

Ayman Moussa

List of Publications by Year in descending order

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12
papers

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73
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| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Global classical solutions close to equilibrium to the Vlasov-Fokker-Planck-Euler system. <i>Kinetic and Related Models</i> , 2011, 4, 227-258. | 0.9 | 71 |
| 2 | The Navier–Stokes–Vlasov–Fokker–Planck System near Equilibrium. <i>SIAM Journal on Mathematical Analysis</i> , 2010, 42, 2177-2202. | 1.9 | 62 |
| 3 | Global existence of solutions to the incompressible Navier–Stokes–Vlasov equations in a time-dependent domain. <i>Journal of Differential Equations</i> , 2017, 262, 1317-1340. | 2.2 | 19 |
| 4 | Modelling and Numerics for Respiratory Aerosols. <i>Communications in Computational Physics</i> , 2015, 18, 723-756. | 1.7 | 17 |
| 5 | EXISTENCE THEORY FOR THE KINETIC-FLUID COUPLING WHEN SMALL DROPLETS ARE TREATED AS PART OF THE FLUID. <i>Journal of Hyperbolic Differential Equations</i> , 2014, 11, 109-133. | 0.5 | 16 |
| 6 | Large Time Behavior of the Vlasov–Navier–Stokes System on the Torus. <i>Archive for Rational Mechanics and Analysis</i> , 2020, 236, 1273-1323. | 2.4 | 15 |
| 7 | Uniqueness of the solution to the 2D Vlasov–Navier–Stokes system. <i>Revista Matemática Iberoamericana</i> , 2019, 36, 37-60. | 0.9 | 14 |
| 8 | On the effect of polydispersity and rotation on the Brinkman force induced by a cloud of particles on a viscous incompressible flow. <i>Kinetic and Related Models</i> , 2019, 12, 681-701. | 0.9 | 12 |
| 9 | The Vlasov–Navier–Stokes System in a 2D Pipe: Existence and Stability of Regular Equilibria. <i>Archive for Rational Mechanics and Analysis</i> , 2018, 230, 593-639. | 2.4 | 9 |
| 10 | Backward Parabolicity, Cross-Diffusion and Turing Instability. <i>Journal of Nonlinear Science</i> , 2019, 29, 139-162. | 2.1 | 9 |
| 11 | Global existence of weak solutions to the incompressible Vlasov–Navier–Stokes system coupled to convection–diffusion equations. <i>Mathematical Models and Methods in Applied Sciences</i> , 2020, 30, 1485-1515. | 3.3 | 4 |
| 12 | Concentration versus absorption for the Vlasov–Navier–Stokes system on bounded domains. <i>Nonlinearity</i> , 2021, 34, 6843-6900. | 1.4 | 4 |