Manuel Solano

List of Publications by Year in descending order

30 papers	394 citations	759233 12 h-index	794594 19 g-index
32 all docs	32 docs citations	32 times ranked	143 citing authors

#	Article	IF	Citations
1	An HDG method for dissimilar meshes. IMA Journal of Numerical Analysis, 2022, 42, 1665-1699.	2.9	9
2	An unfitted HDG method for Oseen equations. Journal of Computational and Applied Mathematics, 2022, 399, 113721.	2.0	7
3	Error Analysis of an Unfitted HDG Method for a Class of Non-linear Elliptic Problems. Journal of Scientific Computing, 2022, 90, 1.	2.3	1
4	Analysis of an unfitted mixed finite element method for a class of quasi-Newtonian Stokes flow. Computers and Mathematics With Applications, 2022, 114, 225-243.	2.7	1
5	A dissimilar non-matching HDG discretization for Stokes flows. Computer Methods in Applied Mechanics and Engineering, 2022, 399, 115292.	6.6	1
6	Error analysis of a conforming and locking-free four-field formulation for the stationary Biotâ€™s model. ESAIM: Mathematical Modelling and Numerical Analysis, 2021, 55, S475-S506.	1.9	3
7	An asymptotic model based on matching far and near field expansions for thin gratings problems. ESAIM: Mathematical Modelling and Numerical Analysis, 2021, 55, S507-S533.	1.9	1
8	A priori and a posteriori error analyses of a high order unfitted mixed-FEM for Stokes flow. Computer Methods in Applied Mechanics and Engineering, 2020, 360, 112780.	6.6	7
9	Adaptive Hybridizable Discontinuous Galerkin discretization of the Gradâ€“Shafranov equation by extension from polygonal subdomains. Computer Physics Communications, 2020, 255, 107239.	7.5	7
10	An HDG method for Maxwellâ€™s equations in heterogeneous media. Computer Methods in Applied Mechanics and Engineering, 2020, 368, 113178.	6.6	7
11	Analysis of an adaptive HDG method for the Brinkman problem. IMA Journal of Numerical Analysis, 2019, 39, 1502-1528.	2.9	14
12	A posteriori error analysis of an HDG method for the Oseen problem. Applied Numerical Mathematics, 2019, 146, 291-308.	2.1	6
13	An anisotropic a priori error analysis for a convection-dominated diffusion problem using the HDG method. Computer Methods in Applied Mechanics and Engineering, 2019, 345, 382-401.	6.6	5
14	A High Order HDG Method for Stokes Flow in Curved Domains. Journal of Scientific Computing, 2019, 79, 1505-1533.	2.3	13
15	A High Order Mixed-FEM for Diffusion Problems on Curved Domains. Journal of Scientific Computing, 2019, 79, 49-78.	2.3	10
16	A Hybridizable Discontinuous Galerkin solver for the Gradâ€“Shafranov equation. Computer Physics Communications, 2019, 235, 120-132.	7.5	12
17	A perfectly matched layer for finite-element calculations of diffraction by metallic surface-relief gratings. Wave Motion, 2018, 78, 68-82.	2.0	7
18	Dispersion Analysis of HDG Methods. Journal of Scientific Computing, 2018, 77, 1703-1735.	2.3	6

#	Article	IF	Citations
19	A Superconvergent HDG Method for the Maxwell Equations. Journal of Scientific Computing, 2017, 70, 1010-1029.	2.3	28
20	Asymptotic model for finite-element calculations of diffraction by shallow metallic surface-relief gratings. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2017, 34, 68.	1.5	3
21	A High Order HDG Method for Curved-Interface Problems Via Approximations from Straight Triangulations. Journal of Scientific Computing, 2016, 69, 1384-1407.	2.3	21
22	Buffer layer between a planar optical concentrator and a solar cell. AIP Advances, 2015, 5, .	1.3	19
23	Adequacy of the rigorous coupled-wave approach for thin-film silicon solar cells with periodically corrugated metallic backreflectors: spectral analysis. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2015, 32, 1222.	1.5	13
24	Comparison of rigorous coupled-wave approach and finite element method for photovoltaic devices with periodically corrugated metallic backreflector. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2014, 31, 2275.	1.5	17
25	Solving Convection-Diffusion Problems on Curved Domains by Extensions from Subdomains. Journal of Scientific Computing, 2014, 59, 512-543.	2.3	27
26	A priori error analysis for HDG methods using extensions from subdomains to achieve boundary conformity. Mathematics of Computation, 2013, 83, 665-699.	2.1	39
27	Optimization of the absorption efficiency of an amorphous-silicon thin-film tandem solar cell backed by a metallic surface-relief grating. Applied Optics, 2013, 52, 966.	1.8	36
28	Periodically multilayered planar optical concentrator for photovoltaic solar cells. Applied Physics Letters, 2013, 103, .	3.3	15
29	Coupling at a Distance HDG and BEM. SIAM Journal of Scientific Computing, 2012, 34, A28-A47.	2.8	14
30	Solving Dirichlet Boundary-value Problems on Curved Domains by Extensions from Subdomains. SIAM Journal of Scientific Computing, 2012, 34, A497-A519.	2.8	38