

Giuseppe Vacca

List of Publications by Year in descending order

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Version: 2024-02-01

22
papers

1,125
citations

567281

15
h-index

713466

21
g-index

23
all docs

23
docs citations

23
times ranked

226
citing authors

#	ARTICLE	IF	CITATIONS
1	Divergence free virtual elements for the stokes problem on polygonal meshes. ESAIM: Mathematical Modelling and Numerical Analysis, 2017, 51, 509-535.	1.9	221
2	Virtual Elements for the Navier--Stokes Problem on Polygonal Meshes. SIAM Journal on Numerical Analysis, 2018, 56, 1210-1242.	2.3	160
3	Virtual element methods for parabolic problems on polygonal meshes. Numerical Methods for Partial Differential Equations, 2015, 31, 2110-2134.	3.6	132
4	An H1-conforming virtual element for Darcy and Brinkman equations. Mathematical Models and Methods in Applied Sciences, 2018, 28, 159-194.	3.3	77
5	The Virtual Element Method with curved edges. ESAIM: Mathematical Modelling and Numerical Analysis, 2019, 53, 375-404.	1.9	76
6	Virtual Element Methods for hyperbolic problems on polygonal meshes. Computers and Mathematics With Applications, 2017, 74, 882-898.	2.7	62
7	Virtual element method for second-order elliptic eigenvalue problems. IMA Journal of Numerical Analysis, 2018, 38, 2026-2054.	2.9	47
8	The Stokes Complex for Virtual Elements with Application to Navier--Stokes Flows. Journal of Scientific Computing, 2019, 81, 990-1018.	2.3	47
9	The nonconforming Virtual Element Method for eigenvalue problems. ESAIM: Mathematical Modelling and Numerical Analysis, 2019, 53, 749-774.	1.9	42
10	The Stokes complex for Virtual Elements in three dimensions. Mathematical Models and Methods in Applied Sciences, 2020, 30, 477-512.	3.3	42
11	The virtual element method for eigenvalue problems with potential terms on polytopic meshes. , 2018, 63, 333-365.		36
12	Bricks for the mixed high-order virtual element method: Projectors and differential operators. Applied Numerical Mathematics, 2020, 155, 140-159.	2.1	33
13	The p- and hp-versions of the virtual element method for elliptic eigenvalue problems. Computers and Mathematics With Applications, 2020, 79, 2035-2056.	2.7	30
14	Mimetic finite difference methods for Hamiltonian wave equations in 2D. Computers and Mathematics With Applications, 2017, 74, 1123-1141.	2.7	23
15	Spectral properties and conservation laws in Mimetic Finite Difference methods for PDEs. Journal of Computational and Applied Mathematics, 2016, 292, 760-784.	2.0	20
16	The mixed virtual element method on curved edges in two dimensions. Computer Methods in Applied Mechanics and Engineering, 2021, 386, 114098.	6.6	20
17	A virtual element method for the miscible displacement of incompressible fluids in porous media. Computer Methods in Applied Mechanics and Engineering, 2021, 375, 113649.	6.6	16
18	Vorticity-stabilized virtual elements for the Oseen equation. Mathematical Models and Methods in Applied Sciences, 2021, 31, 3009-3052.	3.3	12

#	ARTICLE	IF	CITATIONS
19	Equilibrium analysis of an immersed rigid leaflet by the virtual element method. <i>Mathematical Models and Methods in Applied Sciences</i> , 2021, 31, 1323-1372.	3.3	9
20	Bend 3d mixed virtual element method for Darcy problems. <i>Computers and Mathematics With Applications</i> , 2022, 119, 1-12.	2.7	9
21	A Virtual Element Method for the Wave Equation on Curved Edges in Two Dimensions. <i>Journal of Scientific Computing</i> , 2022, 90, 1.	2.3	7
22	SUPG-stabilized virtual elements for diffusion-convection problems: a robustness analysis. <i>ESAIM: Mathematical Modelling and Numerical Analysis</i> , 2021, 55, 2233-2258.	1.9	4