

Marie-Therese Wolfram

List of Publications by Year in descending order

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29
papers

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citations

623574

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29
all docs

29
docs citations

29
times ranked

493
citing authors

#	ARTICLE	IF	CITATIONS
1	On a mean field game approach modeling congestion and aversion in pedestrian crowds. <i>Transportation Research Part B: Methodological</i> , 2011, 45, 1572-1589.	2.8	178
2	Boltzmann and Fokkerâ€™Planck equations modelling opinion formation in the presence of strong leaders. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2009, 465, 3687-3708.	1.0	130
3	On the Hughes' model for pedestrian flow: The one-dimensional case. <i>Journal of Differential Equations</i> , 2011, 250, 1334-1362.	1.1	81
4	An improved version of the Hughes model for pedestrian flow. <i>Mathematical Models and Methods in Applied Sciences</i> , 2016, 26, 671-697.	1.7	43
5	Socio-economic applications of finite state mean field games. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2014, 372, 20130405.	1.6	35
6	Opinion dynamics: inhomogeneous Boltzmann-type equations modelling opinion leadership and political segregation. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2015, 471, 20150345.	1.0	33
7	A DRIFTâ€™DIFFUSIONâ€™REACTION MODEL FOR EXCITONIC PHOTOVOLTAIC BILAYERS: ASYMPTOTIC ANALYSIS AND A 2D HDG FINITE ELEMENT SCHEME. <i>Mathematical Models and Methods in Applied Sciences</i> , 2013, 23, 839-872.	1.7	29
8	Parameter Estimation for Macroscopic Pedestrian Dynamics Models from Microscopic Data. <i>SIAM Journal on Applied Mathematics</i> , 2019, 79, 1475-1500.	0.8	28
9	Numerical simulation of nonlinear continuity equations by evolving diffeomorphisms. <i>Journal of Computational Physics</i> , 2016, 327, 186-202.	1.9	25
10	Lane Formation by Side-Stepping. <i>SIAM Journal on Mathematical Analysis</i> , 2016, 48, 981-1005.	0.9	25
11	Multiscale modeling of a rectifying bipolar nanopore: Comparing Poisson-Nernst-Planck to Monte Carlo. <i>Journal of Chemical Physics</i> , 2017, 146, 124125.	1.2	22
12	Individual based and mean-field modeling of direct aggregation. <i>Physica D: Nonlinear Phenomena</i> , 2013, 260, 145-158.	1.3	18
13	Cross-Diffusion Systems with Excluded-Volume Effects and Asymptotic Gradient Flow Structures. <i>Journal of Nonlinear Science</i> , 2017, 27, 687-719.	1.0	17
14	A Semi-Lagrangian Scheme for a Modified Version of the Hughesâ€™™ Model for Pedestrian Flow. <i>Dynamic Games and Applications</i> , 2017, 7, 683-705.	1.1	16
15	Consensus-based global optimization with personal best. <i>Mathematical Biosciences and Engineering</i> , 2020, 17, 6026-6044.	1.0	14
16	On a Boltzmann Mean Field Model for Knowledge Growth. <i>SIAM Journal on Applied Mathematics</i> , 2016, 76, 1799-1818.	0.8	13
17	A LEVEL SET BASED SHAPE OPTIMIZATION METHOD FOR AN ELLIPTIC OBSTACLE PROBLEM. <i>Mathematical Models and Methods in Applied Sciences</i> , 2011, 21, 619-649.	1.7	12
18	Balanced growth path solutions of a Boltzmann mean field game model for knowledge growth. <i>Kinetic and Related Models</i> , 2017, 10, 117-140.	0.5	11

#	ARTICLE	IF	CITATIONS
19	Boltzmann and Fokkerâ€“Planck Equations Modelling the Elo Rating System with Learning Effects. <i>Journal of Nonlinear Science</i> , 2019, 29, 1095-1128.	1.0	10
20	On the asymptotic behavior of a Boltzmann-type price formation model. <i>Communications in Mathematical Sciences</i> , 2014, 12, 1353-1361.	0.5	10
21	Ensemble Inference Methods for Models With Noisy and Expensive Likelihoods. <i>SIAM Journal on Applied Dynamical Systems</i> , 2022, 21, 1539-1572.	0.7	7
22	Parabolic Free Boundary Price Formation Models Under Market Size Fluctuations. <i>Multiscale Modeling and Simulation</i> , 2016, 14, 1211-1237.	0.6	6
23	Derivation and analysis of continuum models for crossing pedestrian traffic. <i>Mathematical Models and Methods in Applied Sciences</i> , 2017, 27, 1301-1325.	1.7	6
24	Inverse Optimal Transport. <i>SIAM Journal on Applied Mathematics</i> , 2020, 80, 599-619.	0.8	5
25	Identification of nonlinearities in transport-diffusion models of crowded motion. <i>Inverse Problems and Imaging</i> , 2013, 7, 1157-1182.	0.6	4
26	An Elo-type rating model for players and teams of variable strength. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2022, 380, 20210155.	1.6	4
27	A PDE model for unidirectional flows: Stationary profiles and asymptotic behaviour. <i>Journal of Mathematical Analysis and Applications</i> , 2022, 510, 126018.	0.5	2
28	Symbolic Derivation of Mean-Field PDEs from Lattice-Based Models. , 2015, , .		1
29	Comparing the best-reply strategy and mean-field games: The stationary case. <i>European Journal of Applied Mathematics</i> , 2022, 33, 79-110.	1.4	0