

Victor D Fachinotti

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

47
papers

993
citations

18
h-index

30
g-index

48
ext. papers

1,226
ext. citations

4.3
avg, IF

4.98
L-index

| # | Paper | IF | Citations |
|----|--|-----|-----------|
| 47 | Solving heat conduction problems with a moving heat source in arc welding processes via an overlapping nodes scheme based on the improved element-free Galerkin method. <i>International Journal of Heat and Mass Transfer</i> , 2022 , 192, 122940 | 4.9 | 0 |
| 46 | On the performance of a Chimera-FEM implementation to treat moving heat sources and moving boundaries in time-dependent problems. <i>Finite Elements in Analysis and Design</i> , 2022 , 208, 103789 | 2.2 | 0 |
| 45 | Implementation of total variation regularization-based approaches in the solution of linear inverse heat conduction problems concerning the estimation of surface heat fluxes. <i>International Communications in Heat and Mass Transfer</i> , 2021 , 125, 105330 | 5.8 | 2 |
| 44 | Computational design of thermo-mechanical metadivices using topology optimization. <i>Applied Mathematical Modelling</i> , 2021 , 90, 758-776 | 4.5 | 3 |
| 43 | Solving steady-state lid-driven square cavity flows at high Reynolds numbers via a coupled improved element-free Galerkin-reduced integration penalty method. <i>Computers and Mathematics With Applications</i> , 2021 , 99, 211-228 | 2.7 | 3 |
| 42 | A modified sequential gradient-based method for the inverse estimation of transient heat transfer coefficients in non-linear one-dimensional heat conduction problems. <i>International Communications in Heat and Mass Transfer</i> , 2021 , 127, 105488 | 5.8 | 0 |
| 41 | Optimization of Multilayered Walls for Building Envelopes Including PCM-Based Composites. <i>Materials</i> , 2020 , 13, | 3.5 | 4 |
| 40 | An efficient metamodel-based method to carry out multi-objective building performance optimizations. <i>Energy and Buildings</i> , 2020 , 206, 109576 | 7 | 28 |
| 39 | A Brief Review on Thermal Metamaterials for Cloaking and Heat Flux Manipulation. <i>Advanced Engineering Materials</i> , 2020 , 22, 1901034 | 3.5 | 13 |
| 38 | A plausible extension of standard penalty, streamline upwind and immersed boundary techniques to the improved element-free Galerkin-based solution of incompressible Navier-Stokes equations. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2020 , 372, 113380 | 5.7 | 2 |
| 37 | Inverse finite element analysis using a simple reduced integration hexahedral solid-shell element. <i>Finite Elements in Analysis and Design</i> , 2020 , 178, 103440 | 2.2 | 1 |
| 36 | Multiscale design of artificial bones with biomimetic elastic microstructures. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2020 , 108, 103748 | 4.1 | 5 |
| 35 | Application and characterization of metamodels based on artificial neural networks for building performance simulation: A systematic review. <i>Energy and Buildings</i> , 2020 , 217, 109972 | 7 | 38 |
| 34 | Implementation of a standard stream-upwind stabilization scheme in the element-free Galerkin based solution of advection-dominated heat transfer problems during solidification in direct chill casting processes. <i>Engineering Analysis With Boundary Elements</i> , 2019 , 106, 170-181 | 2.6 | 12 |
| 33 | Metamaterial for elastostatic cloaking under thermal gradients. <i>Scientific Reports</i> , 2019 , 9, 3614 | 4.9 | 9 |
| 32 | Computational design of metadivices for heat flux manipulation considering the transient regime. <i>Numerical Heat Transfer; Part A: Applications</i> , 2019 , 76, 648-663 | 2.3 | 3 |
| 31 | Multiscale design of elastic solids with biomimetic cancellous bone cellular microstructures. <i>Structural and Multidisciplinary Optimization</i> , 2019 , 60, 639-661 | 3.6 | 12 |

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| 30 | Optimization-based design of easy-to-make devices for heat flux manipulation. <i>International Journal of Thermal Sciences</i> , 2018 , 128, 38-48 | 4.1 | 22 |
| 29 | A metamodel-based optimization approach to reduce the weight of composite laminated wind turbine blades. <i>Composite Structures</i> , 2018 , 194, 345-356 | 5.3 | 20 |
| 28 | Optimization-based design of an elastostatic cloaking device. <i>Scientific Reports</i> , 2018 , 8, 9857 | 4.9 | 9 |
| 27 | Computational modeling of natural ventilation in low-rise non-rectangular floor-plan buildings. <i>Building Simulation</i> , 2018 , 11, 1255-1271 | 3.9 | 7 |
| 26 | Prediction of wind pressure coefficients on building surfaces using artificial neural networks. <i>Energy and Buildings</i> , 2018 , 158, 1429-1441 | 7 | 78 |
| 25 | Simultaneous ply-order, ply-number and ply-drop optimization of laminate wind turbine blades using the inverse finite element method. <i>Composite Structures</i> , 2018 , 184, 894-903 | 5.3 | 25 |
| 24 | Implementation of standard penalty procedures for the solution of incompressible Navier-Stokes equations, employing the element-free Galerkin method. <i>Engineering Analysis With Boundary Elements</i> , 2018 , 96, 36-54 | 2.6 | 8 |
| 23 | Optimization-based design of a heat flux concentrator. <i>Scientific Reports</i> , 2017 , 7, 40591 | 4.9 | 18 |
| 22 | Optimization-based design of heat flux manipulation devices with emphasis on fabricability. <i>Scientific Reports</i> , 2017 , 7, 6261 | 4.9 | 19 |
| 21 | A computational multi-objective optimization method to improve energy efficiency and thermal comfort in dwellings. <i>Energy and Buildings</i> , 2017 , 154, 283-294 | 7 | 58 |
| 20 | Application of the inverse finite element method to design wind turbine blades. <i>Composite Structures</i> , 2017 , 161, 160-172 | 5.3 | 17 |
| 19 | Generation of typical meteorological years for the Argentine Littoral Region. <i>Energy and Buildings</i> , 2016 , 129, 432-444 | 7 | 23 |
| 18 | Residential building design optimisation using sensitivity analysis and genetic algorithm. <i>Energy and Buildings</i> , 2016 , 133, 853-866 | 7 | 69 |
| 17 | Sensitivity of the thermomechanical response of elastic structures to microstructural changes. <i>International Journal of Solids and Structures</i> , 2015 , 69-70, 45-59 | 3.1 | 7 |
| 16 | Inverse finite element modeling of shells using the degenerate solid approach. <i>Computers and Structures</i> , 2015 , 157, 89-98 | 4.5 | 6 |
| 15 | An enrichment scheme for solidification problems. <i>Computational Mechanics</i> , 2013 , 52, 17-35 | 4 | 14 |
| 14 | A new method to design compliant mechanisms based on the inverse beam finite element model. <i>Mechanism and Machine Theory</i> , 2013 , 65, 14-28 | 4 | 16 |
| 13 | Finite-element modelling of heat transfer in shaped metal deposition and experimental validation. <i>Acta Materialia</i> , 2012 , 60, 6621-6630 | 8.4 | 35 |

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|----|---|-----|----|
| 12 | Computational modelling of shaped metal deposition. <i>International Journal for Numerical Methods in Engineering</i> , 2011 , 85, 84-106 | 2.4 | 61 |
| 11 | Analytical solutions of the thermal field induced by moving double-ellipsoidal and double-elliptical heat sources in a semi-infinite body. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2011 , 27, 595-607 | 2.6 | 47 |
| 10 | Finite element modeling of welding processes. <i>Applied Mathematical Modelling</i> , 2011 , 35, 688-707 | 4.5 | 79 |
| 9 | Inverse finite element method for large-displacement beams. <i>International Journal for Numerical Methods in Engineering</i> , 2010 , 84, 1166-1182 | 2.4 | 12 |
| 8 | Finite element modelling of inverse design problems in large deformations anisotropic hyperelasticity. <i>International Journal for Numerical Methods in Engineering</i> , 2008 , 74, 894-910 | 2.4 | 32 |
| 7 | A fixed-mesh Eulerian-Lagrangian approach for stress analysis in continuous casting. <i>International Journal for Numerical Methods in Engineering</i> , 2007 , 70, 728-755 | 2.4 | 7 |
| 6 | Two-phase thermo-mechanical and macrosegregation modelling of binary alloys solidification with emphasis on the secondary cooling stage of steel slab continuous casting processes. <i>International Journal for Numerical Methods in Engineering</i> , 2006 , 67, 1341-1384 | 2.4 | 35 |
| 5 | Linear tetrahedral finite elements for thermal shock problems. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2006 , 16, 590-601 | 4.5 | 12 |
| 4 | ALE method for solidification modelling. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2004 , 193, 4355-4381 | 5.7 | 47 |
| 3 | Phasewise numerical integration of finite element method applied to solidification processes. <i>International Journal of Heat and Mass Transfer</i> , 2000 , 43, 1053-1066 | 4.9 | 17 |
| 2 | Visco-plastic constitutive models of steel at high temperature. <i>Journal of Materials Processing Technology</i> , 2000 , 102, 143-152 | 5.3 | 17 |
| 1 | A fast convergent and accurate temperature model for phase-change heat conduction. <i>International Journal for Numerical Methods in Engineering</i> , 1999 , 44, 1863-1884 | 2.4 | 41 |