

Alfredo Bermãºdez de Castro

List of Publications by Year in descending order

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163
papers

3,477
citations

186265

28
h-index

155660

55
g-index

177
all docs

177
docs citations

177
times ranked

1758
citing authors

#	ARTICLE	IF	CITATIONS
1	Numerical Solution of an Axisymmetric Eddy Current Model with Current and Voltage Excitations. Journal of Scientific Computing, 2022, 91, 1.	2.3	0
2	Numerical simulation of gas composition tracking in a gas transportation network. Energy, 2022, 247, 123459.	8.8	4
3	Kalman filter and classical Preisach hysteresis model applied to the state of charge battery estimation. Computers and Mathematics With Applications, 2022, 118, 74-84.	2.7	7
4	Modelling compressors, resistors and valves in finite element simulation of gas transmission networks. Applied Mathematical Modelling, 2021, 89, 1316-1340.	4.2	4
5	Upwind finite element-PML approximation of a novel linear potential model for free surface flows produced by a floating rigid body. Applied Mathematical Modelling, 2021, 103, 824-824.	4.2	2
6	Mathematical analysis and numerical solution of models with dynamic Preisach hysteresis. Journal of Computational and Applied Mathematics, 2020, 367, 112452.	2.0	9
7	A novel numerical method for accelerating the computation of the steady-state in induction machines. Computers and Mathematics With Applications, 2020, 79, 274-292.	2.7	7
8	Numerical analysis of a penalty approach for the solution of a transient eddy current problem. Computers and Mathematics With Applications, 2020, 79, 2503-2526.	2.7	0
9	A staggered semi-implicit hybrid FV/FE projection method for weakly compressible flows. Journal of Computational Physics, 2020, 421, 109743.	3.8	36
10	Non-Eulerian Newmark Methods: A Powerful Tool for Free-Boundary Continuum Mechanics Problems. Journal of Scientific Computing, 2020, 83, 1.	2.3	1
11	Contributions to the Mathematical Technology Transfer with Finite Volume Methods. , 2020, , 21-27.		0
12	Finite element solution of isothermal gas flow in a network. Journal of Computational Physics, 2019, 396, 616-652.	3.8	6
13	Finite element solution of a new formulation for gas flow in a pipe with source terms. Journal of Natural Gas Science and Engineering, 2019, 61, 237-250.	4.4	8
14	Reprint of: Finite volume methods for multi-component Euler equations with source terms. Computers and Fluids, 2018, 169, 40-61.	2.5	1
15	Mathematical and numerical analysis of a transient magnetic model with voltage drop excitations. Computers and Mathematics With Applications, 2018, 76, 2710-2727.	2.7	3
16	A Second-Order Linear Newmark Method for Lagrangian Navier-Stokes Equations. SEMA SIMAI Springer Series, 2018, , 33-59.	0.7	1
17	Electromagnetic computations with Preisach hysteresis model. Finite Elements in Analysis and Design, 2017, 126, 65-74.	3.2	14
18	Existence of solution to a model for gas transportation networks on non-flat topography. Nonlinear Analysis: Real World Applications, 2017, 37, 71-93.	1.7	5

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19	Adjoint method for parameter identification problems in models of stirred tank chemical reactors. <i>Chemical Engineering Research and Design</i> , 2017, 123, 214-229.	5.6	7
20	Treating network junctions in finite volume solution of transient gas flow models. <i>Journal of Computational Physics</i> , 2017, 344, 187-209.	3.8	19
21	Extended Formulas to Compute Resultant and Contact Electromagnetic Force and Torque From Maxwell Stress Tensors. <i>IEEE Transactions on Magnetics</i> , 2017, 53, 1-9.	2.1	19
22	Identification problem in plug-flow chemical reactors using the adjoint method. <i>Computers and Chemical Engineering</i> , 2017, 98, 80-88.	3.8	4
23	Numerical Simulation of Magnetization and Demagnetization Processes. <i>IEEE Transactions on Magnetics</i> , 2017, 53, 1-6.	2.1	5
24	Finite volume methods for multi-component Euler equations with source terms. <i>Computers and Fluids</i> , 2017, 156, 113-134.	2.5	16
25	Analysis of an ungauged $\nabla \cdot \mathbf{T}$, $\nabla \cdot \mathbf{j}$ formulation of the eddy current problem with currents and voltage excitations. <i>ESAIM: Mathematical Modelling and Numerical Analysis</i> , 2017, 51, 2487-2509.	1.9	6
26	A Projection Hybrid Finite Volume-ADER/Finite Element Method for Turbulent Navier-Stokes. <i>SEMA SIMAI Springer Series</i> , 2017, , 201-206.	0.7	0
27	A Two-Step Model Identification for Stirred Tank Reactors: Incremental and Integral Methods. <i>SEMA SIMAI Springer Series</i> , 2017, , 213-220.	0.7	0
28	Numerical solution of non-isothermal non-adiabatic flow of real gases in pipelines. <i>Journal of Computational Physics</i> , 2016, 323, 126-148.	3.8	23
29	A transient eddy current problem on a moving domain. Numerical analysis. <i>Advances in Computational Mathematics</i> , 2016, 42, 757-789.	1.6	7
30	Gas transmission networks in Europe: Connections between different entry-exit tariff methodologies. <i>Applied Energy</i> , 2016, 177, 839-851.	10.1	4
31	Analysis of a $\nabla \cdot \mathbf{j}$ Formulation of the Eddy Current Problem Based on Edge Finite Elements. <i>Lecture Notes in Computational Science and Engineering</i> , 2016, , 547-555.	0.3	0
32	Second-Order Pure Lagrange-Galerkin Methods for Fluid-Structure Interaction Problems. <i>SIAM Journal of Scientific Computing</i> , 2015, 37, B744-B777.	2.8	3
33	Simulation and Optimization Models of Steady-state Gas Transmission Networks. <i>Energy Procedia</i> , 2015, 64, 130-139.	1.8	24
34	Numerical analysis of a transient non-linear axisymmetric eddy current model. <i>Computers and Mathematics With Applications</i> , 2015, 70, 1984-2005.	2.7	8
35	Pure Lagrangian and semi-Lagrangian finite element methods for the numerical solution of Navier-Stokes equations. <i>Applied Numerical Mathematics</i> , 2015, 95, 62-81.	2.1	14
36	A projection hybrid finite volume/element method for low-Mach number flows. <i>Journal of Computational Physics</i> , 2014, 271, 360-378.	3.8	29

#	ARTICLE	IF	CITATIONS
37	Mathematical Models and Numerical Simulation in Electromagnetism. Unitext, 2014, , .	0.1	12
38	Magnetostatics with MaxFEM. Unitext, 2014, , 307-323.	0.1	1
39	Maxwell's equations in free space. Unitext, 2014, , 53-65.	0.1	0
40	Eddy currents with MaxFEM. Unitext, 2014, , 325-345.	0.1	0
41	Linear electrical circuits. Unitext, 2014, , 33-49.	0.1	0
42	Maxwell's equations in material regions. Unitext, 2014, , 77-113.	0.1	0
43	An introduction to nonlinear magnetics. Hysteresis. Unitext, 2014, , 217-240.	0.1	1
44	Magnetostatics. Unitext, 2014, , 151-182.	0.1	0
45	The series RLC circuit. Unitext, 2014, , 21-32.	0.1	0
46	Gas transport networks: Entry's exit tariffs via least squares methodology. Energy Policy, 2013, 63, 252-260.	8.8	6
47	An eddy current problem in terms of a time-primitive of the electric field with non-local source conditions. ESAIM: Mathematical Modelling and Numerical Analysis, 2013, 47, 875-902.	1.9	8
48	Existence of a solution for a thermoelectric model with several phase changes and a Carathéodory thermal conductivity. Nonlinear Analysis: Real World Applications, 2013, 14, 2212-2230.	1.7	2
49	Finite element approximation of nonlinear transient magnetic problems involving periodic potential drop excitations. Computers and Mathematics With Applications, 2013, 65, 1200-1219.	2.7	6
50	A Transient Eddy Current Problem on a Moving Domain. Mathematical Analysis. SIAM Journal on Mathematical Analysis, 2013, 45, 3629-3650.	1.9	7
51	NUMERICAL SOLUTION OF A TRANSIENT NONLINEAR AXISYMMETRIC EDDY CURRENT MODEL WITH NONLOCAL BOUNDARY CONDITIONS. Mathematical Models and Methods in Applied Sciences, 2013, 23, 2495-2521.	3.3	7
52	The Galerkin Lumped Parameter Method for Thermal Problems. , 2012, , .		0
53	Numerical solution of transient eddy current problems with input current intensities as boundary data. IMA Journal of Numerical Analysis, 2012, 32, 1001-1029.	2.9	8
54	Numerical Analysis of a Second Order Pure Lagrange-Galerkin Method for Convection-Diffusion Problems. Part II: Fully Discretized Scheme and Numerical Results. SIAM Journal on Numerical Analysis, 2012, 50, 2824-2844.	2.3	7

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55	Numerical Analysis of a Second order Pure Lagrange Galerkin Method for Convection-Diffusion Problems. Part I: Time Discretization. SIAM Journal on Numerical Analysis, 2012, 50, 858-882.	2.3	9
56	Mathematical modeling in chemistry. Application to water quality problems. Applied Numerical Mathematics, 2012, 62, 305-327.	2.1	2
57	Numerical analysis of a transient eddy current axisymmetric problem involving velocity terms. Numerical Methods for Partial Differential Equations, 2012, 28, 984-1012.	3.6	9
58	Numerical simulation of a pulverized coal jet. , 2012, , 371-377.		0
59	A fictitious domain method for the numerical two-dimensional simulation of potential flows past sails. ESAIM: Mathematical Modelling and Numerical Analysis, 2011, 45, 1033-1058.	1.9	0
60	Some experiences in industrial mathematics. International Journal of Mathematical Modelling and Numerical Optimisation, 2011, 2, 231.	0.2	0
61	Numerical simulation of group combustion of pulverized coal. Combustion and Flame, 2011, 158, 1852-1865.	5.2	37
62	Galerkin lumped parameter methods for transient problems. International Journal for Numerical Methods in Engineering, 2011, 87, 943-961.	2.8	4
63	A second order characteristics finite element scheme for natural convection problems. Journal of Computational and Applied Mathematics, 2011, 235, 3270-3284.	2.0	33
64	A thermo-electrical problem with a nonlocal radiation boundary condition. Mathematical and Computer Modelling, 2011, 53, 63-80.	2.0	4
65	Perfectly Matched Layers for Time-Harmonic Second Order Elliptic Problems. Archives of Computational Methods in Engineering, 2010, 17, 77-107.	10.2	47
66	Correction to "Eddy-Current Losses in Laminated Cores and the Computation of an Equivalent Conductivity" [Dec 08 4730-4738. IEEE Transactions on Magnetics, 2010, 46, 155-155.	2.1	2
67	Analysis of two stationary magnetohydrodynamics systems of equations including Joule heating. Journal of Mathematical Analysis and Applications, 2010, 368, 444-468.	1.0	32
68	Numerical simulation of passive active cells with microperforated plates or porous veils. Journal of Sound and Vibration, 2010, 329, 3233-3246.	3.9	0
69	Equivalence between two finite element methods for the eddy current problem. Comptes Rendus Mathematique, 2010, 348, 769-774.	0.3	4
70	Numerical analysis of a finite-element method for the axisymmetric eddy current model of an induction furnace. IMA Journal of Numerical Analysis, 2010, 30, 654-676.	2.9	19
71	Numerical simulation of a thermo-electromagneto-hydrodynamic problem in an induction heating furnace. Applied Numerical Mathematics, 2009, 59, 2082-2104.	2.1	41
72	A Finite Element Method for the Magnetostatic Problem in Terms of Scalar Potentials. SIAM Journal on Numerical Analysis, 2008, 46, 1338-1363.	2.3	71

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73	Eddy-Current Losses in Laminated Cores and the Computation of an Equivalent Conductivity. IEEE Transactions on Magnetics, 2008, 44, 4730-4738.	2.1	45
74	An Exact Bounded Perfectly Matched Layer for Time-Harmonic Scattering Problems. SIAM Journal of Scientific Computing, 2008, 30, 312-338.	2.8	45
75	Mathematical Modelling of Coal Particles Combustion in Pulverised Coal Furnaces. Mathematics in Industry, 2008, , 277-283.	0.3	1
76	Fluid-Structure Acoustic Interaction. , 2008, , 253-286.		7
77	Water Quality Simulation of a Future Pit Lake. Mathematics in Industry, 2008, , 790-794.	0.3	0
78	VALIDATION OF ACOUSTIC MODELS FOR TIME-HARMONIC DISSIPATIVE SCATTERING PROBLEMS. Journal of Computational Acoustics, 2007, 15, 95-121.	1.0	11
79	A finite element method for the eddy current problem in terms of the current density. Application to nondestructive testing. , 2007, , .		0
80	The modelling of the generation of volatiles, H ₂ and CO, and their simultaneous diffusion controlled oxidation, in pulverized coal furnaces. Combustion Theory and Modelling, 2007, 11, 949-976.	1.9	9
81	A FEM/BEM for axisymmetric electromagnetic and thermal modelling of induction furnaces. International Journal for Numerical Methods in Engineering, 2007, 71, 856-878.	2.8	23
82	Electromagnetic and thermal modelling of axisymmetric induction furnaces. Proceedings in Applied Mathematics and Mechanics, 2007, 7, 2150017-2150018.	0.2	0
83	Transient numerical simulation of a thermoelectrical problem in cylindrical induction heating furnaces. Advances in Computational Mathematics, 2007, 26, 39-62.	1.6	37
84	An optimal perfectly matched layer with unbounded absorbing function for time-harmonic acoustic scattering problems. Journal of Computational Physics, 2007, 223, 469-488.	3.8	171
85	Numerical Analysis of Convection-Diffusion-Reaction Problems with Higher Order Characteristics/Finite Elements. Part I: Time Discretization. SIAM Journal on Numerical Analysis, 2006, 44, 1829-1853.	2.3	54
86	Numerical Analysis of Convection-Diffusion-Reaction Problems with Higher Order Characteristics/Finite Elements. Part II: Fully Discretized Scheme and Quadrature Formulas. SIAM Journal on Numerical Analysis, 2006, 44, 1854-1876.	2.3	55
87	TWO DISCRETIZATION SCHEMES FOR A TIME-DOMAIN DISSIPATIVE ACOUSTICS PROBLEM. Mathematical Models and Methods in Applied Sciences, 2006, 16, 1559-1598.	3.3	3
88	Finite element solution of new displacement/pressure poroelastic models in acoustics. Computer Methods in Applied Mechanics and Engineering, 2006, 195, 1914-1932.	6.6	10
89	Numerical modelling of a transient conductive-radiative thermal problem arising in silicon purification. Finite Elements in Analysis and Design, 2006, 42, 809-820.	3.2	4
90	Numerical solution of variational inequalities for pricing Asian options by higher order Lagrange-Galerkin methods. Applied Numerical Mathematics, 2006, 56, 1256-1270.	2.1	27

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91	An existence result for a two-phase Stefan problem arising in metal casting. <i>Mathematical Methods in the Applied Sciences</i> , 2006, 29, 325-350.	2.3	2
92	Approximation of a structural acoustic vibration problem by hexahedral finite elements. <i>IMA Journal of Numerical Analysis</i> , 2006, 26, 391-421.	2.9	21
93	THEORETICAL AND NUMERICAL STUDY OF AN IMPLICIT DISCRETIZATION OF A 1D INVISCID MODEL FOR RIVER FLOWS. <i>Mathematical Models and Methods in Applied Sciences</i> , 2006, 16, 375-395.	3.3	9
94	Comparison of Two Algorithms to Solve the Fixed-strike Amerasian Options Pricing Problem. <i>International Series of Numerical Mathematics</i> , 2006, , 95-106.	1.1	2
95	Numerical solution of eddy current problems in bounded domains using realistic boundary conditions. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2005, 194, 411-426.	6.6	25
96	Approximation properties of lowest-order hexahedral Raviart-Thomas finite elements. <i>Comptes Rendus Mathematique</i> , 2005, 340, 687-692.	0.3	11
97	A finite element solution of acoustic propagation in rigid porous media. <i>International Journal for Numerical Methods in Engineering</i> , 2005, 62, 1295-1314.	2.8	8
98	Numerical analysis of electric field formulations of the eddy current model. <i>Numerische Mathematik</i> , 2005, 102, 181-201.	1.9	10
99	A nonlinear partial differential system arising in thermoelectricity. <i>European Journal of Applied Mathematics</i> , 2005, 16, 683-712.	2.9	3
100	Radiative Heat Transfer in Silicon Purification. , 2005, , 33-42.		0
101	Numerical treatment of realistic boundary conditions for the eddy current problem in an electrode via Lagrange multipliers. <i>Mathematics of Computation</i> , 2004, 74, 123-152.	2.1	12
102	Finite Element Methods in Local Active Control of Sound. <i>SIAM Journal on Control and Optimization</i> , 2004, 43, 437-465.	2.1	31
103	Numerical Analysis of Finite Element Methods for Eddy Current Problems. <i>Applications to Electrode Simulation.</i> , 2004, , 3-19.		0
104	Numerical solution of a three-dimensional solidification problem in aluminium casting. <i>Finite Elements in Analysis and Design</i> , 2004, 40, 1885-1906.	3.2	15
105	An exact bounded PML for the Helmholtz equation. <i>Comptes Rendus Mathematique</i> , 2004, 339, 803-808.	0.3	27
106	Mathematical modelling and optimal control methods in waste water discharges. , 2004, , 3-15.		1
107	Asymptotic approximation and numerical simulation of electromagnetic casting. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2003, 34, 83-91.	2.1	20
108	Finite element analysis of pressure formulation of the elastoacoustic problem. <i>Numerische Mathematik</i> , 2003, 95, 29-51.	1.9	15

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109	Finite element computation of sloshing modes in containers with elastic baffle plates. International Journal for Numerical Methods in Engineering, 2003, 56, 447-467.	2.8	29
110	A numerical method for transient simulation of metallurgical compound electrodes. Finite Elements in Analysis and Design, 2003, 39, 283-299.	3.2	23
111	Finite element approximation of a displacement formulation for time-domain elastoacoustic vibrations. Journal of Computational and Applied Mathematics, 2003, 152, 17-34.	2.0	19
112	Numerical simulation of some problems related to aluminium casting. Journal of Materials Processing Technology, 2003, 142, 383-399.	6.3	16
113	Numerical analysis of the electric field formulation of an eddy current problem. Comptes Rendus Mathematique, 2003, 337, 359-364.	0.3	4
114	Computation of the vibration modes of an elastoacoustic system using a modal synthesis method. , 2003, , 1255-1258.		0
115	Some Applications of Optimal Control Theory of Distributed Systems. ESAIM - Control, Optimisation and Calculus of Variations, 2002, 8, 195-218.	1.3	14
116	A modal synthesis method for the elastoacoustic vibration problem. ESAIM: Mathematical Modelling and Numerical Analysis, 2002, 36, 121-142.	1.9	2
117	A Finite Element Method with Lagrange Multipliers for Low-Frequency Harmonic Maxwell Equations. SIAM Journal on Numerical Analysis, 2002, 40, 1823-1849.	2.3	54
118	Modeling and numerical treatment of boundary data in an eddy currents problem. Comptes Rendus Mathematique, 2002, 335, 633-638.	0.3	2
119	A Hybrid Approach for the Computation of Guided Modes in Integrated Optics. Advances in Computational Mathematics, 2002, 16, 229-261.	1.6	2
120	Analysis of a finite element method for pressure/potential formulation of elastoacoustic spectral problems. Mathematics of Computation, 2001, 71, 537-553.	2.1	13
121	Finite element computation of the vibrations of a plate-fluid system with interface damping. Computer Methods in Applied Mechanics and Engineering, 2001, 190, 3021-3038.	6.6	17
122	AN HEXAHEDRAL FACE ELEMENT METHOD FOR THE DISPLACEMENT FORMULATION OF STRUCTURAL ACOUSTICS PROBLEMS. Journal of Computational Acoustics, 2001, 09, 911-918.	1.0	2
123	A hexahedral face element for elastoacoustic vibration problems. Journal of the Acoustical Society of America, 2001, 109, 422-425.	1.1	6
124	Finite element analysis of a pressure/potential formulation for structural-acoustic problems. , 2001, , 1077-1080.		0
125	A domain decomposition/finite element method for the numerical simulation of electrolytic cells. Computer Methods in Applied Mechanics and Engineering, 2000, 188, 391-412.	6.6	1
126	A finite element solution of an added mass formulation for coupled fluid-solid vibrations. Numerische Mathematik, 2000, 87, 201-227.	1.9	65

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127	Finite Element Analysis of a Quadratic Eigenvalue Problem Arising in Dissipative Acoustics. SIAM Journal on Numerical Analysis, 2000, 38, 267-291.	2.3	35
128	Finite Element Methods for Fluid-Structure Vibration Problems. , 2000, , 195-204.		0
129	Existence of solution of a coupled problem arising in the thermoelectrical simulation of electrodes. Quarterly of Applied Mathematics, 1999, 57, 621-636.	0.7	7
130	NUMERICAL SOLUTION OF A FREE BOUNDARY PROBLEM TAKING PLACE IN AN ELECTROMAGNETIC CASTING. Mathematical Models and Methods in Applied Sciences, 1999, 09, 1393-1416.	3.3	9
131	FINITE ELEMENT COMPUTATION OF THREE-DIMENSIONAL ELASTOACOUSTIC VIBRATIONS. Journal of Sound and Vibration, 1999, 219, 279-306.	3.9	53
132	Numerical computation of the electromagnetic field in the electrodes of a three-phase arc furnace. International Journal for Numerical Methods in Engineering, 1999, 46, 649-658.	2.8	9
133	Modelling and numerical solution of elastoacoustic vibrations with interface damping. International Journal for Numerical Methods in Engineering, 1999, 46, 1763-1779.	2.8	22
134	Finite element analysis of sloshing and hydroelastic vibrations under gravity. ESAIM: Mathematical Modelling and Numerical Analysis, 1999, 33, 305-327.	1.9	12
135	Existence of solution for a free boundary problem in a nonlinear piecewise homogeneous medium. Annales De L'Institut Henri Poincare (C) Analyse Non Lineaire, 1998, 15, 399-430.	1.4	2
136	A finite element method for the thermoelectrical modelling of electrodes. Communications in Numerical Methods in Engineering, 1998, 14, 581-593.	1.3	21
137	Upwind schemes for the two-dimensional shallow water equations with variable depth using unstructured meshes. Computer Methods in Applied Mechanics and Engineering, 1998, 155, 49-72.	6.6	159
138	Numerical solution of a nonlocal problem arising in plasma physics. Mathematical and Computer Modelling, 1998, 27, 45-59.	2.0	4
139	Finite element analysis of compressible and incompressible fluid-solid systems. Mathematics of Computation, 1998, 67, 111-136.	2.1	35
140	FINITE ELEMENT SOLUTION OF INCOMPRESSIBLE FLUID-STRUCTURE VIBRATION PROBLEMS. International Journal for Numerical Methods in Engineering, 1997, 40, 1435-1448.	2.8	34
141	Mathematical modelling and optimal control methods in water pollution. , 1997, , 3-37.		1
142	Existence and Uniqueness for a Free Boundary Problem in Aluminum Electrolysis. Journal of Mathematical Analysis and Applications, 1995, 191, 497-527.	1.0	8
143	Finite Element Vibration Analysis of Fluid-Solid Systems without Spurious Modes. SIAM Journal on Numerical Analysis, 1995, 32, 1280-1295.	2.3	93
144	A state constrained optimal control problem related to the sterilization of canned foods. Automatica, 1994, 30, 319-329.	5.0	11

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145	Finite element computation of the vibration modes of a fluid–solid system. <i>Computer Methods in Applied Mechanics and Engineering</i> , 1994, 119, 355-370.	6.6	110
146	Upwind methods for hyperbolic conservation laws with source terms. <i>Computers and Fluids</i> , 1994, 23, 1049-1071.	2.5	828
147	Numerical solution of a three-dimensional thermoelectric problem taking place in an aluminium electrolytic cell. <i>Computer Methods in Applied Mechanics and Engineering</i> , 1993, 106, 129-142.	6.6	15
148	Flux-Vector and Flux-Difference Splitting Methods for the Shallow Water Equations in a Domain with Variable Depth. , 1992, , 255-267.		1
149	Solving Shallow Water Equations by a Mixed Implicit Finite Element Method. <i>IMA Journal of Numerical Analysis</i> , 1991, 11, 79-97.	2.9	51
150	Numerical solution of cavitation problems in lubrication. <i>Computer Methods in Applied Mechanics and Engineering</i> , 1989, 75, 457-466.	6.6	13
151	An upwind method for solving transport-diffusion-reaction systems. <i>International Journal for Numerical Methods in Engineering</i> , 1989, 28, 2021-2039.	2.8	9
152	Numerical solution of steady-state flow through a porous dam. <i>Computer Methods in Applied Mechanics and Engineering</i> , 1988, 68, 55-65.	6.6	8
153	Application of Characteristics Method with Variable Time-Step to Steady-State Convection-Diffusion Problems. <i>North-Holland Mathematics Studies</i> , 1987, 133, 377-386.	0.2	2
154	Optimal Control of a Signorini Problem. <i>SIAM Journal on Control and Optimization</i> , 1987, 25, 576-582.	2.1	37
155	La méthode des caractéristiques pour les problèmes de convection-diffusion stationnaires. <i>ESAIM: Mathematical Modelling and Numerical Analysis</i> , 1987, 21, 7-26.	1.9	24
156	Solving unilateral problems for beams by finite element methods. <i>Computer Methods in Applied Mechanics and Engineering</i> , 1986, 54, 67-73.	6.6	7
157	Étude de deux schémas numériques pour les équations de la thermoélasticité. <i>ESAIM: Mathematical Modelling and Numerical Analysis</i> , 1983, 17, 121-136.	0.5	5
158	A Mixed Method for the Elastoplastic Torsion Problem. <i>IMA Journal of Numerical Analysis</i> , 1982, 2, 325-334.	2.9	3
159	Modelisation et simulation d'un alliage a n composants. , 1982, , 147-160.		1
160	Some numerical methods in elastoplasticity. <i>Calcolo</i> , 1982, 19, 335-353.	1.1	2
161	Duality methods for solving variational inequalities. <i>Computers and Mathematics With Applications</i> , 1981, 7, 43-58.	2.7	177
162	Perfectly Matched Layers. , 0, , 167-196.		9

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163	Preisach Hysteresis Model. Some Applications in Electrical Engineering. , 0, , .		0