

# Dmitriy K Sharaborin

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2789097/publications.pdf>

Version: 2024-02-01

28  
papers

144  
citations

1307594

7  
h-index

1199594

12  
g-index

28  
all docs

28  
docs citations

28  
times ranked

69  
citing authors

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | Reconstructing the structural parameters of a precessing vortex by SPIV and acoustic sensors. <i>Experiments in Fluids</i> , 2019, 60, 1.   | 2.4 | 23        |
| 2  | PIV/PLIF investigation of unsteady turbulent flow and mixing behind a model gas turbine combustor. <i>Experiments in Fluids</i> , 2021, 62, 1.  | 2.4 | 19        |
| 3  | Assessment of single-shot temperature measurements by thermally-assisted OH PLIF using excitation in the A <sup>2</sup> Σ <sup>+</sup> ←X <sup>2</sup> Σ <sup>+</sup> (1-0) band. <i>Proceedings of the Combustion Institute</i> , 2021, 38, 1877-1883. | 3.9 | 15        |
| 4  | 3D velocity measurements in a premixed flame by tomographic PIV. <i>Measurement Science and Technology</i> , 2015, 26, 064001.  | 2.6 | 13        |
| 5  | Spatial and temporal resolution of the particle image velocimetry technique in flame speed measurements. <i>Combustion, Explosion and Shock Waves</i> , 2014, 50, 510-517.  | 0.8 | 12        |
| 6  | Finding of parameters of helical symmetry for unsteady vortex flow based on phase-averaged PIV measurement data. <i>Thermophysics and Aeromechanics</i> , 2015, 22, 647-650.  | 0.5 | 10        |
| 7  | Study of aerodynamic structure of flow in a model of vortex furnace using Stereo PIV method. <i>Thermophysics and Aeromechanics</i> , 2016, 23, 621-624.  | 0.5 | 7         |
| 8  | Influence of a Central Jet on Isothermal and Reacting Swirling Flow in a Model Combustion Chamber. <i>Energies</i> , 2022, 15, 1615.  | 3.1 | 7         |
| 9  | Modal Decomposition of the Precessing Vortex Core in a Hydro Turbine Model. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 5127.   | 2.5 | 7         |
| 10 | On the Flow Structure and Dynamics of Methane and Syngas Lean Flames in a Model Gas-Turbine Combustor. <i>Energies</i> , 2021, 14, 8267.  | 3.1 | 6         |
| 11 | Swirl effect on flow structure and mixing in a turbulent jet. <i>Journal of Physics: Conference Series</i> , 2018, 980, 012001.   | 0.4 | 5         |
| 12 | Measurements of density field in a swirling flame by 2D spontaneous Raman scattering. <i>AIP Conference Proceedings</i> , 2016, , .   | 0.4 | 4         |
| 13 | LES Simulation of a Model Gas-Turbine Lean Combustor: Impact of Coherent Flow Structures on the Temperature Field and Concentration of CO and NO. <i>Energies</i> , 2022, 15, 4362.   | 3.1 | 4         |
| 14 | Planar Spontaneous Raman-Scattering Spectroscopy for Reacting Jet-Flow Diagnostics Using Lyotâ€™Ehman Tunable Filter. <i>Technical Physics Letters</i> , 2018, 44, 53-56.   | 0.7 | 2         |
| 15 | Spatial Structure of a Reacting Turbulent Swirling Jet Flow with Combustion of a Propaneâ€™Air Mixture. <i>Combustion, Explosion and Shock Waves</i> , 2018, 54, 294-300.   | 0.8 | 2         |
| 16 | Testing Basic Gradient Turbulent Transport Models for Swirl Burners Using PIV and PLIF. <i>Fluids</i> , 2021, 6, 383.   | 1.7 | 2         |
| 17 | Investigation of mass transfer in swirling turbulent flames. <i>Journal of Physics: Conference Series</i> , 2016, 754, 072003.  | 0.4 | 1         |
| 18 | Turbulent transport measurements in a cold model of GT-burner at realistic flow rates. <i>EPJ Web of Conferences</i> , 2016, 114, 02032.  | 0.3 | 1         |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 19 | PIV characterization of high-Reynolds flow in turbine test facility. AIP Conference Proceedings, 2016, , .  | 0.4 | 1         |
| 20 | Turbulent transport measurements in a model of GT-combustor. AIP Conference Proceedings, 2016, , .  | 0.4 | 1         |
| 21 | PIV/OH PLIF investigation of flow and flame front dynamics of acoustically perturbed conical flame. Journal of Physics: Conference Series, 2017, 899, 042006.     | 0.4 | 1         |
| 22 | 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         |
| 23 | Optical tomography in reacting flows based on Stokes Raman scattering. Journal of Physics: Conference Series, 2015, 643, 012034.                                  | 0.4 | 0         |
| 24 | Investigation of the flow structure and convective heat transfer in impinging swirling turbulent jets. AIP Conference Proceedings, 2018, , .                      | 0.4 | 0         |
| 25 | Structure of a swirling jet with vortex breakdown and combustion. Journal of Physics: Conference Series, 2018, 980, 012032.                                       | 0.4 | 0         |
| 26 | Multi-spectral planar imaging using a tuneable Lyot-Ehman filter. Journal of Physics: Conference Series, 2019, 1382, 012039.                                      | 0.4 | 0         |
| 27 | Structure of a reacting flow of a turbulent swirling jet during combustion of a syngas-air mixture. Journal of Physics: Conference Series, 2019, 1382, 012066.    | 0.4 | 0         |
| 28 | On combustion regimes of syngas-air and methane-air lean flames for swirl-stabilized burners. Journal of Physics: Conference Series, 2019, 1382, 012067.          | 0.4 | 0         |