

BoÅ¾idar Å arler

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7477067/publications.pdf>

Version: 2024-02-01

85
papers

2,114
citations

236925

25
h-index

265206

42
g-index

85
all docs

85
docs citations

85
times ranked

1332
citing authors

#	ARTICLE	IF	CITATIONS
1	Divergence-free meshless local Petrov-Galerkin method for Stokes flow. <i>Engineering With Computers</i> , 2022, 38, 5359-5377.	6.1	6
2	Meshless approach to the large-eddy simulation of the continuous casting process. <i>Engineering Analysis With Boundary Elements</i> , 2022, 138, 319-338.	3.7	6
3	Numerical Simulation of Heat Load for Multilayer Laue Lens under Exposure to XFEL Pulse Trains. <i>Photonics</i> , 2022, 9, 362.	2.0	1
4	A meshless solution of the compressible viscous flow in axisymmetric tubes with varying cross-sections. <i>Engineering Analysis With Boundary Elements</i> , 2022, 143, 340-352.	3.7	1
5	Modified method of regularized sources for potential flow. <i>Computers and Mathematics With Applications</i> , 2021, 88, 110-119.	2.7	1
6	Experimental and Numerical Investigation of Gas-Focused Liquid Micro-Jet Velocity. <i>International Journal of Multiphase Flow</i> , 2021, 135, 103530.	3.4	8
7	Alternative Geometric Arrangements of the Nozzle Outlet Orifice for Liquid Micro-Jet Focusing in Gas Dynamic Virtual Nozzles. <i>Materials</i> , 2021, 14, 1572.	2.9	10
8	Localized method of fundamental solutions for two-dimensional anisotropic elasticity problems. <i>Engineering Analysis With Boundary Elements</i> , 2021, 125, 59-65.	3.7	9
9	Numerical Study of the Micro-Jet Formation in Double Flow Focusing Nozzle Geometry Using Different Water-Alcohol Solutions. <i>Materials</i> , 2021, 14, 3614.	2.9	2
10	Computational modeling and simulation of gas focused liquid micro-sheets. <i>International Journal of Multiphase Flow</i> , 2021, 140, 103666.	3.4	5
11	Developments towards a Multiscale Meshless Rolling Simulation System. <i>Materials</i> , 2021, 14, 4277.	2.9	2
12	The method of fundamental solutions for the Stokes flow with the subdomain technique. <i>Engineering Analysis With Boundary Elements</i> , 2021, 128, 80-89.	3.7	9
13	RANS versus Scale Resolved Approach for Modeling Turbulent Flow in Continuous Casting of Steel. <i>Metals</i> , 2021, 11, 1140.	2.3	4
14	Meshless simulation of a lid-driven cavity problem with a non-Newtonian fluid. <i>Engineering Analysis With Boundary Elements</i> , 2021, 131, 86-99.	3.7	12
15	A numerical investigation of micro-jet characteristics in different pressure environments. <i>International Journal of Hydromechatronics</i> , 2021, 4, 368.	2.3	11
16	Reduction of discretisation-induced anisotropy in the phase-field modelling of dendritic growth by meshless approach. <i>Computational Materials Science</i> , 2020, 172, 109166.	3.0	14
17	A numerical study on the influence of liquid properties on gas-focused micro-jets. <i>Progress in Computational Fluid Dynamics</i> , 2020, 20, 71.	0.2	8
18	Simulation of macrosegregation in direct-chill casting – A model based on meshless diffuse approximate method. <i>Engineering Analysis With Boundary Elements</i> , 2020, 113, 191-203.	3.7	14

#	ARTICLE	IF	CITATIONS
19	Equivalent-PDE based stabilization of strong-form meshless methods applied to advection-dominated problems. <i>Engineering Analysis With Boundary Elements</i> , 2020, 113, 315-327.	3.7	5
20	Surface Analysis of Biodegradable Mg-Alloys after Immersion in Simulated Body Fluid. <i>Materials</i> , 2020, 13, 1740.	2.9	10
21	Application of the local RBF collocation method to natural convection in a 3D cavity influenced by a magnetic field. <i>Engineering Analysis With Boundary Elements</i> , 2020, 116, 1-13.	3.7	15
22	Simulation of Casting Geometry Effect in Low-Frequency Electromagnetic Casting. <i>Mechanisms and Machine Science</i> , 2020, , 815-825.	0.5	0
23	Hot Rolling Simulation System for Steel Based on Advanced Meshless Solution. <i>Metals</i> , 2019, 9, 788.	2.3	26
24	Method of fundamental solutions without fictitious boundary for three dimensional elasticity problems based on force-balance desingularization. <i>Engineering Analysis With Boundary Elements</i> , 2019, 108, 244-253.	3.7	10
25	Comprehensive Electric Arc Furnace Electric Energy Consumption Modeling: A Pilot Study. <i>Energies</i> , 2019, 12, 2142.	3.1	32
26	Novel multilevel techniques for convergence acceleration in the solution of systems of equations arising from RBF-FD meshless discretizations. <i>Journal of Computational Physics</i> , 2019, 392, 311-334.	3.8	13
27	Simulation of a macrosegregation benchmark in a cylindrical coordinate system with a meshless method. <i>International Journal of Thermal Sciences</i> , 2019, 142, 121-133.	4.9	11
28	Solution of three-dimensional temperature and turbulent velocity field in continuously cast steel billets with electromagnetic stirring by a meshless method. <i>Engineering Analysis With Boundary Elements</i> , 2019, 104, 347-363.	3.7	23
29	Numerical solutions of waves-current interactions by generalized finite difference method. <i>Engineering Analysis With Boundary Elements</i> , 2019, 100, 150-163.	3.7	38
30	Multi-Physics and Multi-Scale Meshless Simulation System for Direct-Chill Casting of Aluminium Alloys. <i>Strojnicki Vestnik/Journal of Mechanical Engineering</i> , 2019, 65, 658-670.	1.1	5
31	Simulation of a macrosegregation benchmark with a meshless diffuse approximate method. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2018, 28, 361-380.	2.8	17
32	Influence of Gas Dynamic Virtual Nozzle Geometry on Micro-Jet Characteristics. <i>International Journal of Multiphase Flow</i> , 2018, 104, 152-165.	3.4	29
33	Simulation of direct chill casting under the influence of a low-frequency electromagnetic field. <i>Applied Mathematical Modelling</i> , 2018, 54, 170-188.	4.2	48
34	Multi-pass hot-rolling simulation using a meshless method. <i>Computers and Structures</i> , 2018, 194, 1-14.	4.4	38
35	Phase field simulation of Rayleigh-Taylor instability with a meshless method. <i>Engineering Analysis With Boundary Elements</i> , 2018, 87, 78-89.	3.7	26
36	Rolling simulation system for non-symmetric groove types. <i>Procedia Manufacturing</i> , 2018, 15, 121-128.	1.9	5

#	ARTICLE	IF	CITATIONS
37	Non-singular method of fundamental solutions for elasticity problems in three-dimensions. Engineering Analysis With Boundary Elements, 2018, 96, 23-35.	3.7	16
38	Development of meshless phase field method for two-phase flow. International Journal of Multiphase Flow, 2018, 108, 169-180.	3.4	16
39	Simulation of liquid micro-jet in free expanding high-speed co-flowing gas streams. Microfluidics and Nanofluidics, 2018, 22, 1.	2.2	20
40	Numerical investigation on influence of focusing gas type on liquid micro-jet characteristics. International Journal of Hydromechatronics, 2018, 1, 222.	2.3	17
41	Numerical investigation on influence of focusing gas type on liquid micro-jet characteristics. International Journal of Hydromechatronics, 2018, 1, 222.	2.3	1
42	Application of the RBF collocation method to transient coupled thermoelasticity. International Journal of Numerical Methods for Heat and Fluid Flow, 2017, 27, 1064-1077.	2.8	19
43	Double-flow focused liquid injector for efficient serial femtosecond crystallography. Scientific Reports, 2017, 7, 44628.	3.3	90
44	A cellular automaton " finite volume method for the simulation of dendritic and eutectic growth in binary alloys using an adaptive mesh refinement. Journal of Computational Physics, 2017, 349, 351-375.	3.8	19
45	Method of regularized sources for axisymmetric Stokes flow problems. International Journal of Numerical Methods for Heat and Fluid Flow, 2016, 26, 1226-1239.	2.8	13
46	Local radial basis function collocation method for linear thermoelasticity in two dimensions. International Journal of Numerical Methods for Heat and Fluid Flow, 2015, 25, 1488-1510.	2.8	51
47	Local radial basis function collocation method for solving thermo-driven fluid-flow problems with free surface. Engineering Analysis With Boundary Elements, 2015, 57, 2-8.	3.7	51
48	A meshless model of electromagnetic braking for the continuous casting of steel. Materiali in Tehnologije, 2015, 49, 961-967.	0.5	2
49	Non-singular method of fundamental solutions for three-dimensional isotropic elasticity problems with displacement boundary conditions. Materiali in Tehnologije, 2015, 49, 969-974.	0.5	0
50	Genetic programming prediction of the natural gas consumption in a steel plant. Energy, 2014, 66, 273-284.	8.8	52
51	Simulation of Dendritic Growth in Multicomponent Aluminium Alloys by Point Automata Method. Materials Science Forum, 2014, 790-791, 115-120.	0.3	2
52	Wavelets collocation methods for the numerical solution of elliptic BV problems. Applied Mathematical Modelling, 2013, 37, 676-694.	4.2	79
53	Assessment of global and local meshless methods based on collocation with radial basis functions for parabolic partial differential equations in three dimensions. Engineering Analysis With Boundary Elements, 2012, 36, 1640-1648.	3.7	47
54	Calculating transport of water from a conduit to the porous matrix by boundary distributed source method. Engineering Analysis With Boundary Elements, 2012, 36, 1649-1659.	3.7	24

#	ARTICLE	IF	CITATIONS
55	Radial basis function collocation method for the numerical solution of the two-dimensional transient nonlinear coupled Burgersâ€™ equations. Applied Mathematical Modelling, 2012, 36, 1148-1160.	4.2	77
56	Genetic Algorithm-Based Batch Filling Scheduling in the Steel Industry. Materials and Manufacturing Processes, 2011, 26, 464-474.	4.7	10
57	Local Collocation Approach for Solving Turbulent Combined Forced and Natural Convection Problems. Advances in Applied Mathematics and Mechanics, 2011, 3, 259-279.	1.2	22
58	A comparison of three explicit local meshless methods using radial basis functions. Engineering Analysis With Boundary Elements, 2011, 35, 600-609.	3.7	51
59	Thermo-Mechanical Analysis of Hot Shape Rolling of Steel by a Meshless Method. Procedia Engineering, 2011, 10, 3173-3178.	1.2	17
60	The numerical solution of second-order boundary-value problems by collocation method with the Haar wavelets. Mathematical and Computer Modelling, 2010, 52, 1577-1590.	2.0	136
61	A Sensitivity Study of Grain Growth Model For Prediction of ECT and CET Transformations in Continuous Casting of Steel. Materials Science Forum, 2010, 649, 373-378.	0.3	7
62	Solution of potential flow problems by the modified method of fundamental solutions: Formulations with the single layer and the double layer fundamental solutions. Engineering Analysis With Boundary Elements, 2009, 33, 1374-1382.	3.7	135
63	Application of the Genetic Programming for Increasing the Soft Annealing Productivity in Steel Industry. Materials and Manufacturing Processes, 2009, 24, 369-374.	4.7	30
64	Solution of thermo-fluid problems by collocation with local pressure correction. International Journal of Numerical Methods for Heat and Fluid Flow, 2008, 18, 868-882.	2.8	72
65	From Global to Local Radial Basis Function Collocation Method for Transport Phenomena. , 2007, , 257-282.		27
66	Axisymmetric multiquadrics. Engineering Analysis With Boundary Elements, 2006, 30, 137-142.	3.7	8
67	Meshless local radial basis function collocation method for convective-diffusive solid-liquid phase change problems. International Journal of Numerical Methods for Heat and Fluid Flow, 2006, 16, 617-640.	2.8	134
68	Melt Flow and Macrosegregation in DC Casting of Binary Aluminum Alloys. Materials Science Forum, 2006, 508, 515-522.	0.3	0
69	Mesh-Free Simulation of Transport Phenomena in Continuous Castings of Aluminium Alloys. Materials Science Forum, 2006, 508, 497-502.	0.3	0
70	Solid-Solid Phase Transformations in Aluminium Alloys Described by a Multiphase-Field Model. Materials Science Forum, 2006, 508, 579-584.	0.3	2
71	Modeling of macrosegregation in direct-chill casting of aluminum alloys: Estimating the influence of casting parameters. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2005, 413-414, 85-91.	5.6	48
72	Solution of a phase-field model for dissolution of primary particles in binary aluminum alloys by an r-adaptive mesh-free method. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2005, 413-414, 423-428.	5.6	39

#	ARTICLE	IF	CITATIONS
73	Dual reciprocity boundary element method solution of natural convection in Darcy-Brinkman porous media. <i>Engineering Analysis With Boundary Elements</i> , 2004, 28, 23-41.	3.7	24
74	Radial basis function collocation method solution of natural convection in porous media. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2004, 14, 187-212.	2.8	43
75	Coupling of conductive, convective and radiative heat transfer in Czochralski crystal growth process. <i>Computational Materials Science</i> , 2002, 25, 570-576.	3.0	6
76	Towards a mesh-free computation of transport phenomena. <i>Engineering Analysis With Boundary Elements</i> , 2002, 26, 731-738.	3.7	33
77	Natural convection in porous media?dual reciprocity boundary element method solution of the Darcy model. <i>International Journal for Numerical Methods in Fluids</i> , 2000, 33, 279-312.	1.6	22
78	Primitive variable dual reciprocity boundary element method solution of incompressible Navier-Stokes equations. <i>Engineering Analysis With Boundary Elements</i> , 1999, 23, 443-455.	3.7	28
79	Axisymmetric augmented thin plate splines. <i>Engineering Analysis With Boundary Elements</i> , 1998, 21, 81-85.	3.7	17
80	Iterative solution of systems of equations in the dual reciprocity boundary element method for the diffusion equation. <i>International Journal for Numerical Methods in Engineering</i> , 1998, 43, 713-732.	2.8	35
81	Stefan's work on solid-liquid phase changes. <i>Engineering Analysis With Boundary Elements</i> , 1995, 16, 83-92.	3.7	75
82	Mixture continuum formulation of convection-conduction energy transport in multiconstituent solid-liquid phase change systems for BEM solution techniques. <i>Engineering Analysis With Boundary Elements</i> , 1993, 11, 109-117.	3.7	3
83	Some Aspects of Nuclear Power Plant Safety under War Conditions. <i>Nuclear Technology</i> , 1993, 101, 193-201.	1.2	3
84	Meshless Approach to Solving Freezing with Natural Convection. <i>Materials Science Forum</i> , 0, 649, 205-210.	0.3	3
85	A Meshless Approach in Solution of Multiscale Solidification Modeling. <i>Materials Science Forum</i> , 0, 649, 211-216.	0.3	14