# Christophe Prud'homme

List of Publications by Year
in descending order

| 16 papers | 447 citations | 1162367<br>8 h-index | 1125271<br>13 g-index |
|---|---|---|---|
| 16 all docs | 16 docs citations | 16 times ranked | 347 citing authors |

| # | Article | IF | Citations |
|---|---------|----|-----------| 
| 1 | Uncertainty propagation and sensitivity analysis: results from the Ocular Mathematical Virtual Simulator. Mathematical Biosciences and Engineering, 2021, 18, 2010-2032. | 1.0 | 4 |
| 2 | High-Order Finite-Element Framework for the Efficient Simulation of Multifluid Flows. Mathematics, 2018, 6, 203. | 1.1 | 5 |
| 3 | Substructuring preconditioners forhâˆ'pMortar FEM. ESAIM: Mathematical Modelling and Numerical Analysis, 2016, 50, 1057-1082. | 0.8 | 0 |
| 4 | Simultaneous empirical interpolation and reduced basis method for non-linear problems. Comptes Rendus Mathematique, 2015, 353, 1105-1109. | 0.1 | 11 |
| 5 | Hemodynamic simulations in the cerebral venous network: A study on the influence of different modeling assumptions. Journal of Coupled Systems and Multiscale Dynamics, 2015, 3, 23-37. | 0.2 | 5 |
| 6 | Numerical analysis method of heat transfer in an electronic component using sensitivity analysis. Journal of Computational Electronics, 2014, 13, 1042-1053. | 1.3 | 3 |
| 7 | High-order fluidâ€"structure interaction in 2D and 3D application to blood flow in arteries. Journal of Computational and Applied Mathematics, 2013, 246, 1-9. | 1.1 | 20 |
| 8 | A domain-specific embedded language in C++ for lowest-order discretizations of diffusive problems on general meshes. BIT Numerical Mathematics, 2013, 53, 111-152. | 1.0 | 6 |
| 9 | Scalable domain decomposition preconditioners for heterogeneous elliptic problems. , 2013, , . | | 22 |
| 10 | Feel++ : A computational framework for Galerkin Methods and Advanced Numerical Methods. ESAIM: Proceedings and Surveys, 2012, 38, 429-455. | 0.4 | 37 |
| 11 | *A priori* convergence of the Greedy algorithm for the parametrized reduced basis method. ESAIM: Mathematical Modelling and Numerical Analysis, 2012, 46, 595-603. | 0.8 | 187 |
| 12 | Construction of a high order fluidâ€"structure interaction solver. Journal of Computational and Applied Mathematics, 2010, 234, 2358-2365. | 1.1 | 9 |
| 13 | Basic concepts to design a DSL for parallel finite volume applications. , 2009, , . | | 3 |
| 14 | A Domain Specific Embedded Language in C++ for Automatic Differentiation, Projection, Integration and Variational Formulations. Scientific Programming, 2006, 14, 81-110. | 0.5 | 28 |
| 15 | Reduced-basis approximation of the viscous Burgers equation: rigorous a posteriori error bounds. Comptes Rendus Mathematique, 2003, 337, 619-624. | 0.1 | 72 |
| 16 | A Mathematical and Computational Framework for Reliable Real-Time Solution of Parametrized Partial Differential Equations. ESAIM: Mathematical Modelling and Numerical Analysis, 2002, 36, 747-771. | 0.8 | 35 |