

J Manuel Cascon

List of Publications by Year in descending order

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37
papers

798
citations

686830

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h-index

500791

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g-index

37
all docs

37
docs citations

37
times ranked

432
citing authors

#	ARTICLE	IF	CITATIONS
1	Quasi-Optimal Convergence Rate for an Adaptive Finite Element Method. SIAM Journal on Numerical Analysis, 2008, 46, 2524-2550.	1.1	363
2	A new approach to solid modeling with trivariate T-splines based on mesh optimization. Computer Methods in Applied Mechanics and Engineering, 2011, 200, 3210-3222.	3.4	77
3	An automatic strategy for adaptive tetrahedral mesh generation. Applied Numerical Mathematics, 2009, 59, 2203-2217.	1.2	37
4	Quasioptimal cardinality of AFEM driven by nonresidual estimators. IMA Journal of Numerical Analysis, 2012, 32, 1-29.	1.5	28
5	DESIGN AND CONVERGENCE OF AFEM IN H(DIV). Mathematical Models and Methods in Applied Sciences, 2007, 17, 1849-1881.	1.7	26
6	On measures of cohesiveness under dichotomous opinions: Some characterizations of approval consensus measures. Information Sciences, 2013, 240, 45-55.	4.0	22
7	A GIS-based fire spread simulator integrating a simplified physical wildland fire model and a wind field model. International Journal of Geographical Information Science, 2017, 31, 2142-2163.	2.2	20
8	Space-Time adaptive algorithm for the mixed parabolic problem. Numerische Mathematik, 2006, 103, 367-392.	0.9	18
9	Augmented mixed finite element method for the Oseen problem: A priori and a posteriori error analyses. Computer Methods in Applied Mechanics and Engineering, 2017, 313, 216-238.	3.4	18
10	A priori and a posteriori error analysis for a large-scale ocean circulation finite element model. Computer Methods in Applied Mechanics and Engineering, 2003, 192, 5305-5327.	3.4	15
11	A unifying model to measure consensus solutions in a society. Mathematical and Computer Modelling, 2013, 57, 1876-1883.	2.0	14
12	Sensitivity analysis and parameter adjustment in a simplified physical wildland fire model. Advances in Engineering Software, 2015, 90, 98-106.	1.8	14
13	A posteriori error analysis of an augmented mixed finite element method for Darcy flow. Computer Methods in Applied Mechanics and Engineering, 2015, 283, 909-922.	3.4	14
14	A Wildland Fire Physical Model Well Suited to Data Assimilation. Pure and Applied Geophysics, 2015, 172, 121-139.	0.8	13
15	High-Order AFEM for the Laplace's Beltrami Operator: Convergence Rates. Foundations of Computational Mathematics, 2016, 16, 1473-1539.	1.5	13
16	The meccano method for isogeometric solid modeling and applications. Engineering With Computers, 2014, 30, 331-343.	3.5	12
17	A new method for T-spline parameterization of complex 2D geometries. Engineering With Computers, 2014, 30, 457-473.	3.5	11
18	Wind Forecasting Based on the HARMONIE Model and Adaptive Finite Elements. Pure and Applied Geophysics, 2015, 172, 109-120.	0.8	11

#	ARTICLE	IF	CITATIONS
19	The Meccano Method for Automatic Tetrahedral Mesh Generation of Complex Genus-Zero Solids. , 2009, , 463-480.		10
20	An efficient algorithm for solving a multi-layer convectionâ€“diffusion problem applied to air pollution problems. Advances in Engineering Software, 2013, 65, 191-199.	1.8	8
21	AFEM for Geometric PDE: The Laplace-Beltrami Operator. Springer INdAM Series, 2013, , 257-306.	0.4	7
22	Pairwise Dichotomous Cohesiveness Measures. Group Decision and Negotiation, 2015, 24, 833-854.	2.0	7
23	Comparison of the meccano method with standard mesh generation techniques. Engineering With Computers, 2015, 31, 161-174.	3.5	7
24	A Simplified Wildland Fire Model Applied to a Real Case. SEMA SIMAI Springer Series, 2014, , 155-167.	0.4	5
25	The meccano method for simultaneous volume parametrization and mesh generation of complex solids. IOP Conference Series: Materials Science and Engineering, 2010, 10, 012018.	0.3	4
26	A Posteriori Error Estimation of a Stabilized Mixed Finite Element Method for Darcy Flow. Lecture Notes in Computational Science and Engineering, 2015, , 13-23.	0.1	4
27	A reduced basis for a local high definition wind model. Computer Methods in Applied Mechanics and Engineering, 2016, 311, 438-456.	3.4	4
28	A New Meccano Technique for Adaptive 3-D Triangulations. , 2008, , 103-120.		4
29	Implementation in ALBERTA of an Automatic Tetrahedral Mesh Generator. , 2006, , 325-338.		3
30	An adaptive mixed finite element method for wind field adjustment. Advances in Engineering Software, 2007, 38, 350-357.	1.8	2
31	Construction of Polynomial Spline Spaces Over Quadtree and Octree T-meshes. Procedia Engineering, 2014, 82, 21-33.	1.2	2
32	A simple strategy for defining polynomial spline spaces over hierarchical T-meshes. CAD Computer Aided Design, 2016, 72, 140-156.	1.4	2
33	On an adaptive stabilized mixed finite element method for the Oseen problem with mixed boundary conditions. Computer Methods in Applied Mechanics and Engineering, 2020, 365, 113007.	3.4	2
34	An adaptive method for the Stefan problem and its application to endoglacial conduits. Advances in Engineering Software, 2007, 38, 423-428.	1.8	1
35	Insertion of triangulated surfaces into a meccano tetrahedral discretization by means of mesh refinement and optimization procedures. International Journal for Numerical Methods in Engineering, 2018, 113, 1488-1506.	1.5	0
36	The Meccano Method for Automatic Volume Parametrization of Solids. Lecture Notes in Electrical Engineering, 2010, , 157-167.	0.3	0

#	ARTICLE	IF	CITATIONS
37	Discretization of the Region of Interest. Green Energy and Technology, 2018, , 65-85.	0.4	0