## Paola Pietra

List of Publications by Year in descending order

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Ρλοιλ Ριέτρλ

| #  | Article   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | Discontinuous Galerkin approximations for elliptic problems. Numerical Methods for Partial<br>Differential Equations, 2000, 16, 365-378.  | 3.6 | 277       |
| 2  | Two-Dimensional Exponential Fitting and Applications to Drift-Diffusion Models. SIAM Journal on Numerical Analysis, 1989, 26, 1342-1355.  | 2.3 | 147       |
| 3  | A plane wave virtual element method for the Helmholtz problem. ESAIM: Mathematical Modelling and Numerical Analysis, 2016, 50, 783-808.   | 1.9 | 97        |
| 4  | Numerical approximation of quadratic observables of SchrĶdinger-type equations in the semi-classical limit. Numerische Mathematik, 1999, 81, 595-630.   | 1.9 | 93        |
| 5  | Numerical simulation of semiconductor devices. Computer Methods in Applied Mechanics and Engineering, 1989, 75, 493-514.  | 6.6 | 73        |
| 6  | A PHASE PLANE ANALYSIS OF TRANSONIC SOLUTIONS FOR THE HYDRODYNAMIC SEMICONDUCTOR MODEL. Mathematical Models and Methods in Applied Sciences, 1991, 01, 347-376.                                   | 3.3 | 65        |
| 7  | Numerical Discretization of Energy-Transport Models for Semiconductors with Nonparabolic Band<br>Structure. SIAM Journal of Scientific Computing, 2000, 22, 986-1007.                             | 2.8 | 53        |
| 8  | A Wigner-Measure Analysis of the DufortFrankel Scheme for the Schrödinger Equation. SIAM Journal<br>on Numerical Analysis, 2002, 40, 1281-1310.   | 2.3 | 40        |
| 9  | Identification of doping profiles in semiconductor devices. Inverse Problems, 2001, 17, 1765-1795.  | 2.0 | 39        |
| 10 | NEW MIXED FINITE ELEMENT SCHEMES FOR CURRENT CONTINUITY EQUATIONS. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 1990, 9, 257-268. | 0.9 | 36        |
| 11 | A Discretization Scheme for a Quasi-Hydrodynamic Semiconductor Model. Mathematical Models and<br>Methods in Applied Sciences, 1997, 07, 935-955.  | 3.3 | 29        |
| 12 | Discretization of Semiconductor Device Problems (I). Handbook of Numerical Analysis, 2005, 13, 317-441.   | 1.8 | 28        |
| 13 | Boundary and interface conditions within a finite element preconditioner for spectral methods.<br>Journal of Computational Physics, 1990, 91, 310-343.  | 3.8 | 26        |
| 14 | A Mixed Finite-Element Discretization of the Energy-Transport Model for Semiconductors. SIAM<br>Journal of Scientific Computing, 2003, 24, 2058-2075.   | 2.8 | 26        |
| 15 | Stability and error analysis of mixed finite-volume methods for advection dominated problems.<br>Computers and Mathematics With Applications, 2006, 51, 681-696.                                  | 2.7 | 20        |
| 16 | Fixed-point algorithms for stationary flow in porous media. Computer Methods in Applied Mechanics and Engineering, 1986, 56, 17-45.   | 6.6 | 14        |
| 17 | An Adaptive Mixed Scheme for Energy-Transport Simulations of Field-Effect Transistors. SIAM Journal of Scientific Computing, 2004, 25, 1698-1716.   | 2.8 | 13        |
| 18 | A Hierarchy of Diffusive Higher-Order Moment Equations for Semiconductors. SIAM Journal on Applied Mathematics, 2007, 68, 171-198.  | 1.8 | 13        |

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|----|---|-----|-----------|
| 19 | On the interplay between meshing and discretization in three-dimensional diffusion simulation. IEEE<br>Transactions on Computer-Aided Design of Integrated Circuits and Systems, 2000, 19, 1233-1240. | 2.7 | 12        |
| 20 | A non-isentropic Euler-Poisson model for a collisionless plasma. Mathematical Methods in the Applied Sciences, 1993, 16, 409-442.   | 2.3 | 11        |
| 21 | Weak Limits of the Quantum Hydrodynamic Model. VLSI Design, 1999, 9, 427-434.   | 0.5 | 10        |
| 22 | Mixed finite element approximation of a degenerate elliptic problem. Numerische Mathematik, 1995, 71, 225-236.  | 1.9 | 9         |
| 23 | On the classical limit of a time-dependent self-consistent field system: Analysis and computation.<br>Kinetic and Related Models, 2017, 10, 263-298.  | 0.9 | 9         |
| 24 | Diffusive semiconductor moment equations using Fermi–Dirac statistics. Zeitschrift Fur Angewandte<br>Mathematik Und Physik, 2011, 62, 623-639.  | 1.4 | 7         |
| 25 | A Hybrid Classical-Quantum Transport Model for the Simulation of Carbon Nanotube Transistors.<br>SIAM Journal of Scientific Computing, 2014, 36, B486-B507.   | 2.8 | 7         |
| 26 | Space-frequency adaptive approximation for quantum hydrodynamic models. Transport Theory and Statistical Physics, 2000, 29, 375-395.  | 0.4 | 5         |
| 27 | Modeling and simulation of the diffusive transport in a nanoscale Double-Gate MOSFET. Journal of Computational Electronics, 2008, 7, 52-65.   | 2.5 | 5         |
| 28 | AN EFFECTIVE MASS MODEL FOR THE SIMULATION OF ULTRA-SCALED CONFINED DEVICES. Mathematical Models and Methods in Applied Sciences, 2012, 22, .   | 3.3 | 5         |
| 29 | Exponentially fitted discontinuous Galerkin schemes for singularly perturbed problems. Numerical<br>Methods for Partial Differential Equations, 2012, 28, 1747-1777.                                  | 3.6 | 4         |
| 30 | Numerical simulations of an energy-transport model for partially quantized particles.<br>Communications in Mathematical Sciences, 2014, 12, 99-123.   | 1.0 | 2         |
| 31 | Semiclassical Analysis of Discretizations of SchrĶdinger-type Equations. VLSI Design, 1999, 9, 397-413.   | 0.5 | 1         |
| 32 | A quantum Drift-Diffusion model and its use into a hybrid strategy for strongly confined nanostructures. Kinetic and Related Models, 2019, 12, 217-242.   | 0.9 | 1         |
| 33 | Formulation of Alternating-Direction Iterative Methods for Mixed Methods in Three Space.<br>North-Holland Mathematics Studies, 1987, , 21-30.   | 0.2 | 0         |
| 34 | A posteriori error estimator for exponentially fitted Discontinuous Galerkin approximation of advection dominated problems. Calcolo, 2016, 53, 83-103.  | 1.1 | 0         |
| 35 | Hybrid coupling of a one-dimensional energy-transport SchrĶdinger system. Monatshefte Fur<br>Mathematik, 2017, 184, 563-596.  | 0.9 | 0         |