

Michal Beneš

List of Publications by Year in descending order

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Version: 2024-02-01

29
papers

403
citations

840776

11
h-index

752698

20
g-index

33
all docs

33
docs citations

33
times ranked

240
citing authors

#	ARTICLE	IF	CITATIONS
1	Minimal surface generating flow for space curves of non-vanishing torsion. <i>Discrete and Continuous Dynamical Systems - Series B</i> , 2022, 27, 6605.	0.9	1
2	Qualitative and Numerical Aspects of a Motion of a Family of Interacting Curves in Space. <i>SIAM Journal on Applied Mathematics</i> , 2022, 82, 549-575.	1.8	1
3	Improving method for deterministic treatment of double cross-slip in FCC metals under low homologous temperatures. <i>Computational Materials Science</i> , 2021, 189, 110251.	3.0	2
4	Curvature driven flow of a family of interacting curves with Applications. <i>Mathematical Methods in the Applied Sciences</i> , 2020, 43, 4177.	2.3	0
5	Long-term Behavior of Curve Shortening Flow in \mathbb{R}^3 . <i>SIAM Journal on Mathematical Analysis</i> , 2020, 52, 1221-1231.	1.9	3
6	Error estimate of the finite volume scheme for the Allen-Cahn equation. <i>BIT Numerical Mathematics</i> , 2018, 58, 489-507.	2.0	4
7	Nonlinear Galerkin finite element method applied to the system of reaction-diffusion equations in one space dimension. <i>Computers and Mathematics With Applications</i> , 2017, 73, 2053-2065.	2.7	4
8	Area preserving geodesic curvature driven flow of closed curves on a surface. <i>Discrete and Continuous Dynamical Systems - Series B</i> , 2017, 22, 3671-3689.	0.9	2
9	Multidimensional self-similar analytical solutions of two-phase flow in porous media. <i>Advances in Water Resources</i> , 2016, 90, 51-56.	3.8	10
10	Numerical modeling of non-isothermal gas flow and NAPL vapor transport in soil. <i>Computer Physics Communications</i> , 2016, 202, 175-187.	7.5	3
11	Dynamics of dislocations described as evolving curves interacting with obstacles. <i>Modelling and Simulation in Materials Science and Engineering</i> , 2016, 24, 035003.	2.0	6
12	Computational analysis of the conserved curvature driven flow for open curves in the plane. <i>Mathematics and Computers in Simulation</i> , 2016, 126, 1-13.	4.4	5
13	Mechanisms controlling the cyclic saturation stress and the critical cross-slip annihilation distance in copper single crystals. <i>Philosophical Magazine Letters</i> , 2014, 94, 45-52.	1.2	4
14	A dislocation dynamics analysis of the critical cross-slip annihilation distance and the cyclic saturation stress in fcc single crystals at different temperatures. <i>Acta Materialia</i> , 2013, 61, 7917-7923.	7.9	27
15	Towards clinical applicability of the diffusion-based DT-MRI visualization algorithm. <i>Journal of Visual Communication and Image Representation</i> , 2012, 23, 387-396.	2.8	2
16	A Multipoint Flux Approximation Finite Volume Scheme for Solving Anisotropic Reaction-Diffusion Systems in 3D. <i>Springer Proceedings in Mathematics</i> , 2011, , 741-749.	0.5	1
17	Significance of Dynamic Effect in Capillarity during Drainage Experiments in Layered Porous Media. <i>Vadose Zone Journal</i> , 2010, 9, 697-708.	2.2	19
18	Simulation of dynamical interaction between dislocations and dipolar loops. <i>Journal of Applied Physics</i> , 2010, 107, 061802.	2.5	14

#	ARTICLE	IF	CITATIONS
19	Analysis of the Parallel Finite Volume Solver for the Anisotropic Allen-Cahn Equation in 3D. , 2010, , 839-846.		1
20	Numerical simulation of interacting dislocations glide in a channel of a persistent slip band. Modelling and Simulation in Materials Science and Engineering, 2009, 17, 045009.	2.0	7
21	Numerical Investigation of Nonaqueous Phase Liquid Behavior at Heterogeneous Sand Layers Using VODA Multiphase Flow Code. Journal of Porous Media, 2009, 12, 685-694.	1.9	4
22	Semianalytical Solution for Two-Phase Flow in Porous Media with a Discontinuity. Vadose Zone Journal, 2008, 7, 1001-1007.	2.2	12
23	An Improved Semi-Analytical Solution for Verification of Numerical Models of Two-Phase Flow in Porous Media. Vadose Zone Journal, 2007, 6, 93-104.	2.2	27
24	Geometrical image segmentation by the Allen-Cahn equation. Applied Numerical Mathematics, 2004, 51, 187-205.	2.1	147
25	Numerical Simulation of Dislocation Dynamics. , 2004, , 631-640.		5
26	Diffuse-Interface Treatment of the Anisotropic Mean-Curvature Flow. Applications of Mathematics, 2003, 48, 437-453.	0.9	25
27	Mathematical analysis of phase-field equations with numerically efficient coupling terms. Interfaces and Free Boundaries, 2001, 3, 201-212.	0.8	15
28	Nonlinear Galerkin method for reaction-diffusion systems admitting invariant regions. Journal of Computational and Applied Mathematics, 2001, 136, 163-176.	2.0	12
29	Aerosol wall deposition in enclosures investigated by means of a stagnant layer. Environment International, 1996, 22, 883-889.	10.0	23