Bulent Karasozen

List of Publications by Year
in descending order

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87	897	567281	580821
papers	citations	15 h-index	25 g-index

96	96	96	662
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Discrete Gradient Method: Derivative-Free Method for Nonsmooth Optimization. Journal of Optimization Theory and Applications, 2008, 137, 317-334.	1.5	106
2	Approximation of Abstract Differential Equations. Journal of Mathematical Sciences, 2004, 122, 3013-3054.	0.4	51
3	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
4	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
5	Symplectic and multi-symplectic methods for coupled nonlinear SchrÃ¶dinger equations with periodic solutions. Computer Physics Communications, 2007, 177, 566-583.	7.5	40
6	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
7	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
8	Symplectic and multisymplectic Lobatto methods for the â€œgoodâ€•Boussinesq equation. Journal of Mathematical Physics, 2008, 49, .	1.1	21
9	Optimal control of convective FitzHughâ€“Nagumo equation. Computers and Mathematics With Applications, 2017, 73, 2151-2169.	2.7	20
10	Poisson integrators. Mathematical and Computer Modelling, 2004, 40, 1225-1244.	2.0	18
11	Energy preserving integration of bi-Hamiltonian partial differential equations. Applied Mathematics Letters, 2013, 26, 1125-1133.	2.7	18
12	Perspectives on â€¦ The Impact of ANKOS: Consortium Development in Turkey. Journal of Academic Librarianship, 2004, 30, 402-409.	2.3	17
13	Energy Stable Discontinuous Galerkin Finite Element Method for the Allenâ€“Cahn Equation. International Journal of Computational Methods, 2018, 15, 1850013.	1.3	16
14	Earthquake location methods. GEM - International Journal on Geomathematics, 2020, 11, 1.	1.6	16
15	Multi-symplectic integration of coupled non-linear SchrÃ¶dinger system with soliton solutions. International Journal of Computer Mathematics, 2009, 86, 864-882.	1.8	15
16	Adaptive discontinuous Galerkin methods for non-linear diffusionâ€“convectionâ€“reaction equations. Computers and Chemical Engineering, 2014, 68, 24-37.	3.8	15
17	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
18	Energy preserving model order reduction of the nonlinear SchrÃ¶dinger equation. Advances in Computational Mathematics, 2018, 44, 1769-1796.	1.6	15

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19	Numerical method for optimizing stirrer configurations. Computers and Chemical Engineering, 2005, 30, 183-190.	3.8	13
20	Classification through incremental maxâ€“min separability. Pattern Analysis and Applications, 2011, 14, 165-174.	4.6	13
21	Optimization of Supply Chain Systems with Price Elasticity of Demand. INFORMS Journal on Computing, 2011, 23, 557-568.	1.7	13
22	Numerical Analysis of Viscoelastic Fluids in Steady Pressure-Driven Channel Flow. Journal of Fluids Engineering, Transactions of the ASME, 2012, 134, .	1.5	13
23	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
24	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
25	Multisymplectic box schemes for the complex modified Kortewegâ€“de Vries equation. Journal of Mathematical Physics, 2010, 51, .	1.1	12
26	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
27	Structure preserving model order reduction of shallow water equations. Mathematical Methods in the Applied Sciences, 2021, 44, 476-492.	2.3	12
28	Mimetic discretization of two-dimensional Darcy convection. Computer Physics Communications, 2005, 167, 203-213.	7.5	11
29	Variational time discretization methods for optimal control problems governed by diffusionâ€“convectionâ€“reaction equations. Journal of Computational and Applied Mathematics, 2014, 272, 41-56.	2.0	11
30	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
31	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
32	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
33	Distributed optimal control of time-dependent diffusionâ€“convectionâ€“reaction equations using spaceâ€“time discretization. Journal of Computational and Applied Mathematics, 2014, 261, 146-157.	2.0	10
34	Distributed Optimal Control of Diffusion-Convection-Reaction Equations Using Discontinuous Galerkin Methods. , 2013, , 389-397.		10
35	Lobatto IIIAâ€“IIIB discretization of the strongly coupled nonlinear SchrÃ¶dinger equation. Journal of Computational and Applied Mathematics, 2011, 235, 4770-4779.	2.0	9
36	Learning reducedâ€order dynamics for parametrized shallow water equations from data. International Journal for Numerical Methods in Fluids, 2021, 93, 2803-2821.	1.6	8

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37	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
38	Modeling and simulation of metabolic networks for estimation of biomass accumulation parameters. Discrete Applied Mathematics, 2009, 157, 2483-2493.	0.9	7
39	Portrait of a Consortium: ANKOS (Anatolian University Libraries Consortium). Journal of Academic Librarianship, 2009, 35, 377-385.	2.3	7
40	Structure preserving integration and model order reduction of skew-gradient reactionâ€“diffusion systems. Annals of Operations Research, 2017, 258, 79-106.	4.1	7
41	Moving mesh discontinuous Galerkin methods for PDEs with traveling waves. Applied Mathematics and Computation, 2017, 292, 9-18.	2.2	7
42	Cosymmetry preserving finite-difference methods for convection equations in a porous medium. Applied Numerical Mathematics, 2005, 55, 69-82.	2.1	6
43	ANKOS and Its Dealings with Vendors. Journal of Library Administration, 2006, 44, 69-83.	1.1	6
44	Aggregate codifferential method for nonsmooth DC optimization. Journal of Computational and Applied Mathematics, 2014, 259, 851-867.	2.0	6
45	Composite integrators for bi-Hamiltonian systems. Computers and Mathematics With Applications, 1996, 32, 79-86.	2.7	5
46	Poisson integrators for Volterra lattice equations. Applied Numerical Mathematics, 2006, 56, 879-887.	2.1	5
47	Model order reduction for nonlinear SchrÃ¶dinger equation. Applied Mathematics and Computation, 2015, 258, 509-519.	2.2	5
48	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
49	Reduced order modelling of nonlinear cross-diffusion systems. Applied Mathematics and Computation, 2021, 401, 126058.	2.2	5
50	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
51	Consortial Usage of Electronic Journals in Turkey. LIBER Quarterly, 2008, 18, 464-469.	0.7	5
52	Staggered grids discretization in three-dimensional Darcy convection. Computer Physics Communications, 2008, 178, 885-893.	7.5	4
53	Derivative free optimization methods for optimizing stirrer configurations. European Journal of Operational Research, 2008, 191, 855-863.	5.7	4
54	Energy Stable Interior Penalty Discontinuous Galerkin Finite Element Method for Cahnâ€“Hilliard Equation. International Journal of Nonlinear Sciences and Numerical Simulation, 2017, 18, 303-314.	1.0	4

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55	Distributed optimal control of viscous Burgers' equation via a highâ€order, linearization, integral, nodal discontinuous Gegenbauerâ€Galerkin method. Optimal Control Applications and Methods, 2020, 41, 253-277.	2.1	4
56	Reduced order optimal control of the convective FitzHughâ€“Nagumo equations. Computers and Mathematics With Applications, 2020, 79, 982-995.	2.7	4
57	Structure-preserving reduced-order modeling of Kortewegâ€“de Vries equation. Mathematics and Computers in Simulation, 2021, 188, 193-211.	4.4	4
58	A molecular dynamics model for symplectic intergrators. Mathematical Modelling of Systems, 1997, 3, 282-296.	0.7	3
59	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
60	Natural convection in porous annular domains: Mimetic scheme and family of steady states. Journal of Computational Physics, 2012, 231, 2995-3005.	3.8	3
61	Energy preserving reduced-order modeling of the rotating thermal shallow water equation. Physics of Fluids, 2022, 34, 056603.	4.0	3
62	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
63	Runge-kutta methods for hamiltonian systems in non-standard symplectic two-form. International Journal of Computer Mathematics, 1998, 66, 113-122.	1.8	2
64	Modified iterative methods for linear sustems of equations. International Journal of Computer Mathematics, 1998, 70, 179-196.	1.8	2
65	Multisymplectic Schemes for the Complex Modified Kortewegâ€de Vries Equation. AIP Conference Proceedings, 2008, , .	0.4	2
66	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
67	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
68	Optimal boundary control of the unsteady Burgers equation with simultaneous spaceâ€time discretization. Optimal Control Applications and Methods, 2014, 35, 423-434.	2.1	2
69	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
70	Intrusive and data-driven reduced order modelling of the rotating thermal shallow water equation. Applied Mathematics and Computation, 2022, 421, 126924.	2.2	2
71	Inverted n-bar model in descriptior and in state space form. Mathematical Modelling of Systems, 1995, 1, 272-285.	0.7	1
72	Runge-Kutta collocation methods for rigid body lie-poisson equations. International Journal of Computer Mathematics, 1996, 62, 63-71.	1.8	1

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73	Structure preserving reduced order modeling for gradient systems. Applied Mathematics and Computation, 2019, 347, 194-209.	2.2	1
74	Dataâ€Driven Learning of Reducedâ€Order Dynamics for a Parametrized Shallow Water Equation. Proceedings in Applied Mathematics and Mechanics, 2021, 20, e202000360.	0.2	1
75	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
76	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
77	Selection of steady states in planar Darcy convection. Proceedings in Applied Mathematics and Mechanics, 2007, 7, 1030405-1030406.	0.2	0
78	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
79	Operator Splitting of the KdVâ€Burgers Type Equation with Fast and Slow Dynamics. , 2010, , .		0
80	Energy preserving methods for lattice equations. , 2010, , .		0
81	Computation of Spectra of Large Networks. , 2010, , .		0
82	Computation of graph spectra of protein-protein interaction networks. , 2011, , .		0
83	Optimal boundary control for time-dependent diffusion-convection-reaction equations. International Journal of Mathematical Modelling and Numerical Optimisation, 2013, 4, 282.	0.2	0
84	International conference on boundary element and meshless techniques XVII. European Journal of Computational Mechanics, 2017, 26, 351-352.	0.6	0
85	SEMIEXPLICIT MULTISYMPLECTIC INTEGRATION OF NONLINEAR SCHRÃ–DINGER EQUATION. , 2009, , .		0
86	Institute of Applied Mathematics at Middle East Technical University, Ankara (Panel Discussion) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 22		0
87	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