

- VUGA, Gašper, MAVRIČ, Boštjan, ŠARLER, Božidar. An improved local radial basis function method for solving small-strain elasto-plasticity. *Computer methods in applied mechanics and engineering*. [Print ed.]. Jan. 2024, vol. 418, pt. a, str. 1-28, ilustr. ISSN 0045-7825.
DOI: [10.1016/j.cma.2023.116501](https://doi.org/10.1016/j.cma.2023.116501)
- REK, Zlatko, ŠARLER, Božidar. Formulation of the method of fundamental solutions for two-phase Stokes flow. *Engineering analysis with boundary elements*. Jan. 2024, vol. 158, str. 199-210, ilustr. ISSN 0955-7997.
DOI: [10.1016/j.enganabound.2023.10.024](https://doi.org/10.1016/j.enganabound.2023.10.024)
- VUGA, Gašper, MAVRIČ, Boštjan, ŠARLER, Božidar. A hybrid radial basis function-finite difference method for modelling two-dimensional thermo-elasto-plasticity, Part 1 : method formulation and testing. *Engineering analysis with boundary elements*. Feb. 2024, vol. 159, str. 58-67, ilustr. ISSN 0955-7997.
DOI: [10.1016/j.enganabound.2023.11.014](https://doi.org/10.1016/j.enganabound.2023.11.014)
- VUGA, Gašper, MAVRIČ, Boštjan, HANOGLU, Umut, ŠARLER, Božidar. A hybrid radial basis function-finite difference method for modelling two-dimensional thermo-elasto-plasticity. Part 2, Application to cooling of hot-rolled steel bars on a cooling bed. *Engineering analysis with boundary elements*. Feb. 2024, vol. 159, str. 331-341, ilustr. ISSN 0955-7997.
DOI: [10.1016/j.enganabound.2023.12.001](https://doi.org/10.1016/j.enganabound.2023.12.001)
- VUGA, Gašper, MAVRIČ, Boštjan, ŠARLER, Božidar. Strong-form meshless numerical modelling of visco-plastic material. *Engineering analysis with boundary elements*. Oct. 2024, vol. 167, [art. no.] 105868, str. 1-17, ilustr. ISSN 0955-7997.
DOI: [10.1016/j.enganabound.2024.105868](https://doi.org/10.1016/j.enganabound.2024.105868)
- RANA, Khush Bakhat, MAVRIČ, Boštjan, ZAHOOR, Rizwan, ŠARLER, Božidar. Phase-field formulated meshless simulation of axisymmetric Rayleigh-Taylor instability problem. *Engineering analysis with boundary elements*. Dec. 2024, vol. 169, part a, art. 105953, str. 1-14, ilustr. ISSN 0955-7997.
DOI: [10.1016/j.enganabound.2024.105953](https://doi.org/10.1016/j.enganabound.2024.105953)

- ALI, Izaz, VUGA, Gašper, MAVRIČ, Boštjan, HANOGLU, Umut, ŠARLER, Božidar. Fourth-order phase field modelling of brittle fracture with strong form meshless method. Engineering analysis with boundary elements. Dec. 2024, vol. 169, pt b, [art. no.] 106025, str. 1-14, ilustr. ISSN 0955-7997.
DOI: [10.1016/j.enganabound.2024.106025](https://doi.org/10.1016/j.enganabound.2024.106025)
- KOVAČIČ, Krištof, BAJT, Saša, ŠARLER, Božidar. Numerical analysis of knudsen number of helium flow through gas-focused liquid sheet micro-nozzle. Fluids. 2024, vol. 9, iss. 12, [art. no.] 273, str. 1-15, ilustr. ISSN 2311-5521.
DOI: [10.3390/fluids9120273](https://doi.org/10.3390/fluids9120273)
- ZAHOOR, Rizwan, BAJT, Saša, ŠARLER, Božidar. A numerical study of gas focused non-Newtonian micro-jets. International journal of multiphase flow. Jan. 2024, vol. 170, str. 1-16, ilustr. ISSN 0301-9322.
DOI: [10.1016/j.ijmultiphaseflow.2023.104628](https://doi.org/10.1016/j.ijmultiphaseflow.2023.104628)
- KOVAČIČ, Krištof, GREGORC, Jurij, ŠARLER, Božidar. Numerical modelling and experimental validation of dripping, jetting and whipping modes of gas dynamic virtual nozzle. International journal of numerical methods for heat & fluid flow. Mar. 2024, vol. 34, iss. 4, str. 1582-1608, ilustr. ISSN 0961-5539.
DOI: [10.1108/HFF-09-2023-0573](https://doi.org/10.1108/HFF-09-2023-0573)
- ZAHOOR, Rizwan, BAJT, Saša, ŠARLER, Božidar. A numerical study of double flow focusing micro-jets. International journal of numerical methods for heat & fluid flow. 2024, vol. , iss. , str. [1-21], ilustr. ISSN 0961-5539.
DOI: [10.1108/HFF-07-2024-0480](https://doi.org/10.1108/HFF-07-2024-0480)
- ALI, Izaz, HANOGLU, Umut, VERTNIK, Robert, ŠARLER, Božidar. Assessment of local radial basis function collocation method for diffusion problems structured with multiquadrics and polyharmonic splines. Mathematical and computational applications. [Online ed.]. Mar. 2024, vol. 29, iss. 2, [article no.] 23, str. 1-31, ilustr. ISSN 2297-8747.
DOI: [10.3390/mca29020023](https://doi.org/10.3390/mca29020023)

- LIU, Qingguo, HANOGLU, Umut, REK, Zlatko, ŠARLER, Božidar. Simulation of temperature field in steel billets during reheating in pusher-type furnace by meshless method. *Mathematical and computational applications*. [Online ed.]. Apr. 2024, vol. 29, iss. 3, [article no.] 30, str. 1-16, ilustr. ISSN 2297-8747.
DOI: [10.3390/mca29030030](https://doi.org/10.3390/mca29030030)
- ZAKHAROVA, Margarita, REK, Zlatko, ŠARLER, Božidar, BAJT, Saša. On the thermal stability of multilayer optics for use with high X-ray intensities. *Optical materials express*. [Online ed.]. 2024, vol. 14, iss. 8, str. 1933-1948, ilustr. ISSN 2159-3930.
DOI: [10.1364/OME.527226](https://doi.org/10.1364/OME.527226)