# Vladimir Dulin

List of Publications by Year
in descending order



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|---|---|---|---|
| 69 papers | 778 citations | 623734 14 h-index | 552781 26 g-index |
| 72 all docs | 72 docs citations | 72 times ranked | 371 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. | 3.1 | 7 |
| 2 | Modal Decomposition of the Precessing Vortex Core in a Hydro Turbine Model. Applied Sciences (Switzerland), 2022, 12, 5127. | 2.5 | 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. | 3.1 | 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. | 3.9 | 15 |
| 5 | PIV/PLIF investigation of unsteady turbulent flow and mixing behind a model gas turbine combustor. Experiments in Fluids, 2021, 62, 1. | 2.4 | 19 |
| 6 | Testing Basic Gradient Turbulent Transport Models for Swirl Burners Using PIV and PLIF. Fluids, 2021, 6, 383. | 1.7 | 2 |
| 7 | Control of the turbulent wake flow behind a circular cylinder by asymmetric sectoral hydrophobic coatings. Physics of Fluids, 2021, 33, . | 4.0 | 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. | 0.5 | 2 |
| 9 | On the Flow Structure and Dynamics of Methane and Syngas Lean Flames in a Model Gas-Turbine Combustor. Energies, 2021, 14, 8267. | 3.1 | 6 |
| 10 | On the Structure of an Impact Jet with Flow Swirling and Combustion. Combustion, Explosion and Shock Waves, 2020, 56, 131-136. | 0.8 | 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. | 0.5 | 1 |
| 12 | On large-scale vortex structures and flame front corrugations in swirling jets with combustion. AIP Conference Proceedings, 2020, , . | 0.4 | 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. | 2.4 | 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. | 0.5 | 4 |
| 16 | On Impact of Helical Structures on Stabilization of Swirling Flames with Vortex Breakdown. Flow, Turbulence and Combustion, 2019, 103, 887-911. | 2.6 | 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. | 0.6 | 6 |
| 18 | Experimental diagnostics of the flow downstream the gas turbine premixer using planar optical methods. Journal of Physics: Conference Series, 2019, 1382, 012005. | 0.4 | 1 |

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|---|---|---|---|
| 19 | Multi-spectral planar imaging using a tuneable Lyot-Ehman filter. Journal of Physics: Conference Series, 2019, 1382, 012039. | 0.4 | 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. | 0.6 | 0 |
| 21 | Planar Spontaneous Raman-Scattering Spectroscopy for Reacting Jet-Flow Diagnostics Using Lyotâ€"Ehman Tunable Filter. Technical Physics Letters, 2018, 44, 53-56. | 0.7 | 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. | 2.4 | 32 |
| 23 | Analysis of mean and fluctuating helicity measured by TomoPIV in swirling jet. EPJ Web of Conferences, 2018, 180, 02097. | 0.3 | 2 |
| 24 | Combined application of OH PLIF, HCHO PLIF and stereo PIV to a turbulent premixed swirling flame. AIP Conference Proceedings, 2018, , . | 0.4 | 0 |
| 25 | Investigation of the flow structure and convective heat transfer in impinging swirling turbulent jets. AIP Conference Proceedings, 2018, , . | 0.4 | 0 |
| 26 | HCHO PLIF Investigation of the Flame Shape in an Unsteady Swirling Jet Flow. Combustion, Explosion and Shock Waves, 2018, 54, 642-648. | 0.8 | 1 |
| 27 | Combustion Regime Monitoring by Flame Imaging and Machine Learning. Optoelectronics, Instrumentation and Data Processing, 2018, 54, 513-519. | 0.6 | 14 |
| 28 | Monitoring of combustion regimes based on the visualization of the flame and machine learning. Journal of Physics: Conference Series, 2018, 1128, 012138. | 0.4 | 6 |
| 29 | Structure of a swirling jet with vortex breakdown and combustion. Journal of Physics: Conference Series, 2018, 980, 012032. | 0.4 | 0 |
| 30 | On formation of a stagnation zone in the flow between conical flame and flat obstacle. Thermophysics and Aeromechanics, 2018, 25, 317-320. | 0.5 | 2 |
| 31 | Swirl effect on flow structure and mixing in a turbulent jet. Journal of Physics: Conference Series, 2018, 980, 012001. | 0.4 | 5 |
| 32 | Self-oscillations in a jet flow and gaseous flame with strong swirl. Thermophysics and Aeromechanics, 2018, 25, 379-386. | 0.5 | 5 |
| 33 | Analysis of mean and fluctuating helicity measured by TomoPIV in swirling jet. EPJ Web of Conferences, 2018, 180, 02097. | 0.3 | 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. | 0.8 | 2 |
| 35 | Mixing in a model gas turbine combustor studied by panoramic optical techniques. Thermophysics and Aeromechanics, 2017, 24, 347-353. | 0.5 | 2 |
| 36 | A strategy for high specific power pyroelectric energy harvesting from a fluid source. Applied Physics Letters, 2017, 111, 233903. | 3.3 | 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. | 0.3 | 1 |
| 38 | Acetone PLIF concentration measurements in a submerged round turbulent jet. AIP Conference Proceedings, 2016, , . | 0.4 | 0 |
| 39 | PIV and OH PLIF study of impinging propane-air jet-flames. Journal of Physics: Conference Series, 2016, 754, 072001. | 0.4 | 10 |
| 40 | Measurements of density field in a swirling flame by 2D spontaneous Raman scattering. AIP Conference Proceedings, 2016, , . | 0.4 | 4 |
| 41 | Coherent Structures in a Turbulent Swirling Jet Under Vortex Breakdown. 3D PIV Measurements. Springer Proceedings in Physics, 2016, , 43-50. | 0.2 | 1 |
| 42 | A swirling jet with vortex breakdown: three-dimensional coherent structures. Thermophysics and Aeromechanics, 2016, 23, 301-304. | 0.5 | 10 |
| 43 | PIV characterization of high-Reynolds flow in turbine test facility. AIP Conference Proceedings, 2016, , . | 0.4 | 1 |
| 44 | Turbulent transport measurements in a model of GT-combustor. AIP Conference Proceedings, 2016, , . | 0.4 | 1 |
| 45 | Helical modes in low- and high-swirl jets measured by tomographic PIV. Journal of Turbulence, 2016, 17, 678-698. | 1.4 | 28 |
| 46 | 3D velocity measurements in a premixed flame by tomographic PIV. Measurement Science and Technology, 2015, 26, 064001. | 2.6 | 13 |
| 47 | Experimental investigation of turbulence modification in bubbly axisymmetric jets. Journal of Engineering Thermophysics, 2015, 24, 101-112. | 1.4 | 15 |
| 48 | PIV study of large-scale flow organisation in slot jets. International Journal of Heat and Fluid Flow, 2015, 51, 335-352. | 2.4 | 20 |
| 49 | Diagnostics of jet flows by using tomographic particle image velocimetry. Optoelectronics, Instrumentation and Data Processing, 2014, 50, 457-465. | 0.6 | 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, . | 4.0 | 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. | 0.8 | 12 |
| 52 | Steam-enhanced regime for liquid hydrocarbons combustion: velocity distribution in the burner flame. Thermophysics and Aeromechanics, 2014, 21, 393-396. | 0.5 | 22 |
| 53 | Determining instability modes in a gas flame. Technical Physics Letters, 2013, 39, 308-311. | 0.7 | 5 |
| 54 | Experimental and numerical simulation for swirl flow in a combustor. Thermal Engineering (English) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 | 0.9 | 6 |

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|---|---|---|---|
| 55 | Study of vortex core precession in combustion chambers. Thermophysics and Aeromechanics, 2013, 20, 679-686. | 0.5 | 4 |
| 56 | Expanding the Stability Range of a Lifted Propane Flame by Resonant Acoustic Excitation. Combustion Science and Technology, 2013, 185, 1644-1666. | 2.3 | 7 |
| 57 | The optical principles of PFBI approach. AIP Conference Proceedings, 2012, , . | 0.4 | 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. | 2.3 | 38 |
| 59 | Application of modern optical methods for detecting the spatial structure of turbulent flames. Optoelectronics, Instrumentation and Data Processing, 2012, 48, 235-243. | 0.6 | 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. | 0.7 | 3 |
| 63 | Flow Structure of Swirling Turbulent Propane Flames. Flow, Turbulence and Combustion, 2011, 87, 569-595. | 2.6 | 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. | 2.4 | 75 |
| 65 | Experimental Modeling of the Structure of a Reacting Twisted Flow Behind a Swirl Burner. Heat Transfer Research, 2010, 41, 445-463. | 1.6 | 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. | 2.4 | 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. | 2.4 | 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 |