

Benjamin Seibold

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8559949/publications.pdf>

Version: 2024-02-01

25
papers

1,082
citations

932766

10
h-index

713013

21
g-index

25
all docs

25
docs citations

25
times ranked

827
citing authors

#	ARTICLE	IF	CITATIONS
1	Dissipation of stop-and-go waves via control of autonomous vehicles: Field experiments. Transportation Research Part C: Emerging Technologies, 2018, 89, 205-221.	3.9	459
2	Are Commercially Implemented Adaptive Cruise Control Systems String Stable?. IEEE Transactions on Intelligent Transportation Systems, 2021, 22, 6992-7003.	4.7	117
3	Stabilizing traffic flow via a single autonomous vehicle: Possibilities and limitations. , 2017, , .		89
4	Quantifying air quality benefits resulting from few autonomous vehicles stabilizing traffic. Transportation Research, Part D: Transport and Environment, 2019, 67, 351-365.	3.2	79
5	A gradient-augmented level set method with an optimally local, coherent advection scheme. Journal of Computational Physics, 2010, 229, 3802-3827.	1.9	75
6	Data-Fitted First-Order Traffic Models and Their Second-Order Generalizations. Transportation Research Record, 2013, 2391, 32-43.	1.0	41
7	Minimal positive stencils in meshfree finite difference methods for the Poisson equation. Computer Methods in Applied Mechanics and Engineering, 2008, 198, 592-601.	3.4	39
8	Tracking vehicle trajectories and fuel rates in phantom traffic jams: Methodology and data. Transportation Research Part C: Emerging Technologies, 2019, 99, 82-109.	3.9	39
9	StaRMAP--A Second Order Staggered Grid Method for Spherical Harmonics Moment Equations of Radiative Transfer. ACM Transactions on Mathematical Software, 2014, 41, 1-28.	1.6	21
10	Two-dimensional macroscopic model for large scale traffic networks. Transportation Research Part B: Methodological, 2019, 122, 309-326.	2.8	20
11	Computational simulation of the mechanical response of brain tissue under blast loading. Biomechanics and Modeling in Mechanobiology, 2015, 14, 459-472.	1.4	16
12	Unconditional Stability for Multistep ImEx Schemes: Theory. SIAM Journal on Numerical Analysis, 2017, 55, 2336-2360.	1.1	12
13	An exactly conservative particle method for one dimensional scalar conservation laws. Journal of Computational Physics, 2009, 228, 5298-5315.	1.9	10
14	Unconditional stability for multistep ImEx schemes: Practice. Journal of Computational Physics, 2019, 376, 295-321.	1.9	10
15	Integrated Framework of Vehicle Dynamics, Instabilities, Energy Models, and Sparse Flow Smoothing Controllers. , 2021, , .		8
16	Optimal prediction for moment models: crescendo diffusion and reordered equations. Continuum Mechanics and Thermodynamics, 2009, 21, 511-527.	1.4	7
17	A rarefaction-tracking method for hyperbolic conservation laws. Journal of Engineering Mathematics, 2010, 66, 237-251.	0.6	7
18	A comparative study of limiting strategies in discontinuous Galerkin schemes for the $M \frac{d}{dt} \mathbf{u} = \mathbf{F}(\mathbf{u}) - \mathbf{F}(\mathbf{u}_l)$ model of radiation transport. Journal of Computational and Applied Mathematics, 2018, 342, 399-418.		6

#	ARTICLE	IF	CITATIONS
19	Optimal prediction for radiative transfer: A new perspective on moment closure. Kinetic and Related Models, 2011, 4, 717-733.	0.5	6
20	Deploying Traffic Smoothing Cruise Controllers Learned from Trajectory Data. , 2022, , .		6
21	The challenge of stochastic Störmer-Verlet thermostats generating correct statistics. Journal of Chemical Physics, 2020, 153, 134101.	1.2	5
22	High-order finite element methods for a pressure Poisson equation reformulation of the Navier-Stokes equations with electric boundary conditions. Computer Methods in Applied Mechanics and Engineering, 2021, 373, 113451.	3.4	5
23	Bringing discrete-time Langevin splitting methods into agreement with thermodynamics. Journal of Chemical Physics, 2021, 155, 184104.	1.2	3
24	Massively Parallel Stencil Strategies for Radiation Transport Moment Model Simulations. Lecture Notes in Computer Science, 2020, , 242-256.	1.0	2
25	Off-Ramp Coupling Conditions Devoid of Spurious Blocking and Re-Routing. Transportation Research Record, 2018, 2672, 12-24.	1.0	0