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List of Publications by Year in descending order

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82
papers

1,809
citations

430874

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41
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all docs

83
docs citations

83
times ranked

1198
citing authors

#	ARTICLE	IF	CITATIONS
1	High-order accurate conjugate heat transfer solutions with a finite volume method in anisotropic meshes with application in polymer processing. <i>International Journal for Numerical Methods in Engineering</i> , 2022, 123, 1146-1185.	2.8	4
2	A new stabilised scheme for the Richards TM equation with evapotranspiration. <i>Groundwater for Sustainable Development</i> , 2022, 17, 100736.	4.6	3
3	Cascade earthquake and tsunami hazard assessment: A deterministic perspective for engineering purposes. <i>International Journal of Disaster Risk Reduction</i> , 2022, 75, 102952.	3.9	2
4	Very high-order accurate finite volume scheme for the steady-state incompressible Navier-Stokes equations with polygonal meshes on arbitrary curved boundaries. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2022, 396, 115064.	6.6	3
5	A MOOD-MUSCL Hybrid Formulation for the Non-conservative Shallow-Water System. <i>Journal of Scientific Computing</i> , 2021, 88, 1.	2.3	2
6	Very high-order Cartesian-grid finite difference method on arbitrary geometries. <i>Journal of Computational Physics</i> , 2021, 434, 110217.	3.8	7
7	A two-dimensional high-order well-balanced scheme for the shallow water equations with topography and Manning friction. <i>Computers and Fluids</i> , 2021, 230, 105152.	2.5	4
8	Efficient very high-order accurate polyhedral mesh finite volume scheme for 3D conjugate heat transfer problems in curved domains. <i>Journal of Computational Physics</i> , 2021, 445, 110604.	3.8	7
9	Experimentally validated numerical models to assess tsunami hydrodynamic force on an elevated structure. <i>Engineering Structures</i> , 2021, 249, 113280.	5.3	3
10	An a posteriori strategy for adaptive schemes in time for one-dimensional advection-diffusion transport equations. <i>Computers and Mathematics With Applications</i> , 2021, 103, 65-81.	2.7	0
11	Very high-order method on immersed curved domains for finite difference schemes with regular Cartesian grids. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2020, 360, 112782.	6.6	15
12	On the solution of the slope beach problem in the context of shallow-water code benchmarking: Why non-linearization of the initial waveforms is essential. <i>Advances in Water Resources</i> , 2020, 145, 103751.	3.8	1
13	Very high-order accurate polygonal mesh finite volume scheme for conjugate heat transfer problems with curved interfaces and imperfect contacts. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2019, 357, 112560.	6.6	15
14	Comparison between MUSCL and MOOD techniques in a finite volume well-balanced code to solve SWE. The Tohoku-Oki, 2011 example. <i>Geophysical Journal International</i> , 2019, 216, 958-983.	2.4	7
15	Very high-order accurate finite volume scheme for the convection-diffusion equation with general boundary conditions on arbitrary curved boundaries. <i>International Journal for Numerical Methods in Engineering</i> , 2019, 117, 188-220.	2.8	16
16	a posteriori stabilized sixth-order finite volume scheme for one-dimensional steady-state hyperbolic equations. <i>Advances in Computational Mathematics</i> , 2018, 44, 571-607.	1.6	6
17	Very high-order accurate finite volume scheme on curved boundaries for the two-dimensional steady-state convection-diffusion equation with Dirichlet condition. <i>Applied Mathematical Modelling</i> , 2018, 54, 752-767.	4.2	15
18	Foreword to the Special Focus on Advances in Symbolic and Numeric Computation II. <i>Mathematics in Computer Science</i> , 2018, 12, 107-109.	0.4	2

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19	Numerical simulation of breast reduction with a new knitting condition. International Journal for Numerical Methods in Biomedical Engineering, 2017, 33, e02796.	2.1	1
20	A Very High-Order Accurate Staggered Finite Volume Scheme for the Stationary Incompressible Navier–Stokes and Euler Equations on Unstructured Meshes. Journal of Scientific Computing, 2017, 71, 1375-1411.	2.3	3
21	A well-balanced scheme for the shallow-water equations with topography or Manning friction. Journal of Computational Physics, 2017, 335, 115-154.	3.8	27
22	A new energy conservation scheme for the numeric study of the heat transfer in profile extrusion calibration. Heat and Mass Transfer, 2017, 53, 2901-2913.	2.1	4
23	Pressure drop measurements for woven metal mesh screens used in electrical safety switchgears. International Journal of Heat and Fluid Flow, 2017, 65, 60-72.	2.4	13
24	The MOOD method for the non-conservative shallow-water system. Computers and Fluids, 2017, 145, 99-128.	2.5	16
25	A sixth-order finite volume method for diffusion problem with curved boundaries. Applied Mathematical Modelling, 2017, 42, 401-422.	4.2	9
26	A sixth-order finite volume scheme for the steady-state incompressible Stokes equations on staggered unstructured meshes. Journal of Computational Physics, 2017, 349, 501-527.	3.8	4
27	A well-balanced scheme for the shallow-water equations with topography. Computers and Mathematics With Applications, 2016, 72, 568-593.	2.7	39
28	Second-order finite volume with hydrostatic reconstruction for tsunami simulation. Journal of Advances in Modeling Earth Systems, 2016, 8, 1691-1713.	3.8	13
29	A novel heat transfer coefficient identification methodology for the profile extrusion calibration stage. Applied Thermal Engineering, 2016, 103, 102-111.	6.0	7
30	High-accurate SPH method with Multidimensional Optimal Order Detection limiting. Computer Methods in Applied Mechanics and Engineering, 2016, 310, 134-155.	6.6	34
31	3D modeling of electrostatic interaction between atomic force microscopy probe and dielectric surface: Impact of tip shape and cantilever contribution. IEEE Transactions on Dielectrics and Electrical Insulation, 2016, 23, 705-712.	2.9	14
32	An interactive web-based tool for breast reduction surgery simulation. , 2015, , .		0
33	A sixth-order finite volume method for the 1D biharmonic operator: Application to intramedullary nail simulation. International Journal of Applied Mathematics and Computer Science, 2015, 25, 529-537.	1.5	2
34	Numerical Study of the Impact of Filters Located in the Exhaust Duct of a Low-Voltage Circuit Breaker. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2015, 5, 49-56.	2.5	1
35	Multi-dimensional modelling of electrostatic force distance curve over dielectric surface: Influence of tip geometry and correlation with experiment. Journal of Applied Physics, 2014, 116, 084106.	2.5	15
36	A very high-order finite volume method for the time-dependent convection–diffusion problem with Butcher Tableau extension. Computers and Mathematics With Applications, 2014, 68, 1292-1311.	2.7	9

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37	New cell-vertex reconstruction for finite volume scheme: Application to the convection-diffusion-reaction equation. Computers and Mathematics With Applications, 2014, 68, 1229-1249.	2.7	8
38	Voltage Excitation in Coil Rings Using Magnetically Coupled Inductor/Load For Axisymmetric Geometry. IEEE Transactions on Power Delivery, 2014, 29, 118-125.	4.3	0
39	Finite Volume Scheme Based on Cell-Vertex Reconstructions for Anisotropic Diffusion Problems with Discontinuous Coefficients. Lecture Notes in Computer Science, 2014, , 87-102.	1.3	3
40	Finite Volume Maximum Principle for Hyperbolic Scalar Problems. SIAM Journal on Numerical Analysis, 2013, 51, 467-490.	2.3	3
41	The Multidimensional Optimal Order Detection method in the three-dimensional case: very high-order finite volume method for hyperbolic systems. International Journal for Numerical Methods in Fluids, 2013, 73, 362-392.	1.6	96
42	A sixth-order finite volume method for multidomain convection-diffusion problem with discontinuous coefficients. Computer Methods in Applied Mechanics and Engineering, 2013, 267, 43-64.	6.6	32
43	Multi-dimensional modelling of electrostatic forces between atomic force microscopy tip and dielectric surface. , 2013, , .		1
44	Modelling electroluminescence in insulating polymers under ac stress: effect of voltage offset and pre-stressing. Journal Physics D: Applied Physics, 2012, 45, 325303.	2.8	6
45	Improved detection criteria for the Multi-dimensional Optimal Order Detection (MOOD) on unstructured meshes with very high-order polynomials. Computers and Fluids, 2012, 64, 43-63.	2.5	137
46	Unsteady compressible flow in ducts with varying cross-section: Comparison between the nonconservative Euler system and the axisymmetric flow model. Computers and Fluids, 2012, 53, 53-78.	2.5	16
47	Correction to "Porous Filter Optimization to Improve the Safety of the Medium-Voltage Electrical Installations During an Internal Arc Fault"[Oct 10 2464-2471]. IEEE Transactions on Power Delivery, 2011, 26, 486-487.	4.3	0
48	A high-order finite volume method for systems of conservation laws Multi-dimensional Optimal Order Detection (MOOD). Journal of Computational Physics, 2011, 230, 4028-4050.	3.8	480
49	Numerical simulation of the porous filter properties for the internal arc mollifying effects. Electric Power Systems Research, 2011, 81, 66-73.	3.6	1
50	Multi-dimensional Optimal Order Detection (MOOD) a Very High-Order Finite Volume Scheme for Conservation Laws on Unstructured Meshes. Springer Proceedings in Mathematics, 2011, , 263-271.	0.5	3
51	Transport coefficients in thermal plasma. Applications to Mars and Titan atmospheres. European Physical Journal D, 2010, 57, 227-234.	1.3	36
52	L ² stability of the MUSCL methods. Numerische Mathematik, 2010, 116, 31-64.	1.9	16
53	Monoslope and multislope MUSCL methods for unstructured meshes. Journal of Computational Physics, 2010, 229, 3745-3776.	3.8	70
54	A multislope MUSCL method on unstructured meshes applied to compressible Euler equations for axisymmetric swirling flows. Journal of Computational Physics, 2010, 229, 4884-4906.	3.8	29

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55	Porous Filter Optimization to Improve the Safety of the Medium-Voltage Electrical Installations During an Internal Arc Fault. IEEE Transactions on Power Delivery, 2010, 25, 2464-2471.	4.3	9
56	CATHODE SPOT EMERGENCE ON COPPER AND CHROMIUM ALLOY USED IN VACUUM BREAKERS. High Temperature Material Processes, 2010, 14, 271-284.	0.6	0
57	First- and second-order finite volume methods for the one-dimensional nonconservative Euler system. Journal of Computational Physics, 2009, 228, 8214-8248.	3.8	29
58	Numerical Investigations on the Pressure Wave Absorption and the Gas Cooling Interacting in a Porous Filter, During an Internal arc Fault in a Medium-Voltage Cell. IEEE Transactions on Power Delivery, 2008, 23, 203-212.	4.3	12
59	Two-dimensional modelling of internal arc effects in an enclosed MV cell provided with a protection porous filter. Journal Physics D: Applied Physics, 2007, 40, 3137-3144.	2.8	6
60	Sedimentary responses to the Pleistocene climatic variations recorded in the South China Sea. Quaternary Research, 2007, 68, 162-172.	1.7	81
61	Two-dimensional computation of gas flow in a porous bed characterized by a porosity jump. Journal of Computational Physics, 2006, 219, 104-119.	3.8	11
62	A THEORETICAL EVOLUTION ANALYSIS OF THE DIFFERENT ANODE AND CATHODE ELECTRIC ARC MATERIALS. High Temperature Material Processes, 2006, 10, 1-24.	0.6	0
63	Local heat transfer of compressible fluid in porous media: application to the HBC fuse. International Journal of Heat and Fluid Flow, 2005, 26, 322-333.	2.4	10
64	Numerical solution of the free boundary Bernoulli problem using a level set formulation. Computer Methods in Applied Mechanics and Engineering, 2005, 194, 3934-3948.	6.6	32
65	Capillarityâ€“dissolution system for a two-dimensional geometry. Journal of Colloid and Interface Science, 2005, 292, 517-536.	9.4	0
66	Numerical scheme to complete a compressible gas flow in variable porosity media. International Journal of Computational Fluid Dynamics, 2005, 19, 299-309.	1.2	12
67	A comparative study of the behaviour of silver, copper and nickel submitted to a constant high power flux density. EPJ Applied Physics, 2005, 31, 45-51.	0.7	3
68	Mathematical model and simulation of gas flow through a porous medium in high breaking capacity fuses. International Journal of Heat and Fluid Flow, 2004, 25, 115-126.	2.4	18
69	Chemical attack simulations using a level set formulation. Computational Materials Science, 2004, 29, 76-88.	3.0	0
70	Numerical Simulation of Darcy and Forchheimer Force Distribution in a HBC Fuse. Transport in Porous Media, 2003, 53, 25-37.	2.6	8
71	The modelling of the cathode sheath of an electrical arc in vacuum. Journal Physics D: Applied Physics, 2003, 36, 1495-1503.	2.8	13
72	Numerical modelling of thermal ablation phenomena due to a cathodic spot. Journal Physics D: Applied Physics, 2000, 33, 2079-2086.	2.8	22

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73	Chemical Attack in Free Boundary Domains. Journal of Applied Analysis, 1999, 5, 35-58.	0.5	2
74	Numerical modeling in induction heating for axisymmetric geometries. IEEE Transactions on Magnetics, 1997, 33, 739-745.	2.1	110
75	Solution of a two-dimensional stationary induction heating problem without boundedness of the coefficients. ESAIM: Mathematical Modelling and Numerical Analysis, 1997, 31, 845-870.	1.9	28
76	A Two-dimensional Stationary Induction Heating Problem. Mathematical Methods in the Applied Sciences, 1997, 20, 759-766.	2.3	17
77	FINITE ELEMENT APPROXIMATIONS FOR THE LAPLACE OPERATOR WITH A RIGHT-HAND SIDE MEASURE. Mathematical Models and Methods in Applied Sciences, 1996, 06, 713-719.	3.3	5
78	Numerical modelling of induction heating of long workpieces. IEEE Transactions on Magnetics, 1994, 30, 5028-5037.	2.1	46
79	NUMERICAL MODELING OF INDUCTION HEATING FOR TWO-DIMENSIONAL GEOMETRIES. Mathematical Models and Methods in Applied Sciences, 1993, 03, 805-822.	3.3	74
80	Theoretical elements about cathode arc root. , 0, , .		0
81	Influence of the material nature (Ag, Cu, Al, W, C) on the arc root characteristics at the cathode. , 0, , .		0
82	A Posteriori Stabilized Sixth-Order Finite Volume Scheme with Adaptive Stencil Construction: Basics for the 1D Steady-State Hyperbolic Equations. Communications on Applied Mathematics and Computation, 0, , 1.	1.7	1