

# Victor D Fachinotti

## List of Publications by Citations

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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	Finite element modeling of welding processes. <i>Applied Mathematical Modelling</i> , <b>2011</b> , 35, 688-707	4.5	79
46	Prediction of wind pressure coefficients on building surfaces using artificial neural networks. <i>Energy and Buildings</i> , <b>2018</b> , 158, 1429-1441	7	78
45	Residential building design optimisation using sensitivity analysis and genetic algorithm. <i>Energy and Buildings</i> , <b>2016</b> , 133, 853-866	7	69
44	Computational modelling of shaped metal deposition. <i>International Journal for Numerical Methods in Engineering</i> , <b>2011</b> , 85, 84-106	2.4	61
43	A computational multi-objective optimization method to improve energy efficiency and thermal comfort in dwellings. <i>Energy and Buildings</i> , <b>2017</b> , 154, 283-294	7	58
42	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> , <b>2011</b> , 27, 595-607	2.6	47
41	ALE method for solidification modelling. <i>Computer Methods in Applied Mechanics and Engineering</i> , <b>2004</b> , 193, 4355-4381	5.7	47
40	A fast convergent and accurate temperature model for phase-change heat conduction. <i>International Journal for Numerical Methods in Engineering</i> , <b>1999</b> , 44, 1863-1884	2.4	41
39	Application and characterization of metamodels based on artificial neural networks for building performance simulation: A systematic review. <i>Energy and Buildings</i> , <b>2020</b> , 217, 109972	7	38
38	Finite-element modelling of heat transfer in shaped metal deposition and experimental validation. <i>Acta Materialia</i> , <b>2012</b> , 60, 6621-6630	8.4	35
37	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> , <b>2006</b> , 67, 1341-1384	2.4	35
36	Finite element modelling of inverse design problems in large deformations anisotropic hyperelasticity. <i>International Journal for Numerical Methods in Engineering</i> , <b>2008</b> , 74, 894-910	2.4	32
35	An efficient metamodel-based method to carry out multi-objective building performance optimizations. <i>Energy and Buildings</i> , <b>2020</b> , 206, 109576	7	28
34	Simultaneous ply-order, ply-number and ply-drop optimization of laminate wind turbine blades using the inverse finite element method. <i>Composite Structures</i> , <b>2018</b> , 184, 894-903	5.3	25
33	Generation of typical meteorological years for the Argentine Littoral Region. <i>Energy and Buildings</i> , <b>2016</b> , 129, 432-444	7	23
32	Optimization-based design of easy-to-make devices for heat flux manipulation. <i>International Journal of Thermal Sciences</i> , <b>2018</b> , 128, 38-48	4.1	22
31	A metamodel-based optimization approach to reduce the weight of composite laminated wind turbine blades. <i>Composite Structures</i> , <b>2018</b> , 194, 345-356	5.3	20

30	Optimization-based design of heat flux manipulation devices with emphasis on fabricability. <i>Scientific Reports</i> , <b>2017</b> , 7, 6261	4.9	19
29	Optimization-based design of a heat flux concentrator. <i>Scientific Reports</i> , <b>2017</b> , 7, 40591	4.9	18
28	Application of the inverse finite element method to design wind turbine blades. <i>Composite Structures</i> , <b>2017</b> , 161, 160-172	5.3	17
27	Phasewise numerical integration of finite element method applied to solidification processes. <i>International Journal of Heat and Mass Transfer</i> , <b>2000</b> , 43, 1053-1066	4.9	17
26	Visco-plastic constitutive models of steel at high temperature. <i>Journal of Materials Processing Technology</i> , <b>2000</b> , 102, 143-152	5.3	17
25	A new method to design compliant mechanisms based on the inverse beam finite element model. <i>Mechanism and Machine Theory</i> , <b>2013</b> , 65, 14-28	4	16
24	An enrichment scheme for solidification problems. <i>Computational Mechanics</i> , <b>2013</b> , 52, 17-35	4	14
23	A Brief Review on Thermal Metamaterials for Cloaking and Heat Flux Manipulation. <i>Advanced Engineering Materials</i> , <b>2020</b> , 22, 1901034	3.5	13
22	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> , <b>2019</b> , 106, 170-181	2.6	12
21	Inverse finite element method for large-displacement beams. <i>International Journal for Numerical Methods in Engineering</i> , <b>2010</b> , 84, 1166-1182	2.4	12
20	Linear tetrahedral finite elements for thermal shock problems. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , <b>2006</b> , 16, 590-601	4.5	12
19	Multiscale design of elastic solids with biomimetic cancellous bone cellular microstructures. <i>Structural and Multidisciplinary Optimization</i> , <b>2019</b> , 60, 639-661	3.6	12
18	Metamaterial for elastostatic cloaking under thermal gradients. <i>Scientific Reports</i> , <b>2019</b> , 9, 3614	4.9	9
17	Optimization-based design of an elastostatic cloaking device. <i>Scientific Reports</i> , <b>2018</b> , 8, 9857	4.9	9
16	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> , <b>2018</b> , 96, 36-54	2.6	8
15	Sensitivity of the thermomechanical response of elastic structures to microstructural changes. <i>International Journal of Solids and Structures</i> , <b>2015</b> , 69-70, 45-59	3.1	7
14	Computational modeling of natural ventilation in low-rise non-rectangular floor-plan buildings. <i>Building Simulation</i> , <b>2018</b> , 11, 1255-1271	3.9	7
13	A fixed-mesh Eulerian-Lagrangian approach for stress analysis in continuous casting. <i>International Journal for Numerical Methods in Engineering</i> , <b>2007</b> , 70, 728-755	2.4	7

12	Inverse finite element modeling of shells using the degenerate solid approach. <i>Computers and Structures</i> , <b>2015</b> , 157, 89-98	4.5	6
11	Multiscale design of artificial bones with biomimetic elastic microstructures. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , <b>2020</b> , 108, 103748	4.1	5
10	Optimization of Multilayered Walls for Building Envelopes Including PCM-Based Composites. <i>Materials</i> , <b>2020</b> , 13,	3.5	4
9	Computational design of metadevices for heat flux manipulation considering the transient regime. <i>Numerical Heat Transfer; Part A: Applications</i> , <b>2019</b> , 76, 648-663	2.3	3
8	Computational design of thermo-mechanical metadevices using topology optimization. <i>Applied Mathematical Modelling</i> , <b>2021</b> , 90, 758-776	4.5	3
7	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> , <b>2021</b> , 99, 211-228	2.7	3
6	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> , <b>2020</b> , 372, 113380	5.7	2
5	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> , <b>2021</b> , 125, 105330	5.8	2
4	Inverse finite element analysis using a simple reduced integration hexahedral solid-shell element. <i>Finite Elements in Analysis and Design</i> , <b>2020</b> , 178, 103440	2.2	1
3	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> , <b>2021</b> , 127, 105488	5.8	0
2	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> , <b>2022</b> , 192, 122940	4.9	0
1	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> , <b>2022</b> , 208, 103789	2.2	0