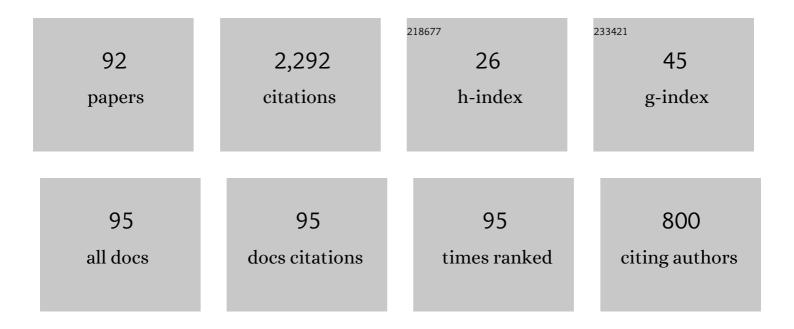
Juan Soler

List of Publications by Year in descending order

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LUAN SOLED

| # | Article | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Two-dimensional incompressible micropolar fluid models with singular initial data. Physica D: Nonlinear Phenomena, 2022, 430, 133069. | 2.8 | 2 |
| 2 | Hydrodynamic limit of a coupled Cucker–Smale system with strong and weak internal variable relaxation. Mathematical Models and Methods in Applied Sciences, 2021, 31, 1163-1235. | 3.3 | 7 |
| 3 | Filippov trajectories and clustering in the Kuramoto model with singular couplings. Journal of the European Mathematical Society, 2021, 23, 3193-3278. | 1.4 | 2 |
| 4 | Modeling Interactions among Migration, Growth and Pressure in Tumor Dynamics. Mathematics, 2021, 9, 1376. | 2.2 | 2 |
| 5 | Modeling invasion patterns in the glioblastoma battlefield. PLoS Computational Biology, 2021, 17, e1008632. | 3.2 | 15 |
| 6 | Modeling glioma invasion with anisotropy- and hypoxia-triggered motility enhancement: From subcellular dynamics to macroscopic PDEs with multiple taxis. Mathematical Models and Methods in Applied Sciences, 2021, 31, 177-222. | 3.3 | 14 |
| 7 | Global weak solutions to the relativistic BGK equation. Communications in Partial Differential Equations, 2020, 45, 191-229. | 2.2 | 5 |
| 8 | Non uniform Rotating Vortices and Periodic Orbits for the Two-Dimensional Euler Equations. Archive for Rational Mechanics and Analysis, 2020, 238, 929-1085. | 2.4 | 12 |
| 9 | Recent results and challenges in behavioral systems. Mathematical Models and Methods in Applied Sciences, 2020, 30, 1857-1862. | 3.3 | 2 |
| 10 | Active particles methods and challenges in behavioral systems. Mathematical Models and Methods in Applied Sciences, 2020, 30, 653-658. | 3.3 | 4 |
| 11 | Vehicular traffic, crowds, and swarms: From kinetic theory and multiscale methods to applications and research perspectives. Mathematical Models and Methods in Applied Sciences, 2019, 29, 1901-2005. | 3.3 | 170 |
| 12 | Stability Results, Almost Global Generalized Beltrami Fields and Applications to Vortex Structures in the Euler Equations. Communications in Mathematical Physics, 2018, 360, 197-269. | 2.2 | 8 |
| 13 | Cross-diffusion and traveling waves in porous-media flux-saturated Keller–Segel models. Mathematical Models and Methods in Applied Sciences, 2018, 28, 2103-2129. | 3.3 | 21 |
| 14 | Euler-type equations and commutators in singular and hyperbolic limits of kinetic Cucker–Smale models. Mathematical Models and Methods in Applied Sciences, 2017, 27, 1089-1152. | 3.3 | 56 |
| 15 | A Space-Time Wigner Function Approach to Long Time SchrĶdinger–Poisson Dynamics. SIAM Journal on Mathematical Analysis, 2017, 49, 4915-4941. | 1.9 | 2 |
| 16 | Qualitative behaviour for flux-saturated mechanisms: travelling waves, waiting time and smoothing effects. Journal of the European Mathematical Society, 2017, 19, 441-472. | 1.4 | 15 |
| 17 | Pattern formation in a flux limited reaction–diffusion equation of porous media type. Inventiones Mathematicae, 2016, 206, 57-108. | 2.5 | 28 |
| 18 | Qualitative behavior and traveling waves for flux-saturated porous media equations arising in optimal mass transportation. Nonlinear Analysis: Theory, Methods & Applications, 2016, 137, 266-290. | 1.1 | 18 |

| # | Article | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Modeling social crowds. Physics of Life Reviews, 2016, 18, 50-52. | 2.8 | 1 |
| 20 | A Non-Markovian Phase Space Approach to Schrödinger Dynamics: The Space-Time Wigner Transform. Multiscale Modeling and Simulation, 2016, 14, 430-451. | 1.6 | 2 |
| 21 | Flux-saturated porous media equations and applications. EMS Surveys in Mathematical Sciences, 2015, 2, 131-218. | 1.4 | 28 |
| 22 | Mathematics and Biology: A round trip. Physics of Life Reviews, 2015, 12, 78-80. | 2.8 | 1 |
| 23 | Cooperation, competition, organization: The dynamics of interacting living populations. Mathematical Models and Methods in Applied Sciences, 2015, 25, 2407-2415. | 3.3 | 7 |
| 24 | Modeling Hedgehog Signaling Through Flux-Saturated Mechanisms. Methods in Molecular Biology, 2015, 1322, 19-33. | 0.9 | 3 |
| 25 | From a systems theory of sociology to modeling the onset and evolution of criminality. Networks and Heterogeneous Media, 2015, 10, 421-441. | 1.1 | 47 |
| 26 | ON A DISPERSIVE MODEL FOR THE UNZIPPING OF DOUBLE-STRANDED DNA MOLECULES. Mathematical Models and Methods in Applied Sciences, 2014, 24, 495-511. | 3.3 | 7 |
| 27 | On the multiscale modeling of vehicular traffic: From kinetic to hydrodynamics. Discrete and Continuous Dynamical Systems - Series B, 2014, 19, 1869-1888. | 0.9 | 52 |
| 28 | A Non-linear Flux-Limited Model for the Transport of Morphogens. Springer Proceedings in Mathematics and Statistics, 2014, , 55-63. | 0.2 | 0 |
| 29 | ON THE DIFFICULT INTERPLAY BETWEEN LIFE, "COMPLEXITY", AND MATHEMATICAL SCIENCES. Mathematical Models and Methods in Applied Sciences, 2013, 23, 1861-1913. | 3.3 | 116 |
| 30 | On the analysis of traveling waves to a nonlinear flux limited reaction–diffusion equation. Annales De L'Institut Henri Poincare (C) Analyse Non Lineaire, 2013, 30, 141-155. | 1.4 | 26 |
| 31 | Hyperbolic versus Parabolic Asymptotics in Kinetic Theory toward Fluid Dynamic Models. SIAM Journal on Applied Mathematics, 2013, 73, 1327-1346. | 1.8 | 12 |
| 32 | On flux-limited morphogenesis. Physics of Life Reviews, 2013, 10, 495-497. | 2.8 | 1 |
| 33 | Morphogenetic action through flux-limited spreading. Physics of Life Reviews, 2013, 10, 457-475. | 2.8 | 51 |
| 34 | EXISTENCE OF STEADY STATES FOR THE MAXWELL–SCHR×DINGER–POISSON SYSTEM: EXPLORING THE APPLICABILITY OF THE CONCENTRATION–COMPACTNESS PRINCIPLE. Mathematical Models and Methods in Applied Sciences, 2013, 23, 1915-1938. | 3.3 | 38 |
| 35 | Modeling chemotaxis from \$L^2\$–closure moments in kinetic theory of active particles. Discrete and Continuous Dynamical Systems - Series B, 2013, 18, 847-863. | 0.9 | 10 |
| 36 | ON THE ASYMPTOTIC THEORY FROM MICROSCOPIC TO MACROSCOPIC GROWING TISSUE MODELS: AN OVERVIEW WITH PERSPECTIVES. Mathematical Models and Methods in Applied Sciences, 2012, 22, . | 3.3 | 80 |

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|----|--|-----|-----------|
| 37 | ON THE MATHEMATICAL THEORY OF THE DYNAMICS OF SWARMS VIEWED AS COMPLEX SYSTEMS. Mathematical Models and Methods in Applied Sciences, 2012, 22, 1140006. | 3.3 | 125 |
| 38 | On the Relativistic BGK-Boltzmann Model: Asymptotics and Hydrodynamics. Journal of Statistical Physics, 2012, 149, 284-316. | 1.2 | 16 |
| 39 | Radially Symmetric Solutions of a Tempered Diffusion Equation. A Porous Media, Flux-Limited Case. SIAM Journal on Mathematical Analysis, 2012, 44, 1019-1049. | 1.9 | 21 |
| 40 | On a nonlinear flux-limited equation arising in the transport of morphogens. Journal of Differential Equations, 2012, 252, 5763-5813. | 2.2 | 17 |
| 41 | Vanishing Viscosity Regimes and Nonstandard Shock Relations for Semiconductor Superlattices Models. SIAM Journal on Applied Mathematics, 2011, 71, 180-199. | 1.8 | 2 |
| 42 | QUALITATIVE PROPERTIES OF THE SOLUTIONS OF A NONLINEAR FLUX-LIMITED EQUATION ARISING IN THE TRANSPORT OF MORPHOGENS. Mathematical Models and Methods in Applied Sciences, 2011, 21, 893-937. | 3.3 | 32 |
| 43 | Complexity and mathematical tools toward the modelling of multicellular growing systems. Mathematical and Computer Modelling, 2010, 51, 441-451. | 2.0 | 39 |
| 44 | Virial inequalities for steady states in relativistic galactic dynamics. Nonlinearity, 2010, 23, 1851-1871. | 1.4 | 2 |
| 45 | MULTISCALE BIOLOGICAL TISSUE MODELS AND FLUX-LIMITED CHEMOTAXIS FOR MULTICELLULAR GROWING SYSTEMS. Mathematical Models and Methods in Applied Sciences, 2010, 20, 1179-1207. | 3.3 | 143 |
| 46 | A Coupled Boltzmann and Navier–Stokes Fragmentation Model Induced by a Fluid-Particle-Spring Interaction. Multiscale Modeling and Simulation, 2010, 8, 1244-1268. | 1.6 | 3 |
| 47 | Dispersive behavior in galactic dynamics. Discrete and Continuous Dynamical Systems - Series B, 2010, 14, 1-16. | 0.9 | 4 |
| 48 | Asymptotic Behavior and Orbital Stability of Galactic Dynamics in Relativistic Scalar Gravity. Archive for Rational Mechanics and Analysis, 2009, 194, 743-773. | 2.4 | 6 |
| 49 | On a unified theory of cold dark matter halos based on collisionless Boltzmann–Poisson polytropes. Physica A: Statistical Mechanics and Its Applications, 2009, 388, 2321-2330. | 2.6 | 9 |
| 50 | From the mathematical kinetic theory for active particles on the derivation of hyperbolic macroscopic tissue models. Mathematical and Computer Modelling, 2009, 49, 2083-2093. | 2.0 | 8 |
| 51 | MULTICELLULAR BIOLOGICAL GROWING SYSTEMS: HYPERBOLIC LIMITS TOWARDS MACROSCOPIC DESCRIPTION. Mathematical Models and Methods in Applied Sciences, 2007, 17, 1675-1692. | 3.3 | 89 |
| 52 | Long Time Behaviour to the Schrödinger–Poisson–Xα Systems. Lecture Notes in Physics, 2006, , 217-232. | 0.7 | 4 |
| 53 | Quantum Transport and Boltzmann Operators. Journal of Statistical Physics, 2006, 122, 417-436. | 1.2 | 7 |
| 54 | Orbital stability for polytropic galaxies. Annales De L'Institut Henri Poincare (C) Analyse Non Lineaire, 2006, 23, 781-802. | 1.4 | 21 |

| # | Article | IF | CITATIONS |
|----|---|-----|-----------|
| 55 | EXACT SOLUTIONS AND DYNAMICS OF GLOBALLY COUPLED OSCILLATORS. Mathematical Models and Methods in Applied Sciences, 2006, 16, 1919-1959. | 3.3 | 3 |
| 56 | A KINETIC DESCRIPTION OF PARTICLE FRAGMENTATION. Mathematical Models and Methods in Applied Sciences, 2006, 16, 933-948. | 3.3 | 5 |
| 57 | Multidimensional high-field limit of the electrostatic Vlasov–Poisson–Fokker–Planck system. Journal of Differential Equations, 2005, 213, 418-442. | 2.2 | 50 |
| 58 | An analysis of quantum Fokker–Planck models: A Wigner function approach. Revista Matematica Iberoamericana, 2004, 20, 771-814. | 0.9 | 39 |
| 59 | Long-Time Dynamics of the Schrödinger–Poisson–Slater System. Journal of Statistical Physics, 2004, 114, 179-204. | 1.2 | 94 |
| 60 | Asymptotic Behaviour for the Vlasov-Poisson System in the Stellar-Dynamics Case. Archive for Rational Mechanics and Analysis, 2004, 171, 301-327. | 2.4 | 27 |
| 61 | Asymptotic decay estimates for the repulsive Schrödinger–Poisson system. Mathematical Methods in the Applied Sciences, 2004, 27, 371-380. | 2.3 | 10 |
| 62 | Low-Field Limit for a Nonlinear Discrete Drift-Diffusion Model Arising in Semiconductor Superlattices Theory. SIAM Journal on Applied Mathematics, 2004, 64, 1526-1549. | 1.8 | 16 |
| 63 | On an Exchange Interaction Model for Quantum Transport: The Schrödinger–Poisson–Slater System. Mathematical Models and Methods in Applied Sciences, 2003, 13, 1397-1412. | 3.3 | 45 |
| 64 | Nonlinear stochastic discrete drift-diffusion theory of charge fluctuations and domain relocation times in semiconductor superlattices. Physical Review B, 2002, 65, . | 3.2 | 12 |
| 65 | ABOUT UNIQUENESS OF WEAK SOLUTIONS TO FIRST ORDER QUASI-LINEAR EQUATIONS. Mathematical Models and Methods in Applied Sciences, 2002, 12, 1599-1615. | 3.3 | 4 |
| 66 | Time rescaling and asymptotic behavior of some fourth-order degenerate diffusion equations. Computers and Mathematics With Applications, 2002, 43, 721-736. | 2.7 | 18 |
| 67 | High-Field Limit for the Vlasov-Poisson-Fokker-Planck System. Archive for Rational Mechanics and Analysis, 2001, 158, 29-59. | 2.4 | 85 |
| 68 | Long–time asymptotics for semiconductor crystals. Nonlinear Analysis: Theory, Methods & Applications, 2001, 47, 5861-5872. | 1.1 | 0 |
| 69 | Title is missing!. Journal of Statistical Physics, 2001, 103, 1069-1105. | 1.2 | 27 |
| 70 | HIGH-FIELD LIMIT OF THE VLASOV–POISSON–FOKKER–PLANCK SYSTEM: A COMPARISON OF DIFFERENT PERTURBATION METHODS. Mathematical Models and Methods in Applied Sciences, 2001, 11, 1457-1468. | 3.3 | 45 |
| 71 | Discrete Schrödinger-Poisson systems preserving energy and mass. Applied Mathematics Letters, 2000, 13, 27-32. | 2.7 | 8 |
| 72 | On the Evolution of an Angle in a Vortex Patch. Journal of Nonlinear Science, 2000, 10, 23-47. | 2.1 | 9 |

| # | Article | IF | CITATIONS |
|----|--|-------|-----------|
| 73 | On the time evolution of the mean-field polaron. Journal of Mathematical Physics, 2000, 41, 4293-4312. | 1.1 | 8 |
| 74 | PARABOLIC LIMIT AND STABILITY OF THE VLASOV–FOKKER–PLANCK SYSTEM. Mathematical Models and Methods in Applied Sciences, 2000, 10, 1027-1045. | 3.3 | 71 |
| 75 | ASYMPTOTIC BEHAVIOR TO THE 3-D SCHR×DINGER/HARTREE–POISSON AND WIGNER–POISSON SYSTEMS Mathematical Models and Methods in Applied Sciences, 2000, 10, 923-943. | · 3.3 | 24 |
| 76 | Asymptotic behaviour for the 3-D SchrĶdinger-Poisson System in the attractive case with positive energy. Applied Mathematics Letters, 1999, 12, 1-6. | 2.7 | 35 |
| 77 | On the evolution of a singular vortex patch in a two-dimensional incompressible fluid flow. Computer Physics Communications, 1999, 121-122, 244-250. | 7.5 | 0 |
| 78 | On functional solutions for the three dimensional kinetic equations of Vlasov-type with bounded measures as initial data. Nonlinear Analysis: Theory, Methods & Applications, 1998, 32, 235-259. | 1.1 | 1 |
| 79 | Exactly Solvable Phase Oscillator Models with Synchronization Dynamics. Physical Review Letters, 1998, 81, 3643-3646. | 7.8 | 30 |
| 80 | Asymptotic Behavior of an Initial-Boundary Value Problem for the Vlasov–Poisson–Fokker–Planck System. SIAM Journal on Applied Mathematics, 1997, 57, 1343-1372. | 1.8 | 45 |
| 81 | Functional solutions for the Vlasov-Poisson system. Applied Mathematics Letters, 1997, 10, 45-50. | 2.7 | 3 |
| 82 | Scaling limits in the 3-D SchrĶdinger-Poisson system. Applied Mathematics Letters, 1997, 10, 61-65. | 2.7 | 6 |
| 83 | Asymptotic behaviour for the Vlasov-Poisson-Foker-Planck system. Nonlinear Analysis: Theory, Methods & Applications, 1997, 30, 5217-5228. | 1.1 | 6 |
| 84 | On the Vlasov–Poisson–Fokker–Planck Equations with Measures in Morrey Spaces as Initial Data. Journal of Mathematical Analysis and Applications, 1997, 207, 475-495. | 1.0 | 26 |
| 85 | Asymptotic Behaviour and Self-Similarity for the Three Dimensional Vlasov–Poisson–Fokker–Planck System. Journal of Functional Analysis, 1996, 141, 99-132. | 1.4 | 46 |
| 86 | H-theorem for electrostatic or self-gravitating Vlasov-Poisson-Fokker-Planck systems. Physics Letters, Section A: General, Atomic and Solid State Physics, 1996, 212, 55-59. | 2.1 | 12 |
| 87 | On the initial value problem for the Vlasov-Poisson-Fokker-Planck system with initial data inLp spaces. Mathematical Methods in the Applied Sciences, 1995, 18, 825-839. | 2.3 | 51 |
| 88 | Lâ^ž Stability for Weak Solutions of the Navier-Stokes Equations in R3 with Singular Initial Data in Morrey Spaces. Journal of Mathematical Analysis and Applications, 1994, 187, 513-525. | 1.0 | 2 |
| 89 | Convergence of the contour dynamics method. Numerical Methods for Partial Differential Equations, 1991, 7, 261-276. | 3.6 | 1 |
| 90 | Vortex Filament Method. IMA Journal of Numerical Analysis, 1990, 10, 75-102. | 2.9 | 1 |

| # | Article | IF | CITATIONS |
|----|--|-----|-----------|
| 91 | Three-dimensional Navier-Stokes equations for singular filament initial data. Journal of Differential Equations, 1988, 74, 234-253. | 2.2 | 12 |
| 92 | On cubature with a minimal number of lines. Journal of Computational and Applied Mathematics, 1987, 19, 223-230. | 2.0 | 1 |