

# Sã'nia Maria Gomes

## List of Publications by Year in descending order

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26  
papers

370  
citations

840776

11  
h-index

794594

19  
g-index

26  
all docs

26  
docs citations

26  
times ranked

212  
citing authors

#	ARTICLE	IF	CITATIONS
1	An adaptive multiresolution scheme with local time stepping for evolutionary PDEs. Journal of Computational Physics, 2008, 227, 3758-3780.	3.8	80
2	Space-time adaptive multiresolution methods for hyperbolic conservation laws: Applications to compressible Euler equations. Applied Numerical Mathematics, 2009, 59, 2303-2321.	2.1	52
3	A new procedure for the construction of hierarchical high order Hdiv and Hcurl finite element spaces. Journal of Computational and Applied Mathematics, 2013, 240, 204-214.	2.0	24
4	A multiscale hybrid method for Darcy's problems using mixed finite element local solvers. Computer Methods in Applied Mechanics and Engineering, 2019, 354, 213-244.	6.6	23
5	Three dimensional hierarchical mixed finite element approximations with enhanced primal variable accuracy. Computer Methods in Applied Mechanics and Engineering, 2016, 306, 479-502.	6.6	22
6	Wavelets and adaptive grids for the discontinuous Galerkin method. Numerical Algorithms, 2005, 39, 143-154.	1.9	19
7	Implementation of continuous $\langle \mathbb{H}^1 \rangle$ -adaptive finite element spaces without limitations on hanging sides and distribution of approximation orders. Computers and Mathematics With Applications, 2015, 70, 1051-1060.	2.7	19
8	Mixed finite element approximations based on $\mathbb{H}(\text{div})$ -adaptive curved meshes with two types of $\mathbb{H}(\text{div})$ -conforming spaces. International Journal for Numerical Methods in Engineering, 2018, 113, 1045-1060.	2.8	14
9	High-order composite finite element exact sequences based on tetrahedral-hexahedral-prismatic-pyramidal partitions. Computer Methods in Applied Mechanics and Engineering, 2019, 355, 952-975.	6.6	14
10	Hierarchical high order finite element bases for $\langle \mathbb{H}^1 \rangle$ -adaptive curved meshes for two-dimensional regions or manifolds. Journal of Computational and Applied Mathematics, 2016, 301, 241-258.	2.0	13
11	Two-dimensional hp adaptive finite element spaces for mixed formulations. Mathematics and Computers in Simulation, 2016, 126, 104-122.	4.4	11
12	Two dimensional mixed finite element approximations for elliptic problems with enhanced accuracy for the potential and flux divergence. Computers and Mathematics With Applications, 2017, 74, 3283-3295.	2.7	10
13	On continuous, discontinuous, mixed, and primal hybrid finite element methods for second-order elliptic problems. International Journal for Numerical Methods in Engineering, 2018, 115, 1083-1107.	2.8	10
14	A remark concerning divergence accuracy order for $\langle \mathbb{H}^1 \rangle$ -adaptive finite element flux approximations. Computers and Mathematics With Applications, 2019, 77, 1864-1872.	2.7	9
15	Approximation in $L^2$ Sobolev spaces on the 2-sphere by quasi-interpolation. Journal of Fourier Analysis and Applications, 2001, 7, 283-295.	1.0	7
16	Error estimates for the Scaled Boundary Finite Element Method. Computer Methods in Applied Mechanics and Engineering, 2021, 379, 113765.	6.6	7
17	An object-oriented framework for multiphysics problems combining different approximation spaces. Finite Elements in Analysis and Design, 2018, 151, 34-49.	3.2	6
18	A multiscale mixed finite element method applied to the simulation of two-phase flows. Computer Methods in Applied Mechanics and Engineering, 2021, 383, 113870.	6.6	6

#	ARTICLE	IF	CITATIONS
19	A comparative numerical study of different finite element formulations for 2D model elliptic problems: Continuous and discontinuous Galerkin, mixed and hybrid methods. <i>Finite Elements in Analysis and Design</i> , 2016, 115, 9-20.	3.2	5
20	Mixed finite element approximations of a singular elliptic problem based on some anisotropic and hp-adaptive curved quarter-point elements. <i>Applied Numerical Mathematics</i> , 2020, 158, 85-102.	2.1	4
21	New $H(\text{div})$ -conforming multiscale hybrid-mixed methods for the elasticity problem on polygonal meshes. <i>ESAIM: Mathematical Modelling and Numerical Analysis</i> , 2021, 55, 1005-1037.	1.9	4
22	Grid structure impact in sparse point representation of derivatives. <i>Journal of Computational and Applied Mathematics</i> , 2010, 234, 2377-2389.	2.0	3
23	Enriched two dimensional mixed finite element models for linear elasticity with weak stress symmetry. <i>Computers and Mathematics With Applications</i> , 2020, 79, 2678-2700.	2.7	3
24	$H(\text{div})$ finite elements based on nonaffine meshes for 3D mixed formulations of flow problems with arbitrary high order accuracy of the divergence of the flux. <i>International Journal for Numerical Methods in Engineering</i> , 2020, 121, 2896-2915.	2.8	3
25	An adaptive multiresolution method on dyadic grids: Application to transport equations. <i>Journal of Computational and Applied Mathematics</i> , 2012, 236, 3636-3646.	2.0	2
26	$H(\text{div})$ -Conforming Spaces Based on General Meshes, with Interface Constraints: Accuracy Enhancement, Multiscale, and hp-Adaptivity. <i>Lecture Notes in Computational Science and Engineering</i> , 2020, , 83-95.	0.3	0