Victor M Calo

List of Publications by Year
in descending order

25 papers	1,005 citations	933447 10 h-index	610901 24 g-index
26 all docs	26 docs citations	26 times ranked	743 citing authors

#	Article	IF	Citations
1	Isogeometric analysis of the Cahnâ€“Hilliard phase-field model. Computer Methods in Applied Mechanics and Engineering, 2008, 197, 4333-4352.	6.6	514
2	Isogeometric analysis of the isothermal Navierâ€“Stokesâ€“Korteweg equations. Computer Methods in Applied Mechanics and Engineering, 2010, 199, 1828-1840.	6.6	191
3	Mathematical modeling of coupled drug and drug-encapsulated nanoparticle transport in patient-specific coronary artery walls. Computational Mechanics, 2012, 49, 213-242.	4.0	86
4	Simulation of laminar and turbulent concentric pipe flows with the isogeometric variational multiscale method. Computers and Fluids, 2013, 71, 146-155.	2.5	29
5	Multiscale Modeling of Blood Flow: Coupling Finite Elements with Smoothed Dissipative Particle Dynamics. Procedia Computer Science, 2013, 18, 2565-2574.	2.0	26
6	The value of continuity: Refined isogeometric analysis and fast direct solvers. Computer Methods in Applied Mechanics and Engineering, 2017, 316, 586-605.	6.6	26
7	A survey on direct solvers for Galerkin methods. BoletÃn De La Sociedad EspaÃ‘ola De MatemÃ¡tica Aplicada, 2012, 57, 107-134.	0.9	21
8	Coupling Navier-stokes and Cahn-hilliard Equations in a Two-dimensional Annular flow Configuration. Procedia Computer Science, 2015, 51, 934-943.	2.0	20
9	Automatically adaptive, stabilized finite element method via residual minimization for heterogeneous, anisotropic advectionâ€“diffusionâ€“reaction problems. Computer Methods in Applied Mechanics and Engineering, 2021, 385, 114027.	6.6	13
10	Refined Isogeometric Analysis for a preconditioned conjugate gradient solver. Computer Methods in Applied Mechanics and Engineering, 2018, 335, 490-509.	6.6	10
11	Time adaptivity in the diffusive wave approximation to the shallow water equations. Journal of Computational Science, 2013, 4, 152-156.	2.9	8
12	DGIRM: Discontinuous Galerkin based isogeometric residual minimization for the Stokes problem. Journal of Computational Science, 2021, 50, 101306.	2.9	8
13	Dendrite formation in rechargeable lithium-metal batteries: Phase-field modeling using open-source finite element library. Journal of Energy Storage, 2022, 53, 104892.	8.1	8
14	A spatio-temporal adaptive phase-field fracture method. Computer Methods in Applied Mechanics and Engineering, 2022, 392, 114675.	6.6	7
15	Diffusive Wave Approximation to the Shallow Water Equations: Computational Approach. Procedia Computer Science, 2011, 4, 1828-1833.	2.0	6
16	Refined isogeometric analysis for generalized Hermitian eigenproblems. Computer Methods in Applied Mechanics and Engineering, 2021, 381, 113823.	6.6	4
17	A Stable Discontinuous Galerkin Based Isogeometric Residual Minimization for the Stokes Problem. Lecture Notes in Computer Science, 2020, , 197-211.	1.3	4
18	Exploiting the Kronecker product structure of <i>Ï†</i>âˆ’functions in exponential integrators. International Journal for Numerical Methods in Engineering, 2022, 123, 2142-2161.	2.8	4

#	Article	IF	Citations
19	Multiscale Lattice Boltzmann Method for Flow Simulations in Highly Heterogenous Porous Media. , 2013, , .		3
20	Variational formulations for explicit Runge-Kutta Methods. Finite Elements in Analysis and Design, 2019, 165, 77-93.	3.2	3
21	Extended LarchÃ©â€“Cahn framework for reactive Cahnâ€“Hilliard multicomponent systems. Continuum Mechanics and Thermodynamics, 2021, 33, 2391-2410.	2.2	3
22	Automatic Variationally Stable Analysis for FE Computations: An Introduction. Lecture Notes in Computational Science and Engineering, 2020, , 19-43.	0.3	3
23	Solving Nonlinear,ÂHigh-Order Partial Differential Equations Using a High-Performance Isogeometric Analysis Framework. Communications in Computer and Information Science, 2014, , 236-247.	0.5	3
24	Localized folding of thick layers. Journal of Structural Geology, 2022, 161, 104669.	2.3	3
25	High-order generalized-alpha method. Applications in Engineering Science, 2020, 4, 100021.	0.8	2