

Marco Discacciati

List of Publications by Year in descending order

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33
papers

1,494
citations

471509

17
h-index

434195

31
g-index

35
all docs

35
docs citations

35
times ranked

756
citing authors

#	ARTICLE	IF	CITATIONS
1	Mathematical and numerical models for coupling surface and groundwater flows. Applied Numerical Mathematics, 2002, 43, 57-74.	2.1	356
2	Robin-Robin Domain Decomposition Methods for the Stokes-Darcy Coupling. SIAM Journal on Numerical Analysis, 2007, 45, 1246-1268.	2.3	180
3	Navier-Stokes/darcy coupling: modeling, analysis, and numerical approximation. Revista Matematica Complutense, 2009, 22, .	1.2	145
4	Fluid-structure algorithms based on Steklov-Poincaré operators. Computer Methods in Applied Mechanics and Engineering, 2006, 195, 5797-5812.	6.6	113
5	Numerical analysis of the Navier-Stokes/Darcy coupling. Numerische Mathematik, 2010, 115, 195-227.	1.9	112
6	Convergence analysis of a subdomain iterative method for the finite element approximation of the coupling of Stokes and Darcy equations. Computing and Visualization in Science, 2004, 6, 93-103.	1.2	103
7	Efficient oxygen transfer by surface aeration in shaken cylindrical containers for mammalian cell cultivation at volumetric scales up to 1000L. Biochemical Engineering Journal, 2009, 45, 41-47.	3.6	62
8	Navier-Stokes/Forchheimer models for filtration through porous media. Applied Numerical Mathematics, 2013, 72, 205-224.	2.1	59
9	Use of Orbital Shaken Disposable Bioreactors for Mammalian Cell Cultures from the Milliliter-Scale to the 1,000-Liter Scale. Advances in Biochemical Engineering/Biotechnology, 2009, 115, 33-53.	1.1	42
10	Optimized Schwarz methods for the Stokes-Darcy coupling. IMA Journal of Numerical Analysis, 2018, 38, 1959-1983.	2.9	38
11	Modeling of batch and semi-batch membrane filtration processes. Journal of Membrane Science, 2009, 327, 164-173.	8.2	36
12	Numerical simulation of orbitally shaken viscous fluids with free surface. International Journal for Numerical Methods in Fluids, 2013, 71, 294-315.	1.6	27
13	Modeling of amino acid nanofiltration by irreversible thermodynamics. Journal of Membrane Science, 2009, 332, 38-49.	8.2	24
14	Domain Decomposition Methods for Domain Composition Purpose: Chimera, Overset, Gluing and Sliding Mesh Methods. Archives of Computational Methods in Engineering, 2017, 24, 1033-1070.	10.2	23
15	A conforming mixed finite element method for the Navier-Stokes/Darcy coupled problem. Numerische Mathematik, 2017, 135, 571-606.	1.9	22
16	The Interface Control Domain Decomposition (ICDD) Method for Elliptic Problems. SIAM Journal on Control and Optimization, 2013, 51, 3434-3458.	2.1	21
17	Modeling dimensionally-heterogeneous problems: analysis, approximation and applications. Numerische Mathematik, 2011, 119, 299-335.	1.9	18
18	Numerical simulation and optimization of multi-step batch membrane processes. Journal of Membrane Science, 2008, 324, 50-58.	8.2	17

#	ARTICLE	IF	CITATIONS
19	The Interface Control Domain Decomposition Method for Stokes–Darcy Coupling. <i>SIAM Journal on Numerical Analysis</i> , 2016, 54, 1039-1068.	2.3	16
20	A conforming mixed finite element method for the Navier–Stokes/Darcy–Forchheimer coupled problem. <i>ESAIM: Mathematical Modelling and Numerical Analysis</i> , 2020, 54, 1689-1723.	1.9	13
21	Interface control domain decomposition methods for heterogeneous problems. <i>International Journal for Numerical Methods in Fluids</i> , 2014, 76, 471-496.	1.6	11
22	Heterogeneous Mathematical Models in Fluid Dynamics and Associated Solution Algorithms. <i>Lecture Notes in Mathematics</i> , 2011, , 57-123.	0.2	7
23	Numerical Approximation of Internal Discontinuity Interface Problems. <i>SIAM Journal of Scientific Computing</i> , 2013, 35, A2341-A2369.	2.8	7
24	A Domain Decomposition Framework for Fluid-Structure Interaction Problems. , 2006, , 41-58.		7
25	Mathematical and numerical modelling of a circular cross-flow filtration module. <i>Applied Mathematical Modelling</i> , 2020, 80, 84-98.	4.2	5
26	Coupling free and porous-media flows: models and numerical approximation. , 2013, , 107-138.		3
27	Heterogeneous Domain Decomposition Methods for Fluid-Structure Interaction Problems. , 2007, , 41-52.		3
28	Analysis of the Stokes–Darcy problem with generalised interface conditions. <i>ESAIM: Mathematical Modelling and Numerical Analysis</i> , 2022, 56, 727-742.	1.9	3
29	Theory of surface-induced multiferroicity in magnetic materials, thin films, and multilayers. <i>Physical Review B</i> , 2021, 103, .	3.2	2
30	The interface control domain decomposition (ICDD) method for the Stokes problem. <i>Journal of Coupled Systems and Multiscale Dynamics</i> , 2013, 1, 372-392.	0.2	2
31	Numerical Approximation of a Steady MHD Problem. <i>Lecture Notes in Computational Science and Engineering</i> , 2008, , 313-320.	0.3	1
32	Is Minimising the Convergence Rate a Good Choice for Efficient Optimized Schwarz Preconditioning in Heterogeneous Coupling? The Stokes-Darcy Case. <i>Lecture Notes in Computational Science and Engineering</i> , 2018, , 233-241.	0.3	1
33	Inhomogeneous wave equation with t-dependent singular coefficients. <i>Journal of Differential Equations</i> , 2022, 319, 131-185.	2.2	1