Andreas Ehn

List of Publications by Year in descending order

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Δήρρελς Εμή

#	Article	IF	CITATIONS
1	FRAME: femtosecond videography for atomic and molecular dynamics. Light: Science and Applications, 2017, 6, e17045-e17045.	16.6	103
2	Translational, rotational, vibrational and electron temperatures of a gliding arc discharge. Optics Express, 2017, 25, 20243.	3.4	77
3	Dynamics, OH distributions and UV emission of a gliding arc at various flow-rates investigated by optical measurements. Journal Physics D: Applied Physics, 2014, 47, 295203.	2.8	72
4	Sustained diffusive alternating current gliding arc discharge in atmospheric pressure air. Applied Physics Letters, 2014, 105, .	3.3	58
5	Measurements of 3D slip velocities and plasma column lengths of a gliding arc discharge. Applied Physics Letters, 2015, 106, .	3.3	53
6	Advanced Laser-Based Techniques for Gas-Phase Diagnostics in Combustion and Aerospace Engineering. Applied Spectroscopy, 2017, 71, 341-366.	2.2	52
7	Spatiotemporally resolved characteristics of a gliding arc discharge in a turbulent air flow at atmospheric pressure. Physics of Plasmas, 2017, 24, .	1.9	50
8	Stray light suppression in spectroscopy using periodic shadowing. Optics Express, 2014, 22, 7711.	3.4	43
9	Visualization of instantaneous structure and dynamics of large-scale turbulent flames stabilized by a gliding arc discharge. Proceedings of the Combustion Institute, 2019, 37, 5629-5636.	3.9	42
10	Skeletal Methane–Air Reaction Mechanism for Large Eddy Simulation of Turbulent Microwave-Assisted Combustion. Energy & Fuels, 2017, 31, 1904-1926.	5.1	40
11	Investigation of flue-gas treatment with O3 injection using NO and NO2 planar laser-induced fluorescence. Fuel, 2010, 89, 2346-2352.	6.4	31
12	Plasma assisted combustion: Effects of O3 on large scale turbulent combustion studied with laser diagnostics and Large Eddy Simulations. Proceedings of the Combustion Institute, 2015, 35, 3487-3495.	3.9	30
13	Characterization of an AC glow-type gliding arc discharge in atmospheric air with a current-voltage lumped model. Physics of Plasmas, 2017, 24, .	1.9	30
14	Investigations of microwave stimulation of a turbulent low-swirl flame. Proceedings of the Combustion Institute, 2017, 36, 4121-4128.	3.9	30
15	Effect of turbulent flow on an atmospheric-pressure AC powered gliding arc discharge. Journal of Applied Physics, 2018, 123, .	2.5	30
16	Photofragmentation laser-induced fluorescence imaging in premixed flames. Combustion and Flame, 2011, 158, 1908-1919.	5.2	29
17	Fluorescence lifetime imaging in a flame. Proceedings of the Combustion Institute, 2011, 33, 807-813.	3.9	27
18	Stabilization of a turbulent premixed flame by a plasma filament. Combustion and Flame, 2019, 208, 79-85.	5.2	25

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19	Investigation of formaldehyde enhancement by ozone addition in CH4/air premixed flames. Combustion and Flame, 2015, 162, 1284-1293.	5.2	22
20	Simultaneous multispectral imaging of flame species using Frequency Recognition Algorithm for Multiple Exposures (FRAME). Combustion and Flame, 2018, 192, 160-169.	5.2	22
21	Single-laser shot fluorescence lifetime imaging on the nanosecond timescale using a Dual Image and Modeling Evaluation algorithm. Optics Express, 2012, 20, 3043.	3.4	20
22	In-Situ Non-intrusive Diagnostics of Toluene Removal by a Gliding Arc Discharge Using Planar Laser-Induced Fluorescence. Plasma Chemistry and Plasma Processing, 2017, 37, 433-450.	2.4	20
23	Observation of gliding arc surface treatment. Surface Engineering, 2015, 31, 282-288.	2.2	19
24	Femtosecond two-photon laser-induced fluorescence imaging of atomic hydrogen in a laminar methane–air flame assisted by nanosecond repetitively pulsed discharges. Plasma Sources Science and Technology, 2020, 29, 065011.	3.1	17
25	Electrochemical Investigation of Nickel Pattern Electrodes in H[sub 2]/H[sub 2]O and CO/CO[sub 2] Atmospheres. Journal of the Electrochemical Society, 2010, 157, B1588.	2.9	16
26	Stability of alternating current gliding arcs. European Physical Journal D, 2014, 68, 1.	1.3	16
27	High dynamic spectroscopy using a digital micromirror device and periodic shadowing. Optics Express, 2017, 25, 212.	3.4	16
28	Simultaneous one-dimensional fluorescence lifetime measurements of OH and CO in premixed flames. Applied Physics B: Lasers and Optics, 2014, 115, 35-43.	2.2	13
29	Re-igniting the afterglow plasma column of an AC powered gliding arc discharge in atmospheric-pressure air. Applied Physics Letters, 2018, 112, .	3.3	11
30	Single-shot, spatially-resolved stand-off detection of atomic hydrogen via backward lasing in flames. Proceedings of the Combustion Institute, 2019, 37, 1281-1288.	3.9	11
31	Beyond MHz image recordings using LEDs and the FRAME concept. Scientific Reports, 2020, 10, 16650.	3.3	11
32	Instantaneous imaging of ozone in a gliding arc discharge using photofragmentation laser-induced fluorescence. Journal Physics D: Applied Physics, 2018, 51, 135203.	2.8	10
33	Single-shot photofragment imaging by structured illumination. Optics Letters, 2015, 40, 5019.	3.3	9
34	Development of a temporal filtering technique for suppression of interferences in applied laser-induced fluorescence diagnostics. Applied Optics, 2009, 48, 2373.	2.1	8
35	Setup for microwave stimulation of a turbulent low-swirl flame. Journal Physics D: Applied Physics, 2016, 49, 185601.	2.8	8
36	Detection of atomic oxygen in a plasma-assisted flame via a backward lasing technique. Optics Letters, 2019, 44, 5477.	3.3	8

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37	Characteristics of a Gliding Arc Discharge Under the Influence of a Laminar Premixed Flame. IEEE Transactions on Plasma Science, 2019, 47, 403-409.	1.3	7
38	Fiber-based stray light suppression in spectroscopy using periodic shadowing. Optics Express, 2021, 29, 7232.	3.4	7
39	Temporal dynamics of femtosecond-TALIF of atomic hydrogen and oxygen in a nanosecond repetitively pulsed discharge-assisted methane–air flame. Journal Physics D: Applied Physics, 2021, 54, 275201.	2.8	7
40	Quantitative Imaging of Ozone Vapor Using Photofragmentation Laser-Induced Fluorescence (LIF). Applied Spectroscopy, 2017, 71, 1578-1585.	2.2	6
41	Temporal filtering with fast ICCD cameras in Raman studies. Journal of Raman Spectroscopy, 2013, 44, 622-629.	2.5	5
42	Quantitative oxygen concentration imaging in toluene atmospheres using Dual Imaging with Modeling Evaluation. Experiments in Fluids, 2013, 54, 1.	2.4	5
43	A setup for studies of laminar flame under microwave irradiation. Review of Scientific Instruments, 2019, 90, 113502.	1.3	5
44	Time-resolved polarization lock-in filtering for background suppression in Raman spectroscopy of biomass pyrolysis. Combustion and Flame, 2021, 224, 219-224.	5.2	5
45	Single-shot 3D imaging of hydroxyl radicals in the vicinity of a gliding arc discharge. Plasma Sources Science and Technology, 2021, 30, 04LT04.	3.1	5
46	Layered structure around an extended gliding discharge column in a methane-nitrogen mixture at high pressure. Applied Physics Letters, 2019, 114, .	3.3	3
47	Thermal analysis of a high-power glow discharge in flowing atmospheric air by combining Rayleigh scattering thermometry and numerical simulation. Journal Physics D: Applied Physics, 2020, 53, 085502.	2.8	3
48	Improved temporal contrast of streak camera measurements with periodic shadowing. Optics Letters, 2021, 46, 5723.	3.3	2
49	Snapshot multicolor fluorescence imaging using double multiplexing of excitation and emission on a single detector. Scientific Reports, 2021, 11, 20454.	3.3	2
50	Laminar Burning Velocity of Lean Methane/Air Flames under Pulsed Microwave Irradiation. Processes, 2021, 9, 2076.	2.8	2
51	Plasma Effects on Swirl Flames in a Scaled Dry Low Emission Burner. AIAA Journal, 0, , 1-8.	2.6	2
52	Understanding the characteristics of non-equilibrium alternating current gliding arc discharge in a variety of gas mixtures (air, N2, Ar, Ar/O2, and Ar/CH4) at elevated pressures (1–5 atm). Physics of Plasmas, 2022, 29, .	1.9	2
53	Infrared Spectroscopy as Molecular Probe of the Macroscopic Metal-Liquid Interface. Applied Sciences (Switzerland), 2017, 7, 1229.	2.5	1
54	Improved spectral sensitivity by combining periodic shadowing and high dynamic range imaging. Spectroscopy Letters, 2016, 49, 91-95.	1.0	1

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55	Non-thermal gliding arc discharge assisted turbulent combustion (up to 80 kW) at extended conditions: phenomenological analysis. Combustion Science and Technology, 0, , 1-16.	2.3	1
56	Experiments on plasma assisted combustion using a dielectric barrier surface discharge. , 2013, , .		0
57	Experiments on plasma assisted combustion using a dielectric barrier surface discharge. , 2013, , .		0
58	Investigations of Microwave Stimulation of Turbulent Flames with Implications to Gas Turbine Combustors. , 2017, , .		0
59	Experimental Investigation of Plasma Discharge Effect on Swirl Flames at a Scaled Siemens Dry Low Emission Burner. , 2021, , .		0
60	Development of new laser-based concepts for diagnostic challenges in combustion research. , 2013, , .		0
61	Hydroxyl radical dynamics in a gliding arc discharge using high-speed PLIF imaging. Plasma Research Express, 2022, 4, 025007.	0.9	0