

# Ansgar JÃ¼ngel

## List of PR Articles by Year in descending order

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115259

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127627

32

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1298

citing authors

#	ARTICLE	IF	PR CITATIONS
1	A Convergent Entropy-Dissipating BDF2 Finite-Volume Scheme for a Population Cross-Diffusion System. Computational Methods in Applied Mathematics, 2024, 24, 725-746.	1.1	2
2	A coupled stochastic differential reaction-diffusion system for angiogenesis. Journal of Computational and Applied Mathematics, 2024, 438, 115570.	2.4	2
3	Large-time asymptotics for degenerate cross-diffusion population models with volume filling. Journal of Differential Equations, 2024, 386, 1-15.	2.1	5
4	Existence analysis of a cross-diffusion system with nonlinear Robin boundary conditions for vesicle transport in neurites. Nonlinear Analysis: Theory, Methods & Applications, 2024, 241, 113494.	1.2	0
5	Analysis of a Poisson-Nernst-Planck-Fermi system for charge transport in ion channels. Journal of Differential Equations, 2024, 395, 38-68.	2.1	0
6	Structure-preserving semi-convex-splitting numerical scheme for a Cahn-Hilliard cross-diffusion system in lymphangiogenesis. Mathematical Models and Methods in Applied Sciences, 2024, 34, 1905-1932.	2.7	3
7	A discrete boundedness-by-entropy method for finite-volume approximations of cross-diffusion systems. IMA Journal of Numerical Analysis, 2023, 43, 560-589.	2.4	6
8	Spin-diffusion model for micromagnetics in the limit of long times. Journal of Differential Equations, 2023, 343, 467-494.	2.1	3
9	Analysis of a finite-volume scheme for a single-species biofilm model. Applied Numerical Mathematics, 2023, 185, 386-405.	2.2	1
10	The Shigesada-Kawasaki-Teramoto cross-diffusion system beyond detailed balance. Journal of Differential Equations, 2023, 360, 260-286.	2.1	6
11	Global martingale solutions for stochastic Shigesada-Kawasaki-Teramoto population models. Stochastics and Partial Differential Equations: Analysis and Computations, 2023, 12, 525-575.	0.7	3
12	Hyperbolic-parabolic normal form and local classical solutions for cross-diffusion systems with incomplete diffusion. Communications in Partial Differential Equations, 2023, 48, 863-894.	2.2	4
13	A minimizing-movements approach to GENERIC systems. Mathematics in Engineering, 2022, 4, 1-18.	0.9	3
14	Nonlocal cross-diffusion systems for multi-species populations and networks. Nonlinear Analysis: Theory, Methods & Applications, 2022, 219, 112800.	1.2	22
15	Formal derivation of quantum drift-diffusion equations with spin-orbit interaction. Kinetic and Related Models, 2022, 15, 257.	1.6	0
16	Analysis of a fractional cross-diffusion system for multi-species populations. Journal of Differential Equations, 2022, 322, 237-267.	2.1	2
17	Existence analysis of a stationary compressible fluid model for heat-conducting and chemically reacting mixtures. Journal of Mathematical Physics, 2022, 63, .	1.2	5
18	Random-batch method for multi-species stochastic interacting particle systems. Journal of Computational Physics, 2022, 463, 111220.	3.7	2

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19	Weak-Strong Uniqueness for Maxwell–Stefan Systems. SIAM Journal on Mathematical Analysis, 2022, 54, 3215-3252.	1.6	13
20	Convergence of a finite-volume scheme for a degenerate-singular cross-diffusion system for biofilms. IMA Journal of Numerical Analysis, 2021, 41, 935-973.	2.4	5
21	Analysis of Maxwell–Stefan systems for heat conducting fluid mixtures. Nonlinear Analysis: Real World Applications, 2021, 59, 103263.	1.6	5
22	Entropy-dissipating finite-difference schemes for nonlinear fourth-order parabolic equations. Discrete and Continuous Dynamical Systems - Series B, 2021, 26, 3335.	1.3	1
23	A Convergent Structure-Preserving Finite-Volume Scheme for the Shigesada–Kawasaki–Teramoto Population System. SIAM Journal on Numerical Analysis, 2021, 59, 2286-2309.	2.5	9
24	Global martingale solutions for quasilinear SPDEs via the boundedness-by-entropy method. Annales De L'institut Henri Poincare (B) Probability and Statistics, 2021, 57, .	1.4	6
25	When do cross-diffusion systems have an entropy structure?. Journal of Differential Equations, 2021, 278, 60-72.	2.1	8
26	Existence analysis of a degenerate diffusion system for heat-conducting gases. Nonlinear Differential Equations and Applications, 2021, 28, .	0.9	1
27	Rigorous Derivation of Population Cross-Diffusion Systems from Moderately Interacting Particle Systems. Journal of Nonlinear Science, 2021, 31, .	2.1	20
28	Cross-diffusion systems and fast-reaction limits. Bulletin Des Sciences Mathematiques, 2020, 159, 102824.	0.8	11
29	Vanishing cross-diffusion limit in a Keller–Segel system with additional cross-diffusion. Nonlinear Analysis: Theory, Methods & Applications, 2020, 192, 111698.	1.2	4
30	A structure-preserving discontinuous Galerkin scheme for the Fisher–KPP equation. Numerische Mathematik, 2020, 146, 119-157.	1.8	12
31	Analysis of Cross-Diffusion Systems for Fluid Mixtures Driven by a Pressure Gradient. SIAM Journal on Mathematical Analysis, 2020, 52, 2179-2197.	1.6	9
32	Large-time asymptotics for a matrix spin drift-diffusion model. Journal of Mathematical Analysis and Applications, 2020, 486, 123887.	1.1	2
33	Rigorous mean-field limit and cross-diffusion. Zeitschrift Fur Angewandte Mathematik Und Physik, 2019, 70, .	1.3	29
34	High-friction limits of Euler flows for multicomponent systems. Nonlinearity, 2019, 32, 2875-2913.	1.5	14
35	Homogenization of degenerate cross-diffusion systems. Journal of Differential Equations, 2019, 267, 5543-5575.	2.1	3
36	Two Structure-Preserving Time Discretizations for Gradient Flows. Applied Mathematics and Optimization, 2019, 80, 733-764.	1.2	4

#	ARTICLE	IF	PR CITATIONS
37	Global renormalized solutions to reaction-cross-diffusion systems with self-diffusion. Journal of Differential Equations, 2019, 267, 5901-5937.	2.1	10
38	Comparison of a finite-element and finite-volume scheme for a degenerate cross-diffusion system for ion transport. Computational and Applied Mathematics, 2019, 38, .	2.1	5
39	Convergence of an implicit Euler Galerkin scheme for Poissonâ€“Maxwellâ€“Stefan systems. Advances in Computational Mathematics, 2019, 45, 1469-1498.	1.6	9
40	Finiteâ€“volume scheme for a degenerate crossâ€“diffusion model motivated from ion transport. Numerical Methods for Partial Differential Equations, 2019, 35, 545-575.	1.9	14
41	Global martingale solutions for a stochastic population cross-diffusion system. Stochastic Processes and Their Applications, 2019, 129, 3792-3820.	1.1	16
42	Weakâ€“strong uniqueness of renormalized solutions to reactionâ€“cross-diffusion systems. Mathematical Models and Methods in Applied Sciences, 2019, 29, 237-270.	2.7	15
43	Large-time asymptotics of a fractional driftâ€“diffusionâ€“Poisson system via the entropy method. Nonlinear Analysis: Theory, Methods & Applications, 2019, 179, 270-293.	1.2	2
44	Exponential Time Decay of Solutions to Reaction-Cross-Diffusion Systems of Maxwellâ€“Stefan Type. Archive for Rational Mechanics and Analysis, 2019, 235, 1059-1104.	2.0	8
45	Blow-up of solutions to semi-discrete parabolic-elliptic Keller-Segel models. Discrete and Continuous Dynamical Systems - Series B, 2019, 24, 4755-4782.	1.3	1
46	Energy-transport systems for optical lattices: Derivation, analysis, simulation. Mathematical Models and Methods in Applied Sciences, 2018, 28, 579-614.	2.7	3
47	Analysis of a degenerate parabolic cross-diffusion system for ion transport. Journal of Mathematical Analysis and Applications, 2018, 461, 523-543.	1.1	17
48	Existence Analysis of a Single-Phase Flow Mixture with van der Waals Pressure. SIAM Journal on Mathematical Analysis, 2018, 50, 1367-1395.	1.6	14
49	Pipelined Iterative Solvers with Kernel Fusion for Graphics Processing Units. ACM Transactions on Mathematical Software, 2017, 43, 1-27.	2.7	13
50	Analysis of degenerate cross-diffusion population models with volume filling. Annales De L'Institut Henri Poincare (C) Analyse Non Lineaire, 2017, 34, 1-29.	1.6	43
51	A cross-diffusion system derived from a Fokkerâ€“Planck equation with partial averaging. Zeitschrift Fur Angewandte Mathematik Und Physik, 2017, 68, .	1.3	4
52	Corrigendum to â€œAnalysis of degenerate cross-diffusion population models with volume fillingâ€• [Ann. Inst. Henri Poincaré 34 (1) (2017) 1â€“29]. Annales De L'Institut Henri Poincare (C) Analyse Non Lineaire, 2017, 34, 789-792.	1.6	4
53	Discrete Beckner inequalities via the Bochnerâ€“Bakryâ€“Emery approach for Markov chains. Annals of Applied Probability, 2017, 27, .	1.6	8
54	A note on the uniqueness of weak solutions to a class of cross-diffusion systems. Journal of Evolution Equations, 2017, 18, 805-820.	1.0	15

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55	Global Existence Analysis of Cross-Diffusion Population Systems for Multiple Species. Archive for Rational Mechanics and Analysis, 2017, 227, 715-747.	2.0	55
56	A kinetic equation for economic value estimation with irrationality and herding. Kinetic and Related Models, 2017, 10, 239-261.	1.6	12
57	Entropy-dissipating semi-discrete Runge-Kutta schemes for nonlinear diffusion equations. Communications in Mathematical Sciences, 2017, 15, 27-53.	1.0	11
58	Energy-transport models for spin transport in ferromagnetic semiconductors. Communications in Mathematical Sciences, 2017, 15, 1527-1563.	1.0	0
59	A discrete Bakry-Emery method and its application to the porous-medium equation. Discrete and Continuous Dynamical Systems, 2017, 37, 5541-5560.	0.9	0
60	A finite-volume scheme for a spinorial matrix drift-diffusion model for semiconductors. Numerical Methods for Partial Differential Equations, 2016, 32, 819-846.	1.9	6
61	Entropy-dissipative discretization of nonlinear diffusion equations and discrete Beckner inequalities. ESAIM: Mathematical Modelling and Numerical Analysis, 2016, 50, 135-162.	0.5	19
62	Qualitative behavior of solutions to cross-diffusion systems from population dynamics. Journal of Mathematical Analysis and Applications, 2016, 440, 794-809.	1.1	8
63	ViennaCL—Linear Algebra Library for Multi- and Many-Core Architectures. SIAM Journal of Scientific Computing, 2016, 38, S412-S439.	2.3	77
64	A review of recent advances in the spherical harmonics expansion method for semiconductor device simulation. Journal of Computational Electronics, 2016, 15, 939-958.	1.9	25
65	Analysis of a coupled spin drift-diffusion Maxwell-Landau-Lifshitz system. Journal of Differential Equations, 2016, 260, 6828-6854.	2.1	9
66	Hypocoercivity for a Linearized Multispecies Boltzmann System. SIAM Journal on Mathematical Analysis, 2016, 48, 538-568.	1.6	23
67	A Degenerate Fourth-Order Parabolic Equation Modeling Bose-Einstein Condensation. Part I: Local Existence of Solutions. Archive for Rational Mechanics and Analysis, 2015, 217, 935-973.	2.0	3
68	Entropy dissipative one-leg multistep time approximations of nonlinear diffusive equations. Numerical Methods for Partial Differential Equations, 2015, 31, 1119-1149.	1.9	10
69	The boundedness-by-entropy method for cross-diffusion systems. Nonlinearity, 2015, 28, 1963-2001.	1.5	142
70	Global existence analysis for degenerate energy-transport models for semiconductors. Journal of Differential Equations, 2015, 258, 2339-2363.	2.1	11
71	Bounded weak solutions to a matrix drift-diffusion model for spin-coherent electron transport in semiconductors. Mathematical Models and Methods in Applied Sciences, 2015, 25, 929-958.	2.7	8
72	A Degenerate Fourth-Order Parabolic Equation Modeling Bose-Einstein Condensation Part II: Finite-Time Blow-Up. Communications in Partial Differential Equations, 2015, 40, 1748-1786.	2.2	3

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73	Analysis of an Incompressible Navier–Stokes–Maxwell–Stefan System. <i>Communications in Mathematical Physics</i> , 2015, 340, 471-497.	2.5	46
74	A finite volume scheme for a Keller–Segel model with additional cross-diffusion. <i>IMA Journal of Numerical Analysis</i> , 2014, 34, 96-122.	2.4	35
75	Perfectly Matched Layers versus discrete transparent boundary conditions in quantum device simulations. <i>Journal of Computational Physics</i> , 2014, 275, 1-24.	3.7	16
76	An Asymptotic Limit of a Navier–Stokes System with Capillary Effects. <i>Communications in Mathematical Physics</i> , 2014, 329, 725-744.	2.5	20
77	On the Lagrangian structure of quantum fluid models. <i>Discrete and Continuous Dynamical Systems</i> , 2014, 34, 1375-1396.	0.9	6
78	Achieving Portable High Performance for Iterative Solvers on Accelerators. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2014, 14, 963-964.	0.5	0
79	Existence Analysis of Maxwell–Stefan Systems for Multicomponent Mixtures. <i>SIAM Journal on Mathematical Analysis</i> , 2013, 45, 2421-2440.	1.6	73
80	A multidimensional nonlinear sixth-order quantum diffusion equation. <i>Annales De L'Institut Henri Poincare (C) Analyse Non Lineaire</i> , 2013, 30, 337-365.	1.6	11
81	Transient Schrödinger–Poisson simulations of a high-frequency resonant tunneling diode oscillator. <i>Journal of Computational Physics</i> , 2013, 239, 187-205.	3.7	30
82	Flatness of Semilinear Parabolic PDEs—A Generalized Cauchy–Kowalevski Approach. <i>IEEE Transactions on Automatic Control</i> , 2013, 58, 2277-2291.	5.3	18
83	Existence analysis for a simplified transient energy–transport model for semiconductors. <i>Mathematical Methods in the Applied Sciences</i> , 2013, 36, 1701-1712.	1.9	10
84	A Note on Aubin–Lions–Dubinski–Lemmas. <i>Acta Applicandae Mathematicae</i> , 2013, 133, 33-43.	0.8	63
85	Entropy-stable and entropy-dissipative approximations of a fourth-order quantum diffusion equation. <i>Numerische Mathematik</i> , 2013, 127, 365-396.	1.8	13
86	Two spinorial drift-diffusion models for quantum electron transport in graphene. <i>Communications in Mathematical Sciences</i> , 2013, 11, 807-830.	1.0	10
87	Compact families of piecewise constant functions in. <i>Nonlinear Analysis: Theory, Methods &amp; Applications</i> , 2012, 75, 3072-3077.	1.2	84
88	Cross Diffusion Preventing Blow-Up in the Two-Dimensional Keller–Segel Model. <i>SIAM Journal on Mathematical Analysis</i> , 2011, 43, 997-1022.	1.6	55
89	A New Derivation of the Quantum Navier–Stokes Equations in the Wigner–Fokker–Planck Approach. <i>Journal of Statistical Physics</i> , 2011, 145, 1661-1673.	1.2	11
90	Analysis of a bipolar energy-transport model for a metal-oxide-semiconductor diode. <i>Journal of Mathematical Analysis and Applications</i> , 2011, 378, 764-774.	1.1	4

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91	A simplified quantum energy-transport model for semiconductors. <i>Nonlinear Analysis: Real World Applications</i> , 2011, 12, 1033-1046.	1.6	3
92	A finite-volume scheme for the multidimensional quantum drift-diffusion model for semiconductors. <i>Numerical Methods for Partial Differential Equations</i> , 2011, 27, 1483-1510.	1.9	10
93	Effective velocity in compressible Navier-Stokes equations with third-order derivatives. <i>Nonlinear Analysis: Theory, Methods &amp; Applications</i> , 2011, 74, 2813-2818.	1.2	18
94	Lyapunov functionals, weak sequential stability, and uniqueness analysis for energy-transport systems. <i>Annali Dell'Universita Di Ferrara</i> , 2011, 58, 89-100.	0.8	1
95	Semiclassical limit in a simplified quantum energy-transport model for semiconductors. <i>Kinetic and Related Models</i> , 2011, 4, 1049-1062.	1.6	1
96	Full compressible Navier-Stokes equations for quantum fluids: Derivation and numerical solution. <i>Kinetic and Related Models</i> , 2011, 4, 785-807.	1.6	30
97	Entropies for radially symmetric higher-order nonlinear diffusion equations. <i>Communications in Mathematical Sciences</i> , 2011, 9, 353-382.	1.0	4
98	Time-dependent simulations of quantum waveguides using a time-splitting spectral method. <i>Mathematics and Computers in Simulation</i> , 2010, 81, 883-898.	4.9	6
99	The zero-electron-mass limit in the hydrodynamic model for plasmas. <i>Nonlinear Analysis: Theory, Methods &amp; Applications</i> , 2010, 72, 4415-4427.	1.2	29
100	Global Weak Solutions to Compressible Navier-Stokes Equations for Quantum Fluids. <i>SIAM Journal on Mathematical Analysis</i> , 2010, 42, 1025-1045.	1.6	127
101	Energy transport in semiconductor devices. <i>Mathematical and Computer Modelling of Dynamical Systems</i> , 2010, 16, 1-22.	1.6	13
102	Self-heating in a coupled thermo-electric circuit-device model. <i>Journal of Computational Electronics</i> , 2010, 10, 163-178.	1.9	6
103	Diffusive semiconductor moment equations using Fermi-Dirac statistics. <i>Zeitschrift Fur Angewandte Mathematik Und Physik</i> , 2010, 62, 623-639.	1.3	7
104	Convex Sobolev Inequalities Derived from Entropy Dissipation. <i>Archive for Rational Mechanics and Analysis</i> , 2010, 199, 563-596.	2.0	17
105	Small velocity and finite temperature variations in kinetic relaxation models. <i>Kinetic and Related Models</i> , 2010, 3, 1-15.	1.6	1
106	Global existence of solutions to one-dimensional viscous quantum hydrodynamic equations. <i>Journal of Differential Equations</i> , 2009, 247, 3117-3135.	2.1	36
107	A Three-Dimensional Mixed Finite-Element Approximation of the Semiconductor Energy-Transport Equations. <i>SIAM Journal of Scientific Computing</i> , 2009, 31, 1120-1140.	2.3	10
108	A Sixth-Order Nonlinear Parabolic Equation for Quantum Systems. <i>SIAM Journal on Mathematical Analysis</i> , 2009, 41, 1472-1490.	1.6	18

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109	Mixed entropy estimates for the porous-medium equation with convection. <i>Discrete and Continuous Dynamical Systems - Series B</i> , 2009, 12, 783-796.	1.3	2
110	Sequential Quadratic Programming Method for Volatility Estimation in Option Pricing. <i>Journal of Optimization Theory and Applications</i> , 2008, 139, 515-540.	1.1	4
111	Non-homogeneous boundary conditions for a fourth-order diffusion equation. <i>Comptes Rendus Mathematique</i> , 2008, 346, 143-148.	0.6	1
112	The Derrida-Lebowitz-Speer-Spohn Equation: Existence, NonUniqueness, and Decay Rates of the Solutions. <i>SIAM Journal on Mathematical Analysis</i> , 2008, 39, 1996-2015.	1.6	73
113	Numerical Coupling of Electric Circuit Equations and Energy-Transport Models for Semiconductors. <i>SIAM Journal of Scientific Computing</i> , 2008, 30, 873-894.	2.3	14
114	Analysis of a Parabolic Cross-Diffusion Semiconductor Model with Electron-Hole Scattering. <i>Communications in Partial Differential Equations</i> , 2007, 32, 127-148.	2.2	31
115	A Hierarchy of Diffusive Higher-Order Moment Equations for Semiconductors. <i>SIAM Journal on Applied Mathematics</i> , 2007, 68, 171-198.	1.9	14
116	A Two-Surface Problem of the Electron Flow in a Semiconductor on the Basis of Kinetic Theory. <i>Journal of Statistical Physics</i> , 2007, 130, 313-342.	1.2	3
117	First-order entropies for the Derrida-Lebowitz-Speer-Spohn equation. <i>Discrete and Continuous Dynamical Systems - Series B</i> , 2007, 8, 861-877.	1.3	14
118	Physical and numerical viscosity for quantum hydrodynamics. <i>Communications in Mathematical Sciences</i> , 2007, 5, 447-471.	1.0	30
119	A Nonlinear Fourth-Order Parabolic Equation with Nonhomogeneous Boundary Conditions. <i>SIAM Journal on Mathematical Analysis</i> , 2006, 37, 1761-1779.	1.6	26
120	Derivation of New Quantum Hydrodynamic Equations Using Entropy Minimization. <i>SIAM Journal on Applied Mathematics</i> , 2006, 67, 46-68.	1.9	52
121	Numerical approximation of the viscous quantum hydrodynamic model for semiconductors. <i>Applied Numerical Mathematics</i> , 2006, 56, 899-915.	2.2	26
122	Analysis of a parabolic cross-diffusion population model without self-diffusion. <i>Journal of Differential Equations</i> , 2006, 224, 39-59.	2.1	132
123	The relaxation-time limit in the quantum hydrodynamic equations for semiconductors. <i>Journal of Differential Equations</i> , 2006, 225, 440-464.	2.1	35
124	An algorithmic construction of entropies in higher-order nonlinear PDEs. <i>Nonlinearity</i> , 2006, 19, 633-659.	1.5	48
125	Entropy-energy inequalities and improved convergence rates for nonlinear parabolic equations. <i>Discrete and Continuous Dynamical Systems - Series B</i> , 2006, 6, 1027-1050.	1.3	18
126	A logarithmic fourth-order parabolic equation and related logarithmic Sobolev inequalities. <i>Communications in Mathematical Sciences</i> , 2006, 4, 275-290.	1.0	24

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127	Existence and uniqueness of solutions to a quasilinear parabolic equation with quadratic gradients in financial markets. <i>Nonlinear Analysis: Theory, Methods &amp; Applications</i> , 2005, 62, 519-544.	1.2	11
128	Semiconductor Simulations Using a Coupled Quantum Drift-Diffusion Schrödinger-Poisson Model. <i>SIAM Journal on Applied Mathematics</i> , 2005, 66, 554-572.	1.9	21
129	Quantum Euler-Poisson systems: global existence and exponential decay. <i>Quarterly of Applied Mathematics</i> , 2004, 62, 569-600.	1.0	61
130	Analysis of a Multidimensional Parabolic Population Model with Strong Cross-Diffusion. <i>SIAM Journal on Mathematical Analysis</i> , 2004, 36, 301-322.	1.6	137
131	Convergence of a high-order compact finite difference scheme for a nonlinear Black-Scholes equation. <i>ESAIM: Mathematical Modelling and Numerical Analysis</i> , 2004, 38, 359-369.	0.5	47
132	An Adaptive Mixed Scheme for Energy-Transport Simulations of Field-Effect Transistors. <i>SIAM Journal of Scientific Computing</i> , 2004, 25, 1698-1716.	2.3	13
133	Discrete minimum and maximum principles for finite element approximations of non-monotone elliptic equations. <i>Numerische Mathematik</i> , 2004, 99, 485-508.	1.8	15
134	Semi-discretization in time and numerical convergence of solutions of a nonlinear cross-diffusion population model. <i>Numerische Mathematik</i> , 2003, 93, 655-673.	1.8	84
135	Global smooth solutions to the multi-dimensional hydrodynamic model for two-carrier plasmas. <i>Journal of Differential Equations</i> , 2003, 190, 663-685.	2.1	78
136	High Order Compact Finite Difference Schemes for a Nonlinear Black-Scholes Equation. <i>International Journal of Theoretical and Applied Finance</i> , 2003, 06, 767-789.	0.5	70
137	A Mixed Finite-Element Discretization of the Energy-Transport Model for Semiconductors. <i>SIAM Journal of Scientific Computing</i> , 2003, 24, 2058-2075.	2.3	27
138	A Parabolic Cross-Diffusion System for Granular Materials. <i>SIAM Journal on Mathematical Analysis</i> , 2003, 35, 561-578.	1.6	24
139	Convergence of Nonlinear Schrödinger-Poisson Systems to the Compressible Euler Equations. <i>Communications in Partial Differential Equations</i> , 2003, 28, 1005-1022.	2.2	22
140	Convergent semidiscretization of a nonlinear fourth order parabolic system. <i>ESAIM: Mathematical Modelling and Numerical Analysis</i> , 2003, 37, 277-289.	0.5	24
141	Positive entropic schemes for a nonlinear fourth-order parabolic equation. <i>Discrete and Continuous Dynamical Systems - Series B</i> , 2003, 3, 1-20.	1.3	10
142	ASYMPTOTIC LIMITS FOR QUANTUM TRAJECTORY MODELS. <i>Communications in Partial Differential Equations</i> , 2002, 27, 669-691.	2.2	15
143	A relaxation scheme for the hydrodynamic equations for semiconductors. <i>Applied Numerical Mathematics</i> , 2002, 43, 229-252.	2.2	13
144	A Positivity-Preserving Numerical Scheme for a Nonlinear Fourth Order Parabolic System. <i>SIAM Journal on Numerical Analysis</i> , 2001, 39, 385-406.	2.5	68

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145	Positive Solutions to Singular Second and Third Order Differential Equations for Quantum Fluids. <i>Archive for Rational Mechanics and Analysis</i> , 2001, 156, 183-203.	2.0	45
146	Entropy Dissipation Methods for Degenerate Parabolic Problems and Generalized Sobolev Inequalities. <i>Monatshefte Fur Mathematik</i> , 2001, 133, 1-82.	0.6	301
147	On a quasilinear degenerate system arising in semiconductors theory. Part I: Existence and uniqueness of solutions. <i>Nonlinear Analysis: Real World Applications</i> , 2001, 2, 305-336.	1.6	28
148	Nonlinear problems in quantum semiconductor modeling. <i>Nonlinear Analysis: Theory, Methods &amp; Applications</i> , 2001, 47, 5873-5884.	1.2	28
149	A hierarchy of hydrodynamic models for plasmas. Zero-electron-mass limits in the drift-diffusion equations. <i>Annales De L'Institut Henri Poincare (C) Analyse Non Lineaire</i> , 2000, 17, 83-118.	1.6	31
150	Regularity and uniqueness of solutions to a parabolic system in nonequilibrium thermodynamics. <i>Nonlinear Analysis: Theory, Methods &amp; Applications</i> , 2000, 41, 669-688.	1.2	28
151	Inviscid Limits of the Complex Ginzburg-Landau Equation. <i>Communications in Mathematical Physics</i> , 2000, 214, 201-226.	2.5	27
152	Global Nonnegative Solutions of a Nonlinear Fourth-Order Parabolic Equation for Quantum Systems. <i>SIAM Journal on Mathematical Analysis</i> , 2000, 32, 760-777.	1.6	76
153	Numerical Discretization of Energy-Transport Models for Semiconductors with Nonparabolic Band Structure. <i>SIAM Journal of Scientific Computing</i> , 2000, 22, 986-1007.	2.3	53
154	A Nonstiff Euler Discretization of the Complex Ginzburg-Landau Equation in One Space Dimension. <i>SIAM Journal on Numerical Analysis</i> , 2000, 38, 292-328.	2.5	7
155	On a quasilinear degenerate system arising in semiconductor theory. Part II: Localization of vacuum solutions. <i>Nonlinear Analysis: Theory, Methods &amp; Applications</i> , 1999, 36, 569-594.	1.2	13
156	A steady-state system in non-equilibrium thermodynamics including thermal and electrical effects. <i>Mathematical Methods in the Applied Sciences</i> , 1998, 21, 1399-1413.	1.9	54
157	A Steady-State Quantum Euler-Poisson System for Potential Flows. <i>Communications in Mathematical Physics</i> , 1998, 194, 463-479.	2.5	50
158	A Discretization Scheme for a Quasi-Hydrodynamic Semiconductor Model. <i>Mathematical Models and Methods in Applied Sciences</i> , 1997, 07, 935-955.	2.7	30
159	Space localization and uniqueness of solutions of a quasilinear parabolic system arising in semiconductor theory. <i>Comptes Rendus Mathematique</i> , 1997, 325, 267-272.	0.5	4
160	An existence and uniqueness result for the stationary energy-transport model in semiconductor theory. <i>Comptes Rendus Mathematique</i> , 1997, 324, 867-872.	0.5	6
161	Symmetrization and entropy inequality for general diffusion equations. <i>Comptes Rendus Mathematique</i> , 1997, 325, 963-968.	0.5	29
162	A Nonlinear Drift-Diffusion System with Electric Convection Arising in Electrophoretic and Semiconductor Modeling. <i>Mathematische Nachrichten</i> , 1997, 185, 85-110.	0.8	23

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163	A system of parabolic equations in nonequilibrium thermodynamics including thermal and electrical effects. <i>Journal Des Mathematiques Pures Et Appliquees</i> , 1997, 76, 991-1015.	2.1	79
164	Asymptotic Analysis of a Semiconductor Model Based on Fermi-Dirac Statistics. <i>Mathematical Methods in the Applied Sciences</i> , 1996, 19, 401-424.	1.9	17
165	Stationary equations for charge carriers in semiconductors including electron-hole scattering. <i>Applicable Analysis</i> , 1996, 62, 53-69.	1.5	6
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