

Dirk Horstmann

List of Publications by Year in descending order

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16
papers

1,419
citations

1040056

9
h-index

1058476

14
g-index

16
all docs

16
docs citations

16
times ranked

386
citing authors

#	ARTICLE	IF	CITATIONS
1	Boundedness vs. blow-up in a chemotaxis system. <i>Journal of Differential Equations</i> , 2005, 215, 52-107.	2.2	708
2	Blow-up in a chemotaxis model without symmetry assumptions. <i>European Journal of Applied Mathematics</i> , 2001, 12, 159-177.	2.9	342
3	Generalizing the Keller–Segel Model: Lyapunov Functionals, Steady State Analysis, and Blow-Up Results for Multi-species Chemotaxis Models in the Presence of Attraction and Repulsion Between Competitive Interacting Species. <i>Journal of Nonlinear Science</i> , 2011, 21, 231-270.	2.1	130
4	Lyapunov functions and L^p -estimates for a class of reaction-diffusion systems. <i>Colloquium Mathematicum</i> , 2001, 87, 113-127.	0.3	43
5	The nonsymmetric case of the Keller-Segel model in chemotaxis: some recent results. <i>Nonlinear Differential Equations and Applications</i> , 2001, 8, 399-423.	0.8	40
6	On the existence of radially symmetric blow-up solutions for the Keller-Segel model. <i>Journal of Mathematical Biology</i> , 2002, 44, 463-478.	1.9	40
7	A positivity-preserving finite element method for chemotaxis problems in 3D. <i>Journal of Computational and Applied Mathematics</i> , 2013, 239, 290-303.	2.0	40
8	Aggregation under local reinforcement: From lattice to continuum. <i>European Journal of Applied Mathematics</i> , 2004, 15, 545-576.	2.9	31
9	Remarks on some Lotka–Volterra type cross-diffusion models. <i>Nonlinear Analysis: Real World Applications</i> , 2007, 8, 90-117.	1.7	27
10	Newton's aerodynamic problem in the presence of friction. <i>Nonlinear Differential Equations and Applications</i> , 2002, 9, 295-307.	0.8	9
11	Uniqueness and symmetry of equilibria in a chemotaxis model. <i>Journal Fur Die Reine Und Angewandte Mathematik</i> , 2011, 2011, .	0.9	6
12	A note on comparison principles for viscosity solutions of fully nonlinear second order partial differential equations. <i>Hokkaido Mathematical Journal</i> , 1999, 28, 315.	0.3	1
13	On some cross-diffusion models in population dynamics and their connections to well-posed filters in signal enhancement processes. <i>IMA Journal of Applied Mathematics</i> , 2005, 70, 386-399.	1.6	1
14	Do some chemotaxis-growth models possess Lyapunov functionals?. <i>Applied Mathematics Letters</i> , 2016, 53, 107-111.	2.7	1
15	Cones based on reflection symmetric convex polygons: Remarks on a problem by A. Pleijel. <i>Forum Mathematicum</i> , 2007, 19, .	0.7	0
16	Self-similar radial solutions to a class of strongly coupled reaction-diffusion systems with cross-diffusion. <i>Hiroshima Mathematical Journal</i> , 2013, 43, .	0.3	0