

Oliver Junge

List of Publications by Year in descending order

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29
papers

1,199
citations

471509

17
h-index

501196

28
g-index

29
all docs

29
docs citations

29
times ranked

656
citing authors

#	ARTICLE	IF	CITATIONS
1	On the Approximation of Complicated Dynamical Behavior. <i>SIAM Journal on Numerical Analysis</i> , 1999, 36, 491-515.	2.3	386
2	Discrete mechanics and optimal control: An analysis. <i>ESAIM - Control, Optimisation and Calculus of Variations</i> , 2011, 17, 322-352.	1.3	126
3	Set Oriented Numerical Methods for Dynamical Systems. <i>Handbook of Dynamical Systems</i> , 2002, 2, 221-264.	0.6	120
4	A set oriented approach to global optimal control. <i>ESAIM - Control, Optimisation and Calculus of Variations</i> , 2004, 10, 259-270.	1.3	67
5	Estimating Long-Term Behavior of Flows without Trajectory Integration: The Infinitesimal Generator Approach. <i>SIAM Journal on Numerical Analysis</i> , 2013, 51, 223-247.	2.3	63
6	Designing optimal low-thrust gravity-assist trajectories using space pruning and a multi-objective approach. <i>Engineering Optimization</i> , 2009, 41, 155-181.	2.6	53
7	An adaptive subdivision technique for the approximation of attractors and invariant measures. <i>Computing and Visualization in Science</i> , 1998, 1, 63-68.	1.2	43
8	On target for Venus – set oriented computation of energy efficient low thrust trajectories. <i>Celestial Mechanics and Dynamical Astronomy</i> , 2006, 95, 357-370.	1.4	42
9	Rigorous computation of topological entropy with respect to a finite partition. <i>Physica D: Nonlinear Phenomena</i> , 2001, 154, 68-84.	2.8	36
10	A set oriented approach to optimal feedback stabilization. <i>Systems and Control Letters</i> , 2005, 54, 169-180.	2.3	35
11	Robust FEM-Based Extraction of Finite-Time Coherent Sets Using Scattered, Sparse, and Incomplete Trajectories. <i>SIAM Journal on Applied Dynamical Systems</i> , 2018, 17, 1891-1924.	1.6	29
12	Lagrangian structures and transport in turbulent magnetized plasmas. <i>New Journal of Physics</i> , 2007, 9, 400-400.	2.9	28
13	Transport of Mars-Crossing Asteroids from the Quasi-Hilda Region. <i>Physical Review Letters</i> , 2005, 94, 231102.	7.8	27
14	Discretization of the Frobenius – Perron Operator Using a Sparse Haar Tensor Basis: The Sparse Ulam Method. <i>SIAM Journal on Numerical Analysis</i> , 2009, 47, 3464-3485.	2.3	26
15	On fast computation of finite-time coherent sets using radial basis functions. <i>Chaos</i> , 2015, 25, 087409.	2.5	21
16	A Fully Discrete Variational Scheme for Solving Nonlinear Fokker–Planck Equations in Multiple Space Dimensions. <i>SIAM Journal on Numerical Analysis</i> , 2017, 55, 419-443.	2.3	19
17	Pseudogenerators of Spatial Transfer Operators. <i>SIAM Journal on Applied Dynamical Systems</i> , 2015, 14, 1478-1517.	1.6	17
18	Computing coherent sets using the Fokker-Planck equation. <i>Journal of Computational Dynamics</i> , 2016, 3, 163-177.	1.1	14

#	ARTICLE	IF	CITATIONS
19	An adaptive subdivision technique for the approximation of attractors and invariant measures: proof of convergence. <i>Dynamical Systems</i> , 2001, 16, 213-222.	0.4	9
20	Optimal capture trajectories using multiple gravity assists. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2009, 14, 4168-4175.	3.3	9
21	Mean Field Approximation in Conformation Dynamics. <i>Multiscale Modeling and Simulation</i> , 2009, 8, 254-268.	1.6	7
22	Topological method for rigorously computing periodic orbits using Fourier modes. <i>Discrete and Continuous Dynamical Systems</i> , 2005, 13, 901-920.	0.9	7
23	Lagrangian coherent sets in turbulent Rayleigh-Bénard convection. <i>Physical Review E</i> , 2019, 100, 053103.	2.1	6
24	Linear response for the dynamic Laplacian and finite-time coherent sets. <i>Nonlinearity</i> , 2021, 34, 3337-3355.	1.4	4
25	Higher-order finite element approximation of the dynamic Laplacian. <i>ESAIM: Mathematical Modelling and Numerical Analysis</i> , 2020, 54, 1777-1795.	1.9	2
26	Global optimal feedbacks for stochastic quantized nonlinear event systems. <i>Journal of Computational Dynamics</i> , 2014, 1, 163-176.	1.1	1
27	Online parameter identification methods for oscillatory systems: Estimation of changes in stiffness properties. <i>JVC/Journal of Vibration and Control</i> , 2019, 25, 725-738.	2.6	1
28	Heat-content and diffusive leakage from material sets in the low-diffusivity limit $\langle \sup \rangle^*$. <i>Nonlinearity</i> , 2021, 34, 7303-7321.	1.4	1
29	Preface: Special issue on the occasion of the 4th International Workshop on Set-Oriented Numerics (SON 13, Dresden, 2013). <i>Journal of Computational Dynamics</i> , 2015, 2, i-ii.	1.1	0