

# Nicolas Forcadel

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/9164393/publications.pdf>

Version: 2024-02-01

32  
papers

359  
citations

1040056

9  
h-index

794594

19  
g-index

32  
all docs

32  
docs citations

32  
times ranked

252  
citing authors

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | Stochastic Homogenization of Hamilton–Jacobi Equations on a Junction. <i>Archive for Rational Mechanics and Analysis</i> , 2022, 243, 1223-1267.  | 2.4 | 0         |
| 2  | Homogenization of a microscopic pedestrians model on a convergent junction. <i>Mathematical Modelling of Natural Phenomena</i> , 2022, 17, 21.  | 2.4 | 6         |
| 3  | From Heterogeneous Microscopic Traffic Flow Models to Macroscopic Models. <i>SIAM Journal on Mathematical Analysis</i> , 2021, 53, 309-322.   | 1.9 | 10        |
| 4  | A non-local macroscopic model for traffic flow. <i>ESAIM: Mathematical Modelling and Numerical Analysis</i> , 2021, 55, 689-711.  | 1.9 | 3         |
| 5  | Homogenization of a stochastic viscous transport equation. <i>Evolution Equations and Control Theory</i> , 2021, 10, 353-364.   | 1.3 | 0         |
| 6  | Homogenization of a discrete model for a bifurcation and application to traffic flow. <i>Journal Des Mathematiques Pures Et Appliquees</i> , 2020, 136, 356-414.                        | 1.6 | 3         |
| 7  | A Semi-Lagrangian Scheme for Hamilton–Jacobi–Bellman Equations on Networks. <i>SIAM Journal on Numerical Analysis</i> , 2020, 58, 3165-3196.  | 2.3 | 2         |
| 8  | Junction Conditions for Hamilton–Jacobi Equations for Solving Real-Time Traffic Flow Problems. <i>IEEE Access</i> , 2019, 7, 114334-114348.   | 4.2 | 0         |
| 9  | A comparison principle for Hamilton-Jacobi equation with moving in time boundary. <i>Evolution Equations and Control Theory</i> , 2019, 8, 543-565.                                     | 1.3 | 0         |
| 10 | Specified homogenization of a discrete traffic model leading to an effective junction condition. <i>Communications on Pure and Applied Analysis</i> , 2018, 17, 2173-2206.              | 0.8 | 7         |
| 11 | Homogenization of second order discrete model with local perturbation and application to traffic flow. <i>Discrete and Continuous Dynamical Systems</i> , 2017, 37, 1437-1487.          | 0.9 | 5         |
| 12 | Derivation of a Macroscopic LWR Model from a Microscopic follow-the-leader Model by Homogenization. <i>IFIP Advances in Information and Communication Technology</i> , 2016, , 272-281. | 0.7 | 0         |
| 13 | Steady State and Long Time Convergence of Spirals Moving by Forced Mean Curvature Motion. <i>Communications in Partial Differential Equations</i> , 2015, 40, 1137-1181.                | 2.2 | 1         |
| 14 | Existence and Uniqueness of Traveling Wave for Accelerated Frenkel–Kontorova Model. <i>Journal of Dynamics and Differential Equations</i> , 2014, 26, 1133-1169.                        | 1.9 | 2         |
| 15 | Singular Perturbation of Optimal Control Problems on MultiDomains. <i>SIAM Journal on Control and Optimization</i> , 2014, 52, 2917-2943.   | 2.1 | 1         |
| 16 | Existence and Uniqueness of Traveling Waves for Fully Overdamped Frenkel–Kontorova Models. <i>Archive for Rational Mechanics and Analysis</i> , 2013, 210, 45-99.                       | 2.4 | 13        |
| 17 | State-Constrained Optimal Control Problems of Impulsive Differential Equations. <i>Applied Mathematics and Optimization</i> , 2013, 68, 1-19.   | 1.6 | 9         |
| 18 | Homogenization of accelerated Frenkel-Kontorova models with $n$ types of particles. <i>Transactions of the American Mathematical Society</i> , 2012, 364, 6187-6227.                    | 0.9 | 15        |

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 19 | A short time existence/uniqueness result for a nonlocal topology-preserving segmentation model. Journal of Differential Equations, 2012, 253, 977-995.                         | 2.2 | 4         |
| 20 | Uniqueness and existence of spirals moving by forced mean curvature motion. Interfaces and Free Boundaries, 2012, 14, 365-400.   | 0.8 | 4         |
| 21 | A Generalized Fast Marching Method for Dislocation Dynamics. SIAM Journal on Numerical Analysis, 2011, 49, 2470-2500.  | 2.3 | 8         |
| 22 | Deterministic state-constrained optimal control problems without controllability assumptions. ESAIM - Control, Optimisation and Calculus of Variations, 2011, 17, 995-1015.    | 1.3 | 14        |
| 23 | $L^1$ -error estimates for numerical approximations of Hamilton-Jacobi-Bellman equations in dimension 1. Mathematics of Computation, 2010, 79, 1395-1426.                      | 2.1 | 4         |
| 24 | Reachability and Minimal Times for State Constrained Nonlinear Problems without Any Controllability Assumption. SIAM Journal on Control and Optimization, 2010, 48, 4292-4316. | 2.1 | 94        |
| 25 | Minimizing movements for dislocation dynamics with a mean curvature term. ESAIM - Control, Optimisation and Calculus of Variations, 2009, 15, 214-244.                         | 1.3 | 2         |
| 26 | Homogenization of fully overdamped Frenkel-Kontorova models. Journal of Differential Equations, 2009, 246, 1057-1097.  | 2.2 | 33        |
| 27 | Comparison Principle for a Generalized Fast Marching Method. SIAM Journal on Numerical Analysis, 2009, 47, 1923-1951.  | 2.3 | 5         |
| 28 | Homogenization of some particle systems with two-body interactions and of the dislocation dynamics. Discrete and Continuous Dynamical Systems, 2009, 23, 785-826.              | 0.9 | 42        |
| 29 | Existence of Solutions for a Model Describing the Dynamics of Junctions Between Dislocations. SIAM Journal on Mathematical Analysis, 2009, 40, 2517-2535.                      | 1.9 | 2         |
| 30 | Generalized fast marching method: applications to image segmentation. Numerical Algorithms, 2008, 48, 189-211.   | 1.9 | 43        |
| 31 | An Error Estimate for a New Scheme for Mean Curvature Motion. SIAM Journal on Numerical Analysis, 2008, 46, 2715-2741.   | 2.3 | 2         |
| 32 | Convergence of a Generalized Fast-Marching Method for an Eikonal Equation with a Velocity-Changing Sign. SIAM Journal on Numerical Analysis, 2008, 46, 2920-2952.              | 2.3 | 25        |