# Giuseppe Vacca

## List of Publications by Year
in descending order

| 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 | A Virtual Element Method for the Wave Equation on Curved Edges in Two Dimensions. Journal of Scientific Computing, 2022, 90, 1. | 2.3 | 7 |
| 2 | Bend 3d mixed virtual element method for Darcy problems. Computers and Mathematics With Applications, 2022, 119, 1-12. | 2.7 | 9 |
| 3 | 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 |
| 4 | Equilibrium analysis of an immersed rigid leaflet by the virtual element method. Mathematical Models and Methods in Applied Sciences, 2021, 31, 1323-1372. | 3.3 | 9 |
| 5 | SUPG-stabilized virtual elements for diffusion-convection problems: a robustness analysis. ESAIM: Mathematical Modelling and Numerical Analysis, 2021, 55, 2233-2258. | 1.9 | 4 |
| 6 | The mixed virtual element method on curved edges in two dimensions. Computer Methods in Applied Mechanics and Engineering, 2021, 386, 114098. | 6.6 | 20 |
| 7 | Vorticity-stabilized virtual elements for the Oseen equation. Mathematical Models and Methods in Applied Sciences, 2021, 31, 3009-3052. | 3.3 | 12 |
| 8 | Bricks for the mixed high-order virtual element method: Projectors and differential operators. Applied Numerical Mathematics, 2020, 155, 140-159. | 2.1 | 33 |
| 9 | 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 |
| 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 nonconforming Virtual Element Method for eigenvalue problems. ESAIM: Mathematical Modelling and Numerical Analysis, 2019, 53, 749-774. | 1.9 | 42 |
| 12 | The Stokes Complex for Virtual Elements with Application to Navier–Stokes Flows. Journal of Scientific Computing, 2019, 81, 990-1018. | 2.3 | 47 |
| 13 | The Virtual Element Method with curved edges. ESAIM: Mathematical Modelling and Numerical Analysis, 2019, 53, 375-404. | 1.9 | 76 |
| 14 | An H1-conforming virtual element for Darcy and Brinkman equations. Mathematical Models and Methods in Applied Sciences, 2018, 28, 159-194. | 3.3 | 77 |
| 15 | The virtual element method for eigenvalue problems with potential terms on polytopic meshes. , 2018, 63, 333-365. | | 36 |
| 16 | Virtual element method for second-order elliptic eigenvalue problems. IMA Journal of Numerical Analysis, 2018, 38, 2026-2054. | 2.9 | 47 |
| 17 | Virtual Elements for the Navier--Stokes Problem on Polygonal Meshes. SIAM Journal on Numerical Analysis, 2018, 56, 1210-1242. | 2.3 | 160 |
| 18 | Virtual Element Methods for hyperbolic problems on polygonal meshes. Computers and Mathematics With Applications, 2017, 74, 882-898. | 2.7 | 62 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Divergence free virtual elements for the stokes problem on polygonal meshes. ESAIM: Mathematical Modelling and Numerical Analysis, 2017, 51, 509-535. | 1.9 | 221 |
| 20 | Mimetic finite difference methods for Hamiltonian wave equations in 2D. Computers and Mathematics With Applications, 2017, 74, 1123-1141. | 2.7 | 23 |
| 21 | 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 |
| 22 | Virtual element methods for parabolic problems on polygonal meshes. Numerical Methods for Partial Differential Equations, 2015, 31, 2110-2134. | 3.6 | 132 |