Juan Calvo

List of Publications by Year
in descending order

30 papers	**292** citations	**10** h-index	**16** g-index
31 all docs	**31** docs citations	**31** times ranked	**187** citing authors

#	Article	IF	Citations
1	An Empirical Illustration and Formalization of the Theory of Direct Learning: The Muscle-Based Perception of Kinetic Properties. Ecological Psychology, 2009, 21, 245-289.	1.1	33
2	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
3	Flux-saturated porous media equations and applications. EMS Surveys in Mathematical Sciences, 2015, 2, 131-218.	1.4	28
4	Pattern formation in a flux limited reaction–diffusion equation of porous media type. Inventiones Mathematicae, 2016, 206, 57-108.	2.5	28
5	On a nonlinear flux-limited equation arising in the transport of morphogens. Journal of Differential Equations, 2012, 252, 5763-5813.	2.2	17
6	On the Relativistic BGK-Boltzmann Model: Asymptotics and Hydrodynamics. Journal of Statistical Physics, 2012, 149, 284-316.	1.2	16
7	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
8	DARK MATTER, MAGNETIC FIELDS, AND THE ROTATION CURVE OF THE MILKY WAY. Astrophysical Journal Letters, 2012, 755, L23.	8.3	12
9	Hyperbolic versus Parabolic Asymptotics in Kinetic Theory toward Fluid Dynamic Models. SIAM Journal on Applied Mathematics, 2013, 73, 1327-1346.	1.8	12
10	Analysis of a Class of Degenerate Parabolic Equations with Saturation Mechanisms. SIAM Journal on Mathematical Analysis, 2015, 47, 2917-2951.	1.9	11
11	Coarse-graining and hybrid methods for efficient simulation of stochastic multi-scale models of tumour growth. Journal of Computational Physics, 2017, 350, 974-991.	3.8	11
12	Parabolic equations in time-dependent domains. Journal of Evolution Equations, 2017, 17, 781-804.	1.1	10
13	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
14	Long-Time Asymptotics for Polymerization Models. Communications in Mathematical Physics, 2018, 363, 111-137.	2.2	9
15	Local-in-time regularity results for some flux-limited diffusion equations of porous media type. Nonlinear Analysis: Theory, Methods & Applications, 2013, 93, 236-272.	1.1	8
16	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
17	Kinetic Model for Vehicular Traffic with Continuum Velocity and Mean Field Interactions. Symmetry, 2019, 11, 1093.	2.2	5
18	Global weak solutions to the relativistic BGK equation. Communications in Partial Differential Equations, 2020, 45, 191-229.	2.2	5

#	Article	IF	Citations
19	On the hyperbolicity and causality of the relativistic Euler system under the kinetic equation of state. Communications on Pure and Applied Analysis, 2013, 12, 1341-1347.	0.8	4
20	The initial-boundary value problem for the Lifshitzâ€"Slyozov equation with non-smooth rates at the boundary. Nonlinearity, 2021, 34, 1975-2017.	1.4	4
21	Dispersive behavior in galactic dynamics. Discrete and Continuous Dynamical Systems - Series B, 2010, 14, 1-16.	0.9	4
22	Modeling Hedgehog Signaling Through Flux-Saturated Mechanisms. Methods in Molecular Biology, 2015, 1322, 19-33.	0.9	3
23	Virial inequalities for steady states in relativistic galactic dynamics. Nonlinearity, 2010, 23, 1851-1871.	1.4	2
24	Large time asymptotics for a modified coagulation model. Journal of Differential Equations, 2011, 250, 2807-2837.	2.2	2
25	Some aspects on kinetic modeling of evacuation dynamics. Physics of Life Reviews, 2016, 18, 42-43.	2.8	2
26	On Sonic Hedgehog morphogenic action and finite propagation speed models. SeMA Journal, 2018, 75, 173-195.	2.0	2
27	Singular Traveling Waves and Non-linear Reaction-Diffusion Equations. SEMA SIMAI Springer Series, 2017, , 189-194.	0.7	1
28	On Dispersion Rates for Solutions to the Vlasov-Poisson System. Transport Theory and Statistical Physics, 2011, 40, 312-330.	0.4	0
29	Anisotropic tempered diffusion equations. Nonlinear Analysis: Theory, Methods & Applications, 2020, 199, 111937.	1.1	0
30	A Non-linear Flux-Limited Model for the Transport of Morphogens. Springer Proceedings in Mathematics and Statistics, 2014, , 55-63.	0.2	0