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- [1] K.A. Batishcheva, G. V. Kuznetsov, E.G. Orlova, Y.N. Vympina, Evaporation of colloidal droplets from aluminum–magnesium alloy surfaces after laser-texturing and mechanical processing, *Colloids Surfaces A Physicochem. Eng. Asp.* 628 (2021) 127301. <https://doi.org/10.1016/j.colsurfa.2021.127301>.
- [2] G. V. Kuznetsov, M. V. Piskunov, R.S. Volkov, P.A. Strizhak, Unsteady temperature fields of evaporating water droplets exposed to conductive, convective and radiative heating, *Appl. Therm. Eng.* 131 (2018) 340–355. <https://doi.org/10.1016/j.applthermaleng.2017.12.021>.
- [3] G. V Kuznetsov, D. V Feoktistov, E.G. Orlova, Evaporation of liquid droplets from a surface of anodized aluminum, *Thermophys. Aeromechanics.* 23 (2016) 17–22. <https://doi.org/10.1134/S0869864316010029>.
- [4] D. V. Zaitsev, K.A. Batishcheva, G. V. Kuznetsov, O.A. Kabov, E.G. Orlova, Effect of mechanical polishing of aluminum alloy surfaces on wetting and droplet evaporation at constant and cyclically varying pressure in the chamber, *J. Mater. Sci.* 56 (2021) 20154–20168. <https://doi.org/10.1007/s10853-021-06565-y>.
- [5] G. V. Kuznetsov, M. V. Piskunov, N.E. Shlegel, P.A. Strizhak, Experimental research of the vapor zone between two coalescing droplets of heated water, *Int. Commun. Heat Mass Transf.* 126 (2021) 105410. <https://doi.org/10.1016/j.icheatmasstransfer.2021.105410>.
- [6] S. V. Syrodoy, G. V. Kuznetsov, N.Y. Gutareva, N.A. Nigay (Ivanova), Mathematical modeling of the thermochemical processes of sequestration of SO_x when burning the particles of the coal and wood mixture, *Renew. Energy.* 185 (2022) 1392–1409. <https://doi.org/10.1016/j.renene.2021.10.091>.
- [7] D. V. Antonov, G. V. Kuznetsov, R.M. Fedorenko, P.A. Strizhak, Ratio of water/fuel concentration in a group of composite droplets on high-temperature heating, *Appl. Therm. Eng.* 206 (2022) 118107. <https://doi.org/10.1016/j.applthermaleng.2022.118107>.
- [8] D. V. Antonov, G. V. Kuznetsov, P.A. Strizhak, Fragmentation of heated droplets of coal-water slurries containing petrochemicals, *Appl. Therm. Eng.* 195 (2021) 117190. <https://doi.org/10.1016/j.applthermaleng.2021.117190>.
- [9] B. V. Borisov, G. V. Kuznetsov, V.I. Maksimov, T.A. Nagornova, A. V. Vyatkin, Heat transfer under conditions of operation of a gas infrared emitter and an air exchange system, *J. Phys. Conf. Ser.* 2057 (2021) 1–7. <https://doi.org/10.1088/1742-6596/2057/1/012125>.
- [10] D. V. Antonov, K.Y. Vershinina, G. V. Kuznetsov, P.A. Strizhak, Mathematical Simulation of Ignition of an Organic Coal–Water Fuel Droplet, *J. Eng. Phys. Thermophys.* 94 (2021) 949–962. <https://doi.org/10.1007/s10891-021-02372-z>.
- [11] D. V. Antonov, G. V. Kuznetsov, P.A. Strizhak, R.M. Fedorenko, Micro-explosion of droplets containing liquids with different viscosity, interfacial and surface tension, *Chem. Eng. Res. Des.* 165 (2021) 478. <https://doi.org/10.1016/j.cherd.2020.10.028>.
- [12] D. V. Zaitsev, K.A. Batishcheva, G. V. Kuznetsov, E.G. Orlova, Prediction of water droplet behavior on aluminum alloy surfaces modified by nanosecond laser pulses, *Surf. Coatings Technol.* 399 (2020) 126206. <https://doi.org/10.1016/j.surfcoat.2020.126206>.