

Elisa Francomano

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.

49 papers	402 citations	14 h-index	18 g-index
56 ext. papers	538 ext. citations	2.1 avg, IF	3.67 L-index

#	Paper	IF	Citations
49	Enhancing the Iterative Smoothed Particle Hydrodynamics Method. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 2628	2.6	
48	A CUDA-based implementation of an improved SPH method on GPU. <i>Applied Mathematics and Computation</i> , 2021 , 409, 125482	2.7	1
47	Towards an Efficient Implementation of an Accurate SPH Method. <i>Lecture Notes in Computer Science</i> , 2020 , 3-10	0.9	1
46	A normalized iterative Smoothed Particle Hydrodynamics method. <i>Mathematics and Computers in Simulation</i> , 2020 , 176, 171-180	3.3	3
45	The smoothed particle hydrodynamics method via residual iteration. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2019 , 352, 237-245	5.7	5
44	Improved fast Gauss transform for meshfree electromagnetic transients simulations. <i>Applied Mathematics Letters</i> , 2019 , 95, 130-136	3.5	2
43	Detecting tri-stability of 3D models with complex attractors via meshfree reconstruction of invariant manifolds of saddle points. <i>Mathematical Methods in the Applied Sciences</i> , 2018 , 41, 7450-7458	2.3	2
42	Separatrix reconstruction to identify tipping points in an eco-epidemiological model. <i>Applied Mathematics and Computation</i> , 2018 , 318, 80-91	2.7	14
41	Highlighting numerical insights of an efficient SPH method. <i>Applied Mathematics and Computation</i> , 2018 , 339, 899-915	2.7	8
40	On the Distribution of Lightning Current among Interconnected Grounding Systems in Medium Voltage Grids. <i>Energies</i> , 2018 , 11, 771	3.1	8
39	An augmented MFS approach for brain activity reconstruction. <i>Mathematics and Computers in Simulation</i> , 2017 , 141, 3-15	3.3	13
38	2017 ,		1
37	First Experiences on an Accurate SPH Method on GPUs 2017 ,		1
36	On basins of attraction for a predator-prey model via meshless approximation 2016 ,		5
35	Towards an efficient meshfree solver 2016 ,		1
34	A Meshfree Solver for the MEG Forward Problem. <i>IEEE Transactions on Magnetics</i> , 2015 , 51, 1-4	2	14
33	The Method of Fundamental Solutions in Solving Coupled Boundary Value Problems for M/EEG. <i>SIAM Journal of Scientific Computing</i> , 2015 , 37, B570-B590	2.6	16

32	Unconditionally stable meshless integration of time-domain Maxwell's curl equations. <i>Applied Mathematics and Computation</i> , 2015 , 255, 157-164	2.7	14
31	Numerical Investigations of an Implicit Leapfrog Time-Domain Meshless Method. <i>Journal of Scientific Computing</i> , 2015 , 62, 898-912	2.3	14
30	A novel numerical meshless approach for electric potential estimation in transcranial stimulation 2015 ,		1
29	Electrical analogous in viscoelasticity. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2014 , 19, 2513-2527	3.7	25
28	A numerical method for imaging of biological microstructures by VHF waves. <i>Journal of Computational and Applied Mathematics</i> , 2014 , 259, 805-814	2.4	2
27	Viscoelasticity: An electrical point of view 2014 ,		2
26	A marching-on in time meshless kernel based solver for full-wave electromagnetic simulation. <i>Numerical Algorithms</i> , 2013 , 62, 541-558	2.1	14
25	A MULTI-SPHERE PARTICLE NUMERICAL MODEL FOR NON-INVASIVE INVESTIGATIONS OF NEURONAL HUMAN BRAIN ACTIVITY. <i>Progress in Electromagnetics Research Letters</i> , 2013 , 36, 143-153	0.5	11
24	A numerical meshless particle method in solving the magnetoencephalography forward problem. <i>International Journal of Numerical Modelling: Electronic Networks, Devices and Fields</i> , 2012 , 25, 428-440	1	16
23	An improved smoothed particle electromagnetics method in 3D time domain simulations. <i>International Journal of Numerical Modelling: Electronic Networks, Devices and Fields</i> , 2012 , 25, 325-337	1	17
22	A 3D Meshless Approach for Transient Electromagnetic PDEs. <i>Mathematics in Industry</i> , 2012 , 107-112	0.2	
21	A WAVELET OPERATOR ON THE INTERVAL IN SOLVING MAXWELL'S EQUATIONS. <i>Progress in Electromagnetics Research Letters</i> , 2011 , 27, 133-140	0.5	7
20	A Smoothed Particle Image Reconstruction method. <i>Calcolo</i> , 2011 , 48, 61-74	1.5	7
19	A meshless approach for electromagnetic simulation of metallic carbon nanotubes. <i>Journal of Mathematical Chemistry</i> , 2010 , 48, 72-77	2.1	6
18	Exploiting numerical behaviors in SPH. <i>Journal of Mathematical Chemistry</i> , 2010 , 48, 128-136	2.1	4
17	Exploring parallel capabilities of an innovative numerical method for recovering image velocity vectors field. <i>Mathematical and Computer Modelling</i> , 2010 , 51, 138-143		
16	SOIL IONIZATION DUE TO HIGH PULSE TRANSIENT CURRENTS LEAKED BY EARTH ELECTRODES. <i>Progress in Electromagnetics Research B</i> , 2009 , 14, 1-21	0.7	21
15	On the use of a meshless solver for PDEs governing electromagnetic transients. <i>Applied Mathematics and Computation</i> , 2009 , 209, 42-51	2.7	8

14	Corrective meshless particle formulations for time domain Maxwell's equations. <i>Journal of Computational and Applied Mathematics</i> , 2007 , 210, 34-46	2.4	14
13	A Mesh-Free Particle Method for Transient Full-Wave Simulation. <i>IEEE Transactions on Magnetics</i> , 2007 , 43, 1333-1336	2	8
12	A smoothed particle interpolation scheme for transient electromagnetic simulation. <i>IEEE Transactions on Magnetics</i> , 2006 , 42, 647-650	2	15
11	An Algorithm for Optical Flow Computation Based on a Quasi-Interpolant Operator. <i>Computing Letters</i> , 2006 , 2, 93-106		2
10	Smoothed Particle ElectroMagnetics: A mesh-free solver for transients. <i>Journal of Computational and Applied Mathematics</i> , 2006 , 191, 194-205	2.4	35
9	Wavelet-like bases for thin-wire integral equations in electromagnetics. <i>Journal of Computational and Applied Mathematics</i> , 2005 , 175, 77-86	2.4	6
8	Finite difference time domain simulation of soil ionization in grounding systems under lightning surge conditions. <i>Applied Numerical Analysis and Computational Mathematics</i> , 2004 , 1, 90-103		10
7	. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2003 , 45, 218-228	2	30
6	Regularization of optical flow with M-band wavelet transform. <i>Computers and Mathematics With Applications</i> , 2003 , 45, 437-452	2.7	4
5	Wavelet-based efficient simulation of electromagnetic transients in a lightning protection system. <i>IEEE Transactions on Magnetics</i> , 2003 , 39, 1257-1260	2	5
4	THE METHOD OF MOMENTS FOR ELECTROMAGNETIC TRANSIENTS IN GROUNDING SYSTEMS ON DISTRIBUTED MEMORY MULTIPROCESSORS. <i>International Journal of Parallel, Emergent and Distributed Systems</i> , 2000 , 14, 213-233	1	5
3	Iterative moment method for electromagnetic transients in grounding systems on CRAY T3D. <i>Lecture Notes in Computer Science</i> , 1996 , 9-16	0.9	2
2	A RECURRENCE-FREE VARIANT OF STRASSEN'S ALGORITHM ON HYPERCUBE* *This work has been supported by Progetto Finalizzato Sistemi Informatid e calcolo parallelo of CNR and by Computer Networks Study Center CERE-CNR.. <i>International Journal of Parallel, Emergent and Distributed Systems</i> , 1995 , 5, 241-249		1
1	Parallel experience on the inverse matrix computation. <i>Parallel Computing</i> , 1991 , 17, 907-912	1	1