Yidu Yang

List of Publications by Year in descending order

64 papers	692 citations	623734 14 h-index	642732 23 g-index
64 all docs	64 docs citations	64 times ranked	128 citing authors

#	Article	IF	Citations
1	Two-Grid Finite Element Discretization Schemes Based on Shifted-Inverse Power Method for Elliptic Eigenvalue Problems. SIAM Journal on Numerical Analysis, 2011, 49, 1602-1624.	2.3	72
2	Eigenvalue approximation from below using non-conforming finite elements. Science China Mathematics, 2010, 53, 137-150.	1.7	60
3	Mixed Methods for the Helmholtz Transmission Eigenvalues. SIAM Journal of Scientific Computing, 2016, 38, A1383-A1403.	2.8	40
4	Nonconforming finite element approximations of the Steklov eigenvalue problem. Applied Numerical Mathematics, 2009, 59, 2388-2401.	2.1	37
5	A two-grid method of the non-conforming Crouzeixâ€“Raviart element for the Steklov eigenvalue problem. Applied Mathematics and Computation, 2011, 217, 9669-9678.	2.2	28
6	A two-grid discretization scheme for the Steklov eigenvalue problem. Journal of Applied Mathematics and Computing, 2011, 36, 129-139.	2.5	27
7	Eigenvalue approximations from below using Morley elements. Advances in Computational Mathematics, 2012, 36, 443-450.	1.6	23
8	Local and Parallel Finite Element Discretizations for Eigenvalue Problems. SIAM Journal of Scientific Computing, 2013, 35, A2575-A2597.	2.8	21
9	Non-conforming finite element methods for transmission eigenvalue problem. Computer Methods in Applied Mechanics and Engineering, 2016, 307, 144-163.	6.6	21
10	The Shifted-Inverse Iteration Based on the Multigrid Discretizations for Eigenvalue Problems. SIAM Journal of Scientific Computing, 2015, 37, A2583-A2606.	2.8	19
11	A new multigrid finite element method for the transmission eigenvalue problems. Applied Mathematics and Computation, 2017, 292, 96-106.	2.2	18
12	Upper spectral bounds and a posteriori error analysis of several mixed finite element approximations for the Stokes eigenvalue problem. Science China Mathematics, 2013, 56, 1313-1330.	1.7	17
13	The order-preserving convergence for spectral approximation of self-adjoint completely continuous operators. Science in China Series A: Mathematics, 2008, 51, 1232-1242.	0.5	15
14	A new adaptive mixed finite element method based on residual type a posterior error estimates for the Stokes eigenvalue problem. Numerical Methods for Partial Differential Equations, 2015, 31, 31-53.	3.6	14
15	Generalized Rayleigh quotient and finite element two-grid discretization schemes. Science in China Series A: Mathematics, 2009, 52, 1955-1972.	0.5	13
16	Multiscale Discretization Scheme Based on the Rayleigh Quotient Iterative Method for the Steklov Eigenvalue Problem. Mathematical Problems in Engineering, 2012, 2012, 1-18.	1.1	13
17	The adaptive finite element method based on multi-scale discretizations for eigenvalue problems. Computers and Mathematics With Applications, 2013, 65, 1086-1102.	2.7	13
18	A <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si91.gif" display="inline" overflow="scroll"><mml:msup><mml:mrow><mml:mi>C</mml:mi></mml:mrow><mml:mrow><mml:mn>0</mml:mn></mml:mrow></m mathvariant="normal"><mml:mi>IPG</mml:mi></mml:mstyle></mml:math> method and its error estimates for the Helmholtz transmission eigenvalue problem. Journal of Computational and Applied Mathematics, 2017, 326, 71-86.	2.0	13

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19	An adaptive algorithm based on the shifted inverse iteration for the Steklov eigenvalue problem. Applied Numerical Mathematics, 2016, 105, 64-81.	2.1	12
20	Lower spectral bounds by Wilson's brick discretization. Applied Numerical Mathematics, 2010, 60, 782-787.	2.1	11
21	Conforming Finite Element Approximations for a Fourth-Order Steklov Eigenvalue Problem. Mathematical Problems in Engineering, 2011, 2011, 1-13.	1.1	11
22	The multilevel mixed finite element discretizations based on local defect-correction for the Stokes eigenvalue problem. Computer Methods in Applied Mechanics and Engineering, 2015, 289, 249-266.	6.6	11
23	The Lower/Upper Bound Property of the Crouzeixâ€“Raviart Element Eigenvalues on Adaptive Meshes. Journal of Scientific Computing, 2015, 62, 284-299.	2.3	11
24	An Adaptive Finite Element Method for the Transmission Eigenvalue Problem. Journal of Scientific Computing, 2016, 69, 1279-1300.	2.3	11
25	Two-grid discretizations and a local finite element scheme for a non-selfadjoint Stekloff eigenvalue problem. Computers and Mathematics With Applications, 2020, 79, 1895-1913.	2.7	11
26	A type of adaptive <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" id="d1e1674" altimg="si6.svg"><mml:msup><mml:mrow><mml:mi>C</mml:mi></mml:mrow><mml:mrow><mml:mn>0</mml:mn></mml:mrow></mml:msup></mml:math> non-conforming finite element method for the Helmholtz transmission eigenvalue problem. Computer Methods in Applied Mechanics and Engineering, 2020, 360, 112697.	6.6	10
27	A Two-Scale Discretization Scheme for Mixed Variational Formulation of Eigenvalue Problems. Abstract and Applied Analysis, 2012, 2012, 1-29.	0.7	9
28	Local a priori/a posteriori error estimates of conforming finite elements approximation for Steklov eigenvalue problems. Science China Mathematics, 2014, 57, 1319-1329.	1.7	8
29	An H m -conforming spectral element method on multi-dimensional domain and its application to transmission eigenvalues. Science China Mathematics, 2017, 60, 1529-1542.	1.7	8
30	A multigrid correction scheme for a new Steklov eigenvalue problem in inverse scattering. International Journal of Computer Mathematics, 2020, 97, 1412-1430.	1.8	8
31	C 0IPG adaptive algorithms for the biharmonic eigenvalue problem. Numerical Algorithms, 2018, 78, 553-567.	1.9	7
32	A Class of Spectral Element Methods and Its A Priori/A Posteriori Error Estimates for 2nd-Order Elliptic Eigenvalue Problems. Abstract and Applied Analysis, 2013, 2013, 1-14.	0.7	6
33	A Multilevel Correction Method for Convection-Diffusion Eigenvalue Problems. Mathematical Problems in Engineering, 2015, 2015, 1-10.	1.1	6
34	Multilevel finite element discretizations based on local defect correction for nonsymmetric eigenvalue problems. Computers and Mathematics With Applications, 2015, 70, 1799-1816.	2.7	6
35	Local and parallel finite element algorithms for the Steklov eigenvalue problem. Numerical Methods for Partial Differential Equations, 2016, 32, 399-417.	3.6	6
36	Mixed methods for the elastic transmission eigenvalue problem. Applied Mathematics and Computation, 2020, 374, 125081.	2.2	6

#	Article	IF	Citations
37	An adaptive C0IPG method for the Helmholtz transmission eigenvalue problem. Science China Mathematics, 2018, 61, 1519-1542.	1.7	5
38	The two-grid discretization of Ciarletâ€“Raviart mixed method for biharmonic eigenvalue problems. Applied Numerical Mathematics, 2019, 138, 94-113.	2.1	5
39	Local and parallel finite element method for solving the biharmonic eigenvalue problem of plate vibration. Numerical Methods for Partial Differential Equations, 2019, 35, 851-869.	3.6	5
40	Non-conforming Crouzeix-Raviart element approximation for Stekloff eigenvalues in inverse scattering. Advances in Computational Mathematics, 2020, 46, 1.	1.6	5
41	Multigrid Discretization and Iterative Algorithm for Mixed Variational Formulation of the Eigenvalue Problem of Electric Field. Abstract and Applied Analysis, 2012, 2012, 1-25.	0.7	4
42	A note on the residual type a posteriori error estimates for finite element eigenpairs of nonsymmetric elliptic eigenvalue problems. Applied Numerical Mathematics, 2014, 82, 51-67.	2.1	4
43	The lower bound property of the Morley element eigenvalues. Computers and Mathematics With Applications, 2016, 72, 904-920.	2.7	4
44	The a Priori and a Posteriori Error Estimates of DG Method for the Steklov Eigenvalue Problem in Inverse Scattering. Journal of Scientific Computing, 2022, 91, 1.	2.3	4
45	The extrapolation of numerical eigenvalues by finite elements for differential operators. Applied Numerical Mathematics, 2013, 69, 59-72.	2.1	3
46	Spectral Method with the Tensor-Product Nodal Basis for the Steklov Eigenvalue Problem. Mathematical Problems in Engineering, 2013, 2013, 1-9.	1.1	3
47	The adaptive Ciarletâ€“Raviart mixed method for biharmonic problems with simply supported boundary condition. Applied Mathematics and Computation, 2018, 339, 206-219.	2.2	3
48	Local and Parallel Finite Element Algorithms for the Transmission Eigenvalue Problem. Journal of Scientific Computing, 2019, 78, 351-375.	2.3	3
49	Guaranteed lower eigenvalue bounds for two spectral problems arising in fluid mechanics. Computers and Mathematics With Applications, 2021, 90, 66-72.	2.7	3
50	Two-grid Discretization Schemes of the Nonconforming FEM for Eigenvalue Problems. Journal of Computational Mathematics, 2009, 27, 748-763.	0.4	3
51	The a posteriori error estimates and adaptive computation of nonconforming mixed finite elements for the Stokes eigenvalue problem. Applied Mathematics and Computation, 2022, 421, 126951.	2.2	3
52	A two-grid discretization scheme of non-conforming finite elements for transmission eigenvalues. Computers and Mathematics With Applications, 2018, 75, 520-533.	2.7	2
53	A correction method for finding lower bounds of eigenvalues of the secondâ€order elliptic and Stokes operators. Numerical Methods for Partial Differential Equations, 2019, 35, 2149-2170.	3.6	2
54	Multiscale finite element discretizations based on local defect correction for the biharmonic eigenvalue problem of plate buckling. Mathematical Methods in the Applied Sciences, 2019, 42, 999-1017.	2.3	2

#	Article	IF	Citations
55	Guaranteed Lower Bounds for the Elastic Eigenvalues by Using the Nonconforming Crouzeixâ€“Raviart Finite Element. Mathematics, 2020, 8, 1252.	2.2	2
56	Highly Efficient Calculation Schemes of Finite-Element Filter Approach for the Eigenvalue Problem of Electric Field. Mathematical Problems in Engineering, 2012, 2012, 1-21.	1.1	1
57	Two-grid Discretization Schemes Based on the Filter Approach for the Maxwell Eigenvalue Problem. Procedia Engineering, 2012, 37, 143-149.	1.2	1
58	Adaptive Morley element algorithms for the biharmonic eigenvalue problem. Journal of Inequalities and Applications, 2018, 2018, 55.	1.1	1
59	A lockingâ€free shifted inverse iteration based on multigrid discretization for the elastic eigenvalue problem. Mathematical Methods in the Applied Sciences, 2021, 44, 5821-5838.	2.3	1
60	The adaptive finite element method for the Steklov eigenvalue problem in inverse scattering. Open Mathematics, 2020, 18, 216-236.	1.0	1
61	A posteriori error estimates for the nonconforming EQ<inf>1</inf>^{rot} element. , 2010, , .		0
62	An Adaptive Nonconforming Finite Element Algorithm for Laplace Eigenvalue Problem. Abstract and Applied Analysis, 2014, 2014, 1-15.	0.7	0
63	A Multilevel Correction Scheme for the Steklov Eigenvalue Problem. Mathematical Problems in Engineering, 2015, 2015, 1-11.	1.1	0
64	An adaptive finite element method for the elastic transmission eigenvalue problem. Discrete and Continuous Dynamical Systems - Series B, 2022, .	0.9	0