

Joseph D Miller

List of Publications by Year in descending order

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42
papers

1,593
citations

236612

25
h-index

414034

32
g-index

42
all docs

42
docs citations

42
times ranked

528
citing authors

#	ARTICLE	IF	CITATIONS
1	Hybrid femtosecond/picosecond coherent anti-Stokes Raman scattering for high-speed gas-phase thermometry. Optics Letters, 2010, 35, 2430.	1.7	119
2	Quasi-continuous burst-mode laser for high-speed planar imaging. Optics Letters, 2012, 37, 1346.	1.7	114
3	MHz-rate nitric oxide planar laser-induced fluorescence imaging in a Mach 10 hypersonic wind tunnel. Applied Optics, 2011, 50, A20.	2.1	110
4	Single-shot gas-phase thermometry using pure-rotational hybrid femtosecond/picosecond coherent anti-Stokes Raman scattering. Optics Express, 2011, 19, 15627.	1.7	95
5	Ultrahigh-frame-rate OH fluorescence imaging in turbulent flames using a burst-mode optical parametric oscillator. Optics Letters, 2009, 34, 1309.	1.7	90
6	Time- and frequency-dependent model of time-resolved coherent anti-Stokes Raman scattering (CARS) with a picosecond-duration probe pulse. Journal of Chemical Physics, 2014, 140, 024316.	1.2	87
7	100-kHz, 100-ms, 400-J burst-mode laser with dual-wavelength diode-pumped amplifiers. Optics Letters, 2014, 39, 4735.	1.7	71
8	All-diode-pumped quasi-continuous burst-mode laser for extended high-speed planar imaging. Optics Express, 2013, 21, 681.	1.7	66
9	Interference-free gas-phase thermometry at elevated pressure using hybrid femtosecond/picosecond rotational coherent anti-Stokes Raman scattering. Optics Express, 2012, 20, 5003.	1.7	63
10	Communication: Time-domain measurement of high-pressure N ₂ and O ₂ self-broadened linewidths using hybrid femtosecond/picosecond coherent anti-Stokes Raman scattering. Journal of Chemical Physics, 2011, 135, 201104.	1.2	61
11	Measurements of OH mole fraction and temperature up to 20 kHz by using a diode-laser-based UV absorption sensor. Applied Optics, 2005, 44, 6729.	2.1	57
12	1-kHz two-dimensional coherent anti-Stokes Raman scattering (2D-CARS) for gas-phase thermometry. Optics Express, 2016, 24, 24971.	1.7	57
13	100-ps-pulse-duration, 100-J burst-mode laser for kHz-MHz flow diagnostics. Optics Letters, 2014, 39, 6462.	1.7	54
14	Investigation of transient ignition processes in a model scramjet pilot cavity using simultaneous 100 kHz formaldehyde planar laser-induced fluorescence and CH* chemiluminescence imaging. Proceedings of the Combustion Institute, 2017, 36, 2865-2872.	2.4	51
15	Communication: Hybrid femtosecond/picosecond rotational coherent anti-Stokes Raman scattering thermometry using a narrowband time-asymmetric probe pulse. Journal of Chemical Physics, 2012, 136, 111101.	1.2	49
16	Probe-pulse optimization for nonresonant suppression in hybrid fs/ps coherent anti-Stokes Raman scattering at high temperature. Optics Express, 2011, 19, 13326.	1.7	45
17	Dual-pump vibrational/rotational femtosecond/picosecond coherent anti-Stokes Raman scattering temperature and species measurements. Optics Letters, 2014, 39, 6608.	1.7	45
18	Simultaneous high-speed planar imaging of mixture fraction and velocity using a burst-mode laser. Applied Physics B: Lasers and Optics, 2013, 113, 93-97.	1.1	42

#	ARTICLE	IF	CITATIONS
19	High-speed 2D Raman imaging at elevated pressures. <i>Optics Letters</i> , 2017, 42, 3678.	1.7	40
20	Vibrational femtosecond/picosecond coherent anti-Stokes Raman scattering with enhanced temperature sensitivity for flame thermometry from 300 to 2400 K. <i>Journal of Raman Spectroscopy</i> , 2015, 46, 702-707.	1.2	38
21	Spatiotemporal analysis of turbulent jets enabled by 100-kHz, 100-ms burst-mode particle image velocimetry. <i>Experiments in Fluids</i> , 2016, 57, 1.	1.1	38
22	100-kHz thousand-frame burst-mode planar imaging in turbulent flames. <i>Optics Letters</i> , 2014, 39, 739.	1.7	33
23	20-kHz CH ₂ O and OH PLIF with stereo PIV. <i>Optics Letters</i> , 2018, 43, 1115.	1.7	30
24	The influence of large eddies on the structure of turbulent premixed flames characterized with stereo-PIV and multi-species PLIF at 20-kHz. <i>Proceedings of the Combustion Institute</i> , 2019, 37, 2477-2484.	2.4	30
25	Hybrid femtosecond/picosecond coherent anti-Stokes Raman scattering for high-speed CH ₄ /N ₂ measurements in binary gas mixtures. <i>Journal of Raman Spectroscopy</i> , 2013, 44, 1336-1343.	1.2	26
26	High-speed CH planar laser-induced fluorescence imaging using a multimode-pumped optical parametric oscillator. <i>Optics Letters</i> , 2011, 36, 3927.	1.7	22
27	Characterization of a CH planar laser-induced fluorescence imaging system using a kHz-rate multimode-pumped optical parametric oscillator. <i>Applied Optics</i> , 2012, 51, 2589.	0.9	19
28	Development of a diode-pumped 100-ms quasi-continuous burst-mode laser for high-speed combustion diagnostics. , 2014, , .		13
29	CH and NO planar laser-induced fluorescence and Rayleigh-scattering in turbulent flames using a multimode optical parametric oscillator. <i>Applied Optics</i> , 2021, 60, 98.	0.9	7
30	Deviations from Taylor's frozen hypothesis and scaling laws in inhomogeneous jet flows. <i>Communications Physics</i> , 2021, 4, .	2.0	6
31	Potential of two-line atomic fluorescence for temperature imaging in turbulent indium-oxide-producing flames. <i>Journal of Nanoparticle Research</i> , 2015, 17, 1.	0.8	4
32	100-kHz burst-mode particle image velocimetry: space-time correlations and considerations for spatial and temporal resolution. , 2016, , .		3
33	Micro-Optical Initiation of Nanoenergetic Materials Using a Temporally Tailored Variable-Pulse-Width Laser. <i>Journal of Nanotechnology in Engineering and Medicine</i> , 2012, 3, .	0.8	2
34	Evaluation of Hybrid fs/ps coherent anti-Stokes Raman scattering temperature and pressure sensitivity at combustor relevant conditions. , 2016, , .		2
35	<i>See-through-wall</i> Radar REMPI for Spatially Localized Temperature Measurements in a Well-Stirred Reactor. , 2017, , .		1
36	The Structure and Dynamics of a Bluff-Body Stabilized Premixed Reacting Flow. , 2018, , .		1

#	ARTICLE	IF	CITATIONS
37	Burst-Mode Two-Dimensional Coherent Anti-Stokes Raman Scattering (2D-CARS) at 1 kHz. , 2016, , .		1
38	Generation of high-energy, Gaussian laser pulses with tunable duration from 100 picoseconds to 1 millisecond. Optics Express, 2020, 28, 37811.	1.7	1
39	CH Fluorescence Imaging at High Repetition Rates. , 2011, , .		0
40	High-Speed, Two-dimensional, Multi-species Raman Imaging for Combustion and Flow Diagnostics. , 2018, , .		0
41	Ultra high framing-rate laser diagnostics for high-speed reacting and non-reacting flows. , 2010, , .		0
42	Latest Developments on Hybrid fs/ps CARS for Combustion Sensing. , 2012, , .		0