

Philippe Angot

List of Publications by Year in descending order

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43
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1,766
citations

430874

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46
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docs citations

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times ranked

1066
citing authors

#	ARTICLE	IF	CITATIONS
1	Momentum transport in the free fluid-porous medium transition layer: one-domain approach. <i>Chemical Engineering Science</i> , 2022, 248, 117111.	3.8	1
2	A nonlinear asymptotic model for the inertial flow at a fluid-porous interface. <i>Advances in Water Resources</i> , 2021, 149, 103798.	3.8	7
3	The Fictitious Domain Method with Sharp Interface for Elasticity Systems with General Jump Embedded Boundary Conditions. <i>Advances in Applied Mathematics and Mechanics</i> , 2021, 13, 119-139.	1.2	0
4	The Algebraic Immersed Interface and Boundary Method for Elliptic Equations with Jump Conditions. <i>Open Journal of Fluid Dynamics</i> , 2020, 10, 239-269.	0.5	1
5	Vector Penalty-Projection Methods for Open Boundary Conditions with Optimal Second-Order Accuracy. <i>Communications in Computational Physics</i> , 2019, 26, 1008-1038.	1.7	2
6	Well-posed Stokes/Brinkman and Stokes/Darcy coupling revisited with new jump interface conditions. <i>ESAIM: Mathematical Modelling and Numerical Analysis</i> , 2018, 52, 1875-1911.	1.9	17
7	Asymptotic modeling of transport phenomena at the interface between a fluid and a porous layer: Jump conditions. <i>Physical Review E</i> , 2017, 95, 063302.	2.1	31
8	On the error estimates of the vector penalty-projection methods: Second-order scheme. <i>Mathematics of Computation</i> , 2017, 87, 2159-2187.	2.1	5
9	A kinematic vector penalty-projection method for incompressible flow with variable density. <i>Comptes Rendus Mathématique</i> , 2016, 354, 1124-1131.	0.3	5
10	Asymptotic study for Stokes-Brinkman model with jump embedded transmission conditions. <i>Asymptotic Analysis</i> , 2016, 96, 223-249.	0.5	7
11	An optimal penalty method for a hyperbolic system modeling the edge plasma transport in a tokamak. <i>Journal of Computational Physics</i> , 2014, 261, 1-22.	3.8	6
12	Fast discrete Helmholtz-Hodge decompositions in bounded domains. <i>Applied Mathematics Letters</i> , 2013, 26, 445-451.	2.7	18
13	A fast vector penalty-projection method for incompressible non-homogeneous or multiphase Navier-Stokes problems. <i>Applied Mathematics Letters</i> , 2012, 25, 1681-1688.	2.7	22
14	A new fast method to compute saddle-points in constrained optimization and applications. <i>Applied Mathematics Letters</i> , 2012, 25, 245-251.	2.7	12
15	A direction splitting algorithm for incompressible flow in complex geometries. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2012, 217-220, 111-120.	6.6	10
16	A volume penalization method for incompressible flows and scalar advection-diffusion with moving obstacles. <i>Journal of Computational Physics</i> , 2012, 231, 4365-4383.	3.8	79
17	Convergence results for the vector penalty-projection and two-step artificial compressibility methods. <i>Discrete and Continuous Dynamical Systems - Series B</i> , 2012, 17, 1383-1405.	0.9	4
18	On the well-posed coupling between free fluid and porous viscous flows. <i>Applied Mathematics Letters</i> , 2011, 24, 803-810.	2.7	25

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19	A Spectacular Vector Penalty-Projection Method for Darcy and Navier-Stokes Problems. Springer Proceedings in Mathematics, 2011, , 39-47.	0.5	3
20	A fictitious domain model for the Stokes/Brinkman problem with jump embedded boundary conditions. Comptes Rendus Mathematique, 2010, 348, 697-702.	0.3	19
21	Well-Posed Stokes-Brinkman and Stokes-Darcy Problems for Coupled Fluid-Porous Viscous Flows. , 2010, , .		2
22	On the penalty-projection method for the Navier-Stokes equations with the MAC mesh. Journal of Computational and Applied Mathematics, 2009, 226, 228-245.	2.0	18
23	Asymptotic and numerical modelling of flows in fractured porous media. ESAIM: Mathematical Modelling and Numerical Analysis, 2009, 43, 239-275.	1.9	148
24	Une mÃ©thode de pÃ©nalitÃ©-projection pour les Ã©coulements dilatables. European Journal of Computational Mechanics, 2008, 17, 453-480.	0.6	5
25	A fictitious domain approach with spread interface for elliptic problems with general boundary conditions. Computer Methods in Applied Mechanics and Engineering, 2007, 196, 766-781.	6.6	116
26	A general fictitious domain method with immersed jumps and multilevel nested structured meshes. Journal of Computational Physics, 2007, 225, 1347-1387.	3.8	55
27	A finite element penalty-projection method for incompressible flows. Journal of Computational Physics, 2006, 217, 502-518.	3.8	45
28	A unified fictitious domain model for general embedded boundary conditions. Comptes Rendus Mathematique, 2005, 341, 683-688.	0.3	26
29	Fictitious Domain Methods to Solve Convection-Diffusion Problems with General Boundary Conditions. , 2005, , .		12
30	A model of fracture for elliptic problems with flux and solution jumps. Comptes Rendus Mathematique, 2003, 337, 425-430.	0.3	22
31	A multilevel local mesh refinement projection method for low Mach number flows. Mathematics and Computers in Simulation, 2003, 61, 477-488.	4.4	3
32	Fictitious domain approach for numerical modelling of Navier-Stokes equations. International Journal for Numerical Methods in Fluids, 2000, 34, 651-684.	1.6	224
33	Fictitious domain approach for numerical modelling of Navier-Stokes equations. , 2000, 34, 651.		2
34	A penalization method to take into account obstacles in incompressible viscous flows. Numerische Mathematik, 1999, 81, 497-520.	1.9	650
35	Three-dimensional modelling of coastal circulations with different kÃ©-Î¼ closures. Journal of Marine Systems, 1999, 21, 321-339.	2.1	7
36	Analysis of singular perturbations on the Brinkman problem for fictitious domain models of viscous flows. Mathematical Methods in the Applied Sciences, 1999, 22, 1395-1412.	2.3	84

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37	Numerical solution of Navier-Stokes systems. Numerical Linear Algebra With Applications, 1999, 6, 17-27.	1.6	2
38	Analysis of singular perturbations on the Brinkman problem for fictitious domain models of viscous flows. , 1999, 22, 1395.		1
39	Analysis of singular perturbations on the Brinkman problem for fictitious domain models of viscous flows. Mathematical Methods in the Applied Sciences, 1999, 22, 1395-1412.	2.3	5
40	FINITE VOLUME METHODS FOR NON SMOOTH SOLUTION OF DIFFUSION MODELS;; APPLICATION TO IMPERFECT CONTACT PROBLEMS. , 1999, , .		2
41	Analysis of a combined barycentric finite volumeâ€”nonconforming finite element method for nonlinear convection-diffusion problems. Applications of Mathematics, 1998, 43, 263-310.	0.9	36
42	A practical and portable model of programming for iterative solvers on distributed memory machines. Parallel Computing, 1996, 22, 487-512.	2.1	4
43	NESTED GRID METHODS FOR AN OCEAN MODEL: A COMPARATIVE STUDY. International Journal for Numerical Methods in Fluids, 1996, 23, 1163-1195.	1.6	20