José M Ferreira

List of Publications by Year in descending order

43 papers	727 citations	759233 12 h-index	552781 26 g-index
44 all docs	44 docs citations	44 times ranked	401 citing authors

#	Article	IF	Citations
1	Adiabatic and thermally insulated: should they have the same meaning?. European Journal of Physics, 2018, 39, 015101.	0.6	3
2	Magnetic field generated by the flow of AC current through finite length nonmagnetic conductors (cylinders, tubes, coaxial cables). Electrical Engineering, 2018, 100, 1379-1391.	2.0	4
3	Using Biot–Savart's law to determine the finite tube's magnetic field. European Journal of Physics, 2018, 39, 055202.	0.6	2
4	The magnetic field circulation counterpart to Biot-Savart's law. European Physical Journal Plus, 2018, 133, 1.	2.6	11
5	Why is dissipative work insistently ignored? The case of heat capacities. European Journal of Physics, 2018, 39, 055102.	0.6	4
6	Comment on 'A note on heat reservoirs and the like'. European Journal of Physics, 2017, 38, 048001.	0.6	5
7	Magnetic field created by a conducting cylindrical shell of finite length. Electrical Engineering, 2017, 99, 979-986.	2.0	4
8	Comment on 'Exact electromagnetic fields produced by a finite wire with constant current'. European Journal of Physics, 2016, 37, 048002.	0.6	2
9	Reversible versus irreversible thermalization of two finite blocks. European Journal of Physics, 2016, 37, 022001.	0.6	4
10	Comment on "Magnetic Field Due to a Finite Length Current-Carrying Wire Using the Concept of Displacement Current". Physics Teacher, 2015, 53, 68-68.	0.3	1
11	On the representation of thermodynamic processes. European Journal of Physics, 2015, 36, 035006.	0.6	14
12	Ampère–Maxwell law for a conducting wire: a topological perspective. European Journal of Physics, 2013, 34, 1403-1410.	0.6	9
13	Reply to 'Comment on "On the Clausius equality and inequality"'. European Journal of Physics, 2013, 34, L17-L21.	0.6	0
14	Reply to 'Comment on "Dissipative work in thermodynamics"'. European Journal of Physics, 2013, 34, L31-L33.	0.6	0
15	Reply to 'Comment on "Symmetry of the adiabatic condition in the piston problem"'. European Journal of Physics, 2013, 34, L37-L38.	0.6	0
16	Intrinsic symmetry of Ampère's circuital law and other educational issues. Canadian Journal of Physics, 2012, 90, 67-72.	1.1	6
17	Cultivation of gilthead bream in monoculture and integrated multi-trophic aquaculture. Analysis of production and environmental effects by means of the FARM model. Aquaculture, 2012, 358-359, 23-34.	3.5	52
18	The two-piston problem revisited: Generalization from reversible to irreversible expansion. American Journal of Physics, 2011, 79, 1009-1014.	0.7	1

#	Article	IF	Citations
19	Dissipative work in thermodynamics. European Journal of Physics, 2011, 32, 37-47.	0.6	16
20	Symmetry of the adiabatic condition in the piston problem. European Journal of Physics, 2011, 32, 1625-1631.	0.6	2
21	Effect of temperature-dependent viscosity on forced convection heat transfer from a cylinder in crossflow of power-law fluids. International Journal of Heat and Mass Transfer, 2010, 53, 4728-4740.	4.8	29
22	Minimizing the generation of entropy: which sequence of reservoirs to choose?. European Journal of Physics, 2010, 31, L1-L4.	0.6	5
23	When an adiabatic irreversible expansion or compression becomes reversible. European Journal of Physics, 2009, 30, 487-495.	0.6	14
24	Mixed Convection From a Circular Cylinder to Power Law Fluids. Industrial & Engineering Chemistry Research, 2009, 48, 8219-8231.	3.7	48
25	Steady Two-Dimensional Non-Newtonian Flow Past an Array of Long Circular Cylinders up to Reynolds number 500: A Numerical Study. Canadian Journal of Chemical Engineering, 2008, 83, 437-450.	1.7	12
26	Surroundings-based and system-based heat and work definitions: Which one is the most suitable?. Journal of Chemical Thermodynamics, 2008, 40, 134-135.	2.0	5
27	Identical thermodynamical processes and the generalization of the Clausius inequality. Canadian Journal of Physics, 2008, 86, 369-377.	1.1	6
28	Calor e trabalho: são estes conceitos invariantes sob a permuta sistema-vizinhança?. Quimica Nova, 2008, 31, 1881-1884.	0.3	1
29	Effects of Viscous Dissipation on Heat Transfer between an Array of Long Circular Cylinders and Power Law Fluids. Canadian Journal of Chemical Engineering, 2007, 85, 808-816.	1.7	12
30	Flow and Forced Convection Heat Transfer in Crossflow of Non-Newtonian Fluids over a Circular Cylinder. Industrial & Engineering Chemistry Research, 2005, 44, 5815-5827.	3.7	143
31	Steady non?Newtonian flow past a circular cylinder: a numerical study. Acta Mechanica, 2004, 172, 1-16.	2.1	88
32	Analytical Study of Drag and Mass Transfer in Creeping Power Law Flow across Tube Banks. Industrial & Engineering Chemistry Research, 2004, 43, 3439-3450.	3.7	44
33	Hydrodynamic behaviour of an ensemble of encapsulated liquid drops in creeping motion: a fluid-mechanic based model for liquid membranes. Fluid Dynamics Research, 2003, 32, 201-215.	1.3	7
34	The use of relative residues in linear regression of experimental data with errors in both fit variables. International Journal of Mathematical Education in Science and Technology, 2001, 32, 541-551.	1.4	1
35	The use of relative residues in non-linear regression. International Journal of Mathematical Education in Science and Technology, 2001, 32, 887-898.	1.4	0
36	The use of relative residues in fitting experimental data: an example from fluid mechanics. International Journal of Mathematical Education in Science and Technology, 2000, 31, 545-552.	1.4	6

#	Article	IF	Citations
37	An analytical study of the motion of a sphere rolling down a smooth inclined plane in an incompressible Newtonian fluid. Powder Technology, 1999, 104, 130-138.	4.2	22
38	Accelerating motion of a vertically falling sphere in incompressible Newtonian media: an analytical solution. Powder Technology, 1998, 97, 6-15.	4.2	23
39	A numerical study of the accelerating motion of a dense rigid sphere in nonâ€newtonian power law fluids. Canadian Journal of Chemical Engineering, 1998, 76, 1051-1055.	1.7	8
40	AN ANALYTICAL STUDY OF THE TRANSIENT MOTION OF A DENSE RIGID SPHERE IN AN INCOMPRESSIBLE NEWTONIAN FLUID. Chemical Engineering Communications, 1998, 168, 45-58.	2.6	27
41	Electron microscopic investigation relating the occlusal morphology to the underlying enamel structure of molar teeth of the wombat (Vombatus ursinus). Journal of Morphology, 1989, 200, 141-149.	1.2	7
42	Effects of continuous-wave CO_2 laser on the ultrastructure of human dental enamel. Archives of Oral Biology, 1989, 34, 551-562.	1.8	73
43	A microscopic investigation of enamel in wombat (Vombatus ursinus). Cell and Tissue Research, 1985, 242, 349.	2.9	6