

Paola Pietra

List of Publications by Year in descending order

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35
papers

1,180
citations

567281

15
h-index

395702

33
g-index

39
all docs

39
docs citations

39
times ranked

557
citing authors

#	ARTICLE	IF	CITATIONS
1	A quantum Drift-Diffusion model and its use into a hybrid strategy for strongly confined nanostructures. <i>Kinetic and Related Models</i> , 2019, 12, 217-242.	0.9	1
2	Hybrid coupling of a one-dimensional energy-transport Schrödinger system. <i>Monatshefte Fur Mathematik</i> , 2017, 184, 563-596.	0.9	0
3	On the classical limit of a time-dependent self-consistent field system: Analysis and computation. <i>Kinetic and Related Models</i> , 2017, 10, 263-298.	0.9	9
4	A plane wave virtual element method for the Helmholtz problem. <i>ESAIM: Mathematical Modelling and Numerical Analysis</i> , 2016, 50, 783-808.	1.9	97
5	A posteriori error estimator for exponentially fitted Discontinuous Galerkin approximation of advection dominated problems. <i>Calcolo</i> , 2016, 53, 83-103.	1.1	0
6	A Hybrid Classical-Quantum Transport Model for the Simulation of Carbon Nanotube Transistors. <i>SIAM Journal of Scientific Computing</i> , 2014, 36, B486-B507.	2.8	7
7	Numerical simulations of an energy-transport model for partially quantized particles. <i>Communications in Mathematical Sciences</i> , 2014, 12, 99-123.	1.0	2
8	AN EFFECTIVE MASS MODEL FOR THE SIMULATION OF ULTRA-SCALED CONFINED DEVICES. <i>Mathematical Models and Methods in Applied Sciences</i> , 2012, 22, .	3.3	5
9	Exponentially fitted discontinuous Galerkin schemes for singularly perturbed problems. <i>Numerical Methods for Partial Differential Equations</i> , 2012, 28, 1747-1777.	3.6	4
10	Diffusive semiconductor moment equations using Fermi-Dirac statistics. <i>Zeitschrift Fur Angewandte Mathematik Und Physik</i> , 2011, 62, 623-639.	1.4	7
11	Modeling and simulation of the diffusive transport in a nanoscale Double-Gate MOSFET. <i>Journal of Computational Electronics</i> , 2008, 7, 52-65.	2.5	5
12	A Hierarchy of Diffusive Higher-Order Moment Equations for Semiconductors. <i>SIAM Journal on Applied Mathematics</i> , 2007, 68, 171-198.	1.8	13
13	Stability and error analysis of mixed finite-volume methods for advection dominated problems. <i>Computers and Mathematics With Applications</i> , 2006, 51, 681-696.	2.7	20
14	Discretization of Semiconductor Device Problems (I). <i>Handbook of Numerical Analysis</i> , 2005, 13, 317-441.	1.8	28
15	An Adaptive Mixed Scheme for Energy-Transport Simulations of Field-Effect Transistors. <i>SIAM Journal of Scientific Computing</i> , 2004, 25, 1698-1716.	2.8	13
16	A Mixed Finite-Element Discretization of the Energy-Transport Model for Semiconductors. <i>SIAM Journal of Scientific Computing</i> , 2003, 24, 2058-2075.	2.8	26
17	A Wigner-Measure Analysis of the Dufort-Frankel Scheme for the Schrödinger Equation. <i>SIAM Journal on Numerical Analysis</i> , 2002, 40, 1281-1310.	2.3	40
18	Identification of doping profiles in semiconductor devices. <i>Inverse Problems</i> , 2001, 17, 1765-1795.	2.0	39

#	ARTICLE	IF	CITATIONS
19	Space-frequency adaptive approximation for quantum hydrodynamic models. <i>Transport Theory and Statistical Physics</i> , 2000, 29, 375-395.	0.4	5
20	Discontinuous Galerkin approximations for elliptic problems. <i>Numerical Methods for Partial Differential Equations</i> , 2000, 16, 365-378.	3.6	277
21	Numerical Discretization of Energy-Transport Models for Semiconductors with Nonparabolic Band Structure. <i>SIAM Journal of Scientific Computing</i> , 2000, 22, 986-1007.	2.8	53
22	On the interplay between meshing and discretization in three-dimensional diffusion simulation. <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , 2000, 19, 1233-1240.	2.7	12
23	Weak Limits of the Quantum Hydrodynamic Model. <i>VLSI Design</i> , 1999, 9, 427-434.	0.5	10
24	Semiclassical Analysis of Discretizations of Schrödinger-type Equations. <i>VLSI Design</i> , 1999, 9, 397-413.	0.5	1
25	Numerical approximation of quadratic observables of Schrödinger-type equations in the semi-classical limit. <i>Numerische Mathematik</i> , 1999, 81, 595-630.	1.9	93
26	A Discretization Scheme for a Quasi-Hydrodynamic Semiconductor Model. <i>Mathematical Models and Methods in Applied Sciences</i> , 1997, 07, 935-955.	3.3	29
27	Mixed finite element approximation of a degenerate elliptic problem. <i>Numerische Mathematik</i> , 1995, 71, 225-236.	1.9	9
28	A non-isentropic Euler-Poisson model for a collisionless plasma. <i>Mathematical Methods in the Applied Sciences</i> , 1993, 16, 409-442.	2.3	11
29	A PHASE PLANE ANALYSIS OF TRANSONIC SOLUTIONS FOR THE HYDRODYNAMIC SEMICONDUCTOR MODEL. <i>Mathematical Models and Methods in Applied Sciences</i> , 1991, 01, 347-376.	3.3	65
30	Boundary and interface conditions within a finite element preconditioner for spectral methods. <i>Journal of Computational Physics</i> , 1990, 91, 310-343.	3.8	26
31	NEW MIXED FINITE ELEMENT SCHEMES FOR CURRENT CONTINUITY EQUATIONS. <i>COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering</i> , 1990, 9, 257-268.	0.9	36
32	Numerical simulation of semiconductor devices. <i>Computer Methods in Applied Mechanics and Engineering</i> , 1989, 75, 493-514.	6.6	73
33	Two-Dimensional Exponential Fitting and Applications to Drift-Diffusion Models. <i>SIAM Journal on Numerical Analysis</i> , 1989, 26, 1342-1355.	2.3	147
34	Formulation of Alternating-Direction Iterative Methods for Mixed Methods in Three Space. <i>North-Holland Mathematics Studies</i> , 1987, , 21-30.	0.2	0
35	Fixed-point algorithms for stationary flow in porous media. <i>Computer Methods in Applied Mechanics and Engineering</i> , 1986, 56, 17-45.	6.6	14