

Manuel Solano

List of Publications by Year in descending order

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papers

394
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759233

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32
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32
times ranked

143
citing authors

#	ARTICLE	IF	CITATIONS
1	A priori error analysis for HDG methods using extensions from subdomains to achieve boundary conformity. <i>Mathematics of Computation</i> , 2013, 83, 665-699.	2.1	39
2	Solving Dirichlet Boundary-value Problems on Curved Domains by Extensions from Subdomains. <i>SIAM Journal of Scientific Computing</i> , 2012, 34, A497-A519.	2.8	38
3	Optimization of the absorption efficiency of an amorphous-silicon thin-film tandem solar cell backed by a metallic surface-relief grating. <i>Applied Optics</i> , 2013, 52, 966.	1.8	36
4	A Superconvergent HDG Method for the Maxwell Equations. <i>Journal of Scientific Computing</i> , 2017, 70, 1010-1029.	2.3	28
5	Solving Convection-Diffusion Problems on Curved Domains by Extensions from Subdomains. <i>Journal of Scientific Computing</i> , 2014, 59, 512-543.	2.3	27
6	A High Order HDG Method for Curved-Interface Problems Via Approximations from Straight Triangulations. <i>Journal of Scientific Computing</i> , 2016, 69, 1384-1407.	2.3	21
7	Buffer layer between a planar optical concentrator and a solar cell. <i>AIP Advances</i> , 2015, 5, .	1.3	19
8	Comparison of rigorous coupled-wave approach and finite element method for photovoltaic devices with periodically corrugated metallic backreflector. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2014, 31, 2275.	1.5	17
9	Periodically multilayered planar optical concentrator for photovoltaic solar cells. <i>Applied Physics Letters</i> , 2013, 103, .	3.3	15
10	Coupling at a Distance HDG and BEM. <i>SIAM Journal of Scientific Computing</i> , 2012, 34, A28-A47.	2.8	14
11	Analysis of an adaptive HDG method for the Brinkman problem. <i>IMA Journal of Numerical Analysis</i> , 2019, 39, 1502-1528.	2.9	14
12	Adequacy of the rigorous coupled-wave approach for thin-film silicon solar cells with periodically corrugated metallic backreflectors: spectral analysis. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2015, 32, 1222.	1.5	13
13	A High Order HDG Method for Stokes Flow in Curved Domains. <i>Journal of Scientific Computing</i> , 2019, 79, 1505-1533.	2.3	13
14	A Hybridizable Discontinuous Galerkin solver for the Grad-Shafranov equation. <i>Computer Physics Communications</i> , 2019, 235, 120-132.	7.5	12
15	A High Order Mixed-FEM for Diffusion Problems on Curved Domains. <i>Journal of Scientific Computing</i> , 2019, 79, 49-78.	2.3	10
16	An HDG method for dissimilar meshes. <i>IMA Journal of Numerical Analysis</i> , 2022, 42, 1665-1699.	2.9	9
17	A perfectly matched layer for finite-element calculations of diffraction by metallic surface-relief gratings. <i>Wave Motion</i> , 2018, 78, 68-82.	2.0	7
18	A priori and a posteriori error analyses of a high order unfitted mixed-FEM for Stokes flow. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2020, 360, 112780.	6.6	7

#	ARTICLE	IF	CITATIONS
19	Adaptive Hybridizable Discontinuous Galerkin discretization of the Grad-Shafranov equation by extension from polygonal subdomains. <i>Computer Physics Communications</i> , 2020, 255, 107239.	7.5	7
20	An HDG method for Maxwell's equations in heterogeneous media. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2020, 368, 113178.	6.6	7
21	An unfitted HDG method for Oseen equations. <i>Journal of Computational and Applied Mathematics</i> , 2022, 399, 113721.	2.0	7
22	Dispersion Analysis of HDG Methods. <i>Journal of Scientific Computing</i> , 2018, 77, 1703-1735.	2.3	6
23	A posteriori error analysis of an HDG method for the Oseen problem. <i>Applied Numerical Mathematics</i> , 2019, 146, 291-308.	2.1	6
24	An anisotropic a priori error analysis for a convection-dominated diffusion problem using the HDG method. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2019, 345, 382-401.	6.6	5
25	Error analysis of a conforming and locking-free four-field formulation for the stationary Biot model. <i>ESAIM: Mathematical Modelling and Numerical Analysis</i> , 2021, 55, S475-S506.	1.9	3
26	Asymptotic model for finite-element calculations of diffraction by shallow metallic surface-relief gratings. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2017, 34, 68.	1.5	3
27	An asymptotic model based on matching far and near field expansions for thin gratings problems. <i>ESAIM: Mathematical Modelling and Numerical Analysis</i> , 2021, 55, S507-S533.	1.9	1
28	Error Analysis of an Unfitted HDG Method for a Class of Non-linear Elliptic Problems. <i>Journal of Scientific Computing</i> , 2022, 90, 1.	2.3	1
29	Analysis of an unfitted mixed finite element method for a class of quasi-Newtonian Stokes flow. <i>Computers and Mathematics With Applications</i> , 2022, 114, 225-243.	2.7	1
30	A dissimilar non-matching HDG discretization for Stokes flows. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2022, 399, 115292.	6.6	1