

Todd F Dupont

List of Publications by Year in descending order

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Version: 2024-02-01

23
papers

8,788
citations

516561

16
h-index

610775

24
g-index

24
all docs

24
docs citations

24
times ranked

8696
citing authors

#	ARTICLE	IF	CITATIONS
1	Capillary flow as the cause of ring stains from dried liquid drops. <i>Nature</i> , 1997, 389, 827-829.	13.7	5,383
2	Contact line deposits in an evaporating drop. <i>Physical Review E</i> , 2000, 62, 756-765.	0.8	1,872
3	Drop formation in a one-dimensional approximation of the Navier–Stokes equation. <i>Journal of Fluid Mechanics</i> , 1994, 262, 205-221.	1.4	456
4	Sonoluminescing Air Bubbles Rectify Argon. <i>Physical Review Letters</i> , 1997, 78, 1359-1362.	2.9	196
5	A finite difference domain decomposition algorithm for numerical solution of the heat equation. <i>Mathematics of Computation</i> , 1991, 57, 63-63.	1.1	171
6	Droplet breakup in a model of the Hele-Shaw cell. <i>Physical Review E</i> , 1993, 47, 4169-4181.	0.8	148
7	Singularities and Similarities in Interface Flows. <i>Applied Mathematical Sciences (Switzerland)</i> , 1994, , 155-208.	0.4	80
8	A priori estimates for mixed finite element methods for the wave equation. <i>Computer Methods in Applied Mechanics and Engineering</i> , 1990, 82, 205-222.	3.4	77
9	Explicit/Implicit, Conservative Domain Decomposition Procedures for Parabolic Problems Based on Block-Centered Finite Differences. <i>SIAM Journal on Numerical Analysis</i> , 1994, 31, 1045-1061.	1.1	67
10	Finite-time singularity formation in Hele-Shaw systems. <i>Physical Review E</i> , 1993, 47, 4182-4196.	0.8	66
11	Mechanisms for Stable Single Bubble Sonoluminescence. <i>Physical Review Letters</i> , 1996, 76, 1158-1161.	2.9	56
12	Explicit/implicit conservative Galerkin domain decomposition procedures for parabolic problems. <i>Mathematics of Computation</i> , 1992, 58, 21-34.	1.1	49
13	A Priori Estimates for Mixed Finite Element Approximations of Second-Order Hyperbolic Equations with Absorbing Boundary Conditions. <i>SIAM Journal on Numerical Analysis</i> , 1996, 33, 492-504.	1.1	47
14	Galerkin Methods in Age and Space for a Population Model with Nonlinear Diffusion. <i>SIAM Journal on Numerical Analysis</i> , 2002, 40, 1064-1076.	1.1	35
15	Symmetric Error Estimates for Moving Mesh Galerkin Methods for Advection-Diffusion Equations. <i>SIAM Journal on Numerical Analysis</i> , 2002, 40, 914-927.	1.1	23
16	Symmetric Error Estimates for Moving Mesh Mixed Methods for Advection-Diffusion Equations. <i>SIAM Journal on Numerical Analysis</i> , 2002, 40, 2270-2291.	1.1	18
17	Convergence of a step-doubling Galerkin method for parabolic problems. <i>Mathematics of Computation</i> , 2004, 74, 1053-1066.	1.1	13
18	Layer formation in monodisperse suspensions and colloids. <i>Journal of Fluid Mechanics</i> , 1996, 328, 297-311.	1.4	9

#	ARTICLE	IF	CITATIONS
19	Mollified birth in natural-age-grid Galerkin methods for age-structured biological systems. <i>Nonlinearity</i> , 2009, 22, 1983-1995.	0.6	4
20	Clines with partial panmixia in an environmental pocket. <i>Theoretical Population Biology</i> , 2014, 95, 24-32.	0.5	4
21	Uniqueness and multiplicity of clines in an environmental pocket. <i>Theoretical Population Biology</i> , 2019, 130, 106-131.	0.5	4
22	A symmetric error estimate for Galerkin approximations of time-dependent Navier-Stokes equations in two dimensions. <i>Mathematics of Computation</i> , 2009, 78, 1919-1927.	1.1	2
23	The power method for tensor eigenproblems and limiting directions of Newton iterates. <i>Numerical Linear Algebra With Applications</i> , 2013, 20, 956-971.	0.9	1