

# Benjamin Seibold

## List of Publications by Year in descending order

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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	Deploying Traffic Smoothing Cruise Controllers Learned from Trajectory Data. , 2022, , .		6
2	Are Commercially Implemented Adaptive Cruise Control Systems String Stable?. IEEE Transactions on Intelligent Transportation Systems, 2021, 22, 6992-7003.	4.7	117
3	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
4	Integrated Framework of Vehicle Dynamics, Instabilities, Energy Models, and Sparse Flow Smoothing Controllers. , 2021, , .		8
5	Bringing discrete-time Langevin splitting methods into agreement with thermodynamics. Journal of Chemical Physics, 2021, 155, 184104.	1.2	3
6	The challenge of stochastic Störmer–Verlet thermostats generating correct statistics. Journal of Chemical Physics, 2020, 153, 134101.	1.2	5
7	Massively Parallel Stencil Strategies for Radiation Transport Moment Model Simulations. Lecture Notes in Computer Science, 2020, , 242-256.	1.0	2
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	Two-dimensional macroscopic model for large scale traffic networks. Transportation Research Part B: Methodological, 2019, 122, 309-326.	2.8	20
10	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
11	Unconditional stability for multistep ImEx schemes: Practice. Journal of Computational Physics, 2019, 376, 295-321.	1.9	10
12	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
13	Off-Ramp Coupling Conditions Devoid of Spurious Blocking and Re-Routing. Transportation Research Record, 2018, 2672, 12-24.	1.0	0
14	A comparative study of limiting strategies in discontinuous Galerkin schemes for the $M$ model of radiation transport. Journal of Computational and Applied Mathematics, 2018, 342, 399-418.	1.1	6
15	Unconditional Stability for Multistep ImEx Schemes: Theory. SIAM Journal on Numerical Analysis, 2017, 55, 2336-2360.	1.1	12
16	Stabilizing traffic flow via a single autonomous vehicle: Possibilities and limitations. , 2017, , .		89
17	Computational simulation of the mechanical response of brain tissue under blast loading. Biomechanics and Modeling in Mechanobiology, 2015, 14, 459-472.	1.4	16
18	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

#	ARTICLE	IF	CITATIONS
19	Data-Fitted First-Order Traffic Models and Their Second-Order Generalizations. <i>Transportation Research Record</i> , 2013, 2391, 32-43.	1.0	41
20	Optimal prediction for radiative transfer: A new perspective on moment closure. <i>Kinetic and Related Models</i> , 2011, 4, 717-733.	0.5	6
21	A rarefaction-tracking method for hyperbolic conservation laws. <i>Journal of Engineering Mathematics</i> , 2010, 66, 237-251.	0.6	7
22	A gradient-augmented level set method with an optimally local, coherent advection scheme. <i>Journal of Computational Physics</i> , 2010, 229, 3802-3827.	1.9	75
23	Optimal prediction for moment models: crescendo diffusion and reordered equations. <i>Continuum Mechanics and Thermodynamics</i> , 2009, 21, 511-527.	1.4	7
24	An exactly conservative particle method for one dimensional scalar conservation laws. <i>Journal of Computational Physics</i> , 2009, 228, 5298-5315.	1.9	10
25	Minimal positive stencils in meshfree finite difference methods for the Poisson equation. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2008, 198, 592-601.	3.4	39