

Georgios Bourantas

List of Publications by Year in descending order

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34
papers

756
citations

687363

13
h-index

526287

27
g-index

36
all docs

36
docs citations

36
times ranked

823
citing authors

#	ARTICLE	IF	CITATIONS
1	Automatic vessel lumen segmentation and stent strut detection in intravascular optical coherence tomography. <i>Medical Physics</i> , 2011, 39, 503-513.	3.0	96
2	MHD natural-convection flow in an inclined square enclosure filled with a micropolar-nanofluid. <i>International Journal of Heat and Mass Transfer</i> , 2014, 79, 930-944.	4.8	92
3	Modeling the natural convective flow of micropolar nanofluids. <i>International Journal of Heat and Mass Transfer</i> , 2014, 68, 35-41.	4.8	86
4	A Predictive 3D Multi-Scale Model of Biliary Fluid Dynamics in the Liver Lobule. <i>Cell Systems</i> , 2017, 4, 277-290.e9.	6.2	79
5	Suite of meshless algorithms for accurate computation of soft tissue deformation for surgical simulation. <i>Medical Image Analysis</i> , 2019, 56, 152-171.	11.6	52
6	Computational representation and hemodynamic characterization of in vivo acquired severe stenotic renal artery geometries using turbulence modeling. <i>Medical Engineering and Physics</i> , 2008, 30, 647-660.	1.7	36
7	An accurate, stable and efficient domain-type meshless method for the solution of MHD flow problems. <i>Journal of Computational Physics</i> , 2009, 228, 8135-8160.	3.8	35
8	Using DC PSE operator discretization in Eulerian meshless collocation methods improves their robustness in complex geometries. <i>Computers and Fluids</i> , 2016, 136, 285-300.	2.5	28
9	Localized meshless point collocation method for time-dependent magnetohydrodynamics flow through pipes under a variety of wall conductivity conditions. <i>Computational Mechanics</i> , 2011, 47, 137-159.	4.0	27
10	Truly meshless localized type techniques for the steady-state heat conduction problems for isotropic and functionally graded materials. <i>Engineering Analysis With Boundary Elements</i> , 2011, 35, 452-464.	3.7	26
11	A meshless scheme for incompressible fluid flow using a velocity-pressure correction method. <i>Computers and Fluids</i> , 2013, 88, 189-199.	2.5	20
12	Real-time tumor ablation simulation based on the dynamic mode decomposition method. <i>Medical Physics</i> , 2014, 41, 053301.	3.0	20
13	Strong-form approach to elasticity: Hybrid finite difference-meshless collocation method (FDMCM). <i>Applied Mathematical Modelling</i> , 2018, 57, 316-338.	4.2	16
14	Meshless point collocation for the numerical solution of Navier-Stokes flow equations inside an evaporating sessile droplet. <i>Engineering Analysis With Boundary Elements</i> , 2012, 36, 240-247.	3.7	13
15	A hybrid particle-mesh method for incompressible active polar viscous gels. <i>Journal of Computational Physics</i> , 2015, 291, 334-361.	3.8	13
16	Transient thermal conduction with variable conductivity using the Meshless Local Petrov-Galerkin method. <i>Applied Mathematics and Computation</i> , 2016, 272, 676-686.	2.2	13
17	Natural convection of nanofluids flow with ϵ -nanofluid-oriented models of thermal conductivity and dynamic viscosity in the presence of heat source. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2013, 23, 248-274.	2.8	12
18	An implicit potential method along with a meshless technique for incompressible fluid flows for regular and irregular geometries in 2D and 3D. <i>Engineering Analysis With Boundary Elements</i> , 2017, 77, 97-111.	3.7	11

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19	Two-Phase Biofluid Flow Model for Magnetic Drug Targeting. <i>Symmetry</i> , 2020, 12, 1083.	2.2	11
20	An implicit meshless scheme for the solution of transient non-linear Poisson-type equations. <i>Engineering Analysis With Boundary Elements</i> , 2013, 37, 1117-1126.	3.7	10
21	Modeling the Natural Convection Flow in a Square Porous Enclosure Filled with a Micropolar Nanofluid under Magnetohydrodynamic Conditions. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 1633.	2.5	10
22	An Explicit Meshless Point Collocation Solver for Incompressible Navier-Stokes Equations. <i>Fluids</i> , 2019, 4, 164.	1.7	9
23	Cell-based maximum entropy approximants for three-dimensional domains: Application in large strain elastodynamics using the meshless total Lagrangian explicit dynamics method. <i>International Journal for Numerical Methods in Engineering</i> , 2020, 121, 477-491.	2.8	8
24	Lattice-Boltzmann and meshless point collocation solvers for fluid flow and conjugate heat transfer. <i>International Journal for Numerical Methods in Fluids</i> , 2012, 70, 1428-1442.	1.6	7
25	Numerical solution of the incompressible Navier-Stokes equations in primitive variables and velocity-vorticity formulation. <i>Applied Mathematics and Computation</i> , 2013, 222, 575-588.	2.2	6
26	An explicit meshless point collocation method for electrically driven magnetohydrodynamics (MHD) flow. <i>Applied Mathematics and Computation</i> , 2019, 348, 215-233.	2.2	6
27	Computer simulation of tumour resection-induced brain deformation by a meshless approach. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2022, 38, e3539.	2.1	4
28	Modeling Proteolytically Driven Tumor Lymphangiogenesis. <i>Advances in Experimental Medicine and Biology</i> , 2016, 936, 107-136.	1.6	3
29	Numerical simulation of the unsteady non-linear heat transfer problems. Application on nanosecond laser annealing of Si. <i>Applied Surface Science</i> , 2012, 258, 7266-7273.	6.1	2
30	Efficiency of the meshless local Petrov-Galerkin method with moving least squares approximation for thermal conduction applications. , 2013, , .		2
31	Micropolar Blood Flow in a Magnetic Field. <i>Fluids</i> , 2021, 6, 133.	1.7	1
32	Hemodynamics of anterior circulation intracranial aneurysms with daughter blebs: investigating the multidirectionality of blood flow fields. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2023, 26, 113-125.	1.6	1
33	Simulation of intracranial hemodynamics by an efficient and accurate immersed boundary scheme. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2021, , e3524.	2.1	0
34	SU-FF-I-91: Computational Representation of In-Vivo Acquired Stenotic Renal Artery Geometries Using Turbulence Modeling. <i>Medical Physics</i> , 2006, 33, 2017-2018.	3.0	0