceedings of the Combustion Institute*, **2017**, 36, 3695-3703	5.9	19
220	Synthesis of tailored WO3 and WOx (2.9. *Proceedings of the Combustion Institute*, **2011**, 33, 1883-1890	5.9	19
219	Spectroscopic characterization of the fluorobenzene/DEMA tracer system for laser-induced exciplex fluorescence for the quantitative study of evaporating fuel sprays. *Applied Physics B: Lasers and Optics*, **2009**, 97, 909-918	1.9	19
218	Experiments and modeling of ignition delay times, flame structure and intermediate species of EHN-doped stoichiometric n-heptane/air combustion. *Proceedings of the Combustion Institute*, **2009**, 32, 197-204	5.9	19
217	Development of a two-line OH-laser-induced fluorescence thermometry diagnostics strategy for gas-phase temperature measurements in engines. *Applied Optics*, **2008**, 47, 5871-85	0.2	19
216	Unsteady flame and flow field interaction of a premixed model gas turbine burner. *Proceedings of the Combustion Institute*, **2007**, 31, 3197-3205	5.9	19
215	Synthesis of SnO2□ nanoparticles tuned between 0?x?1 in a premixed low pressure H2/O2/Ar flame. *Proceedings of the Combustion Institute*, **2007**, 31, 1805-1812	5.9	19

214	Branching ratios for quenching of nitric oxide A 2Sigma+ (nuO= 0) to X 2Pi(nuO= 0). *Physical Chemistry Chemical Physics*, **2006**, 8, 5328-38	3.6	19
213	Laser-induced fluorescence of tracers dissolved in evaporating droplets. *Applied Physics B: Lasers and Optics*, **2004**, 78, 127-131	1.9	19
212	Quantitative two-dimensional measurement of oil-film thickness by laser-induced fluorescence in a piston-ring model experiment. *Applied Optics*, **2016**, 55, 269-79	0.2	18
211	Experimental and numerical study of a HMDSO-seeded premixed laminar low-pressure flame for SiO2 nanoparticle synthesis. *Proceedings of the Combustion Institute*, **2017**, 36, 1045-1053	5.9	18
210	Endoscopic temperature imaging in a four-cylinder IC engine via two-color toluene fluorescence. *Proceedings of the Combustion Institute*, **2015**, 35, 3697-3705	5.9	18
209	Core and grain boundary sensitivity of tungsten-oxide sensor devices by molecular beam assisted particle deposition. *Journal of Applied Physics*, **2007**, 102, 124305	2.5	18
208	Nonstationary Collisional Dynamics in Determining Nitric Oxide Laser-Induced Flourescence Spectra. *AIAA Journal*, **2005**, 43, 458-464	2.1	18
207	Advanced direct injection combustion engine technologies and development **2010**,		18
206	Selective cyclohexene oxidation with O2, H2O2 and tert-butyl hydroperoxide over spray-flame synthesized LaCo1−xFexO3 nanoparticles. *Catalysis Science and Technology*, **2020**, 10, 5196-5206	5.5	17
205	Shock-tube study of methane pyrolysis in the context of energy-storage processes. *Proceedings of the Combustion Institute*, **2019**, 37, 197-204	5.9	17
204	Spectroscopic models for laser-heated silicon and copper nanoparticles. *Journal of Quantitative Spectroscopy and Radiative Transfer*, **2017**, 197, 3-11	2.1	17
203	Impact of Ambient Pressure on Titania Nanoparticle Formation During Spray-Flame Synthesis. *Journal of Nanoscience and Nanotechnology*, **2015**, 15, 9449-56	1.3	17
202	Visualization of the evaporation of a diesel spray using combined Mie and Rayleigh scattering techniques. *Experiments in Fluids*, **2009**, 47, 439-449	2.5	17
201	Fluorescence lifetime of gas-phase toluene at elevated temperatures. *Chemical Physics Letters*, **2006**, 426, 248-251	2.5	17
200	Numerical simulation and laser-based imaging of mixture formation, ignition, and soot formation in a diesel spray. *Proceedings of the Combustion Institute*, **2005**, 30, 2029-2036	5.9	17
199	Discrepancies between shock tube and rapid compression machine ignition at low temperatures and high pressures **2009**, 739-744		17
198	An experimental and modeling study on the reactivity of extremely fuel-rich methane/dimethyl ether mixtures. *Combustion and Flame*, **2020**, 212, 107-122	5.3	17
197	Direct Measurement of High-Temperature Rate Constants of the Thermal Decomposition of Dimethoxymethane, a Shock Tube and Modeling Study. *Journal of Physical Chemistry A*, **2018**, 122, 7559-7571	2.8	17

196	Calibration-free, high-speed, in-cylinder laser absorption sensor for cycle-resolved, absolute H2O measurements in a production IC engine. *Proceedings of the Combustion Institute*, **2015**, 35, 3653-3661	5.9	16
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194	Tunable diode laser absorption sensor for the simultaneous measurement of water film thickness, liquid- and vapor-phase temperature. *Applied Physics B: Lasers and Optics*, **2011**, 104, 21-27	1.9	16
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