Vladimir Dulin

List of Publications by Year
in descending order

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69	778	623188	552369
papers	citations	14 h-index	26 g-index

72	72	72	371
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Influence of a Central Jet on Isothermal and Reacting Swirling Flow in a Model Combustion Chamber. Energies, 2022, 15, 1615.	1.6	7
2	Modal Decomposition of the Precessing Vortex Core in a Hydro Turbine Model. Applied Sciences (Switzerland), 2022, 12, 5127.	1.3	7
3	LES Simulation of a Model Gas-Turbine Lean Combustor: Impact of Coherent Flow Structures on the Temperature Field and Concentration of CO and NO. Energies, 2022, 15, 4362.	1.6	4
4	Assessment of single-shot temperature measurements by thermally-assisted OH PLIF using excitation in the A2Î£+â€“X2Î (1-0) band. Proceedings of the Combustion Institute, 2021, 38, 1877-1883.	2.4	15
5	PIV/PLIF investigation of unsteady turbulent flow and mixing behind a model gas turbine combustor. Experiments in Fluids, 2021, 62, 1.	1.1	19
6	Testing Basic Gradient Turbulent Transport Models for Swirl Burners Using PIV and PLIF. Fluids, 2021, 6, 383.	0.8	2
7	Control of the turbulent wake flow behind a circular cylinder by asymmetric sectoral hydrophobic coatings. Physics of Fluids, 2021, 33, .	1.6	5
8	On the efficiency of using different excitation lines of (1â^'0) two-line OH fluorescence for planar thermometry. Thermophysics and Aeromechanics, 2021, 28, 751-755.	0.1	2
9	On the Flow Structure and Dynamics of Methane and Syngas Lean Flames in a Model Gas-Turbine Combustor. Energies, 2021, 14, 8267.	1.6	6
10	On the Structure of an Impact Jet with Flow Swirling and Combustion. Combustion, Explosion and Shock Waves, 2020, 56, 131-136.	0.3	6
11	Coherent Structures and Turbulent Transport in the Initial Region of Jets and Flame in Swirling Flow. Journal of Applied Mechanics and Technical Physics, 2020, 61, 350-358.	0.1	1
12	On large-scale vortex structures and flame front corrugations in swirling jets with combustion. AIP Conference Proceedings, 2020, , .	0.3	0
13	Mass and momentum transport in the near field of swirling turbulent jets. Effect of swirl rate. International Journal of Heat and Fluid Flow, 2020, 83, 108539.	1.1	15
14	Coherent Structures in the Near Field of Swirling Turbulent Jets and Flames Investigated by PIV and PLIF. , 2019, , .		3
15	Turbulent transport in a swirling jet with vortex core breakdown. PIV/PLIF-measurement and numerical simulation. Thermophysics and Aeromechanics, 2019, 26, 351-359.	0.1	4
16	On Impact of Helical Structures on Stabilization of Swirling Flames with Vortex Breakdown. Flow, Turbulence and Combustion, 2019, 103, 887-911.	1.4	15
17	Modeling of the Tonal Noise Characteristics in a Foil Flow by using Machine Learning. Optoelectronics, Instrumentation and Data Processing, 2019, 55, 205-211.	0.2	6
18	Experimental diagnostics of the flow downstream the gas turbine premixer using planar optical methods. Journal of Physics: Conference Series, 2019, 1382, 012005.	0.3	1

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19	Multi-spectral planar imaging using a tuneable Lyot-Ehman filter. Journal of Physics: Conference Series, 2019, 1382, 012039.	0.3	0
20	Optical Diagnosis of the Geometry of an Axisymmetric Controlled Nozzle of a Gas-Turbine Engine. Optoelectronics, Instrumentation and Data Processing, 2019, 55, 612-617.	0.2	0
21	Planar Spontaneous Raman-Scattering Spectroscopy for Reacting Jet-Flow Diagnostics Using Lyotâ€“Ehman Tunable Filter. Technical Physics Letters, 2018, 44, 53-56.	0.2	2
22	Coherent structures in the near-field of swirling turbulent jets: A tomographic PIV study. International Journal of Heat and Fluid Flow, 2018, 70, 363-379.	1.1	32
23	Analysis of mean and fluctuating helicity measured by TomoPIV in swirling jet. EPJ Web of Conferences, 2018, 180, 02097.	0.1	2
24	Combined application of OH PLIF, HCHO PLIF and stereo PIV to a turbulent premixed swirling flame. AIP Conference Proceedings, 2018, , .	0.3	0
25	Investigation of the flow structure and convective heat transfer in impinging swirling turbulent jets. AIP Conference Proceedings, 2018, , .	0.3	0
26	HCHO PLIF Investigation of the Flame Shape in an Unsteady Swirling Jet Flow. Combustion, Explosion and Shock Waves, 2018, 54, 642-648.	0.3	1
27	Combustion Regime Monitoring by Flame Imaging and Machine Learning. Optoelectronics, Instrumentation and Data Processing, 2018, 54, 513-519.	0.2	14
28	Monitoring of combustion regimes based on the visualization of the flame and machine learning. Journal of Physics: Conference Series, 2018, 1128, 012138.	0.3	6
29	Structure of a swirling jet with vortex breakdown and combustion. Journal of Physics: Conference Series, 2018, 980, 012032.	0.3	0
30	On formation of a stagnation zone in the flow between conical flame and flat obstacle. Thermophysics and Aeromechanics, 2018, 25, 317-320.	0.1	2
31	Swirl effect on flow structure and mixing in a turbulent jet. Journal of Physics: Conference Series, 2018, 980, 012001.	0.3	5
32	Self-oscillations in a jet flow and gaseous flame with strong swirl. Thermophysics and Aeromechanics, 2018, 25, 379-386.	0.1	5
33	Analysis of mean and fluctuating helicity measured by TomoPIV in swirling jet. EPJ Web of Conferences, 2018, 180, 02097.	0.1	1
34	Spatial Structure of a Reacting Turbulent Swirling Jet Flow with Combustion of a Propaneâ€“Air Mixture. Combustion, Explosion and Shock Waves, 2018, 54, 294-300.	0.3	2
35	Mixing in a model gas turbine combustor studied by panoramic optical techniques. Thermophysics and Aeromechanics, 2017, 24, 347-353.	0.1	2
36	A strategy for high specific power pyroelectric energy harvesting from a fluid source. Applied Physics Letters, 2017, 111, 233903.	1.5	6

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37	Turbulent transport measurements in a cold model of GT-burner at realistic flow rates. EPJ Web of Conferences, 2016, 114, 02032.	0.1	1
38	Acetone PLIF concentration measurements in a submerged round turbulent jet. AIP Conference Proceedings, 2016, , .	0.3	0
39	PIV and OH PLIF study of impinging propane-air jet-flames. Journal of Physics: Conference Series, 2016, 754, 072001.	0.3	10
40	Measurements of density field in a swirling flame by 2D spontaneous Raman scattering. AIP Conference Proceedings, 2016, , .	0.3	4
41	Coherent Structures in a Turbulent Swirling Jet Under Vortex Breakdown. 3D PIV Measurements. Springer Proceedings in Physics, 2016, , 43-50.	0.1	1
42	A swirling jet with vortex breakdown: three-dimensional coherent structures. Thermophysics and Aeromechanics, 2016, 23, 301-304.	0.1	10
43	PIV characterization of high-Reynolds flow in turbine test facility. AIP Conference Proceedings, 2016, , .	0.3	1
44	Turbulent transport measurements in a model of GT-combustor. AIP Conference Proceedings, 2016, , .	0.3	1
45	Helical modes in low- and high-swirl jets measured by tomographic PIV. Journal of Turbulence, 2016, 17, 678-698.	0.5	28
46	3D velocity measurements in a premixed flame by tomographic PIV. Measurement Science and Technology, 2015, 26, 064001.	1.4	13
47	Experimental investigation of turbulence modification in bubbly axisymmetric jets. Journal of Engineering Thermophysics, 2015, 24, 101-112.	0.6	15
48	PIV study of large-scale flow organisation in slot jets. International Journal of Heat and Fluid Flow, 2015, 51, 335-352.	1.1	20
49	Diagnostics of jet flows by using tomographic particle image velocimetry. Optoelectronics, Instrumentation and Data Processing, 2014, 50, 457-465.	0.2	6
50	Comparative analysis of low- and high-swirl confined flames and jets by proper orthogonal and dynamic mode decompositions. Physics of Fluids, 2014, 26, .	1.6	73
51	Spatial and temporal resolution of the particle image velocimetry technique in flame speed measurements. Combustion, Explosion and Shock Waves, 2014, 50, 510-517.	0.3	12
52	Steam-enhanced regime for liquid hydrocarbons combustion: velocity distribution in the burner flame. Thermophysics and Aeromechanics, 2014, 21, 393-396.	0.1	22
53	Determining instability modes in a gas flame. Technical Physics Letters, 2013, 39, 308-311.	0.2	5
54	Experimental and numerical simulation for swirl flow in a combustor. Thermal Engineering (English) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	0.4	6

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55	Study of vortex core precession in combustion chambers. Thermophysics and Aeromechanics, 2013, 20, 679-686.	0.1	4
56	Expanding the Stability Range of a Lifted Propane Flame by Resonant Acoustic Excitation. Combustion Science and Technology, 2013, 185, 1644-1666.	1.2	7
57	The optical principles of PFBI approach. AIP Conference Proceedings, 2012, , .	0.3	10
58	Effect of High-Amplitude Forcing on Turbulent Combustion Intensity and Vortex Core Precession in a Strongly Swirling Lifted Propane/Air Flame. Combustion Science and Technology, 2012, 184, 1862-1890.	1.2	38
59	Application of modern optical methods for detecting the spatial structure of turbulent flames. Optoelectronics, Instrumentation and Data Processing, 2012, 48, 235-243.	0.2	2
60	Flow structure of a lifted premixed flame investigated by PIV. , 2012, , .		0
61	Study of vortex breakdown in swirling premixed flames by high-repetition stereoscopic PIV. , 2012, , .		0
62	Effect of external periodic excitation on a swirling suspended flame. Technical Physics Letters, 2011, 37, 278-281.	0.2	3
63	Flow Structure of Swirling Turbulent Propane Flames. Flow, Turbulence and Combustion, 2011, 87, 569-595.	1.4	46
64	Planar fluorescence for round bubble imaging and its application for the study of an axisymmetric two-phase jet. Experiments in Fluids, 2010, 48, 615-629.	1.1	75
65	Experimental Modeling of the Structure of a Reacting Twisted Flow Behind a Swirl Burner. Heat Transfer Research, 2010, 41, 445-463.	0.9	8
66	Effect of axisymmetric forcing on the structure of a swirling turbulent jet. International Journal of Heat and Fluid Flow, 2008, 29, 1699-1715.	1.1	45
67	Application of particle image velocimetry technique for study of reacting jet flows. Proceedings of SPIE, 2008, , .	0.8	0
68	Experimental study of an impinging jet with different swirl rates. International Journal of Heat and Fluid Flow, 2007, 28, 1340-1359.	1.1	112
69	TURBULENT ENERGY BALANCE IN FREE AND CONFINED JET FLOWS(Free and Confined Jet). The Proceedings of the International Conference on Jets Wakes and Separated Flows (ICJWSF), 2005, 2005, 281-286.	0.1	2