

Frederic Valentin

List of Publications by Year in descending order

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41
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309
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| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Bridging the multiscale hybrid-mixed and multiscale hybrid high-order methods. ESAIM: Mathematical Modelling and Numerical Analysis, 2022, 56, 261-285. | 1.9 | 4 |
| 2 | On a multiscale a posteriori error estimator for the stokes and Brinkman equations. IMA Journal of Numerical Analysis, 2021, 41, 344-380. | 2.9 | 2 |
| 3 | An adaptive multiscale hybrid-mixed method for the Oseen equations. Advances in Computational Mathematics, 2021, 47, 1. | 1.6 | 2 |
| 4 | New $H(\text{div})$ -conforming multiscale hybrid-mixed methods for the elasticity problem on polygonal meshes. ESAIM: Mathematical Modelling and Numerical Analysis, 2021, 55, 1005-1037. | 1.9 | 4 |
| 5 | A Multiscale Hybrid-Mixed Method for the Helmholtz Equation in Heterogeneous Domains. SIAM Journal on Numerical Analysis, 2020, 58, 1029-1067. | 2.3 | 7 |
| 6 | The multiscale hybrid mixed method in general polygonal meshes. Numerische Mathematik, 2020, 145, 197-237. | 1.9 | 10 |
| 7 | 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 |
| 8 | The Multiscale Hybrid-Mixed method for the Maxwell Equations in Heterogeneous Media. Multiscale Modeling and Simulation, 2018, 16, 1648-1683. | 1.6 | 8 |
| 9 | Multiscale hybrid-mixed method for the Stokes and Brinkman equations – The method. Computer Methods in Applied Mechanics and Engineering, 2017, 324, 29-53. | 6.6 | 19 |
| 10 | A hybrid-mixed method for elasticity. ESAIM: Mathematical Modelling and Numerical Analysis, 2016, 50, 311-336. | 1.9 | 18 |
| 11 | On the robustness of multiscale hybrid-mixed methods. Mathematics of Computation, 2016, 86, 525-548. | 2.1 | 14 |
| 12 | A low-order local projection method for the incompressible Navier-Stokes equations in two- and three-dimensions. IMA Journal of Numerical Analysis, 2015, , drv004. | 2.9 | 1 |
| 13 | On a Multiscale Hybrid-Mixed Method for Advective-Reactive Dominated Problems with Heterogeneous Coefficients. Multiscale Modeling and Simulation, 2015, 13, 491-518. | 1.6 | 26 |
| 14 | An adaptive residual local projection finite element method for the Navier-Stokes equations. Advances in Computational Mathematics, 2014, 40, 1093-1119. | 1.6 | 7 |
| 15 | A family of Multiscale Hybrid-Mixed finite element methods for the Darcy equation with rough coefficients. Journal of Computational Physics, 2013, 245, 107-130. | 3.8 | 64 |
| 16 | Multiscale Hybrid-Mixed Method. SIAM Journal on Numerical Analysis, 2013, 51, 3505-3531. | 2.3 | 62 |
| 17 | Convergence Analysis of a Residual Local Projection Finite Element Method for the Navier-Stokes Equations. SIAM Journal on Numerical Analysis, 2012, 50, 669-699. | 2.3 | 21 |
| 18 | Numerical multiscale methods for a reaction-dominated model. Computer Methods in Applied Mechanics and Engineering, 2012, 201-204, 228-244. | 6.6 | 9 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | On a hierarchical error estimator combined with a stabilized method for the Navier–Stokes equations. <i>Numerical Methods for Partial Differential Equations</i> , 2012, 28, 782-806. | 3.6 | 6 |
| 20 | Beyond pressure stabilization: A low-order local projection method for the Oseen equation. <i>International Journal for Numerical Methods in Engineering</i> , 2011, 86, 801-815. | 2.8 | 12 |
| 21 | Supporting the Perpetuation and Reproducibility of Numerical Method Publications. <i>Procedia Computer Science</i> , 2011, 4, 688-696. | 2.0 | 1 |
| 22 | A residual local projection method for the Oseen equation. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2010, 199, 1906-1921. | 6.6 | 15 |
| 23 | A two-level enriched finite element method for a mixed problem. <i>Mathematics of Computation</i> , 2010, 80, 11-41. | 2.1 | 4 |
| 24 | Consistent Local Projection Stabilized Finite Element Methods. <i>SIAM Journal on Numerical Analysis</i> , 2010, 48, 1801-1825. | 2.3 | 26 |
| 25 | On a residual local projection method for the Darcy equation. <i>Comptes Rendus Mathematique</i> , 2009, 347, 1105-1110. | 0.3 | 7 |
| 26 | Weighted quadrature rules for finite element methods. <i>Journal of Computational and Applied Mathematics</i> , 2009, 227, 93-101. | 2.0 | 6 |
| 27 | Stabilization arising from PGEM: A review and further developments. <i>Applied Numerical Mathematics</i> , 2009, 59, 2065-2081. | 2.1 | 15 |
| 28 | A Symmetric Nodal Conservative Finite Element Method for the Darcy Equation. <i>SIAM Journal on Numerical Analysis</i> , 2009, 47, 3652-3677. | 2.3 | 8 |
| 29 | A stabilized finite-element method for the Stokes problem including element and edge residuals. <i>IMA Journal of Numerical Analysis</i> , 2007, 27, 172-197. | 2.9 | 11 |
| 30 | Asymptotics of the Poisson Problem in Domains with Curved Rough Boundaries. <i>SIAM Journal on Mathematical Analysis</i> , 2007, 38, 1450-1473. | 1.9 | 27 |
| 31 | A Petrov–Galerkin enriched method: A mass conservative finite element method for the Darcy equation. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2007, 196, 2449-2464. | 6.6 | 17 |
| 32 | Stabilized Finite Element Methods Based on Multiscale Enrichment for the Stokes Problem. <i>SIAM Journal on Numerical Analysis</i> , 2006, 44, 322-348. | 2.3 | 64 |
| 33 | Stabilizing the $\hat{a}_{1,0}$ Element for the Stokes Problem via Multiscale Enrichment. , 2006, , 752-760. | | 1 |
| 34 | A multiscale a posteriori error estimate. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2005, 194, 2077-2094. | 6.6 | 23 |
| 35 | Towards multiscale functions: enriching finite element spaces with local but not bubble-like functions. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2005, 194, 3006-3021. | 6.6 | 79 |
| 36 | Relationship between multiscale enrichment and stabilized finite element methods for the generalized Stokes problem. <i>Comptes Rendus Mathematique</i> , 2005, 341, 635-640. | 0.3 | 9 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 37 | Convergence Analysis of a Multiscale Finite Element Method for Singularly Perturbed Problems. <i>Multiscale Modeling and Simulation</i> , 2005, 4, 839-866. | 1.6 | 27 |
| 38 | New Wall Laws for the Unsteady Incompressible Navier-Stokes Equations on Rough Domains. <i>ESAIM: Mathematical Modelling and Numerical Analysis</i> , 2002, 36, 177-203. | 1.9 | 15 |
| 39 | An unusual stabilized finite element method for a generalized Stokes problem. <i>Numerische Mathematik</i> , 2002, 92, 653-677. | 1.9 | 56 |
| 40 | Analysis of curvature influence on effective boundary conditions. <i>Comptes Rendus Mathematique</i> , 2002, 335, 499-504. | 0.3 | 6 |