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List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Flow and Forced Convection Heat Transfer in Crossflow of Non-Newtonian Fluids over a Circular Cylinder. <i>Industrial & Engineering Chemistry Research</i> , 2005, 44, 5815-5827.	3.7	143
2	Steady non-Newtonian flow past a circular cylinder: a numerical study. <i>Acta Mechanica</i> , 2004, 172, 1-16.	2.1	88
3	Effects of continuous-wave CO2 laser on the ultrastructure of human dental enamel. <i>Archives of Oral Biology</i> , 1989, 34, 551-562.	1.8	73
4	Cultivation of gilthead bream in monoculture and integrated multi-trophic aquaculture. Analysis of production and environmental effects by means of the FARM model. <i>Aquaculture</i> , 2012, 358-359, 23-34.	3.5	52
5	Mixed Convection From a Circular Cylinder to Power Law Fluids. <i>Industrial & Engineering Chemistry Research</i> , 2009, 48, 8219-8231.	3.7	48
6	Analytical Study of Drag and Mass Transfer in Creeping Power Law Flow across Tube Banks. <i>Industrial & Engineering Chemistry Research</i> , 2004, 43, 3439-3450.	3.7	44
7	Effect of temperature-dependent viscosity on forced convection heat transfer from a cylinder in crossflow of power-law fluids. <i>International Journal of Heat and Mass Transfer</i> , 2010, 53, 4728-4740.	4.8	29
8	AN ANALYTICAL STUDY OF THE TRANSIENT MOTION OF A DENSE RIGID SPHERE IN AN INCOMPRESSIBLE NEWTONIAN FLUID. <i>Chemical Engineering Communications</i> , 1998, 168, 45-58.	2.6	27
9	Accelerating motion of a vertically falling sphere in incompressible Newtonian media: an analytical solution. <i>Powder Technology</i> , 1998, 97, 6-15.	4.2	23
10	An analytical study of the motion of a sphere rolling down a smooth inclined plane in an incompressible Newtonian fluid. <i>Powder Technology</i> , 1999, 104, 130-138.	4.2	22
11	Dissipative work in thermodynamics. <i>European Journal of Physics</i> , 2011, 32, 37-47.	0.6	16
12	When an adiabatic irreversible expansion or compression becomes reversible. <i>European Journal of Physics</i> , 2009, 30, 487-495.	0.6	14
13	On the representation of thermodynamic processes. <i>European Journal of Physics</i> , 2015, 36, 035006.	0.6	14
14	Steady Two-Dimensional Non-Newtonian Flow Past an Array of Long Circular Cylinders up to Reynolds number 500: A Numerical Study. <i>Canadian Journal of Chemical Engineering</i> , 2008, 83, 437-450.	1.7	12
15	Effects of Viscous Dissipation on Heat Transfer between an Array of Long Circular Cylinders and Power Law Fluids. <i>Canadian Journal of Chemical Engineering</i> , 2007, 85, 808-816.	1.7	12
16	The magnetic field circulation counterpart to Biot-Savart's law. <i>European Physical Journal Plus</i> , 2018, 133, 1.	2.6	11
17	Ampère's Maxwell law for a conducting wire: a topological perspective. <i>European Journal of Physics</i> , 2013, 34, 1403-1410.	0.6	9
18	A numerical study of the accelerating motion of a dense rigid sphere in non-Newtonian power law fluids. <i>Canadian Journal of Chemical Engineering</i> , 1998, 76, 1051-1055.	1.7	8

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19	Electron microscopic investigation relating the occlusal morphology to the underlying enamel structure of molar teeth of the wombat (<i>Vombatus ursinus</i>). <i>Journal of Morphology</i> , 1989, 200, 141-149.	1.2	7
20	Hydrodynamic behaviour of an ensemble of encapsulated liquid drops in creeping motion: a fluid-mechanic based model for liquid membranes. <i>Fluid Dynamics Research</i> , 2003, 32, 201-215.	1.3	7
21	A microscopic investigation of enamel in wombat (<i>Vombatus ursinus</i>). <i>Cell and Tissue Research</i> , 1985, 242, 349.	2.9	6
22	The use of relative residues in fitting experimental data: an example from fluid mechanics. <i>International Journal of Mathematical Education in Science and Technology</i> , 2000, 31, 545-552.	1.4	6
23	Identical thermodynamical processes and the generalization of the Clausius inequality. <i>Canadian Journal of Physics</i> , 2008, 86, 369-377.	1.1	6
24	Intrinsic symmetry of Ampère's circuital law and other educational issues. <i>Canadian Journal of Physics</i> , 2012, 90, 67-72.	1.1	6
25	Surroundings-based and system-based heat and work definitions: Which one is the most suitable?. <i>Journal of Chemical Thermodynamics</i> , 2008, 40, 134-135.	2.0	5
26	Minimizing the generation of entropy: which sequence of reservoirs to choose?. <i>European Journal of Physics</i> , 2010, 31, L1-L4.	0.6	5
27	Comment on "A note on heat reservoirs and the like". <i>European Journal of Physics</i> , 2017, 38, 048001.	0.6	5
28	Reversible versus irreversible thermalization of two finite blocks. <i>European Journal of Physics</i> , 2016, 37, 022001.	0.6	4
29	Magnetic field created by a conducting cylindrical shell of finite length. <i>Electrical Engineering</i> , 2017, 99, 979-986.	2.0	4
30	Magnetic field generated by the flow of AC current through finite length nonmagnetic conductors (cylinders, tubes, coaxial cables). <i>Electrical Engineering</i> , 2018, 100, 1379-1391.	2.0	4
31	Why is dissipative work insistently ignored? The case of heat capacities. <i>European Journal of Physics</i> , 2018, 39, 055102.	0.6	4
32	Adiabatic and thermally insulated: should they have the same meaning?. <i>European Journal of Physics</i> , 2018, 39, 015101.	0.6	3
33	Symmetry of the adiabatic condition in the piston problem. <i>European Journal of Physics</i> , 2011, 32, 1625-1631.	0.6	2
34	Comment on "Exact electromagnetic fields produced by a finite wire with constant current". <i>European Journal of Physics</i> , 2016, 37, 048002.	0.6	2
35	Using Biot-Savart's law to determine the finite tube's magnetic field. <i>European Journal of Physics</i> , 2018, 39, 055202.	0.6	2
36	The use of relative residues in linear regression of experimental data with errors in both fit variables. <i>International Journal of Mathematical Education in Science and Technology</i> , 2001, 32, 541-551.	1.4	1

#	ARTICLE	IF	CITATIONS
37	Calor e trabalho: são estes conceitos invariantes sob a permuta sistema-vizinha? Química Nova, 2008, 31, 1881-1884.	0.3	1
38	The two-piston problem revisited: Generalization from reversible to irreversible expansion. American Journal of Physics, 2011, 79, 1009-1014.	0.7	1
39	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
40	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
41	Reply to "Comment on "On the Clausius equality and inequality"™. European Journal of Physics, 2013, 34, L17-L21.	0.6	0
42	Reply to "Comment on "Dissipative work in thermodynamics"™. European Journal of Physics, 2013, 34, L31-L33.	0.6	0
43	Reply to "Comment on "Symmetry of the adiabatic condition in the piston problem"™. European Journal of Physics, 2013, 34, L37-L38.	0.6	0