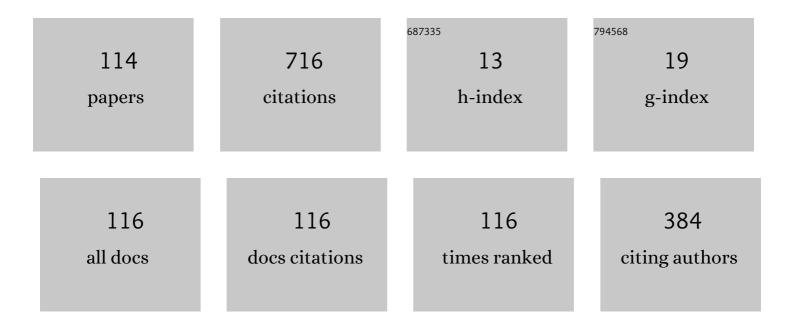
Eduard Son

List of Publications by Year in descending order

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FOUARD SON

| # | Article | IF | CITATIONS |
|---|---|------------|-----------------|
| 1 | Electrical breakdown voltage of transformer oil with gas bubbles. High Temperature, 2014, 52, 770-773. | 1.0 | 29 |
| 2 | Foamed emulsion $\hat{a} \in$ "Fuel on the base of water-saturated oils. Fuel, 2017, 203, 261-268. | 6.4 | 27 |
| 3 | Development of nanosecond discharges in atmospheric pressure air: two competing mechanisms of precursor electrons production. Journal Physics D: Applied Physics, 2018, 51, 434002. | 2.8 | 26 |
| 4 | Experimental study of foamed emulsion combustion: Influence of solid microparticles, glycerol and surfactant. Fuel Processing Technology, 2017, 166, 77-85. | 7.2 | 25 |
| 5 | Plasma aerodynamics in a supersonic gas flow. High Temperature, 2010, 48, 903-909. | 1.0 | 24 |
| 6 | Current investigations of thermophysical properties of substances (based on recent publications in) Tj ETQq0 0 | 0 rgBT /Ov | verlock 10 Tf 5 |

| 7 | Pulsed electrical discharge in conductive solution. Journal Physics D: Applied Physics, 2016, 49, 385202. | 2.8 | 23 |
|----------|--|------------|----------|
| 8 | Combustion of emulsion-based foam. Combustion and Flame, 2016, 172, 162-172. | 5.2 | 21 |
| 9 | Pre-breakdown phenomena and discharges in a gas-liquid system. Plasma Sources Science and Technology, 2018, 27, 045005. | 3.1 | 20 |
| 10 | Vapor-air discharges between electrolytic cathode and metal anode at atmospheric pressure. High Temperature, 2005, 43, 1-7. | 1.0 | 19 |
| 11 | Production of active species in an argon microwave plasma torch. Journal Physics D: Applied Physics, 2018, 51, 464004. | 2.8 | 16 |
| 12 | Electrical breakdown of soil under nonlinear pulsed current spreading. Journal Physics D: Applied Physics, 2015, 48, 285201. | 2.8 | 15 |
| 13 | Kinetic and electrical phenomena in gas–liquid systems. High Temperature, 2016, 54, 745-766. | 1.0 | 14 |
| 14 | Multichannel discharge between jet electrolyte cathode and jet electrolyte anode. High Temperature, 2011, 49, 325-329. | 1.0 | 13 |
| 15 | | | |
| | Separation flow control by thermal bump in a supersonic airflow. Europhysics Letters, 2012, 99, 15002. | 2.0 | 13 |
| 16 | Separation flow control by thermal bump in a supersonic airflow. Europhysics Letters, 2012, 99, 15002. Slow â€ ⁻ thermalâ€ ⁻ and fast â€ ⁻ streamer-leaderâ€ ⁻ breakdown modes in conductive water. Journal Physics D: Applied Physics, 2018, 51, 354003. | 2.0 2.8 | 13 13 |
| 16 17 | Slow â€~thermal' and fast â€~streamer-leader' breakdown modes in conductive water. Journal Physics D: | | |

| # | Article | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Radio-frequency capacitive discharge with flowing liquid electrodes at reduced gas pressures. Plasma Physics Reports, 2017, 43, 741-748. | 0.9 | 12 |
| 20 | Pulsed electrical breakdown of conductive water with air bubbles. Plasma Sources Science and Technology, 2019, 28, 085019. | 3.1 | 12 |
| 21 | Electric breakdown along a jet electrolytic cathode at low pressures. High Temperature, 2010, 48, 747-749. | 1.0 | 11 |
| 22 | Spectral diagnostics of plasma discharge between a metal cathode and liquid anode. High Temperature, 2017, 55, 457-460. | 1.0 | 11 |
| 23 | Vapor-air discharges between electrolytic cathode and metal anode at atmospheric pressure. High Temperature, 2005, 43, 1-7. | 1.0 | 10 |
| 24 | Peculiarities of microwave discharge between a copper pin electrode and technical water. High Temperature, 2014, 52, 939-941. | 1.0 | 10 |
| 25 | Electrical discharges with liquid electrodes used in water decontamination. High Temperature, 2014, 52, 490-496. | 1.0 | 10 |
| 26 | Effect of Gravity on Premixed Methane–Air Flames. High Temperature, 2018, 56, 84-91. | 1.0 | 10 |
| 27 | 2D3V kinetic simulation of Hall effect thruster, including azimuthal waves and diamagnetic effect. Journal Physics D: Applied Physics, 2019, 52, 444002. | 2.8 | 10 |
| 28 | Numerical simulation of the dynamics of noncongruent melting of binary materials. High Temperature, 2011, 49, 841-848. | 1.0 | 9 |
| 29 | Supersonic plasmatron nozzle profiling with the real properties of high temperature working gas. High Temperature, 2016, 54, 38-45. | 1.0 | 9 |
| 30 | Methods for Regulation of Flame Speed in the Foamed Emulsion. Combustion Science and Technology, 2017, 189, 2095-2114. | 2.3 | 9 |
| 31 | Nonlinear impulse current spreading and electrical breakdown in soil. High Temperature, 2014, 52, 797-802. | 1.0 | 8 |
| 32 | Shock wave-boundary layer interaction on the non-adiabatic ramp surface. High Temperature, 2014, 52, 220-224. | 1.0 | 7 |
| 33 | Combustion of Foamed Emulsions in the Quenching/Reignition Regime. Energy & Fuels, 2017, 31, 7572-7581. | 5.1 | 7 |
| 34 | Premixed Flames Under Microgravity and Normal Gravity Conditions. Microgravity Science and Technology, 2018, 30, 377-382. | 1.4 | 7 |
| 35 | Overvoltage effect on electrical discharge type in medium-conductivity water in inhomogeneous pulsed electric field. Journal of Physics: Conference Series, 2018, 946, 012160. | 0.4 | 7 |
| 36 | Bubble Method of Water Purification. High Temperature, 2019, 57, 286-288. | 1.0 | 7 |

| # | Article | IF | CITATIONS |
|----|--|-----|-----------|
| 37 | Steady-State Flow of Two Viscous Immiscible Incompressible Fluids in a Plane Channel. High Temperature, 2005, 43, 769-774. | 1.0 | 6 |
| 38 | Special features of a multichannel discharge in a porous solid cathode. High Temperature, 2009, 47, 603-605. | 1.0 | 6 |
| 39 | Turbulent mixing of plasma and electrolyte in the multi-channel discharge between a droplet and electrolyte. Physica Scripta, 2010, T142, 014038. | 2.5 | 6 |
| 40 | Fluid flow with abrupt viscosity-temperature dependence. High Temperature, 2014, 52, 723-729. | 1.0 | 6 |
| 41 | Premixed conical flame stabilization. Journal of Physics: Conference Series, 2016, 774, 012087. | 0.4 | 6 |
| 42 | Spark channel propagation in a microbubble liquid. Plasma Physics Reports, 2016, 42, 1074-1077. | 0.9 | 6 |
| 43 | Stability of thermoviscous fluid flow under high temperature gradients. High Temperature, 2017, 55, 131-138. | 1.0 | 6 |
| 44 | Combustion of hydrogen–oxygen microfoam on the water base. International Journal of Hydrogen Energy, 2017, 42, 16866-16876. | 7.1 | 6 |
| 45 | Diffusion and mobility of atomic particles in a liquid. Journal of Experimental and Theoretical Physics, 2017, 125, 906-912. | 0.9 | 6 |
| 46 | Taylor-Green vortex simulation using CABARET scheme in a weakly compressible formulation. European Physical Journal E, 2018, 41, 41. | 1.6 | 6 |
| 47 | Integration of databases on substance properties: Approaches and technologies. Automatic Documentation and Mathematical Linguistics, 2012, 46, 170-176. | 0.5 | 5 |
| 48 | The Rayleigh–Taylor instability of Newtonian and non-Newtonian fluids. Physica Scripta, 2016, 91, 104006. | 2.5 | 5 |
| 49 | Some peculiarities of electric discharge between a solid electrode and technical water. High Temperature, 2016, 54, 26-28. | 1.0 | 5 |
| 50 | Experimental study of an impulse electric discharge with liquid electrodes. High Temperature, 2017, 55, 310-311. | 1.0 | 5 |
| 51 | Inactivation of Microorganisms on Plane Surfaces by a Dielectric Barrier Discharge. Plasma Physics Reports, 2019, 45, 517-521. | 0.9 | 5 |
| 52 | Numerical simulation of the Rayleigh–Taylor instability of inviscid and viscous fluid. Physica Scripta, 2019, 94, 094003. | 2.5 | 5 |
| 53 | Efficient Generator of Low-Temperature Argon Plasma with an Expanding Channel of the Output. High Temperature, 2020, 58, 12-20. | 1.0 | 5 |
| 54 | Gravity impact on inverted conical flame stability and dynamics. Physics of Fluids, 2021, 33, . | 4.0 | 5 |

| # | Article | IF | CITATIONS |
|----|--|-----|-----------|
| 55 | Evolution of electrical discharge channel in isopropyl alcohol solution. Journal of Physics: Conference Series, 2015, 653, 012157. | 0.4 | 4 |
| 56 | Analysis of the effect of discharge parameters on the shock wave propagation from the discharge chamber channel. Technical Physics, 2015, 60, 471-473. | 0.7 | 4 |
| 57 | The CABARET method for a weakly compressible fluid flows in one- and two-dimensional implementations. Journal of Physics: Conference Series, 2016, 774, 012094. | 0.4 | 4 |
| 58 | Premixed combustion study: Turbulence in the nozzle behind grids and spheres. High Temperature, 2016, 54, 403-408. | 1.0 | 4 |
| 59 | Spark discharge in conductive liquid with microbubbles. Journal of Physics: Conference Series, 2016, 774, 012183. | 0.4 | 4 |
| 60 | Physical Alloying of Plasma Metallization Nanocomposite Coating by Allotropic Carbon Nanostructures—Part 1: Experimental Research. IEEE Transactions on Plasma Science, 2018, 46, 1775-1780. | 1.3 | 4 |
| 61 | Experimental Research of Gasdynamic Liquid Drops Breakup in the Supersonic Flow with an Oblique Shock Wave. High Temperature, 2020, 58, 884-892. | 1.0 | 4 |
| 62 | The simulation of a gas-liquid chemical reactor with dispersed medium. High Temperature, 2010, 48, 572-582. | 1.0 | 3 |
| 63 | Rayleigh–Taylor instability in a visco-plastic fluid. Physica Scripta, 2010, T142, 014026. | 2.5 | 3 |
| 64 | Electric conductivity of molecular hydrogen plasma with alkali metal additive. High Temperature, 2011, 49, 138-140. | 1.0 | 3 |
| 65 | Simulation of chemical transformation wave propagation through a flow reactor with a microbubble medium. High Temperature, 2011, 49, 217-226. | 1.0 | 3 |
| 66 | Degradation spectra of electrons in the ionosphere. Journal of Physics: Conference Series, 2015, 653, 012120. | 0.4 | 3 |
| 67 | Experimental modeling of lightning discharge into soil. High Temperature, 2015, 53, 775-778. | 1.0 | 3 |
| 68 | Shock wave in a gas–liquid bubble medium. High Temperature, 2015, 53, 882-886. | 1.0 | 3 |
| 69 | Electric breakdown during the pulsed current spreading in the sand. Plasma Physics Reports, 2016, 42, 301-305. | 0.9 | 3 |
| 70 | Numerical simulation of gas flow past scale model of hypersonic vehicle in wind tunnel. High Temperature, 2017, 55, 280-285. | 1.0 | 3 |
| 71 | Peculiarities of electric discharge between jet anode and metal cathode. High Temperature, 2017, 55, 935-937. | 1.0 | 3 |
| 72 | On stability of channel flow of thermoviscous fluid. Thermophysics and Aeromechanics, 2017, 24, 883-900. | 0.5 | 3 |

| # | Article | lF | CITATIONS |
|----|--|-----|-----------|
| 73 | The bubble method of water purification. Europhysics Letters, 2018, 121, 48007. | 2.0 | 3 |
| 74 | Thermoviscous fluid flow modes in a plane nonisothermal layer. Thermophysics and Aeromechanics, 2018, 25, 845-864. | 0.5 | 3 |
| 75 | Destruction of High-Voltage Transformers in an Explosion and the Interaction of Shock Waves with Walls. High Temperature, 2020, 58, 699-709. | 1.0 | 3 |
| 76 | Special features of a multichannel discharge with solid and electrolytic electrodes at atmospheric pressure. High Temperature, 2007, 45, 280-281. | 1.0 | 2 |
| 77 | Certain features of multichannel discharge in a tube under atmospheric pressure. High Temperature, 2011, 49, 762-765. | 1.0 | 2 |
| 78 | Interaction of a shock wave with a turbulent boundary layer on a heated surface. High Temperature, 2013, 51, 810-815. | 1.0 | 2 |
| 79 | The turbulent mixing of non-Newtonian fluids. Physica Scripta, 2013, T155, 014019. | 2.5 | 2 |
| 80 | Optical investigations of pulsed sparks in soil near electrode. Journal of Physics: Conference Series, 2015, 653, 012151. | 0.4 | 2 |
| 81 | Propagation of current pulses with an amplitude of up to 85 kA in soil over distances of several tens of meters. Plasma Physics Reports, 2016, 42, 177-185. | 0.9 | 2 |
| 82 | High-pressure ignition plasma torch for aerospace testing facilities. Journal of Physics: Conference Series, 2016, 774, 012185. | 0.4 | 2 |
| 83 | Plasma Disposal in Problems of Ecology (Review). High Temperature, 2020, 58, 495-519. | 1.0 | 2 |
| 84 | Turbulent kinetic energy transfer and dissipation in thermoviscous fluid flow. Thermophysics and Aeromechanics, 2020, 27, 539-554. | 0.5 | 2 |
| 85 | Probe diagnostics of nuclear-excited plasma of uranium hexafluoride. High Temperature, 2010, 48, 789-805. | 1.0 | 1 |
| 86 | Non-stationary turbulent mixing of multichannel discharge plasma and electrolyte. Physica Scripta, 2010, T142, 014036. | 2.5 | 1 |
| 87 | Heterogeneous oxidation in a microbubble medium. Russian Journal of Physical Chemistry B, 2011, 5, 250-255. | 1.3 | 1 |
| 88 | Experimental study of impulse outflow of high temperature gas from a discharge chamber with cylindrical and expanding channels. High Temperature, 2013, 51, 340-350. | 1.0 | 1 |
| 89 | Generation of metal nanoclusters and microparticles. High Temperature, 2015, 53, 742-750. | 1.0 | 1 |
| 90 | Investigation of shock wave-boundary layer instability on the heated ramp surface. Journal of Physics: Conference Series, 2015, 653, 012069. | 0.4 | 1 |

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|-----|---|-----|-----------|
| 91 | Experimental modeling of lightning strike in soil. Journal of Physics: Conference Series, 2016, 774, 012134. | 0.4 | 1 |
| 92 | Simulating flow around scaled model of a hypersonic vehicle in wind tunnel. Journal of Physics: Conference Series, 2016, 774, 012095. | 0.4 | 1 |
| 93 | Discharge between the jet and dropping liquid cathode and metal anode. Journal of Physics: Conference Series, 2017, 927, 012018. | 0.4 | 1 |
| 94 | Kelvin–Helmholz instability in thermoviscous free shear flow. Journal of Physics: Conference Series, 2018, 946, 012075. | 0.4 | 1 |
| 95 | Transitional regimes of pulsed electrical discharge in medium-conductivity water. Journal of Physics: Conference Series, 2019, 1147, 012119. | 0.4 | 1 |
| 96 | Thermoviscous fluid flow in nonisothermal layer: structures, scales, and correlations. Thermophysics and Aeromechanics, 2020, 27, 243-258. | 0.5 | 1 |
| 97 | Heat-Resistance Tests of High-Temperature Composite Materials via Laser Heating in a Supersonic Flow. High Temperature, 2020, 58, 393-399. | 1.0 | 1 |
| 98 | Formation of energy spectra of electrons in a dense weakly ionized plasma generated by fission fragments. Contributions To Plasma Physics, 2022, 62, . | 1.1 | 1 |
| 99 | High-Frequency Discharge with a Jet Electrolytic Electrode. Plasma Physics Reports, 2022, 48, 48-54. | 0.9 | 1 |
| 100 | Special features of a multichannel discharge with a jet electrolytic anode at atmospheric pressure. High Temperature, 2008, 46, 566-568. | 1.0 | 0 |
| 101 | Rayleigh-Taylor instability of viscoplastic liquid. High Temperature, 2009, 47, 796-800. | 1.0 | 0 |
| 102 | Thermal and plasma flow control. Physica Scripta, 2010, T142, 014039. | 2.5 | 0 |
| 103 | Shock wave in a bubble flow with high gas content. Europhysics Letters, 2011, 94, 54001. | 2.0 | 0 |
| 104 | Probe measurements of plasma parameters in torch plasmatron. High Temperature, 2014, 52, 145-149. | 1.0 | 0 |
| 105 | Supersonic nozzle profiling for supersonic aerospace testing in a view of high-temperature of properties of real gases. Journal of Physics: Conference Series, 2015, 653, 012071. | 0.4 | 0 |
| 106 | Study of Graphite TPS for hypersonic flight conditions in high temperature plasma torch flows. , 2017, , . | | 0 |
| 107 | Academician Alexander Ivanovich Leontiev on his 90th birthday. International Journal of Heat and Mass Transfer, 2017, 109, 689. | 4.8 | 0 |
| 108 | Negativly streched premixed flames. Journal of Physics: Conference Series, 2018, 946, 012067. | 0.4 | 0 |

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|-----|---|-----|-----------|
| 109 | On the Construction of Turbulent Transfer Spectral Models Using 3D Numerical Simulation of Taylor–Green Vortex Decay. High Temperature, 2018, 56, 921-926. | 1.0 | 0 |
| 110 | Investigation of turbulent boundary layer separation on the heated ramp surface. Journal of Physics: Conference Series, 2019, 1147, 012051. | 0.4 | 0 |
| 111 | Steam-gaseous discharges with jet fluid electrodes at the decreased pressure. Journal of Physics: Conference Series, 2019, 1328, 012017. | 0.4 | Ο |
| 112 | Lowtemperature plasma generator for effective processing of materials. Ferrous Metallurgy Bulletin of Scientific Technical and Economic Information, 2021, 77, 587-592. | 0.2 | 0 |
| 113 | Double shear layer evolution on the non-uniform computational mesh. Physica Scripta, 0, , . | 2.5 | 0 |
| 114 | 10.1063/5.0068660.1., 2021, , . | | 0 |