

CITATION REPORT

List of articles citing

The Mathematical Theory of Finite Element Methods

DOI: 10.1007/978-1-4757-3658-8
Texts in Applied Mathematics, 2002, , .

Source: <https://exaly.com/paper-pdf/83456469/citation-report.pdf>

Version: 2024-04-28

This report has been generated based on the citations recorded by exaly.com for the above article. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

#	Paper	IF	Citations
581	Poincaré-Friedrichs Inequalities for Piecewise H1 Functions. 2003 , 41, 306-324		287
580	Shape representation via harmonic embedding. 2003 ,		11
579	Analysis of total variation flow and its finite element approximations. <i>ESAIM: Mathematical Modelling and Numerical Analysis</i> , 2003 , 37, 533-556	1.8	70
578	Finite Element Methods. 2004 ,		16
577	Poincaré-Friedrichs Inequalities for Piecewise H 2 Functions. 2004 , 25, 463-478		43
576	A flexible local approximation method for electro- and magnetostatics. 2004 , 40, 941-944		10
575	Stability and Convergence of a Class of Finite Element Schemes for Hyperbolic Systems of Conservation Laws. 2004 , 42, 1357-1393		12
574	Least-Squares Finite Element Methods and Algebraic Multigrid Solvers for Linear Hyperbolic PDEs. 2004 , 26, 31-54		34
573	Surface Diffusion of Graphs: Variational Formulation, Error Analysis, and Simulation. 2004 , 42, 773-799		30
572	Finite Element Methods for a Modified Reissner-Mindlin Free Plate Model. 2004 , 42, 1572-1591		20
571	Galerkin Finite Element Approximations of Stochastic Elliptic Partial Differential Equations. 2004 , 42, 800-825		603
570	Least-Squares Methods for Linear Elasticity. 2004 , 42, 826-842		86
569	Approximations of Very Weak Solutions to Boundary-Value Problems. 2004 , 42, 860-877		33
568	Numerical Homogenization of Nonlinear Random Parabolic Operators. 2004 , 2, 237-268		61
567	. 2005 , 41, 2206-2225		38
566	A characteristic nonoverlapping domain decomposition method for multidimensional convection-diffusion equations. <i>Numerical Methods for Partial Differential Equations</i> , 2005 , 21, 89-103	2.5	8
565	An adaptive least squares mixed finite element method for the stress-displacement formulation of linear elasticity. <i>Numerical Methods for Partial Differential Equations</i> , 2005 , 21, 132-148	2.5	34

564	Convergence of V- and F-cycle multigrid methods for the biharmonic problem using the Hsieh-Clough-Tocher element. <i>Numerical Methods for Partial Differential Equations</i> , 2005 , 21, 451-471	2.5	5
563	A posteriori error estimation for the dual mixed finite element method of the elasticity problem in a polygonal domain. <i>Numerical Methods for Partial Differential Equations</i> , 2005 , 21, 938-960	2.5	4
562	Error estimates in W_2 -semi-norms for discrete interpolating D2-splines. <i>Numerische Mathematik</i> , 2005 , 101, 573-599	2.2	1
561	Bubble finite elements for the primitive equations of the ocean. <i>Numerische Mathematik</i> , 2005 , 101, 689-728	2.2	6
560	Two-level additive Schwarz preconditioners for C^0 interior penalty methods. <i>Numerische Mathematik</i> , 2005 , 102, 231-255	2.2	37
559	Flexible piecewise approximations based on partition of unity. 2005 , 23, 191-199		7
558	On the finite element method for the biharmonic dirichlet problem in polygonal domains; quasi-optimal rate of convergence. 2005 , 22, 45-56		3
557	C^0 Interior Penalty Methods for Fourth Order Elliptic Boundary Value Problems on Polygonal Domains. 2005 , 22-23, 83-118		173
556	Finite element approximation of a phase field model for surface diffusion of voids in a stressed solid. 2005 , 75, 7-42		13
555	Robusta prior error analysis for the approximation of degree-one Ginzburg-Landau vortices. <i>ESAIM: Mathematical Modelling and Numerical Analysis</i> , 2005 , 39, 863-882	1.8	3
554	A chemical waveform synthesizer. 2005 , 102, 8097-102		47
553	SYMMETRY REDUCTIONS AND A POSTERIORI FINITE ELEMENT ERROR ESTIMATORS FOR BIFURCATION PROBLEMS. 2005 , 15, 2091-2107		4
552	NEW FICTITIOUS DOMAIN METHODS: FORMULATION AND ANALYSIS. 2005 , 15, 1575-1594		3
551	A Priori Error Estimates for the Finite Element Discretization of Elliptic Parameter Identification Problems with Pointwise Measurements. 2005 , 44, 1844-1863		37
550	Projection Multilevel Methods for Quasi-linear PDEs: V-cycle Theory. 2005 , 4, 1339-1348		1
549	A \mathcal{V} -cycle Multigrid Approach for Mortar Finite Elements. 2005 , 42, 2476-2495		10
548	Explicit and Averaging A Posteriori Error Estimates for Adaptive Finite Volume Methods. 2005 , 42, 2496-2521		37
547	An Euler-Bernoulli Beam with Dynamic Contact: Discretization, Convergence, and Numerical Results. 2005 , 43, 1455-1480		12

546	Optimal Error Estimates for Linear Parabolic Problems with Discontinuous Coefficients. 2005 , 43, 733-749	37
545	Generalized Green's Functions and the Effective Domain of Influence. 2005 , 26, 1314-1339	40
544	Optimizing the Evaluation of Finite Element Matrices. 2005 , 27, 741-758	36
543	A C^2 Trivariate Macroelement Based on the Worsley--Farin Split of a Tetrahedron. 2005 , 43, 1750-1765	6
542	On the Convergence of a General Class of Finite Volume Methods. 2005 , 43, 987-1002	5
541	The Gauge--Uzawa Finite Element Method. Part I: The Navier--Stokes Equations. 2005 , 43, 1043-1068	48
540	Numerical Conservation Properties of H(div)-Conforming Least-Squares Finite Element Methods for the Burgers Equation. 2005 , 26, 1573-1597	17
539	A Least-Squares Mixed Finite Element Method for Biot's Consolidation Problem in Porous Media. 2005 , 43, 318-339	33
538	Analysis of First-Order System Least Squares (FOSLS) for Elliptic Problems with Discontinuous Coefficients: Part I. 2005 , 43, 386-408	32
537	Robust A Posteriori Error Estimation for Nonconforming Finite Element Approximation. 2005 , 42, 2320-2341	88
536	Analysis of First-Order System Least Squares (FOSLS) for Elliptic Problems with Discontinuous Coefficients: Part II. 2005 , 43, 409-436	21
535	Perturbations of Forms and Error Estimates for the Finite Element Method at a Point, with an Application to Improved Superconvergence Error Estimates for Subspaces that Are Symmetric with Respect to a Point. 2005 , 42, 2342-2365	8
534	Quadrilateral H(div) Finite Elements. 2005 , 42, 2429-2451	152
533	Convergence of the Mimetic Finite Difference Method for Diffusion Problems on Polyhedral Meshes. 2005 , 43, 1872-1896	265
532	The FeasNewt benchmark.	4
531	Improving the Rate of Convergence of High-Order Finite Elements on Polyhedra I: A Priori Estimates. 2005 , 26, 613-639	37
530	Surface Parameterization: a Tutorial and Survey. 2005 , 157-186	375
529	Path-following Methods for a Class of Constrained Minimization Problems in Function Space. 2006 , 17, 159-187	81

528	A Class of Nonsymmetric Preconditioners for Saddle Point Problems. 2006 , 27, 1125-1149		31
527	L2-Projected Least-Squares Finite Element Methods for the Stokes Equations. 2006 , 44, 732-752		4
526	A Multigrid Method for Variable Coefficient Maxwell's Equations. 2006 , 27, 1689-1708		9
525	Multigrid Algorithms for C0 Interior Penalty Methods. 2006 , 44, 199-223		30
524	Computational Methods and Results for Structured Multiscale Models of Tumor Invasion. 2006 , 5, 1-20		42
523	Mathematical theory and numerical analysis of bioluminescence tomography. 2006 , 22, 1659-1675		52
522	On the accuracy of finite difference methods for elliptic problems with interfaces. 2006 , 1, 91-119		69
521	New formulations, positivity preserving discretizations and stability analysis for non-Newtonian flow models. 2006 , 195, 1180-1206		44
520	Harmonic Embeddings for Linear Shape Analysis. 2006 , 25, 341-352		4
519	Hypergeometric Summation Algorithms for High-order Finite Elements. 2006 , 78, 235-249		8
518	Application of Variational a-Posteriori Multiscale Error Estimation to Higher-Order Elements. 2006 , 38, 382-389		12
517	Two-scale composite finite element method for Dirichlet problems on complicated domains. <i>Numerische Mathematik</i> , 2006 , 102, 681-708	2.2	21
516	Interpolation error estimates in $W^{1,p}$ for degenerate Q_1 isoparametric elements. <i>Numerische Mathematik</i> , 2006 , 104, 129-150	2.2	5
515	Pointwise a posteriori error estimates for monotone semi-linear equations. <i>Numerische Mathematik</i> , 2006 , 104, 515-538	2.2	31
514	Determination of the Babuska-Aziz constant for the linear triangular finite element. 2006 , 23, 75-82		23
513	Geometrically nonlinear analysis of shell structures using a flat triangular shell finite element. 2006 , 13, 331-388		32
512	Discontinuous Galerkin methods with plane waves for the displacement-based acoustic equation. 2006 , 66, 549-569		10
511	A convergent adaptive finite element method for the primal problem of elastoplasticity. 2006 , 67, 1851-1887		11

510	A new quadratic nonconforming finite element on rectangles. <i>Numerical Methods for Partial Differential Equations</i> , 2006 , 22, 954-970	2.5	10
509	Piecewise divergence-free discontinuous Galerkin methods for Stokes flow. 2006 , 24, 355-366		14
508	Optimizing FIAT with level 3 BLAS. 2006 , 32, 223-235		10
507	Projection Multilevel Methods for Quasilinear Elliptic Partial Differential Equations: Theoretical Results. 2006 , 44, 139-152		2
506	Projection Multilevel Methods for Quasilinear Elliptic Partial Differential Equations: Numerical Results. 2006 , 44, 120-138		4
505	Fully adaptive FEM based fluorescence optical tomography from time-dependent measurements with area illumination and detection. 2006 , 33, 1299-310		41
504	THE GAUGE-UZAWA FINITE ELEMENT METHOD PART II: THE BOUSSINESQ EQUATIONS. 2006 , 16, 1599-1626		15
503	APPROXIMATE AND LOW REGULARITY DIRICHLET BOUNDARY CONDITIONS IN THE GENERALIZED FINITE ELEMENT METHOD. 2007 , 17, 2115-2142		5
502	Comparison of hp-adaptive methods in finite element electromagnetic wave propagation. 2007 , 26, 431-446		4
501	Improving the Rate of Convergence of High-Order Finite Elements on Polyhedra II: Mesh Refinements and Interpolation. 2007 , 28, 775-824		24
500	Evaluation of the damage in the vault and portico of the pre-Romanesque chapel of San Salvador de Valdediñ using frictional contacts and the finite-element method. 2007 , 84, 377-393		10
499	The output least-squares approach to estimating Lam ^μ moduli. 2007 , 23, 2437-2455		4
498	Adjoint-weighted variational formulation for a direct computational solution of an inverse heat conduction problem. 2007 , 23, 2325-2342		17
497	Effect of discretization error and adaptive mesh generation in diffuse optical absorption imaging: I. 2007 , 23, 1115-1133		13
496	NUMERICAL ANALYSIS OF THE PSI SOLUTION OF ADVECTION-DIFFUSION PROBLEMS THROUGH A PETROV-GALERKIN FORMULATION. 2007 , 17, 1905-1936		5
495	Bioluminescence tomography with optimized optical parameters. 2007 , 23, 1215-1228		17
494	Effect of discretization error and adaptive mesh generation in diffuse optical absorption imaging: II. 2007 , 23, 1135-1160		14
493	Adaptive mesh generation for diffuse optical tomography (Invited Paper). 2007 ,		

492	The Least-Squares Finite Element Method Applied to Fluid-Structure Interaction Problems. 2007 ,		5
491	Mesh parameterization. 2007 ,		124
490	Grid dispersion and stability criteria of some common finite-element methods for acoustic and elastic wave equations. 2007 , 72, T81-T95		134
489	deal.II: a general-purpose object-oriented finite element library. 2007 , 33, 24		814
488	A posteriori error estimation of approximate boundary fluxes. 2007 , 24, 421-434		11
487	Analysis of one-dimensional Helmholtz equation with PML boundary. 2007 , 206, 586-598		2
486	Computation of stress intensity factors in a plane homogeneous anisotropic solid. 2007 , 7, 4030029-4030030		
485	The mixed vector finite element method for modeling electric and magnetic quasi-stationary fields. 2007 , 43, 170-176		
484	Asymptotic exactness of an a posteriori error estimator based on the equilibrated residual method. <i>Numerische Mathematik</i> , 2007 , 106, 225-253	2.2	5
483	A unifying theory of a posteriori error control for nonconforming finite element methods. <i>Numerische Mathematik</i> , 2007 , 107, 473-502	2.2	81
482	Superconvergence in the generalized finite element method. <i>Numerische Mathematik</i> , 2007 , 107, 353-395	2	15
481	A domain decomposition discretization of parabolic problems. <i>Numerische Mathematik</i> , 2007 , 107, 625-640	2	26
480	On the computation of the pure Neumann problem in 2-dimensional elasticity. 2007 , 146, 265-277		6
479	hp-Version a priori Error Analysis of Interior Penalty Discontinuous Galerkin Finite Element Approximations to the Biharmonic Equation. 2007 , 30, 465-491		81
478	Sparse generalized Fourier transforms. 2007 , 47, 213-237		1
477	A new minimization protocol for solving nonlinear Poisson-Boltzmann mortar finite element equation. 2007 , 47, 853-871		51
476	Mesh shape-quality optimization using the inverse mean-ratio metric. 2007 , 110, 561-590		48
475	Stability of a finite element method for 3D exterior stationary Navier-Stokes flows. 2007 , 52, 59-94		3

474	Mechanics of extended continua: modeling and simulation of elastic microstretch materials. 2007 , 40, 651-666		23
473	Neumann-Neumann algorithms for a mortar Crouzeix-Raviart element for 2nd order elliptic problems. 2008 , 48, 607-626		8
472	Automated FEM discretizations for the Stokes equation. 2008 , 48, 389-404		1
471	Mesh Redistribution Strategies and Finite Element Schemes for Hyperbolic Conservation Laws. 2008 , 34, 1-25		5
470	A Richardson-type iterative approach for identification of delamination boundaries. 2008 , 150, 2439-2454		
469	A nonconforming finite element method for a two-dimensional curl-curl and grad-div problem. <i>Numerische Mathematik</i> , 2008 , 109, 509-533	2.2	26
468	The Multiscale Systems Immunology project: software for cell-based immunological simulation. 2008 , 3, 6		19
467	A discontinuous-Galerkin-based immersed boundary method. 2008 , 76, 427-454		70
466	Adaptive finite element approximation of coupled flow and transport problems with applications in heat transfer. 2008 , 57, 1397-1420		11
465	Generalized finite element method for second-order elliptic operators with Dirichlet boundary conditions. 2008 , 218, 175-183		28
464	Efficient computation of the Tikhonov regularization parameter by goal-oriented adaptive discretization. 2008 , 24, 025025		33
463	Third-Order Finite-Difference Schemes on Icosahedral-Type Grids on the Sphere. 2008 , 136, 2683-2698		12
462	Heat Conduction Problems in SF_6 Gas Cooled-Insulated Power Transformers Solved by the Finite-Element Method. 2008 , 23, 1457-1463		15
461	Nonlinear Response Using a Simultaneous, Coupled Least-Squares Finite Element Formulation for Fluid-Structure Interaction. 2008 ,		1
460	Advantages and Disadvantages of a Simultaneously Coupled Least-Squares Finite Element Formulation for Fluid-Structure Interaction. 2008 ,		1
459	Animating developable surfaces using nonconforming elements. 2008 , 27, 1-5		51
458	Algorithm 884. 2008 , 35, 1-11		14
457	Animating developable surfaces using nonconforming elements. 2008 ,		16

456	Adjoint-weighted variational formulation for the direct solution of plane stress inverse elasticity problems. 2008 , 135, 012012		4
455	Mesh parameterization. 2008 ,		55
454	Error and stability estimates for surface-divergence free RBF interpolants on the sphere. 2009 , 78, 2157-2186	13	
453	A heterogeneous alternating-direction method for a micro-macro dilute polymeric fluid model. <i>ESAIM: Mathematical Modelling and Numerical Analysis</i> , 2009 , 43, 1117-1156	1.8	15
452	Finite-element approach to Brownian dynamics of polymers. 2009 , 80, 066704		24
451	A NONCONFORMING PENALTY METHOD FOR A TWO-DIMENSIONAL CURL-CURL PROBLEM. 2009 , 19, 651-668		8
450	Electrowetting with contact line pinning: Computational modeling and comparisons with experiments. 2009 , 21, 102103		73
449	Analysis and study of an automobile rear seat by FEM. 2009 , 86, 640-664		1
448	On the L ² a Priori Error Estimates to the Finite Element Solution of Elliptic Problems with Singular Adjoint Operator. 2009 , 30, 289-305		9
447	A Stabilized Lagrange Multiplier Method for the Finite Element Approximation of Frictional Contact Problems in Elastostatics. 2009 , 4, 163-182		1
446	SOLUTIONS TO PSEUDODIFFERENTIAL EQUATIONS USING SPHERICAL RADIAL BASIS FUNCTIONS. 2009 , 79, 473-485		3
445	Bibliography. 2009 , 131-132		
444	Stable mesh decimation. 2009 ,		2
443	Acoustic Tomography for Scalar and Vector Fields: Theory and Application to Temperature and Wind Estimation. 2009 , 26, 1475-1492		29
442	Role of the defect core in energetics of vacancies. 2009 , 465, 3239-3266		9
441	A FETI-preconditioned conjugate gradient method for large-scale stochastic finite element problems. 2009 , 80, 914-931		38
440	Semi-implicit schemes for transient Navier-Stokes equations and eddy viscosity models. <i>Numerical Methods for Partial Differential Equations</i> , 2009 , 25, 212-231	2.5	14
439	A finite element approach for finding positive solutions of semilinear elliptic Dirichlet problems. <i>Numerical Methods for Partial Differential Equations</i> , 2009 , 25, 1119-1128	2.5	3

438	Numerical methods for Lévy processes. 2009 , 13, 471-500		26
437	Finite element approximation of elliptic partial differential equations on implicit surfaces. 2009 , 12, 87-100		26
436	Fitting multidimensional data using gradient penalties and the sparse grid combination technique. 2009 , 84, 1-25		21
435	A 3D Crouzeix-Raviart mortar finite element. 2009 , 86, 313-330		1
434	A posteriori error estimation and adaptivity for elliptic optimal control problems with state constraints. 2009 , 44, 3-25		53
433	A Priori Error Estimates for Optimal Control Problems Governed by Transient Advection-Diffusion Equations. 2009 , 38, 290-315		31
432	Finite element approximation of elliptic control problems with constraints on the gradient. <i>Numerische Mathematik</i> , 2009 , 111, 335-350	2.2	32
431	Convergent discretizations for the Nernst-Planck-Poisson system. <i>Numerische Mathematik</i> , 2009 , 111, 591-630	2.2	46
430	Finite element error estimates for 3D exterior incompressible flow with nonzero velocity at infinity. <i>Numerische Mathematik</i> , 2009 , 114, 233-270	2.2	1
429	Continuum model of cell adhesion and migration. 2009 , 58, 135-61		54
428	Plane wave discontinuous Galerkin methods: Analysis of theh-version. <i>ESAIM: Mathematical Modelling and Numerical Analysis</i> , 2009 , 43, 297-331	1.8	105
427	Sensitivity of Steady-State Temperatures of SF ₆ Gas-Cooled-Insulated Power Transformers to Selected Parameters. 2009 , 24, 1249-1256		3
426	Adaptive Finite Element Method for Solving the Exact Kohn-Sham Equation of Density Functional Theory. 2009 , 5, 937-48		34
425	Pseudo-conforming polynomial finite elements on quadrilaterals. 2009 , 86, 1798-1816		3
424	Anisotropic mesh adaptivity for multi-scale ocean modelling. 2009 , 367, 4591-611		58
423	Convergent finite element discretizations of the Navier-Stokes-Nernst-Planck-Poisson system. <i>ESAIM: Mathematical Modelling and Numerical Analysis</i> , 2010 , 44, 531-571	1.8	26
422	Well-posedness and Regularity for the Elasticity Equation with Mixed Boundary Conditions on Polyhedral Domains and Domains with Cracks. 2010 , 195, 25-73		46
421	Flux Norm Approach to Finite Dimensional Homogenization Approximations with Non-Separated Scales and High Contrast. 2010 , 198, 677-721		65

420	A novel approach for studies of multispectral bioluminescence tomography. <i>Numerische Mathematik</i> , 2010 , 115, 553-583	2.2	6
419	Finite element method for solving geodetic boundary value problems. 2010 , 84, 135-144		26
418	Analysis of finite element methods for the Brinkman problem. 2010 , 47, 129-147		34
417	Optimal convergence analysis of an immersed interface finite element method. 2010 , 33, 149-168		45
416	A spectral method for elliptic equations: the Dirichlet problem. 2010 , 33, 169-189		15
415	Local projection stabilisation on S-type meshes for convection-diffusion problems with characteristic layers. 2010 , 87, 135-167		16
414	Convergence analysis of the adaptive finite element method with the red-green refinement. 2010 , 53, 499-512		4
413	A lumped mass finite element method for vibration analysis of elastic plate-plate structures. 2010 , 53, 1453-1474		5
412	Object-oriented implementation of 3D DC adaptive finite-element method. 2010 , 4, 229-236		
411	Hierarchical Matrices in Computations of Electron Dynamics. 2010 , 42, 447-455		
410	Discretization error analysis and adaptive meshing algorithms for fluorescence diffuse optical tomography: part II. 2010 , 29, 230-45		5
409	Discretization error analysis and adaptive meshing algorithms for fluorescence diffuse optical tomography: part I. 2010 , 29, 217-29		11
408	Further results on error estimators for local refinement with first-order system least squares (FOSLS). 2010 , 17, 387-413		5
407	Adjoint-weighted variational formulation for the direct solution of inverse problems of general linear elasticity with full interior data. 2010 , 81, 1713-1736		30
406	Vibration analysis for elastic multi-beam structures by the C0-continuous time-stepping finite element method. 2010 , 26, 205-233		3
405	Effect of cell size on the energetics of vacancies in aluminum studied via orbital-free density functional theory. 2010 , 82,		21
404	EXISTENCE AND CONVERGENCE RESULTS FOR THE GALERKIN APPROXIMATION OF AN ELECTRONIC DENSITY FUNCTIONAL. 2010 , 20, 2237-2265		7
403	The extended-domain eigenfunction method for solving elliptic boundary value problems with annular domains. 2010 , 43, 185202		11

402	Sparse tensor discretizations of high-dimensional parametric and stochastic PDEs*. 2011 , 20, 291-467		160
401	A non-overlapping domain decomposition method for continuous-pressure mixed finite element approximations of the Stokes problem. <i>ESAIM: Mathematical Modelling and Numerical Analysis</i> , 2011 , 45, 675-696	1.8	2
400	Thermo-visco-elasticity with rate-independent plasticity in isotropic materials undergoing thermal expansion. <i>ESAIM: Mathematical Modelling and Numerical Analysis</i> , 2011 , 45, 477-504	1.8	34
399	Approximation Theory and Methods. 2011 , 637-843		
398	Convergence of a constrained finite element discretization of the Maxwell Klein Gordon equation. <i>ESAIM: Mathematical Modelling and Numerical Analysis</i> , 2011 , 45, 739-760	1.8	6
397	A Priori and a Posteriori Error Analysis of the Discontinuous Galerkin Methods for Reissner-Mindlin Plates. 2011 , 3, 649-662		2
396	Discretization error analysis and adaptive meshing algorithms for fluorescence diffuse optical tomography in the presence of measurement noise. 2011 , 20, 1094-111		8
395	Simulation of unsteady fluid filtration caused by the exploitation of underground resources. 2011 , 66, 122-124		1
394	Analysis of Galerkin Methods for the Fully Nonlinear Monge-Ampère Equation. 2011 , 47, 303-327		30
393	A new boundary integral equation for molecular electrostatics with charges over whole space. 2011 , 51, 1051-1071		1
392	Discretization of interior point methods for state constrained elliptic optimal control problems: optimal error estimates and parameter adjustment. 2011 , 48, 581-600		26
391	On HSS-based constraint preconditioners for generalized saddle-point problems. 2011 , 57, 273-287		23
390	Cardiac position sensitivity study in the electrocardiographic forward problem using stochastic collocation and boundary element methods. 2011 , 39, 2900-10		31
389	The effect of numerical integration on the finite element approximation of linear functionals. <i>Numerische Mathematik</i> , 2011 , 117, 65-88	2.2	7
388	Analysis of FETI methods for multiscale PDEs. Part II: interface variation. <i>Numerische Mathematik</i> , 2011 , 118, 485-529	2.2	34
387	A priori error estimates for optimal control problems with pointwise constraints on the gradient of the state. <i>Numerische Mathematik</i> , 2011 , 118, 587-600	2.2	15
386	Inf-sup conditions for twofold saddle point problems. <i>Numerische Mathematik</i> , 2011 , 118, 663-693	2.2	38
385	Multi-level Monte Carlo Finite Element method for elliptic PDEs with stochastic coefficients. <i>Numerische Mathematik</i> , 2011 , 119, 123-161	2.2	210

384	An adaptive homotopy approach for non-selfadjoint eigenvalue problems. <i>Numerische Mathematik</i> , 2011 , 119, 557-583	2.2	14
383	A parametric dynamic study on hunting stability of full dual-bogie railway vehicle. 2011 , 12, 505-519		21
382	A two-grid algorithm based on Newton iteration for the stream function form of the Navier-Stokes equations. 2011 , 26, 368-378		2
381	Parameterization of planar curves immersed in triangulations with application to finite elements. 2011 , 88, 556-585		10
380	A posteriori error analysis of nonconforming finite volume elements for general second-order elliptic PDEs. <i>Numerical Methods for Partial Differential Equations</i> , 2011 , 27, 277-291	2.5	4
379	Order optimal preconditioners for fully implicit Runge-Kutta schemes applied to the bidomain equations. <i>Numerical Methods for Partial Differential Equations</i> , 2011 , 27, 1290-1312	2.5	3
378	Convergence Analysis and the Nested Refinement for the Trapezoid Finite Element. 2011 , 317-319, 1921-1925		
377	A sign preserving mixed finite element approximation for contact problems. 2011 , 21, 487-498		
376	Piecewise constant time discontinuous Galerkin method and error estimate. 2011 ,		
375	TANGENTIAL-DISPLACEMENT AND NORMAL-NORMAL-STRESS CONTINUOUS MIXED FINITE ELEMENTS FOR ELASTICITY. 2011 , 21, 1761-1782		46
374	Extended Finite Element Method for Fracture Mechanics and Mesh Refinement Controlled by Density Function. 2012 , 525-526, 413-416		
373	The Weighted Error Estimation of Finite Element Method for Two-Point Boundary Value Problem. 2012 , 182-183, 1571-1574		
372	AN IMPLIED VOLATILITY MODEL DETERMINED BY CREDIT DEFAULT SWAPS. 2012 , 15, 1250049		
371	Parallel Algorithms and Software for Nuclear, Energy, and Environmental Applications. Part II: Multiphysics Software. 2012 , 12, 834-865		11
370	Robust domain decomposition preconditioners for abstract symmetric positive definite bilinear forms. <i>ESAIM: Mathematical Modelling and Numerical Analysis</i> , 2012 , 46, 1175-1199	1.8	87
369	High accuracy mantle convection simulation through modern numerical methods. <i>Geophysical Journal International</i> , 2012 , 191, 12-29	2.6	170
368	ALE-VMS AND ST-VMS METHODS FOR COMPUTER MODELING OF WIND-TURBINE ROTOR AERODYNAMICS AND FLUID-STRUCTURE INTERACTION. 2012 , 22, 1230002		131
367	L ² error estimates and superconvergence of the finite volume element methods on quadrilateral meshes. 2012 , 37, 393-416		16

366 References. **2012**, 305-324

365 References. **2012**, 353-371

364 A splitting mixed space-time discontinuous Galerkin method for parabolic problems. **2012**, 31, 1050-1059 1

363 On the approximation of stability factors for general parametrized partial differential equations with a two-level affine decomposition. *ESAIM: Mathematical Modelling and Numerical Analysis*, **2012**, 46, 1555-1576 1.8 12

362 Implicit a posteriori error estimation using patch recovery techniques. **2012**, 10, 55-72 3

361 Convergence of the mixed finite element method for Maxwell's equations with nonlinear conductivity. *Mathematical Methods in the Applied Sciences*, **2012**, 35, 1489-1504 2.3 3

360 Anisotropic mixed finite elements for elasticity. **2012**, 90, 196-217 21

359 Wind turbine aerodynamics using ALE $\overline{\text{M}}$ S: validation and the role of weakly enforced boundary conditions. **2012**, 50, 499-511 124

358 Goal-Oriented Adaptivity and Multilevel Preconditioning for the Poisson-Boltzmann Equation. **2012**, 52, 202-225 9

357 Continuous piecewise linear finite elements for the Kirchhoff-Love plate equation. *Numerische Mathematik*, **2012**, 121, 65-97 2.2 6

356 Extension of sampling inequalities to Sobolev semi-norms of fractional order and derivative data. *Numerische Mathematik*, **2012**, 121, 587-608 2.2 15

355 Eigenvalue approximations from below using Morley elements. **2012**, 36, 443-450 17

354 An overlapping additive Schwarz preconditioner for the Laplace-Beltrami equation using spherical splines. **2012**, 37, 93-121 1

353 Numerical analysis of the error in the sound power predicted through the Lighthill acoustic analogy. *Numerical Methods for Partial Differential Equations*, **2012**, 28, 204-234 2.5

352 A combined BDF-semismooth Newton approach for time-dependent Bingham flow. *Numerical Methods for Partial Differential Equations*, **2012**, 28, 834-860 2.5 30

351 Real interpolation of spaces of differential forms. **2012**, 270, 395-402 3

350 A domain decomposition method for solving the hypersingular integral equation on the sphere with spherical splines. *Numerische Mathematik*, **2012**, 120, 117-151 2.2 1

349 Simplicial gauge theory on spacetime. *Numerische Mathematik*, **2013**, 125, 733-760 2.2

348	A convergent FEM-DG method for the compressible Navier-Stokes equations. <i>Numerische Mathematik</i> , 2013 , 125, 441-510	2.2	57
347	A high order discontinuous Galerkin Nitsche method for elliptic problems with fictitious boundary. <i>Numerische Mathematik</i> , 2013 , 123, 607-628	2.2	73
346	Precise computation and error control of stress intensity factors and certain integral characteristics in anisotropic inhomogeneous materials. 2013 , 182, 67-91		3
345	Numerical Simulation of a Non-linear Singular Perturbed Schrödinger Equation Using Finite Element Approximation. 2013 , 36, 239-252		5
344	Interpolation and cubature approximations and analysis for a class of wideband integrals on the sphere. 2013 , 39, 547-584		4
343	A Survey About the Equation $\operatorname{div} u=f$ in Bounded Domains of (\mathbb{R}^n) . 2013 , 41, 369-381		3
342	Numerical approaches to thermally coupled perfect plasticity. <i>Numerical Methods for Partial Differential Equations</i> , 2013 , 29, n/a-n/a	2.5	1
341	Pressure jump interface law for the Stokes-Darcy coupling: confirmation by direct numerical simulations. 2013 , 732, 510-536		34
340	Some Remarks on the Optimal Error Estimates for the Finite Element Method on the L-Shaped Domain. 2013 ,		
339	A New Nonsymmetric Discontinuous Galerkin Method for Time Dependent Convection Diffusion Equations. 2013 , 54, 663-683		9
338	Negative-Order Norm Estimates for Nonlinear Hyperbolic Conservation Laws. 2013 , 54, 531-548		14
337	Unbounded Domains. <i>Lecture Notes in Computational Science and Engineering</i> , 2013 , 215-246	0.3	
336	One-Level FETI/BETI Methods. <i>Lecture Notes in Computational Science and Engineering</i> , 2013 , 63-155	0.3	
335	A Rigorous Error Analysis of Coupled FEM-BEM Problems with Arbitrary Many Subdomains. <i>Lecture Notes in Applied and Computational Mechanics</i> , 2013 , 109-132	0.3	4
334	An adaptive enrichment algorithm for advection-dominated problems. 2013 , 72, 359-374		
333	Multiscale Problems. <i>Lecture Notes in Computational Science and Engineering</i> , 2013 , 157-213	0.3	
332	A priori error estimates of finite volume element method for hyperbolic optimal control problems. 2013 , 56, 901-914		9
331	Moving finite element methods for time fractional partial differential equations. 2013 , 56, 1287-1300		39

330 Multi-asset Options. **2013**, 91-103

329 An inexact ℓ_1 penalty SQP algorithm for PDE-constrained optimization with an application to shape optimization in linear elasticity. **2013**, 28, 943-968 6

328 An a priori error estimate for the finite element modelling of electromagnetic waves interacting with a periodic diffraction grating. *Mathematical Methods in the Applied Sciences*, **2013**, 36, 1187-1205 2.3

327 Error reduction of the adaptive conforming and nonconforming finite element methods with red-green refinement. *Numerische Mathematik*, **2013**, 123, 553-584 2.2 3

326 Extended-domain-eigenfunction method (EDEM): a study of ill posedness and regularization. **2013**, 46, 085207 1

325 A dual weighted residual method applied to complex periodic gratings. **2013**, 469, 20130176 3

324 AFEM for Geometric PDE: The Laplace-Beltrami Operator. **2013**, 257-306 5

323 Is random walk truly memoryless? Traffic analysis and source location privacy under random walks. **2013**, 7 7

322 AN ADAPTIVE FINITE ELEMENT APPROXIMATION OF A GENERALIZED AMBROSIO-ORTORELLI FUNCTIONAL. **2013**, 23, 1663-1697 46

321 Development and L2-Analysis of a Single-Step Characteristics Finite Difference Scheme of Second Order in Time for Convection-Diffusion Problems. **2013**, 7, 343-380 7

320 Sparse Grid Collocation Method for an Optimal Control Problem Involving a Stochastic Partial Differential Equation with Random Inputs. **2014**, 4, 166-188 2

319 Reconstruction of constitutive parameters in isotropic linear elasticity from noisy full-field measurements. **2014**, 30, 125004 14

318 Reconstruction of Neumann eigenvalues and support of sound hard obstacles. **2014**, 30, 065011

317 Addressing integration error for polygonal finite elements through polynomial projections: A patch test connection. **2014**, 24, 1701-1727 51

316 BEST N-TERM GPC APPROXIMATIONS FOR A CLASS OF STOCHASTIC LINEAR ELASTICITY EQUATIONS. **2014**, 24, 513-552 2

315 An Adaptive Nonconforming Finite Element Algorithm for Laplace Eigenvalue Problem. **2014**, 2014, 1-15

314 Lattice Boltzmann scheme for electrolytes by an extended Maxwell-Stefan approach. **2014**, 89, 053310 11

313 Subquadratic-scaling subspace projection method for large-scale Kohn-Sham density functional theory calculations using spectral finite-element discretization. **2014**, 90, 26

312	Variable-Domain Functional Regression for Modeling ICU Data. 2014 , 109, 1425-1439		23
311	A mixed formulation of a sharp interface model of stokes flow with moving contact lines. <i>ESAIM: Mathematical Modelling and Numerical Analysis</i> , 2014 , 48, 969-1009	1.8	5
310	Mathematical Framework. <i>Scientific Computation</i> , 2014 , 3-38	0.1	
309	Maxwell and Eddy Current Equations. <i>Scientific Computation</i> , 2014 , 39-54	0.1	
308	Two-Dimensional Models. <i>Scientific Computation</i> , 2014 , 55-77	0.1	
307	Three-Dimensional Models. <i>Scientific Computation</i> , 2014 , 79-101	0.1	
306	Axisymmetric Models. <i>Scientific Computation</i> , 2014 , 103-127	0.1	
305	Eddy Current Models with Thin Inductors. <i>Scientific Computation</i> , 2014 , 129-152	0.1	
304	Numerical Methods. <i>Scientific Computation</i> , 2014 , 153-194	0.1	
303	Induction Heating Processes. <i>Scientific Computation</i> , 2014 , 197-219	0.1	
302	Magnetohydrodynamics and Magnetic Shaping. <i>Scientific Computation</i> , 2014 , 221-242	0.1	
301	The Simulative Analysis of the Thermal Resistance Value of Hollow Block with Different Number of Air Layers and Length with FEMLAB Software. 2014 , 584-586, 1586-1593		
300	Optimal Error Analysis of Galerkin FEMs for Nonlinear Joule Heating Equations. 2014 , 58, 627-647		36
299	Discontinuous Galerkin and mimetic finite difference methods for coupled StokesDarcy flows on polygonal and polyhedral grids. <i>Numerische Mathematik</i> , 2014 , 126, 321-360	2.2	44
298	Spectral approximation of quadratic operator polynomials arising in photonic band structure calculations. <i>Numerische Mathematik</i> , 2014 , 126, 413-440	2.2	5
297	Local a priori/a posteriori error estimates of conforming finite elements approximation for Steklov eigenvalue problems. 2014 , 57, 1319-1329		7
296	Inductively Coupled Plasma Torches. <i>Scientific Computation</i> , 2014 , 243-253	0.1	
295	Aerodynamic and FSI Analysis of Wind Turbines with the ALE-VMS and ST-VMS Methods. 2014 , 21, 359-398		89

294	Discrete mass conservation for porous media saturated flow. <i>Numerical Methods for Partial Differential Equations</i> , 2014 , 30, 625-640	2.5	6
293	Convergence of linearized backward Euler-Galerkin finite element methods for the time-dependent Ginzburg-Landau equations with temporal gauge. 2014 , 91, 1507-1515		1
292	Finite element simulation of wind turbine aerodynamics: validation study using NREL Phase VI experiment. 2014 , 17, 461-481		138
291	Fluid-structure interaction analysis of bioprosthetic heart valves: Significance of arterial wall deformation. 2014 , 54, 1055-1071		184
290	Some error estimates of finite volume element method for parabolic optimal control problems. 2014 , 35, 145-165		10
289	Polygonal finite elements for incompressible fluid flow. 2014 , 74, 134-151		54
288	New Error Estimates of Nonconforming Finite Element Methods for the Poisson Problem with Low Regularity Solution. 2014 , 6, 179-190		1
287	On numerical schemes for phase-field models for electrowetting with electrolyte solutions. 2015 , 15, 715-718		4
286	Error analysis for an ALE evolving surface finite element method. <i>Numerical Methods for Partial Differential Equations</i> , 2015 , 31, 459-499	2.5	10
285	Nonlinear model reduction based on the finite element method with interpolated coefficients: Semilinear parabolic equations. <i>Numerical Methods for Partial Differential Equations</i> , 2015 , 31, 1713-1741	2.5	13
284	Finite element approximation of a phase field model arising in nanostructure patterning. <i>Numerical Methods for Partial Differential Equations</i> , 2015 , 31, 1890-1924	2.5	2
283	Higher-order finite volume element methods based on Barlow points for one-dimensional elliptic and parabolic problems. <i>Numerical Methods for Partial Differential Equations</i> , 2015 , 31, 977-994	2.5	8
282	Numerical analysis of augmented plane wave methods for full-potential electronic structure calculations. <i>ESAIM: Mathematical Modelling and Numerical Analysis</i> , 2015 , 49, 755-785	1.8	18
281	Time-Consistent Stopping Under Decreasing Impatience. <i>SSRN Electronic Journal</i> , 2015 ,	1	1
280	Boundary Control Problems in Convective Heat Transfer with Lifting Function Approach and Multigrid Vanka-Type Solvers. 2015 , 18, 621-649		11
279	Multi-peak solutions of non-linear elliptic singularly perturbed reaction-diffusion equations using finite element simulation. 2015 , 50, 56-68		
278	Computational fluid dynamics modeling and analysis of Pd-based membrane module for CO ₂ capture from H ₂ /CO ₂ binary gas mixture. 2015 , 32, 1414-1421		3
277	On the connection between the stabilized Lagrange multiplier and Nitsche's methods. <i>Numerische Mathematik</i> , 2015 , 131, 453-471	2.2	6

276	(mathcal {H})-matrix approximability of the inverses of FEM matrices. <i>Numerische Mathematik</i> , 2015 , 131, 615-642	2.2	13
275	Quadratic mixed finite element approximations of the Monge-Ampère equation in 2D. 2015 , 52, 503-518		6
274	Error Estimates of a Pressure-Stabilized Characteristics Finite Element Scheme for the Oseen Equations. 2015 , 65, 940-955		23
273	Spline element method for Monge-Ampère equations. 2015 , 55, 625-646		7
272	On a decoupled linear FEM integrator for eddy-current-LLG. 2015 , 94, 1051-1067		10
271	Real-space formulation of orbital-free density functional theory using finite-element discretization: The case for Al, Mg, and Al-Mg intermetallics. 2015 , 92,		15
270	Pseudo transient continuation and time marching methods for Monge-Ampère type equations. 2015 , 41, 907-935		5
269	Symbolic Computation and Finite Element Methods. <i>Lecture Notes in Computer Science</i> , 2015 , 376-390	0.9	
268	ALE-VMS formulation for stratified turbulent incompressible flows with applications. 2015 , 25, 2349-2375		65
267	An Introduction to Finite Element Methods. 2015 ,		
266	On The Finite Element Approximation of Variational Inequalities with Noncoercive Operators. 2015 , 36, 1107-1121		4
265	Analysis of trace finite element methods for surface partial differential equations. 2015 , 35, 1568-1590		43
264	High-resolution global gravity field modelling by the finite volume method. 2015 , 59, 1-20		7
263	Couplings of mixed finite element and weak Galerkin methods for elliptic problems. 2015 , 47, 327-343		7
262	A posteriori error control and adaptivity for Crank-Nicolson finite element approximations for the linear Schrödinger equation. <i>Numerische Mathematik</i> , 2015 , 129, 55-90	2.2	7
261	Evolving surface finite element method for the Cahn-Hilliard equation. <i>Numerische Mathematik</i> , 2015 , 129, 483-534	2.2	32
260	A Unified Mortar Condition for Nonconforming Finite Elements. 2015 , 62, 179-197		1
259	The Lower/Upper Bound Property of the Crouzeix-Raviart Element Eigenvalues on Adaptive Meshes. 2015 , 62, 284-299		10

258	Error Analysis and Adaptive Methods of Least Squares Nonconforming Finite Element for the Transport Equations. 2016 , 8, 871-886		
257	Introduction to Periodic Homogenization. 2016 , 22, 147-186		0
256	A Nonlinear Multiscale Viscosity Method to Solve Compressible Flow Problems. <i>Lecture Notes in Computer Science</i> , 2016 , 3-17	0.9	5
255	A Posteriori Error Estimates for Conservative Local Discontinuous Galerkin Methods for the Generalized Korteweg-de Vries Equation. 2016 , 20, 250-278		13
254	Simplified variational iteration method for solving ordinary differential equations and eigenvalue problems. 2016 , 8, 168781401668146		0
253	A hybrid-mixed method for elasticity. <i>ESAIM: Mathematical Modelling and Numerical Analysis</i> , 2016 , 50, 311-336	1.8	15
252	On Fully Decoupled, Convergent Schemes for Diffuse Interface Models for Two-Phase Flow with General Mass Densities. 2016 , 19, 1473-1502		21
251	CFD Modeling of a Thermally Efficient Modular Reactor for Fischer-Tropsch Synthesis: Determination of the Optimal Size for Each Module. 2016 , 55, 9416-9425		4
250	Hybridized schemes of the discontinuous Galerkin method for stationary convection-diffusion problems. 2016 , 52, 906-925		
249	Finite Element Simulations with Adaptively Moving Mesh for the Reaction Diffusion System. 2016 , 9, 686-704		2
248	Dynamics of dipoles and vortices in nonlinearly coupled three-dimensional field oscillators. 2016 , 94, 012207		8
247	Tucker-tensor algorithm for large-scale Kohn-Sham density functional theory calculations. 2016 , 93,		4
246	Existence of \mathscr{H} -matrix approximants to the inverse of BEM matrices: the hyper-singular integral operator. 2016 , drw024		0
245	Two-scale meshes in quasilinear discretized problems of computational mechanics. 2016 ,		
244	Penalty Method for the Stationary Navier-Stokes Problems Under the Slip Boundary Condition. 2016 , 68, 339-374		10
243	Comparison results and unified analysis for first-order finite volume element methods for a Poisson model problem. 2016 , 36, 1120-1142		11
242	Analysis and computational method based on quadratic B-spline FEM for the Rosenau-Burgers equation. <i>Numerical Methods for Partial Differential Equations</i> , 2016 , 32, 877-895	2.5	4
241	A Priori Error Estimates of Crank-Nicolson Finite Volume Element Method for a Hyperbolic Optimal Control Problem. <i>Numerical Methods for Partial Differential Equations</i> , 2016 , 32, 1331-1356	2.5	1

240	An adaptive finite element method in reconstruction of coefficients in Maxwell's equations from limited observations. 2016 , 61, 253-286	9
239	Unconditional Optimal Error Estimates of BDF2 Galerkin FEMs for Nonlinear Thermistor Equations. 2016 , 66, 504-527	27
238	A Spectral Method for Fourth-Order Mixed Inhomogeneous Boundary Value Problem in Three Dimensions. 2016 , 67, 1247-1271	3
237	A Priori Error Estimate of Stochastic Galerkin Method for Optimal Control Problem Governed by Stochastic Elliptic PDE with Constrained Control. 2016 , 67, 405-431	7
236	A weak Galerkin finite element method for the stokes equations. 2016 , 42, 155-174	96
235	A New Finite Element Analysis for Inhomogeneous Boundary-Value Problems of Space Fractional Differential Equations. 2017 , 70, 342-354	3
234	Erratum to: Quadratic mixed finite element approximations of the Monge-Ampère equation in 2D. 2017 , 54, 281-297	1
233	Nodal Bases for the Serendipity Family of Finite Elements. 2017 , 17, 879-893	5
232	A Goal-Oriented Error Estimator for a Class of Homogenization Problems. 2017 , 71, 1169-1196	3
231	Spectrum-splitting approach for Fermi-operator expansion in all-electron Kohn-Sham DFT calculations. 2017 , 95,	7
230	Standard finite elements for the numerical resolution of the elliptic Monge-Ampère equation: Aleksandrov solutions. <i>ESAIM: Mathematical Modelling and Numerical Analysis</i> , 2017 , 51, 707-725	1.8 3
229	Higher-order triangular spectral element method with optimized cubature points for seismic wavefield modeling. 2017 , 336, 458-480	14
228	Local active control for an exterior fluid-structure interaction problem. 2017 , 111, 1103-1119	
227	Hierarchical spline spaces: quasi-interpolants and local approximation estimates. 2017 , 43, 235-255	19
226	Efficient Numerical Solution of Dynamical Ginzburg-Landau Equations under the Lorentz Gauge. 2017 , 22, 182-201	2
225	Linearized Conservative Finite Element Methods for the Nernst-Planck-Poisson Equations. 2017 , 72, 1269-1289	22
224	Mapped finite element methods: High-order approximations of problems on domains with cracks and corners. 2017 , 111, 864-900	11
223	Diffuse Interface Models for Incompressible Two-Phase Flows with Different Densities. 2017 , 203-229	1

222	A hybrid two-step finite element method for flux approximation: a priori estimates. <i>ESAIM: Mathematical Modelling and Numerical Analysis</i> , 2017 , 51, 1303-1316	1.8	3
221	Convergence study of 2D forward problem of electrical impedance tomography with high-order finite elements. 2017 , 25, 1397-1422		10
220	Convergence of a Strang splitting finite element discretization for the Schrödinger-Poisson equation. <i>ESAIM: Mathematical Modelling and Numerical Analysis</i> , 2017 , 51, 1245-1278	1.8	3
219	The TDNNS method for Reissner-Mindlin plates. <i>Numerische Mathematik</i> , 2017 , 137, 713-740	2.2	7
218	Stabilized FEM for Some Optimal Design Problem. 2017 , 73, 228-241		
217	CFD analysis for the geometry effect of disc-type membrane module on separation performance. 2017 , 34, 2366-2373		
216	Reconstruction of a time-dependent potential from wave measurements. 2017 , 33, 094001		5
215	Conforming approximation of convex functions with the finite element method. <i>Numerische Mathematik</i> , 2017 , 137, 741-772	2.2	4
214	Local projection stabilized and characteristic decoupled scheme for the fluid-fluid interaction problems. <i>Numerical Methods for Partial Differential Equations</i> , 2017 , 33, 704-723	2.5	1
213	The Art of Modeling in Solid Mechanics. <i>CISM International Centre for Mechanical Sciences, Courses and Lectures</i> , 2017 , 321-386	0.6	1
212	Least Squares Problems. <i>Texts in Computational Science and Engineering</i> , 2017 , 429-591	0.1	
211	Computational analysis of thermal transfer and related phenomena based on the Fourier method. 2017 ,		1
210	A generalized Mimetic Finite Difference method and Two-Point Flux schemes over Voronoi diagrams. <i>ESAIM: Mathematical Modelling and Numerical Analysis</i> , 2017 , 51, 679-706	1.8	5
209	An anisotropic finite element method on polyhedral domains: interpolation error analysis. 2017 , 87, 1567-16006		
208	H^1 -Superconvergence of a difference finite element method based on the P_1 -conforming element on non-uniform meshes for the 3D Poisson equation. 2017 , 87, 1659-1688		6
207	Finite Element Methods for Elasticity with Error-Controlled Discretization and Model Adaptivity. 2017 , 1-96		4
206	Configurational forces in electronic structure calculations using Kohn-Sham density functional theory. 2018 , 97,		6
205	Improved approximation rates for a parabolic control problem with an objective promoting directional sparsity. 2018 , 70, 239-266		7

204	Interior energy error estimates for the weak Galerkin finite element method. <i>Numerische Mathematik</i> , 2018 , 139, 447-478	2.2	2
203	Prestructuring sparse matrices with dense rows and columns via null space methods. 2018 , 25, e2133		1
202	Abstract Nonconforming Error Estimates and Application to Boundary Penalty Methods for Diffusion Equations and Time-Harmonic Maxwell Equations. 2018 , 18, 451-475		3
201	A plane wave method combined with local spectral elements for nonhomogeneous Helmholtz equation and time-harmonic Maxwell equations. 2018 , 44, 245-275		21
200	Two-grid methods for miscible displacement problem by Galerkin methods and mixed finite-element methods. 2018 , 95, 1453-1477		6
199	A Posteriori Error Estimates of Two-Grid Finite Element Methods for Nonlinear Elliptic Problems. 2018 , 74, 23-48		8
198	Multiscale discontinuous Petrov-Galerkin method for the multiscale elliptic problems. <i>Numerical Methods for Partial Differential Equations</i> , 2018 , 34, 184-210	2.5	
197	Regularity and a priori error analysis on anisotropic meshes of a Dirichlet problem in polyhedral domains. <i>Numerische Mathematik</i> , 2018 , 139, 47-92	2.2	8
196	Analysis of linearized Galerkin-mixed FEMs for the time-dependent Ginzburg-Landau equations of superconductivity. 2018 , 44, 923-949		1
195	Model reduction from partial observations. 2018 , 113, 479-511		2
194	On convergent schemes for two-phase flow of dilute polymeric solutions. <i>ESAIM: Mathematical Modelling and Numerical Analysis</i> , 2018 , 52, 2357-2408	1.8	3
193	An adaptive COIPG method for the Helmholtz transmission eigenvalue problem. 2018 , 61, 1519-1542		1
192	Local convergence of the boundary element method on polyhedral domains. <i>Numerische Mathematik</i> , 2018 , 140, 593-637	2.2	2
191	Probing quasi-integrability of the Gross-Pitaevskii equation in a harmonic-oscillator potential. 2018 , 51, 205303		13
190	Error estimates of Crank-Nicolson Galerkin method for the time-dependent Maxwell-Schrödinger equations under the Lorentz gauge. 2018 , 38, 2074-2104		3
189	Optimization of PDEs with Uncertain Inputs. 2018 , 41-81		1
188	Recent Advances in ALE-VMS and ST-VMS Computational Aerodynamic and FSI Analysis of Wind Turbines. 2018 , 253-336		32
187	A finite element method for quantum graphs. 2018 , 38, 1119-1163		15

186	A Linearized Local Conservative Mixed Finite Element Method for Poisson-Nernst-Planck Equations. 2018 , 77, 793-817		10
185	Finite Element Methods for a System of Dispersive Equations. 2018 , 77, 1371-1401		3
184	A Multiscale Finite Element Formulation for the Incompressible Navier-Stokes Equations. <i>Lecture Notes in Computer Science</i> , 2018 , 253-267	0.9	3
183	A COIP method of transmission eigenvalues for elastic waves. 2018 , 374, 237-248		5
182	Mixed Finite Element Approximation for Bivariate Perona-Malik Model Arising in 2D and 3D Image Denoising. 2018 , 9, 1		5
181	C OIPG adaptive algorithms for the biharmonic eigenvalue problem. 2018 , 78, 553-567		3
180	Optimal Strong Rates of Convergence for a Space-Time Discretization of the Stochastic Allen-Cahn Equation with Multiplicative Noise. 2018 , 18, 297-311		10
179	Optimal time delays in a class of reaction-diffusion equations. 2019 , 68, 255-278		1
178	On stable, dissipation reducing splitting schemes for two-phase flow of electrolyte solutions. 2019 , 80, 1361-1390		4
177	Interpolation of Non-smooth Functions and Anisotropic Polytopal Meshes. <i>Lecture Notes in Computational Science and Engineering</i> , 2019 , 65-105	0.3	
176	A Nonlinear Subgrid Stabilization Parameter-Free Method to Solve Incompressible Navier-Stokes Equations at High Reynolds Numbers. <i>Lecture Notes in Computer Science</i> , 2019 , 134-148	0.9	
175	The Convection-Diffusion-Reaction Equation in Non-Hilbert Sobolev Spaces: A Direct Proof of the Inf-Sup Condition and Stability of Galerkin Method. 2019 , 19, 503-522		5
174	A correction method for finding lower bounds of eigenvalues of the second-order elliptic and Stokes operators. <i>Numerical Methods for Partial Differential Equations</i> , 2019 , 35, 2149-2170	2.5	2
173	Tunneling of persistent currents in coupled ring-shaped Bose-Einstein condensates. 2019 , 52, 225301		7
172	Radial basis function neural networks of Hankel translates as universal approximators. 2019 , 17, 897-930		2
171	A B-spline finite element method for nonlinear differential equations describing crystal surface growth with variable coefficient. <i>Advances in Difference Equations</i> , 2019 , 2019,	3.6	0
170	Preface. 2019 , ix-x		
169	Introduction. 2019 , 1-3		

168 Some Background on Ordinary Differential Equations. **2019**, 4-22

167 Pragmatic Introduction to Stochastic Differential Equations. **2019**, 23-41

166 Itô Calculus and Stochastic Differential Equations. **2019**, 42-58

165 Probability Distributions and Statistics of SDEs. **2019**, 59-76

164 Statistics of Linear Stochastic Differential Equations. **2019**, 77-97

163 Useful Theorems and Formulas for SDEs. **2019**, 98-125

162 Numerical Simulation of SDEs. **2019**, 126-164

161 Approximation of Nonlinear SDEs. **2019**, 165-196

160 Filtering and Smoothing Theory. **2019**, 197-233

159 Parameter Estimation in SDE Models. **2019**, 234-250

158 Stochastic Differential Equations in Machine Learning. **2019**, 251-276

157 Epilogue. **2019**, 277-280

156 Index. **2019**, 311-316

155 New Analysis of Galerkin FEMs for Miscible Displacement in Porous Media. **2019**, 80, 903-923 1

154 Efficient and practical Newton solvers for non-linear Stokes systems in geodynamic problems. *Geophysical Journal International*, **2019**, 218, 873-894 2.6 13

153 Adaptive Concepts for Stochastic Partial Differential Equations. **2019**, 80, 444-474 1

152 Banach frames and atomic decompositions in the space of bounded operators on Hilbert spaces. **2019**,

151 Stochastic Galerkin Method for Optimal Control Problem Governed by Random Elliptic PDE with State Constraints. **2019**, 78, 1571-1600 0

150	A Posteriori Error Analysis of the Crank-Nicolson Finite Element Method for Parabolic Integro-Differential Equations. 2019 , 79, 414-441		5
149	A Lagrange multiplier method for a discrete fracture model for flow in porous media. 2019 , 23, 239-253		14
148	Computer Modeling of Wind Turbines: 1. ALE-VMS and ST-VMS Aerodynamic and FSI Analysis. 2019 , 26, 1059-1099		32
147	Some Simple Criteria for the Solvability of Block (2 times 2) Linear Systems. 2019 , 42, 2287-2294		
146	Optimal error estimates of the unilateral contact problem in a curved and smooth boundary domain by the penalty method. 2020 , 40, 729-763		2
145	A multigrid correction scheme for a new Steklov eigenvalue problem in inverse scattering. 2020 , 97, 1412-1430		5
144	H1-superconvergence of finite difference method based on Q1-element on quasi-uniform mesh for the 3D Poisson equation. <i>Numerical Methods for Partial Differential Equations</i> , 2020 , 36, 29-48	2.5	2
143	An Indirect Finite Element Method for Variable-Coefficient Space-Fractional Diffusion Equations and Its Optimal-Order Error Estimates. 2020 , 2, 147-162		5
142	A decoupling two-grid method for the time-dependent Poisson-Nernst-Planck equations. 2020 , 83, 1613-1651		6
141	Development of a computational model for acute ischemic stroke recanalization through cyclic aspiration. 2020 , 19, 761-778		7
140	Post-processing for spatial accuracy-enhancement of pure Lagrange-Galerkin schemes applied to convection-diffusion equations. 2020 ,		
139	Non-conforming Crouzeix-Raviart element approximation for Stekloff eigenvalues in inverse scattering. 2020 , 46, 1		3
138	A posteriori analysis of a B-spline based finite-element method for the stationary quasi-geostrophic equations of the ocean. 2020 , 371, 1133-17		2
137	A convergent finite element scheme for a fourth-order liquid crystal model. 2020 ,		0
136	Optimal error estimates and recovery technique of a mixed finite element method for nonlinear thermistor equations. 2020 ,		0
135	A combined hybrid mixed element method for incompressible miscible displacement problem with local discontinuous Galerkin procedure. <i>Numerical Methods for Partial Differential Equations</i> , 2020 , 36, 1629-1647	2.5	0
134	Crank-Nicolson Leap-Frog Time Stepping Decoupled Scheme for the Fluid-Fluid Interaction Problems. 2020 , 84, 1		0
133	A Posteriori Error Estimates for Fully Discrete Finite Element Method for Generalized Diffusion Equation with Delay. 2020 , 84, 13		1

132	Conservative discontinuous Galerkin scheme of a gyro-averaged Dougherty collision operator. 2020 , 60, 096021		9
131	Multilevel a posteriori error estimator for greedy reduced basis algorithms. 2020 , 2, 1		
130	Finite-element thermal analysis of flows on moving domains with application to modeling of a hydraulic arresting gear. 2021 , 144, 963-972		1
129	Convergent numerical approximation of the stochastic total variation flow. 2021 , 9, 437-471		1
128	Superconvergence in H1-norm of a difference finite element method for the heat equation in a 3D spatial domain with almost-uniform mesh. 2021 , 86, 357-395		1
127	A Priori Analysis of an Anisotropic Finite Element Method for Elliptic Equations in Polyhedral Domains. 2021 , 21, 145-177		2
126	Immersogeometric thermal analysis of flows inside buildings with reconfigurable components. 2021 , 143, 4107-4117		2
125	. 2021 , 68, 6276-6285		12
124	Two-grid method for miscible displacement problem with dispersion by finite element method of characteristics. 2021 , 101, e201900275		
123	An asymptotic model based on matching far and near field expansions for thin gratings problems. <i>ESAIM: Mathematical Modelling and Numerical Analysis</i> , 2021 , 55, S507-S533	1.8	
122	Phase-field dynamics with transfer of materials: The Cahn-Hilliard equation with reaction rate dependent dynamic boundary conditions. <i>ESAIM: Mathematical Modelling and Numerical Analysis</i> , 2021 , 55, 229-282	1.8	7
121	A Brief Summary of the Finite Element Method for Differential Equations.		
120	Negative Norm Estimates for Arbitrary Lagrangian-Eulerian Discontinuous Galerkin Method for Nonlinear Hyperbolic Equations. 1		
119	Comparison between algebraic and matrix-free geometric multigrid for a Stokes problem on adaptive meshes with variable viscosity. 2021 , 28, e2375		2
118	Morphodynamic Equilibria in Short Tidal Basins Using a 2DH Exploratory Model. <i>Journal of Geophysical Research F: Earth Surface</i> , 2021 , 126, e2020JF005555	3.8	2
117	The Pointwise Stabilities of Piecewise Linear Finite Element Method on Non-obtuse Tetrahedral Meshes of Nonconvex Polyhedra. 2021 , 87, 1		0
116	Morphological simplification of asphaltic mixture components for micromechanical simulation using finite element method. 2021 , 36, 1435		4
115	On the finite element method for solving the oblique derivative boundary value problems and its application in local gravity field modelling. 2021 , 95, 1		1

114	Pulse-shape calculations and applications using the AGATAGeFEM software package. 2021 , 57, 1		0
113	State Error Estimates for the Numerical Approximation of Sparse Distributed Control Problems in the Absence of Tikhonov Regularization. 2021 , 49, 713-738		4
112	A priori error estimates for the space-time finite element approximation of a quasilinear gradient enhanced damage model. <i>ESAIM: Mathematical Modelling and Numerical Analysis</i> , 2021 , 55, 1347-1374	1.8	
111	The Local and Parallel Finite Element Scheme for Electric Structure Eigenvalue Problems. 2021 , 2021, 1-11		0
110	The Discontinuous Galerkin Method: Derivation and Properties. <i>CISM International Centre for Mechanical Sciences, Courses and Lectures</i> , 2021 , 1-55	0.6	
109	Improving Conservation for First-Order System Least-Squares Finite-Element Methods. <i>Springer Proceedings in Mathematics and Statistics</i> , 2013 , 1-19	0.2	2
108	Spectral Coarse Spaces in Robust Two-Level Schwarz Methods. <i>Springer Proceedings in Mathematics and Statistics</i> , 2013 , 303-326	0.2	1
107	Hermite and Bernstein Style Basis Functions for Cubic Serendipity Spaces on Squares and Cubes. <i>Springer Proceedings in Mathematics and Statistics</i> , 2014 , 103-121	0.2	2
106	A Guide to Localized Frames and Applications to Galerkin-Like Representations of Operators. 2017 , 47-79		5
105	Extending Theory for Domain Decomposition Algorithms to Irregular Subdomains. <i>Lecture Notes in Computational Science and Engineering</i> , 2008 , 255-261	0.3	8
104	On the Convergence of Optimized Schwarz Methods by way of Matrix Analysis. <i>Lecture Notes in Computational Science and Engineering</i> , 2009 , 363-370	0.3	2
103	Accommodating Irregular Subdomains in Domain Decomposition Theory. <i>Lecture Notes in Computational Science and Engineering</i> , 2009 , 87-98	0.3	6
102	On the Local Approximation Power of Quasi-Hierarchical Powell-Sabin Splines. <i>Lecture Notes in Computer Science</i> , 2010 , 419-433	0.9	4
101	Space Decomposition Preconditioners and Parallel Solvers. 2004 , 20-38		6
100	Learning Overlap Optimization for Domain Decomposition Methods. <i>Lecture Notes in Computer Science</i> , 2013 , 438-449	0.9	4
99	A Unified Discrete-Continuous Sensitivity Analysis Method for Shape Optimization. 2010 , 25-39		13
98	A Posteriori Error Estimation for Computational Fluid Dynamics: The Variational Multiscale Approach. <i>Lecture Notes in Applied and Computational Mechanics</i> , 2010 , 19-38	0.3	3
97	The Electrolytic Process for Aluminium Production. <i>Scientific Computation</i> , 2014 , 271-290	0.1	11

96	Applied Stochastic Differential Equations. 2019 ,	39
95	A new approach to Richardson extrapolation in the finite element method for second order elliptic problems. 2009 , 78, 1951-1973	17
94	Topologically correct reconstruction of tortuous contour forests. 2010 ,	2
93	Finite element approximation of sparse parabolic control problems. 2017 , 7, 393-417	10
92	Serendipity and Tensor Product Affine Pyramid Finite Elements. 2, 215-228	4
91	Conjugate Gradients and Finite Elements \boxtimes Golden Jubilee. <i>Scientific Computation</i> , 2004 , 11-24	0.1
90	Parallel Schwarz Methods: Algebraic Construction of Coarse Problems, Implementation and Testing. <i>Lecture Notes in Computer Science</i> , 2006 , 505-512	0.9
89	A Functional Analytic Framework for BDDC and FETI-DP. <i>Lecture Notes in Computational Science and Engineering</i> , 2008 , 239-246	0.3
88	Application of Hierarchical Decomposition: Preconditioners and Error Estimates for Conforming and Nonconforming FEM. <i>Lecture Notes in Computer Science</i> , 2008 , 78-85	0.9
87	Imperfect Bonding with Nonpenetration Condition. <i>CISM International Centre for Mechanical Sciences, Courses and Lectures</i> , 2009 , 203-260	0.6
86	Fast Solvers for Mixed Finite Element Methods. <i>CISM International Centre for Mechanical Sciences, Courses and Lectures</i> , 2009 , 57-88	0.6
85	An Additive Neumann-Neumann Method for Mortar Finite Element for 4th Order Problems. <i>Lecture Notes in Computational Science and Engineering</i> , 2009 , 323-330	0.3
84	Mixed Multiscale Finite Element Methods on Adaptive Unstructured Grids Using Limited Global Information. 2009 , 3-30	
83	Finite Elements Solutions of Boundary Value Problems Relevant to Geodesy. 2012 , 205-209	0
82	Adaptive Finite Element Methods for Parameter Identification Problems. 2013 , 31-54	2
81	Dual-Primal Methods. <i>Lecture Notes in Computational Science and Engineering</i> , 2013 , 247-281	0.3 0
80	Preliminaries. <i>Lecture Notes in Computational Science and Engineering</i> , 2013 , 1-61	0.3
79	A Residual Type Error Estimate for the Static Coulomb Friction Problem with Unilateral Contact. <i>Lecture Notes in Applied and Computational Mechanics</i> , 2013 , 85-100	0.3

78	Ferromagnetic Shielding. <i>Scientific Computation</i> , 2014 , 255-269	0.1	
77	Mathematical Models of Cardiac Cells Arrangements: The Bidomain Model. <i>Modeling, Simulation and Applications</i> , 2014 , 77-122	1.1	
76	Simulation Studies of Cardiac Bioelectrical Activity. <i>Modeling, Simulation and Applications</i> , 2014 , 249-360	1.1	
75	Anisotropic Cardiac Sources. <i>Modeling, Simulation and Applications</i> , 2014 , 149-173	1.1	
74	Reduced Macroscopic Models: The Monodomain and Eikonal Models. <i>Modeling, Simulation and Applications</i> , 2014 , 123-148	1.1	
73	Basic Cardiac Anatomy and Electrocardiology. <i>Modeling, Simulation and Applications</i> , 2014 , 1-19	1.1	
72	Parallel Solvers for the Bidomain System. <i>Modeling, Simulation and Applications</i> , 2014 , 207-248	1.1	1
71	Numerical Methods for the Bidomain and Reduced Models. <i>Modeling, Simulation and Applications</i> , 2014 , 191-206	1.1	
70	The Inverse Problem of Electrocardiology. <i>Modeling, Simulation and Applications</i> , 2014 , 175-190	1.1	
69	Mathematical Models of Cellular Bioelectrical Activity. <i>Modeling, Simulation and Applications</i> , 2014 , 21-75	1.1	
68	Symmetry and positive definiteness of the tensor-valued spring constant derived from P1-FEM for the equations of linear elasticity. <i>Networks and Heterogeneous Media</i> , 2014 , 9, 617-634	1.6	1
67	Model Reduction by Adaptive Discretization in Optimal Control. <i>International Series of Numerical Mathematics</i> , 2014 , 251-284	0.4	
66	A-Priori Error Bounds for Finite Element Approximation of Elliptic Optimal Control Problems with Gradient Constraints. <i>International Series of Numerical Mathematics</i> , 2014 , 365-382	0.4	
65	A numerical method for solving BVP of masonry-like solids. <i>CISM International Centre for Mechanical Sciences, Courses and Lectures</i> , 2014 , 71-108	0.6	1
64	On the Local Mesh Size of Nitsche's Method for Discontinuous Material Parameters. <i>Lecture Notes in Computational Science and Engineering</i> , 2015 , 57-63	0.3	
63	Encyclopedia of Applied and Computational Mathematics. 2015 , 1033-1042		
62	Automation of Primal Analysis. 2016 , 69-96		
61	Monte Carlo Simulation with Stochastic Differential Equations. <i>Universitext</i> , 2017 , 125-178	0.2	

60	Interpolation and Approximation. <i>Texts in Computational Science and Engineering</i> , 2017 , 1-222	0.1	
59	Finite-Element Methods. <i>Universitext</i> , 2017 , 259-305	0.2	
58	Standard Methods for Standard Options. <i>Universitext</i> , 2017 , 179-257	0.2	
57	Generating Random Numbers with Specified Distributions. <i>Universitext</i> , 2017 , 83-123	0.2	
56	Differentiation and Integration. <i>Texts in Computational Science and Engineering</i> , 2017 , 223-332	0.1	
55	Pricing of Exotic Options. <i>Universitext</i> , 2017 , 307-351	0.2	
54	Beyond Black and Scholes. <i>Universitext</i> , 2017 , 353-387	0.2	
53	Modeling Tools for Financial Options. <i>Universitext</i> , 2017 , 1-82	0.2	
52	Iterative Linear Algebra. <i>Texts in Computational Science and Engineering</i> , 2017 , 203-305	0.1	
51	Boundary Value Problems. <i>Texts in Computational Science and Engineering</i> , 2017 , 493-559	0.1	
50	Encyclopedia of Geodesy. <i>Techniques in Dentistry and Oral & Maxillofacial Surgery</i> , 2018 , 1-12	0.3	
49	En Abetim Yötemleri Ve Geliştirilen Program Kullanarak Hareketli En Abetimi. <i>Bitlis Eren Üniversitesi Fen Bilimleri Dergisi</i> , 2017 , 6, 1-14	0.1	
48	On Finite Element Method for Magnetic Resonance Imaging. <i>Springer Proceedings in Mathematics and Statistics</i> , 2018 , 119-132	0.2	2
47	Finite Element Method on Polytopal Meshes. <i>Lecture Notes in Computational Science and Engineering</i> , 2019 , 17-63	0.3	
46	Kernel-Based Reconstructions for Parametric PDEs. <i>Lecture Notes in Computational Science and Engineering</i> , 2019 , 53-71	0.3	1
45	Engineering Notes on Concepts of the Finite Element Method for Elliptic Problems. <i>CISM International Centre for Mechanical Sciences, Courses and Lectures</i> , 2020 , 1-39	0.6	
44	The adaptive finite element method for the Steklov eigenvalue problem in inverse scattering. <i>Open Mathematics</i> , 2020 , 18, 216-236	0.8	
43	Unconditionally optimal error estimates of BDF2 Galerkin method for semilinear parabolic equation. <i>Numerical Methods for Partial Differential Equations</i> , 2021 , 37, 2511-2526	2.5	0

42	Overlapping Schwarz Preconditioner for Fourth Order Multiscale Elliptic Problems. <i>Lecture Notes in Computer Science</i> , 2020 , 245-255	0.9	
41	A B-spline finite element method for solving a class of nonlinear parabolic equations modeling epitaxial thin-film growth with variable coefficient. <i>Advances in Difference Equations</i> , 2020 , 2020,	3.6	0
40	The Finite Element Method as a Tool to Solve the Oblique Derivative Boundary Value Problem in Geodesy. <i>Tatra Mountains Mathematical Publications</i> , 2020 , 75, 63-80	0.4	2
39	Rechnerische Simulation. 2006 , 361-395		
38	Rechnerische Simulation. 2009 , 357-390		
37	Discontinuous Finite Element Procedures. 2006 , 21-43		
36	Adaptive Submodeling for Linear Elasticity Problems with Multiscale Geometric Features. 2005 , 169-180		
35	Transport Approximations in Partially Diffusive Media. 2006 , 373-400		
34	Lower Bounds in Domain Decomposition. 2007 , 27-39		1
33	Condition Number Estimates for C0 Interior Penalty Methods. 2007 , 675-682		1
32	Simulation and Optimization of Bio-Chemical Microreactors. 2008 , 117-127		
31	Image Classification by Mixed Finite Element Method and Orthogonal Legendre Moments. <i>Pattern Recognition and Image Analysis</i> , 2020 , 30, 655-673	1	1
30	New analysis and recovery technique of mixed FEMs for compressible miscible displacement in porous media. <i>Numerische Mathematik</i> , 1	2.2	1
29	An Adaptive Finite Element Method for Solving 3D Electromagnetic Volume Integral Equation with Applications in Microwave Thermometry. <i>SSRN Electronic Journal</i> ,	1	
28	Comparison of wave-propagation simulations in fractured domains using discrete fractures and equivalent media. <i>Geophysical Journal International</i> ,	2.6	
27	Caccioppoli-type estimates and $\{H\}$ -matrix approximations to inverses for FEM-BEM couplings. <i>Numerische Mathematik</i> , 2022 , 150, 849	2.2	0
26	Sparse Grids Approximation of Goldstone Diagrams in Electronic Structure Calculations. <i>Lecture Notes in Computational Science and Engineering</i> , 2021 , 33-51	0.3	
25	Crank-Nicolson finite difference schemes for parabolic optimal Dirichlet boundary control problems. <i>Mathematical Methods in the Applied Sciences</i> ,	2.3	0

24	New Mixed Variational Problem and the Stokes System with a Singular Right-Hand Side. <i>Computational Mathematics and Mathematical Physics</i> , 2021 , 61, 2129-2136	0.9	
23	Morphodynamic Equilibria in Double-Inlet Systems: Existence and Stability. <i>Journal of Geophysical Research F: Earth Surface</i> , 2021 , 126,	3.8	1
22	Adaptive Least-Squares, Discontinuous Petrov-Galerkin, and Hybrid High-Order Methods. <i>Lecture Notes in Applied and Computational Mechanics</i> , 2022 , 107-147	0.3	
21	Point cloud based tool path generation for corrective machining in ultra-precision diamond turning. <i>International Journal of Advanced Manufacturing Technology</i> , 2022 , 120, 6891	3.2	1
20	Optimal error estimates of a Crank-Nicolson finite element projection method for magnetohydrodynamic equations. <i>ESAIM: Mathematical Modelling and Numerical Analysis</i> , 2022 , 56, 767-789	1.8	0
19	A Trefftz method with reconstruction of the normal derivative applied to elliptic equations.		
18	Existence and Uniqueness of Solution of a thermoviscoelastic equation with time-dependent coefficients. <i>Journal of Mathematical Analysis and Applications</i> , 2022 , 126517	1.1	
17	Finite Element Methods for Large-Strain Poroelasticity/Chemotaxis Models Simulating the Formation of Myocardial Oedema. 2022 , 92,		0
16	A combined multiscale finite element method based on the LOD technique for the multiscale elliptic problems with singularities. 2022 , 111540		
15	High accuracy analysis of a nonconforming rectangular finite element method for the Brinkman model. 2022 , 41,		
14	Correction to: Convergent numerical approximation of the stochastic total variation flow.		0
13	The Finite Element Method. 2022 , 1-12		0
12	Error Estimates in Polygonal Domains. 2022 , 69-100		0
11	The Function Space. 2022 , 13-39		0
10	On Some Convergence Properties for Finite Element Approximations to the Inverse of Linear Elliptic Operators.		0
9	A Posteriori Estimates for the Stochastic Total Variation Flow. 2022 , 60, 2657-2680		0
8	A low-degree strictly conservative finite element method for incompressible flows on general triangulations. 2022 , 8, 225-248		0
7	The Finite Element Method for the Elastic Transmission Eigenvalue Problem with Different Elastic Tensors. 2022 , 93,		0

- 6 BDF2 schemes for optimal parameter control problems governed by bilinear parabolic equations. ○
- 5 A convergent SAV scheme for Cahn-Hilliard equations with dynamic boundary conditions. ○
- 4 A Fully-Decoupled Artificial Compressible Crank-Nicolson-Leapfrog Time Stepping Scheme for the Phase Field Model of Two-Phase Incompressible Flows. **2023**, 94, ○
- 3 Convergence and superconvergence analysis of energy-preserving Crank-Nicolson Galerkin method for the Benjamin-Bona-Mahony equation. 1-16 ○
- 2 A detailed quasigeoid model of the Hong Kong territories computed by applying a finite-element method of solving the oblique derivative boundary-value problem. **2023**, 13, ○
- 1 Convergence of a discretization of the Maxwell-Klein-Gordon equation based on finite element methods and lattice gauge theory. ○