

Amiya K Pani

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Galerkin finite element approximation of a stochastic semilinear fractional subdiffusion with fractionally integrated additive noise. IMA Journal of Numerical Analysis, 2022, 42, 2301-2335.	2.9	6
2	Backward Euler method for the equations of motion arising in Oldroyd model of order one with nonsmooth initial data. IMA Journal of Numerical Analysis, 2022, 42, 3529-3570.	2.9	4
3	Finite Element Penalty Method for the Oldroyd Model of Order One with Non-smooth Initial Data. Computational Methods in Applied Mathematics, 2022, 22, 297-325.	0.8	1
4	Stability of mixed FEMs for non-selfadjoint indefinite second-order linear elliptic PDEs. Numerische Mathematik, 2022, 150, 975-992.	1.9	2
5	Primal Hybrid Method For Quasilinear Parabolic Problems. Journal of Scientific Computing, 2022, 92, .	2.3	1
6	A priori and a posteriori error analysis of the lowest-order NCVEM for second-order linear indefinite elliptic problems. Numerische Mathematik, 2022, 151, 551-600.	1.9	5
7	Error analysis for a vorticity/Bernoulli pressure formulation for the Oseen equations. Journal of Numerical Mathematics, 2021, .	3.5	0
8	Morley finite element method for the von Kármán obstacle problem. ESAIM: Mathematical Modelling and Numerical Analysis, 2021, 55, 1873-1894.	1.9	1
9	Morley FEM for the fourth-order nonlinear reaction-diffusion problems. Computers and Mathematics With Applications, 2021, 99, 229-245.	2.7	6
10	Negative norm estimates and superconvergence results in Galerkin method for strongly nonlinear parabolic problems. Computers and Mathematics With Applications, 2021, 99, 26-36.	2.7	0
11	A priori error estimates of expanded mixed FEM for Kirchhoff type parabolic equation. Numerical Algorithms, 2020, 83, 125-147.	1.9	6
12	High-order discrete-time orthogonal spline collocation methods for singularly perturbed 1D parabolic reaction-diffusion problems. Numerical Methods for Partial Differential Equations, 2020, 36, 495-523.	3.6	4
13	Mixed FEM for Time-Fractional Diffusion Problems with Time-Dependent Coefficients. Journal of Scientific Computing, 2020, 83, 1.	2.3	2
14	Higher Order Time Stepping Methods for Subdiffusion Problems Based on Weighted and Shifted Grånwald-Letnikov Formulae with Nonsmooth Data. Journal of Scientific Computing, 2020, 83, 1.	2.3	7
15	A First-Order Explicit-Implicit Splitting Method for a Convection-Diffusion Problem. Computational Methods in Applied Mathematics, 2020, 20, 769-782.	0.8	3
16	Stabilization of Kelvin-Voigt viscoelastic fluid flow model. Applicable Analysis, 2019, 98, 2284-2307.	1.3	4
17	Superconvergent discontinuous Galerkin methods for nonlinear parabolic initial and boundary value problems. Journal of Numerical Mathematics, 2019, 27, 183-202.	3.5	3
18	Asymptotic Analysis and Optimal Error estimates for Benjamin-Bona-Mahony-Burgers' Type Equations. Numerical Methods for Partial Differential Equations, 2018, 34, 1053-1092.	3.6	6

#	ARTICLE	IF	CITATIONS
19	Expanded mixed FEM with lowest order RT elements for nonlinear and nonlocal parabolic problems. <i>Advances in Computational Mathematics</i> , 2018, 44, 1537-1571.	1.6	7
20	Optimal Error Analysis of a FEM for Fractional Diffusion Problems by Energy Arguments. <i>Journal of Scientific Computing</i> , 2018, 74, 519-535.	2.3	22
21	Superconvergence of a class of expanded discontinuous Galerkin methods for fully nonlinear elliptic problems in divergence form. <i>Journal of Computational and Applied Mathematics</i> , 2018, 333, 215-234.	2.0	6
22	Error analysis of a FVEM for fractional order evolution equations with nonsmooth initial data. <i>ESAIM: Mathematical Modelling and Numerical Analysis</i> , 2018, 52, 773-801.	1.9	17
23	On three steps two-grid finite element methods for the 2D-transient Navier-Stokes equations. <i>Journal of Numerical Mathematics</i> , 2017, 25, .	3.5	6
24	Asymptotic behavior and finite element error estimates of Kelvin-Voigt viscoelastic fluid flow model. <i>Numerical Algorithms</i> , 2017, 75, 619-653.	1.9	5
25	A Priori and A Posteriori Estimates of Conforming and Mixed FEM for a Kirchhoff Equation of Elliptic Type. <i>Computational Methods in Applied Mathematics</i> , 2017, 17, 217-236.	0.8	8
26	Finite element Galerkin approximations to a class of nonlinear and nonlocal parabolic problems. <i>Numerical Methods for Partial Differential Equations</i> , 2016, 32, 1232-1264.	3.6	8
27	On Kirchhoff's Model of Parabolic Type. <i>Numerical Functional Analysis and Optimization</i> , 2016, 37, 719-752.	1.4	13
28	Comparison results and unified analysis for first-order finite volume element methods for a Poisson model problem. <i>IMA Journal of Numerical Analysis</i> , 2016, 36, 1120-1142.	2.9	11
29	Error analysis of nonconforming and mixed FEMs for second-order linear non-selfadjoint and indefinite elliptic problems. <i>Numerische Mathematik</i> , 2016, 133, 557-597.	1.9	15
30	Optimal error estimates for semidiscrete Galerkin approximations to equations of motion described by Kelvin-Voigt viscoelastic fluid flow model. <i>Journal of Computational and Applied Mathematics</i> , 2016, 302, 234-257.	2.0	16
31	A priori hp-estimates for discontinuous Galerkin approximations to linear hyperbolic integro-differential equations. <i>Applied Numerical Mathematics</i> , 2015, 96, 1-23.	2.1	3
32	Alternating Direction Implicit Galerkin Methods for an Evolution Equation with a Positive-Type Memory Term. <i>Journal of Scientific Computing</i> , 2015, 65, 1166-1188.	2.3	10
33	Optimal error estimates of mixed FEMs for second order hyperbolic integro-differential equations with minimal smoothness on initial data. <i>Journal of Computational and Applied Mathematics</i> , 2015, 275, 113-134.	2.0	6
34	A modified nonlinear spectral Galerkin method for the equations of motion arising in the Kelvin-Voigt fluids. <i>Applicable Analysis</i> , 2014, 93, 1587-1610.	1.3	12
35	OPTIMAL ESTIMATES FOR THE SEMIDISCRETE GALERKIN METHOD APPLIED TO PARABOLIC INTEGRO-DIFFERENTIAL EQUATIONS WITH NONSMOOTH DATA. <i>ANZIAM Journal</i> , 2014, 55, 245-266.	0.2	5
36	On a two-grid finite element scheme for the equations of motion arising in Kelvin-Voigt model. <i>Advances in Computational Mathematics</i> , 2014, 40, 1043-1071.	1.6	13

#	ARTICLE	IF	CITATIONS
37	Semidiscrete Galerkin method for equations of motion arising in Kelvin-Voigt model of viscoelastic fluid flow. Numerical Methods for Partial Differential Equations, 2013, 29, 857-883.	3.6	19
38	Optimal Error Estimates of Two Mixed Finite Element Methods for Parabolic Integro-Differential Equations with Nonsmooth Initial Data. Journal of Scientific Computing, 2013, 56, 131-164.	2.3	12
39	Superconvergent Discontinuous Galerkin Methods for Linear Non-selfadjoint and Indefinite Elliptic Problems. Journal of Scientific Computing, 2013, 54, 45-76.	2.3	8
40	Superconvergent discontinuous Galerkin methods for nonlinear elliptic equations. Mathematics of Computation, 2013, 82, 1297-1335.	2.1	14
41	Mixed finite element methods for a fourth order reaction diffusion equation. Numerical Methods for Partial Differential Equations, 2012, 28, 1227-1251.	3.6	24
42	An hp-local Discontinuous Galerkin Method for Parabolic Integro-Differential Equations. Journal of Scientific Computing, 2011, 46, 71-99.	2.3	14
43	A Robin-type non-overlapping domain decomposition procedure for second order elliptic problems. Advances in Computational Mathematics, 2011, 34, 339-368.	1.6	4
44	An Alternate Approach to Optimal L^2 -Error Analysis of Semidiscrete Galerkin Methods for Linear Parabolic Problems with Nonsmooth Initial Data. Numerical Functional Analysis and Optimization, 2011, 32, 946-982.	1.4	5
45	Discontinuous Galerkin finite volume element methods for second order linear elliptic problems. Numerical Methods for Partial Differential Equations, 2009, 25, 1402-1424.	3.6	21
46	On L^2 -estimate for nonsymmetric interior penalty Galerkin approximation to linear elliptic problems with nonhomogeneous Dirichlet data. Journal of Computational and Applied Mathematics, 2009, 228, 30-40.	2.0	5
47	Mixed Discontinuous Galerkin Finite Element Method for the Biharmonic Equation. Journal of Scientific Computing, 2008, 37, 139-161.	2.3	54
48	hp-Discontinuous Galerkin methods for strongly nonlinear elliptic boundary value problems. Numerische Mathematik, 2008, 109, 233-268.	1.9	25
49	An explicit/implicit Galerkin domain decomposition procedure for parabolic integro-differential equations. Journal of Applied Mathematics and Computing, 2008, 28, 295-311.	2.5	6
50	Mortar element methods for parabolic problems. Numerical Methods for Partial Differential Equations, 2008, 24, 1460-1484.	3.6	7
51	An hp -local discontinuous Galerkin method for some quasilinear elliptic boundary value problems of nonmonotone type. Mathematics of Computation, 2007, 77, 731-757.	2.1	21
52	Discontinuous Galerkin Methods for Quasi-Linear Elliptic Problems of Nonmonotone Type. SIAM Journal on Numerical Analysis, 2007, 45, 163-192.	2.3	37
53	Finite volume element method for the incompressible miscible displacement problems in porous media. Proceedings in Applied Mathematics and Mechanics, 2007, 7, 2020015-2020016.	0.2	1
54	On a Linearized Backward Euler Method for the Equations of Motion of Oldroyd Fluids of Order One. SIAM Journal on Numerical Analysis, 2006, 44, 804-825.	2.3	34

#	ARTICLE	IF	CITATIONS
55	Orthogonal cubic spline collocation method for the extended Fisher-Kolmogorov equation. Journal of Computational and Applied Mathematics, 2005, 174, 101-117.	2.0	61
56	Semidiscrete finite element Galerkin approximations to the equations of motion arising in the Oldroyd model. IMA Journal of Numerical Analysis, 2005, 25, 750-782.	2.9	39
57	Sliding Motion and Stability of a Class of Discontinuous Dynamical Systems. Nonlinear Dynamics, 2004, 37, 151-168.	5.2	4
58	Higher order fully discrete scheme combined with H ¹ -Galerkin mixed finite element method for semilinear reaction-diffusion equations. Journal of Applied Mathematics and Computing, 2004, 15, 1-28.	2.5	8
59	Finite Element Methods for Parabolic Variational Inequalities with a Volterra Term. Numerical Functional Analysis and Optimization, 2003, 24, 107-127.	1.4	2
60	The Effect of Spatial Quadrature on the Semidiscrete Finite Element Galerkin Method for a Strongly Damped Wave Equation. Numerical Functional Analysis and Optimization, 2003, 24, 311-325.	1.4	2
61	Mixed finite element method for a strongly damped wave equation. Numerical Methods for Partial Differential Equations, 2001, 17, 105-119.	3.6	18
62	A second-order splitting combined with orthogonal cubic spline collocation method for the Rosenau equation. Numerical Methods for Partial Differential Equations, 1998, 14, 695-716.	3.6	51
63	An H ¹ -Galerkin Mixed Finite Element Method for Parabolic Partial Differential Equations. SIAM Journal on Numerical Analysis, 1998, 35, 712-727.	2.3	88
64	A second-order splitting combined with orthogonal cubic spline collocation method for the Rosenau equation. Numerical Methods for Partial Differential Equations, 1998, 14, 695-716.	3.6	1
65	Finite Element Methods with Numerical Quadrature for Parabolic Integro-differential Equations. SIAM Journal on Numerical Analysis, 1996, 33, 1084-1105.	2.3	35
66	A finite element method for a diffusion equation with constrained energy and nonlinear boundary conditions. Journal of the Australian Mathematical Society Series B Applied Mathematics, 1993, 35, 87-102.	0.2	9
67	A finite element method for a single phase semilinear stefan problem in one space dimension. Numerical Functional Analysis and Optimization, 1991, 12, 153-171.	1.4	10