Pedro M Jordan

List of Publications by Year
in descending order

25	334	840776 11	839539 18
papers	citations	h-index	g-index

26	26	26	92
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Growth and decay of acoustic acceleration waves in Darcy-type porous media. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2005, 461, 2749-2766.	2.1	40
2	A survey of weakly-nonlinear acoustic models: 1910â€“2009. Mechanics Research Communications, 2016, 73, 127-139.	1.8	32
3	Growth, decay and bifurcation of shock amplitudes under the type-II flux law. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2007, 463, 2783-2798.	2.1	29
4	Finite-amplitude acoustic traveling waves in a fluid that saturates a porous medium: Acceleration wave formation. Physics Letters, Section A: General, Atomic and Solid State Physics, 2006, 355, 216-221.	2.1	25
5	Acoustic acceleration waves in homentropic Green and Naghdi gases. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2006, 462, 3601-3611.	2.1	19
6	On the propagation of nonlinear acoustic waves in viscous and thermoviscous fluids. European Journal of Mechanics, B/Fluids, 2012, 34, 56-63.	2.5	19
7	Acoustic traveling waves in thermoviscous perfect gases: Kinks, acceleration waves, and shocks under the Taylorâ€“Lighthill balance. Mathematics and Computers in Simulation, 2016, 127, 2-18.	4.4	19
8	Some remarks on nonlinear poroacoustic phenomena. Mathematics and Computers in Simulation, 2009, 80, 202-211.	4.4	16
9	Entropy in self-similar shock profiles. International Journal of Non-Linear Mechanics, 2017, 95, 333-346.	2.6	16
10	On the reduction of Blackstock×³s model of thermoviscous compressible flow via Becker×³s assumption. International Journal of Non-Linear Mechanics, 2016, 78, 131-132.	2.6	14
11	Dissipative acoustic solitons under a weakly-nonlinear, Lagrangian-averaged Euler-Î± model of single-phase lossless fluids. Wave Motion, 2011, 48, 782-790.	2.0	11
12	A note on acoustic propagation in power-law fluids: Compact kinks, mild discontinuities, and a connection to finite-scale theory. International Journal of Non-Linear Mechanics, 2013, 48, 72-77.	2.6	11
13	Anomalous propagation of acoustic traveling waves in thermoviscous fluids under the Rubinâ€“Rosenauâ€“Gottlieb theory of dispersive media. Wave Motion, 2014, 51, 382-388.	2.0	11
14	Second-sound beyond Maxwellâ€“Cattaneo: Nonlocal effects in hyperbolic heat transfer at the nanoscale. International Journal of Engineering Science, 2020, 154, 103328.	5.0	11
15	Poroacoustic waves under a mixture-theoretic based reformulation of the Jordanâ€“Darcyâ€“Cattaneo model. Wave Motion, 2017, 71, 82-92.	2.0	10
16	Acoustic shock and acceleration waves in selected inhomogeneous fluids. Mechanics Research Communications, 2018, 93, 80-88.	1.8	10
17	A note on finite-scale Navierâ€“Stokes theory: The case of constant viscosity, strictly adiabatic flow. Physics Letters, Section A: General, Atomic and Solid State Physics, 2015, 379, 124-130.	2.1	8
18	A re-examination of weakly-nonlinear acoustic traveling waves in thermoviscous fluids under Rubinâ€“Rosenauâ€“Gottlieb theory. Wave Motion, 2018, 76, 1-8.	2.0	8

#	Article	IF	Citations
19	Poroacoustic solitary waves under the unidirectional Darcyâ€“Jordan model. Wave Motion, 2020, 94, 102498.	2.0	7
20	Poroacoustic Traveling Waves under the Rubinâ€“Rosenauâ€“Gottlieb Theory of Generalized Continua. Water (Switzerland), 2020, 12, 807.	2.7	3
21	On the propagation and bifurcation of singular surface shocks under a class of wave equations based on second-sound flux models and logistic growth. International Journal of Non-Linear Mechanics, 2021, 132, 103696.	2.6	3
22	Revisiting Manne etÂal. (2000): A reformulation and alternative interpretation under the modified internal energy theory of second-sound. Wave Motion, 2021, 105, 102756.	2.0	3
23	Revisiting finite-scale Navierâ€“Stokes theory: Order-of-magnitude results, new critical values, and connections to Stokesian fluids. Physics Letters, Section A: General, Atomic and Solid State Physics, 2020, 384, 126328.	2.1	2
24	On the application of a Krylov subspace spectral method to poroacoustic shocks in inhomogeneous gases. Numerical Methods for Partial Differential Equations, 2021, 37, 2955-2972.	3.6	2
25	Remarks on acoustic propagation in inhomogeneous fluids: Single-phase shock regularization under the Maxwell model. International Journal of Non-Linear Mechanics, 2022, 138, 103839.	2.6	1