

Bulent Karasozen

List of Publications by Year in descending order

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567281

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96
all docs

96
docs citations

96
times ranked

662
citing authors

#	ARTICLE	IF	CITATIONS
1	Intrusive and data-driven reduced order modelling of the rotating thermal shallow water equation. Applied Mathematics and Computation, 2022, 421, 126924.	2.2	2
2	Energy preserving reduced-order modeling of the rotating thermal shallow water equation. Physics of Fluids, 2022, 34, 056603.	4.0	3
3	Structure preserving model order reduction of shallow water equations. Mathematical Methods in the Applied Sciences, 2021, 44, 476-492.	2.3	12
4	Data-Driven Learning of Reduced-Order Dynamics for a Parametrized Shallow Water Equation. Proceedings in Applied Mathematics and Mechanics, 2021, 20, e202000360.	0.2	1
5	Learning reduced-order dynamics for parametrized shallow water equations from data. International Journal for Numerical Methods in Fluids, 2021, 93, 2803-2821.	1.6	8
6	Reduced order modelling of nonlinear cross-diffusion systems. Applied Mathematics and Computation, 2021, 401, 126058.	2.2	5
7	Structure-preserving reduced-order modeling of Korteweg-de Vries equation. Mathematics and Computers in Simulation, 2021, 188, 193-211.	4.4	4
8	Distributed optimal control of viscous Burgers' equation via a high-order, linearization, integral, nodal discontinuous Gegenbauer-Galerkin method. Optimal Control Applications and Methods, 2020, 41, 253-277.	2.1	4
9	Reduced order optimal control of the convective FitzHugh-Nagumo equations. Computers and Mathematics With Applications, 2020, 79, 982-995.	2.7	4
10	Earthquake location methods. GEM - International Journal on Geomathematics, 2020, 11, 1.	1.6	16
11	Pricing European and American options under Heston model using discontinuous Galerkin finite elements. Mathematics and Computers in Simulation, 2020, 177, 568-587.	4.4	5
12	Structure preserving reduced order modeling for gradient systems. Applied Mathematics and Computation, 2019, 347, 194-209.	2.2	1
13	High-order integral nodal discontinuous Gegenbauer-Galerkin method for solving viscous Burgers' equation. International Journal of Computer Mathematics, 2019, 96, 2039-2078.	1.8	5
14	Energy preserving model order reduction of the nonlinear Schrödinger equation. Advances in Computational Mathematics, 2018, 44, 1769-1796.	1.6	15
15	Energy Stable Discontinuous Galerkin Finite Element Method for the Allen-Cahn Equation. International Journal of Computational Methods, 2018, 15, 1850013.	1.3	16
16	Structure preserving integration and model order reduction of skew-gradient reaction-diffusion systems. Annals of Operations Research, 2017, 258, 79-106.	4.1	7
17	Optimal control of convective FitzHugh-Nagumo equation. Computers and Mathematics With Applications, 2017, 73, 2151-2169.	2.7	20
18	Energy Stable Interior Penalty Discontinuous Galerkin Finite Element Method for Cahn-Hilliard Equation. International Journal of Nonlinear Sciences and Numerical Simulation, 2017, 18, 303-314.	1.0	4

#	ARTICLE	IF	CITATIONS
19	Moving mesh discontinuous Galerkin methods for PDEs with traveling waves. Applied Mathematics and Computation, 2017, 292, 9-18.	2.2	7
20	International conference on boundary element and meshless techniques XVII. European Journal of Computational Mechanics, 2017, 26, 351-352.	0.6	0
21	Quantification of Type, Timing, and Extent of Cell Body and Nucleus Deformations Caused by the Dimensions and Hydrophilicity of Square Prism Micropillars. Advanced Healthcare Materials, 2016, 5, 2972-2982.	7.6	28
22	Model order reduction for nonlinear Schrödinger equation. Applied Mathematics and Computation, 2015, 258, 509-519.	2.2	5
23	Space-Time Discontinuous Galerkin Methods for Optimal Control Problems Governed by Time Dependent Diffusion-Convection-Reaction Equations. Contributions in Mathematical and Computational Sciences, 2015, , 233-261.	0.3	0
24	Adaptive Symmetric Interior Penalty Galerkin (SIPG) method for optimal control of convection diffusion equations with control constraints. Optimization, 2014, 63, 145-166.	1.7	13
25	Optimal boundary control of the unsteady Burgers equation with simultaneous space-time discretization. Optimal Control Applications and Methods, 2014, 35, 423-434.	2.1	2
26	Time-space adaptive discontinuous Galerkin method for advection-diffusion equations with non-linear reaction mechanism. GEM - International Journal on Geomathematics, 2014, 5, 255-288.	1.6	2
27	Adaptive discontinuous Galerkin methods for non-linear diffusion-convection-reaction equations. Computers and Chemical Engineering, 2014, 68, 24-37.	3.8	15
28	A priori error analysis of the upwind symmetric interior penalty Galerkin (SIPG) method for the optimal control problems governed by unsteady convection diffusion equations. Computational Optimization and Applications, 2014, 57, 703-729.	1.6	12
29	Distributed optimal control of time-dependent diffusion-convection-reaction equations using space-time discretization. Journal of Computational and Applied Mathematics, 2014, 261, 146-157.	2.0	10
30	Aggregate codifferential method for nonsmooth DC optimization. Journal of Computational and Applied Mathematics, 2014, 259, 851-867.	2.0	6
31	An all-at-once approach for the optimal control of the unsteady Burgers equation. Journal of Computational and Applied Mathematics, 2014, 259, 771-779.	2.0	15
32	Variational time discretization methods for optimal control problems governed by diffusion-convection-reaction equations. Journal of Computational and Applied Mathematics, 2014, 272, 41-56.	2.0	11
33	Energy preserving integration of bi-Hamiltonian partial differential equations. Applied Mathematics Letters, 2013, 26, 1125-1133.	2.7	18
34	Optimal boundary control for time-dependent diffusion-convection-reaction equations. International Journal of Mathematical Modelling and Numerical Optimisation, 2013, 4, 282.	0.2	0
35	Distributed Optimal Control of Diffusion-Convection-Reaction Equations Using Discontinuous Galerkin Methods. , 2013, , 389-397.		10
36	Numerical Analysis of Viscoelastic Fluids in Steady Pressure-Driven Channel Flow. Journal of Fluids Engineering, Transactions of the ASME, 2012, 134, .	1.5	13

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37	Staggered grids for three-dimensional convection of a multicomponent fluid in a porous medium. Computers and Mathematics With Applications, 2012, 64, 1740-1751.	2.7	2
38	Natural convection in porous annular domains: Mimetic scheme and family of steady states. Journal of Computational Physics, 2012, 231, 2995-3005.	3.8	3
39	Computation of graph spectra of protein-protein interaction networks. , 2011, , .		0
40	Classification through incremental max-min separability. Pattern Analysis and Applications, 2011, 14, 165-174.	4.6	13
41	Lobatto IIIA-III B discretization of the strongly coupled nonlinear Schrödinger equation. Journal of Computational and Applied Mathematics, 2011, 235, 4770-4779.	2.0	9
42	Solving optimal control problems for the unsteady Burgers equation in COMSOL Multiphysics. Journal of Computational and Applied Mathematics, 2011, 235, 4839-4850.	2.0	10
43	Optimization of Supply Chain Systems with Price Elasticity of Demand. INFORMS Journal on Computing, 2011, 23, 557-568.	1.7	13
44	Operator Splitting of the KdV-Burgers Type Equation with Fast and Slow Dynamics. , 2010, , .		0
45	Energy preserving methods for lattice equations. , 2010, , .		0
46	Computation of Spectra of Large Networks. , 2010, , .		0
47	Multisymplectic box schemes for the complex modified Korteweg-de Vries equation. Journal of Mathematical Physics, 2010, 51, .	1.1	12
48	Institute of Applied Mathematics at Middle East Technical University, Ankara (Panel Discussion) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 30		
49	Finite volume simulation of viscoelastic laminar flow in a lid-driven cavity. Journal of Non-Newtonian Fluid Mechanics, 2009, 164, 51-65.	2.4	44
50	A model of angiogenesis by hybrid systems with delay on the piecewise constant part. Journal of Process Control, 2009, 19, 1257-1264.	3.3	2
51	Modeling and simulation of metabolic networks for estimation of biomass accumulation parameters. Discrete Applied Mathematics, 2009, 157, 2483-2493.	0.9	7
52	Portrait of a Consortium: ANKOS (Anatolian University Libraries Consortium). Journal of Academic Librarianship, 2009, 35, 377-385.	2.3	7
53	Multi-symplectic integration of coupled non-linear Schrödinger system with soliton solutions. International Journal of Computer Mathematics, 2009, 86, 864-882.	1.8	15
54	SEMIEXPLICIT MULTISYMPLECTIC INTEGRATION OF NONLINEAR SCHRÖDINGER EQUATION. , 2009, , .		0

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55	A Mimetic Finite-Difference Scheme for Convection of Multicomponent Fluid in a Porous Medium. Lecture Notes in Computer Science, 2009, , 322-333.	1.3	1
56	Destruction of the family of steady states in the planar problem of Darcy convection. Physics Letters, Section A: General, Atomic and Solid State Physics, 2008, 372, 5639-5643.	2.1	12
57	Discrete Gradient Method; Derivative-Free Method for Nonsmooth Optimization. Journal of Optimization Theory and Applications, 2008, 137, 317-334.	1.5	106
58	Staggered grids discretization in three-dimensional Darcy convection. Computer Physics Communications, 2008, 178, 885-893.	7.5	4
59	Numerical investigation of the effect of the Rushton type turbine design factors on agitated tank flow characteristics. Chemical Engineering and Processing: Process Intensification, 2008, 47, 1340-1349.	3.6	45
60	Derivative free optimization methods for optimizing stirrer configurations. European Journal of Operational Research, 2008, 191, 855-863.	5.7	4
61	Multisymplectic Schemes for the Complex Modified Korteweg-de Vries Equation. AIP Conference Proceedings, 2008, , .	0.4	2
62	Symplectic and multisymplectic Lobatto methods for the "good" Boussinesq equation. Journal of Mathematical Physics, 2008, 49, .	1.1	21
63	Consortial Usage of Electronic Journals in Turkey. LIBER Quarterly, 2008, 18, 464-469.	0.7	5
64	Symplectic and multi-symplectic methods for coupled nonlinear Schrödinger equations with periodic solutions. Computer Physics Communications, 2007, 177, 566-583.	7.5	40
65	Selection of steady states in planar Darcy convection. Proceedings in Applied Mathematics and Mechanics, 2007, 7, 1030405-1030406.	0.2	0
66	Cosymmetric families of steady states in 3D convection of incompressible fluid in a porous medium. Proceedings in Applied Mathematics and Mechanics, 2007, 7, 1030407-1030408.	0.2	0
67	ANKOS and Its Dealings with Vendors. Journal of Library Administration, 2006, 44, 69-83.	1.1	6
68	Poisson integrators for Volterra lattice equations. Applied Numerical Mathematics, 2006, 56, 879-887.	2.1	5
69	Selection of steady states in planar Darcy convection. Physics Letters, Section A: General, Atomic and Solid State Physics, 2006, 356, 189-194.	2.1	10
70	Numerical method for optimizing stirrer configurations. Computers and Chemical Engineering, 2005, 30, 183-190.	3.8	13
71	Mimetic discretization of two-dimensional Darcy convection. Computer Physics Communications, 2005, 167, 203-213.	7.5	11
72	Cosymmetry preserving finite-difference methods for convection equations in a porous medium. Applied Numerical Mathematics, 2005, 55, 69-82.	2.1	6

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73	Perspectives on â€¦ The Impact of ANKOS: Consortium Development in Turkey. Journal of Academic Librarianship, 2004, 30, 402-409.	2.3	17
74	Invariant Reduction of Partially Potential Branching Equations and Iterative Methods in the Problem on a Bifurcation Point with a Symmetry. Differential Equations, 2004, 40, 410-419.	0.7	0
75	Approximation of Abstract Differential Equations. Journal of Mathematical Sciences, 2004, 122, 3013-3054.	0.4	51
76	Cosymmetric families of steady states in Darcy convection and their collision. Physics Letters, Section A: General, Atomic and Solid State Physics, 2004, 323, 67-76.	2.1	10
77	Poisson integrators. Mathematical and Computer Modelling, 2004, 40, 1225-1244.	2.0	18
78	DYNAMICS OF NUMERICAL METHODS FOR COSYMMETRIC ORDINARY DIFFERENTIAL EQUATIONS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2001, 11, 2339-2357.	1.7	7
79	Finite-difference approximations and cosymmetry conservation in filtration convection problem. Physics Letters, Section A: General, Atomic and Solid State Physics, 1999, 262, 321-329.	2.1	34
80	Runge-kutta methods for hamiltonian systems in non-standard symplectic two-form. International Journal of Computer Mathematics, 1998, 66, 113-122.	1.8	2
81	Modified iterative methods for linear sustems of equations. International Journal of Computer Mathematics, 1998, 70, 179-196.	1.8	2
82	A molecular dynamics model for symplectic intergrators. Mathematical Modelling of Systems, 1997, 3, 282-296.	0.7	3
83	Approximations for semilinear cauchy problems involving second order equations in separable banach spaces. Nonlinear Analysis: Theory, Methods & Applications, 1997, 28, 1157-1165.	1.1	3
84	Runge-Kutta collocation methods for rigid body lie-poisson equations. International Journal of Computer Mathematics, 1996, 62, 63-71.	1.8	1
85	Composite integrators for bi-Hamiltonian systems. Computers and Mathematics With Applications, 1996, 32, 79-86.	2.7	5
86	An error analysis of iterated defect correction methods for linear differential-algebraic equations. International Journal of Computer Mathematics, 1996, 60, 121-137.	1.8	2
87	Inverted n-bar model in descriptor and in state space form. Mathematical Modelling of Systems, 1995, 1, 272-285.	0.7	1