

Amiya K Pani

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	AnH1-Galerkin Mixed Finite Element Method for Parabolic Partial Differential Equations. SIAM Journal on Numerical Analysis, 1998, 35, 712-727.	2.3	88
2	Orthogonal cubic spline collocation method for the extended Fisher-Kolmogorov equation. Journal of Computational and Applied Mathematics, 2005, 174, 101-117.	2.0	61
3	Mixed Discontinuous Galerkin Finite Element Method for the Biharmonic Equation. Journal of Scientific Computing, 2008, 37, 139-161.	2.3	54
4	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
5	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
6	Discontinuous Galerkin Methods for Quasi-Linear Elliptic Problems of Nonmonotone Type. SIAM Journal on Numerical Analysis, 2007, 45, 163-192.	2.3	37
7	Finite Element Methods with Numerical Quadrature for Parabolic Integrodifferential Equations. SIAM Journal on Numerical Analysis, 1996, 33, 1084-1105.	2.3	35
8	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
9	hp-Discontinuous Galerkin methods for strongly nonlinear elliptic boundary value problems. Numerische Mathematik, 2008, 109, 233-268.	1.9	25
10	Mixed finite element methods for a fourth order reaction diffusion equation. Numerical Methods for Partial Differential Equations, 2012, 28, 1227-1251.	3.6	24
11	Optimal Error Analysis of a FEM for Fractional Diffusion Problems by Energy Arguments. Journal of Scientific Computing, 2018, 74, 519-535.	2.3	22
12	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
13	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
14	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
15	Mixed finite element method for a strongly damped wave equation. Numerical Methods for Partial Differential Equations, 2001, 17, 105-119.	3.6	18
16	Error analysis of a FVEM for fractional order evolution equations with nonsmooth initial data. ESAIM: Mathematical Modelling and Numerical Analysis, 2018, 52, 773-801.	1.9	17
17	Optimal error estimates for semidiscrete Galerkin approximations to equations of motion described by Kelvin-Voigt viscoelastic fluid flow model. Journal of Computational and Applied Mathematics, 2016, 302, 234-257.	2.0	16
18	Error analysis of nonconforming and mixed FEMs for second-order linear non-selfadjoint and indefinite elliptic problems. Numerische Mathematik, 2016, 133, 557-597.	1.9	15

#	ARTICLE	IF	CITATIONS
19	An hp-local Discontinuous Galerkin Method for Parabolic Integro-Differential Equations. Journal of Scientific Computing, 2011, 46, 71-99.	2.3	14
20	Superconvergent discontinuous Galerkin methods for nonlinear elliptic equations. Mathematics of Computation, 2013, 82, 1297-1335.	2.1	14
21	On a two-grid finite element scheme for the equations of motion arising in Kelvin-Voigt model. Advances in Computational Mathematics, 2014, 40, 1043-1071.	1.6	13
22	On Kirchhoff's Model of Parabolic Type. Numerical Functional Analysis and Optimization, 2016, 37, 719-752.	1.4	13
23	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
24	A modified nonlinear spectral Galerkin method for the equations of motion arising in the Kelvin-Voigt fluids. Applicable Analysis, 2014, 93, 1587-1610.	1.3	12
25	Comparison results and unified analysis for first-order finite volume element methods for a Poisson model problem. IMA Journal of Numerical Analysis, 2016, 36, 1120-1142.	2.9	11
26	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
27	Alternating Direction Implicit Galerkin Methods for an Evolution Equation with a Positive-Type Memory Term. Journal of Scientific Computing, 2015, 65, 1166-1188.	2.3	10
28	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
29	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
30	Superconvergent Discontinuous Galerkin Methods for Linear Non-selfadjoint and Indefinite Elliptic Problems. Journal of Scientific Computing, 2013, 54, 45-76.	2.3	8
31	Finite element Galerkin approximations to a class of nonlinear and nonlocal parabolic problems. Numerical Methods for Partial Differential Equations, 2016, 32, 1232-1264.	3.6	8
32	A Priori and A Posteriori Estimates of Conforming and Mixed FEM for a Kirchhoff Equation of Elliptic Type. Computational Methods in Applied Mathematics, 2017, 17, 217-236.	0.8	8
33	Mortar element methods for parabolic problems. Numerical Methods for Partial Differential Equations, 2008, 24, 1460-1484.	3.6	7
34	Expanded mixed FEM with lowest order RT elements for nonlinear and nonlocal parabolic problems. Advances in Computational Mathematics, 2018, 44, 1537-1571.	1.6	7
35	Higher Order Time Stepping Methods for Subdiffusion Problems Based on Weighted and Shifted Grunwald-Letnikov Formulae with Nonsmooth Data. Journal of Scientific Computing, 2020, 83, 1.	2.3	7
36	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

#	ARTICLE	IF	CITATIONS
37	Optimal error estimates of mixed FEMs for second order hyperbolic integro-differential equations with minimal smoothness on initial data. Journal of Computational and Applied Mathematics, 2015, 275, 113-134.	2.0	6
38	On three steps two-grid finite element methods for the 2D-transient Navier-Stokes equations. Journal of Numerical Mathematics, 2017, 25, .	3.5	6
39	Asymptotic Analysis and Optimal Error estimates for Benjaminâ€Bonaâ€Mahonyâ€Burgers' Type Equations. Numerical Methods for Partial Differential Equations, 2018, 34, 1053-1092.	3.6	6
40	Superconvergence of a class of expanded discontinuous Galerkin methods for fully nonlinear elliptic problems in divergence form. Journal of Computational and Applied Mathematics, 2018, 333, 215-234.	2.0	6
41	A priori error estimates of expanded mixed FEM for Kirchhoff type parabolic equation. Numerical Algorithms, 2020, 83, 125-147.	1.9	6
42	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
43	Morley FEM for the fourth-order nonlinear reaction-diffusion problems. Computers and Mathematics With Applications, 2021, 99, 229-245.	2.7	6
44	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
45	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
46	OPTIMAL ESTIMATES FOR THE SEMIDISCRETE GALERKIN METHOD APPLIED TO PARABOLIC INTEGRO-DIFFERENTIAL EQUATIONS WITH NONSMOOTH DATA. ANZIAM Journal, 2014, 55, 245-266.	0.2	5
47	Asymptotic behavior and finite element error estimates of Kelvin-Voigt viscoelastic fluid flow model. Numerical Algorithms, 2017, 75, 619-653.	1.9	5
48	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
49	Sliding Motion and Stability of a Class of Discontinuous Dynamical Systems. Nonlinear Dynamics, 2004, 37, 151-168.	5.2	4
50	A Robin-type non-overlapping domain decomposition procedure for second order elliptic problems. Advances in Computational Mathematics, 2011, 34, 339-368.	1.6	4
51	Stabilization of Kelvinâ€Voigt viscoelastic fluid flow model. Applicable Analysis, 2019, 98, 2284-2307.	1.3	4
52	High-order discrete-time orthogonal spline collocation methods for singularly perturbed 1D parabolic reactionâ€diffusion problems. Numerical Methods for Partial Differential Equations, 2020, 36, 495-523.	3.6	4
53	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
54	A priori hp-estimates for discontinuous Galerkin approximations to linear hyperbolic integro-differential equations. Applied Numerical Mathematics, 2015, 96, 1-23.	2.1	3

#	ARTICLE	IF	CITATIONS
55	Superconvergent discontinuous Galerkin methods for nonlinear parabolic initial and boundary value problems. <i>Journal of Numerical Mathematics</i> , 2019, 27, 183-202.	3.5	3
56	A First-Order Explicit-Implicit Splitting Method for a Convection-Diffusion Problem. <i>Computational Methods in Applied Mathematics</i> , 2020, 20, 769-782.	0.8	3
57	Finite Element Methods for Parabolic Variational Inequalities with a Volterra Term. <i>Numerical Functional Analysis and Optimization</i> , 2003, 24, 107-127.	1.4	2
58	The Effect of Spatial Quadrature on the Semidiscrete Finite Element Galerkin Method for a Strongly Damped Wave Equation. <i>Numerical Functional Analysis and Optimization</i> , 2003, 24, 311-325.	1.4	2
59	Mixed FEM for Time-Fractional Diffusion Problems with Time-Dependent Coefficients. <i>Journal of Scientific Computing</i> , 2020, 83, 1.	2.3	2
60	Stability of mixed FEMs for non-selfadjoint indefinite second-order linear elliptic PDEs. <i>Numerische Mathematik</i> , 2022, 150, 975-992.	1.9	2
61	Finite volume element method for the incompressible miscible displacement problems in porous media. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2007, 7, 2020015-2020016.	0.2	1
62	Morley finite element method for the von Kármán obstacle problem. <i>ESAIM: Mathematical Modelling and Numerical Analysis</i> , 2021, 55, 1873-1894.	1.9	1
63	A second-order splitting combined with orthogonal cubic spline collocation method for the Rosenau equation. <i>Numerical Methods for Partial Differential Equations</i> , 1998, 14, 695-716.	3.6	1
64	Finite Element Penalty Method for the Oldroyd Model of Order One with Non-smooth Initial Data. <i>Computational Methods in Applied Mathematics</i> , 2022, 22, 297-325.	0.8	1
65	Primal Hybrid Method For Quasilinear Parabolic Problems. <i>Journal of Scientific Computing</i> , 2022, 92, .	2.3	1
66	Error analysis for a vorticity/Bernoulli pressure formulation for the Oseen equations. <i>Journal of Numerical Mathematics</i> , 2021, .	3.5	0
67	Negative norm estimates and superconvergence results in Galerkin method for strongly nonlinear parabolic problems. <i>Computers and Mathematics With Applications</i> , 2021, 99, 26-36.	2.7	0