Aycil Cesmelioglu

List of Publications by Year
in descending order

15 papers	409 citations	1040056 9 h-index	1058476 14 g-index
15 all docs	15 docs citations	15 times ranked	224 citing authors

#	Article	IF	Citations
1	A Compatible Embedded-Hybridized Discontinuous Galerkin Method for the Stokes-Darcy-Transport Problem. Communications on Applied Mathematics and Computation, 2022, 4, 293-318.	1.7	2
2	Numerical analysis of the coupling of free fluid with a poroelastic material. Numerical Methods for Partial Differential Equations, 2020, 36, 463-494.	3.6	19
3	An embeddedâ€“hybridized discontinuous Galerkin method for the coupled Stokesâ€“Darcy system. Journal of Computational and Applied Mathematics, 2020, 367, 112476.	2.0	14
4	Analysis of a Space-Time Hybridizable Discontinuous Galerkin Method for the Advection-Diffusion Problem on Time-Dependent Domains. SIAM Journal on Numerical Analysis, 2019, 57, 1677-1696.	2.3	7
5	A Nonconforming Finite Element Method for an Acoustic Fluid-Structure Interaction Problem. Computational Methods in Applied Mathematics, 2018, 18, 383-406.	0.8	7
6	Discontinuous Galerkin Approximations for Computing Electromagnetic Bloch Modes in Photonic Crystals. Journal of Scientific Computing, 2017, 70, 922-964.	2.3	7
7	Physics-Based Kriging Surrogates for a Class of Finite Element Codes. SIAM-ASA Journal on Uncertainty Quantification, 2017, 5, 870-889.	2.0	0
8	Analysis of the coupled Navierâ€“Stokes/Biot problem. Journal of Mathematical Analysis and Applications, 2017, 456, 970-991.	1.0	32
9	Analysis of a hybridizable discontinuous Galerkin method for the steady-state incompressible Navier-Stokes equations. Mathematics of Computation, 2016, 86, 1643-1670.	2.1	68
10	Optimization-Based Decoupling Algorithms for a Fluid-Poroelastic System. The IMA Volumes in Mathematics and Its Applications, 2016, , 79-98.	0.5	7
11	Analysis of HDG Methods for Oseen Equations. Journal of Scientific Computing, 2013, 55, 392-431.	2.3	45
12	Time-dependent coupling of Navierâ€“Stokes and Darcy flows. ESAIM: Mathematical Modelling and Numerical Analysis, 2013, 47, 539-554.	1.9	46
13	Existence of a weak solution for the fully coupled Navierâ€“Stokes/Darcy-transport problem. Journal of Differential Equations, 2012, 252, 4138-4175.	2.2	23
14	Primal Discontinuous Galerkin Methods forÂTime-Dependent Coupled Surface andÂSubsurfaceÂFlow. Journal of Scientific Computing, 2009, 40, 115-140.	2.3	79
15	Analysis of time-dependent Navierâ€“Stokes flow coupled with Darcy flow. Journal of Numerical Mathematics, 2008, 16, .	3.5	53