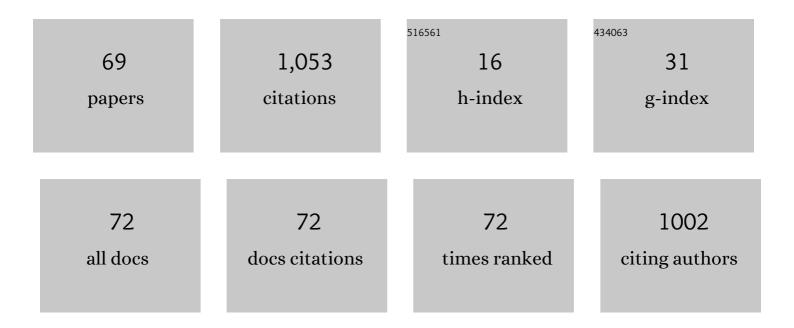
## José M Cela

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/2452915/publications.pdf Version: 2024-02-01



LOSÃO M CELA

#	Article	IF	CITATIONS
1	Alya: Multiphysics engineering simulation toward exascale. Journal of Computational Science, 2016, 14, 15-27.	1.5	144
2	A parallel finite-element method for three-dimensional controlled-source electromagnetic forward modelling. Geophysical Journal International, 2013, 193, 678-693.	1.0	126
3	Mimetic seismic wave modeling including topography on deformed staggered grids. Geophysics, 2014, 79, T125-T141.	1.4	85
4	Stability of three-dimensional relativistic jets: implications for jet collimation. Astronomy and Astrophysics, 2010, 519, A41.	2.1	80
5	A massively parallel fractional step solver for incompressible flows. Journal of Computational Physics, 2009, 228, 6316-6332.	1.9	78
6	Programming Grid Applications with GRID Superscalar. Journal of Grid Computing, 2003, 1, 151-170.	2.5	63
7	Assessing Accelerator-Based HPC Reverse Time Migration. IEEE Transactions on Parallel and Distributed Systems, 2011, 22, 147-162.	4.0	49
8	PETGEM: A parallel code for 3D CSEM forward modeling using edge finite elements. Computers and Geosciences, 2018, 119, 123-136.	2.0	43
9	Simulating archaeologists? Using agent-based modelling to improve battlefield excavations. Journal of Archaeological Science, 2012, 39, 347-356.	1.2	31
10	A review of block Krylov subspace methods for multisource electromagnetic modelling. Geophysical Journal International, 2015, 202, 1241-1252.	1.0	31
11	An efficient implementation of a QM–MM method in SIESTA. Theoretical Chemistry Accounts, 2011, 128, 825-833.	0.5	29
12	Algebraic multigrid preconditioning within parallel finite-element solvers for 3-D electromagnetic modelling problems in geophysics. Geophysical Journal International, 2014, 197, 1442-1458.	1.0	29
13	Parallel 3-D marine controlled-source electromagnetic modelling using high-order tetrahedral Nédélec elements. Geophysical Journal International, 2019, 219, 39-65.	1.0	29
14	Finite-difference staggered grids in GPUs for anisotropic elastic wave propagation simulation. Computers and Geosciences, 2014, 70, 181-189.	2.0	26
15	Radiation-Induced Error Criticality in Modern HPC Parallel Accelerators. , 2017, , .		26
16	3D Seismic Imaging through Reverse-Time Migration on Homogeneous and Heterogeneous Multi-Core Processors. Scientific Programming, 2009, 17, 185-198.	0.5	25
17	Modulated phase matching and high-order harmonic enhancement mediated by the carrier-envelope phase. Physical Review A, 2010, 81, .	1.0	16
18	Some useful strategies for unstructured edgeâ€based solvers on shared memory machines. International Journal for Numerical Methods in Engineering, 2011, 85, 537-561.	1.5	14

JOSé M CELA

#	Article	IF	CITATIONS
19	High-Performance Reverse Time Migration on GPU. , 2009, , .		10
20	The development of new infantry tactics during the early eighteenth century: a computer simulation approach to modern military history. Journal of Simulation, 2013, 7, 170-182.	1.0	10
21	Performance of computationally intensive parameter sweep applications on Internet-based Grids of computers: the mapping of molecular potential energy hypersurfaces. Concurrency Computation Practice and Experience, 2007, 19, 463-481.	1.4	8
22	Introducing the Semi-stencil Algorithm. Lecture Notes in Computer Science, 2010, , 496-506.	1.0	8
23	Approaching parallel computing to simulating population dynamics in demography. Parallel Computing, 2016, 59, 151-170.	1.3	7
24	3D reverseâ€time migration with hybrid finite differenceâ€pseudospectral method. , 2008, , .		5
25	Improvements of the particle-in-cell code EUTERPE for petascaling machines. Computer Physics Communications, 2011, 182, 2047-2051.	3.0	5
26	Acceleration strategies for elastic full waveform inversion workflows in 2D and 3D. Computational Geosciences, 2017, 21, 31-45.	1.2	5
27	HPC Geophysical Electromagnetics: A Synthetic VTI Model with Complex Bathymetry. Energies, 2022, 15, 1272.	1.6	5
28	Evaluation of 3D RTM on HPC platforms. , 2008, , .		4
29	Linear and Nonlinear Simulations Using the EUTERPE Gyrokinetic Code. IEEE Transactions on Plasma Science, 2010, 38, 2119-2128.	0.6	4
30	A European Infrastructure for Fusion Simulations. , 2010, , .		4
31	Optimization of atmospheric transport models on HPC platforms. Computers and Geosciences, 2016, 97, 30-39.	2.0	4
32	Smoothed Particle Hydrodynamics Simulations of Water Flow in a 90° Pipe Bend. Water (Switzerland), 2021, 13, 1081.	1.2	4
33	A Parallel Tool for Numerical Approximation of 3D Electromagnetic Surveys in Geophysics. Computacion Y Sistemas, 2016, 20, .	0.2	4
34	Modeling of wideâ $\in$ azimuth towedâ $\in$ streamer surveys with highâ $\in$ performance computing. , 2007, , .		3
35	Edge-based electric field formulation in 3D CSEM simulations: A parallel approach. , 2015, , .		3
36	High Performance Computing on Boundary Element Simulations. Lecture Notes in Computer Science, 2000, , 572-575.	1.0	3

José M Cela

#	Article	IF	CITATIONS
37	Parallel computing aided design of earthing systems for electrical substations in non-homogeneous soil models. , 0, , .		2
38	A parallel iterative solver based on the Schur complement system. , 0, , .		2
39	Coherent Stark nonlinear spectroscopy with chirped pulses. Physical Review A, 2007, 75, .	1.0	2
40	Real-space density functional theory and time dependent density functional theory using finite/infinite element methods. Computer Physics Communications, 2012, 183, 2581-2588.	3.0	2
41	First experience with particle-in-cell plasma physics code on ARM-based HPC systems. Journal of Physics: Conference Series, 2015, 640, 012064.	0.3	2
42	Toward an automatic full-wave inversion: Synthetic study cases. The Leading Edge, 2016, 35, 1047-1052.	0.4	2
43	A Parallel Computing Model for the Acceleration of a Finite Element Software. Lecture Notes in Computer Science, 2002, , 449-456.	1.0	2
44	A Domain Decomposition Strategy for GRID Environments. Lecture Notes in Computer Science, 2004, , 353-361.	1.0	2
45	Large-Scale Social Simulation, Dealing with Complexity Challenges in High Performance Environments. Advances in Human and Social Aspects of Technology Book Series, 2014, , 106-123.	0.3	2
46	Overview on Agent-Based Social Modelling and the Use of Formal Languages. , 0, , 333-377.		2
47	PLS: A parallel linear solvers library for Domain Decomposition methods. Lecture Notes in Computer Science, 1996, , 319-322.	1.0	1
48	Particle-in-Cell Algorithms for Plasma Simulations on Heterogeneous Architectures. , 2011, , .		1
49	Generalized Elastic Staggered Grids on Multi-GPU Platforms. , 2012, , .		1
50	Parallel and numerical issues of the edge finite element method for 3D controlled-source electromagnetic surveys. , 2015, , .		1
51	Fostering Collaboration in Energy Research and Technological Developments Applying New Exascale HPC Techniques. , 2016, , .		1
52	Using power-model based preconditioners for 3D acoustic full waveform inversion. , 2013, , .		1
53	Data Distribution Strategies for Domain Decomposition Applications in Grid Environments. Lecture Notes in Computer Science, 2005, , 214-224.	1.0	1
54	Performance Analysis of Domain Decomposition Applications Using Unbalanced Strategies in Grid Environments. Lecture Notes in Computer Science, 2005, , 1031-1042.	1.0	1

JOSé M CELA

#	Article	IF	CITATIONS
55	Parallelization of the SPAI preconditioner in a master-slave configuration. Lecture Notes in Computer Science, 1996, , 150-157.	1.0	0
56	A parallel algebraic preconditioner for the schur complement system. , 0, , .		0
57	Exploring a Novel Gathering Method for Finite Element Codes on the Cell/B.E. Architecture. , 2010, , .		0
58	Comparison of irregular cartesian finite difference methods for acoustic RTM. , 2011, , .		0
59	3D seismic modelling with topography using mimetic finite differences. , 2013, , .		0
60	Efficient parallel solutions to 3D electromagnetic problems using potentials. , 2013, , .		0
61	Improving edge finite element assembly for geophysical electromagnetic modelling on shared-memory architectures. , 2016, , .		0
62	Elastic Full Waveform Inversion (FWI) of Reflection Data with a Phase Misfit Function. Communications in Computer and Information Science, 2016, , 277-284.	0.4	0
63	Supercritical-Order Mimetic Operators on Higher-Dimensional Staggered Grids. Lecture Notes in Computational Science and Engineering, 2017, , 669-679.	0.1	0
64	Hybrid MPI-OpenMP performance in massively parallel computational fluid dynamics. Lecture Notes in Computational Science and Engineering, 2010, , 293-297.	0.1	0
65	A parallel finiteâ€element method for 3â€D marine controlledâ€source electromagnetic forward modeling. , 2011, , .		0
66	Computational Issues in Optimizing Ophthalmic Lens. Lecture Notes in Computer Science, 1999, , 173-182.	1.0	0
67	Unveiling WARIS Code, a Parallel and Multi-purpose FDM Framework. Lecture Notes in Computational Science and Engineering, 2015, , 591-599.	0.1	0
68	Three-Dimensional CSEM Modelling on Unstructured Tetrahedral Meshes Using Edge Finite Elements. Communications in Computer and Information Science, 2017, , 247-256.	0.4	0
69	Enhancing Energy Production with Exascale HPC Methods. Communications in Computer and Information Science, 2017, , 233-246.	0.4	0