

J Antonio Del Rio

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

96 papers	1,360 citations	19 h-index	31 g-index
100 ext. papers	1,469 ext. citations	3.5 avg, IF	4.25 L-index

#	Paper	IF	Citations
96	Photon BLOCH oscillations in porous silicon optical superlattices. <i>Physical Review Letters</i> , 2004 , 92, 097401	7.1	112
95	Tailoring the photonic band gap of a porous silicon dielectric mirror. <i>Applied Physics Letters</i> , 2003 , 82, 1512-1514	3.4	102
94	Citation mining: Integrating text mining and bibliometrics for research user profiling. <i>Journal of the Association for Information Science and Technology</i> , 2001 , 52, 1148-1156		66
93	Enhancement in the dynamic response of a viscoelastic fluid flowing in a tube. <i>Physical Review E</i> , 1998 , 58, 6323-6327	2.4	65
92	Flow of Maxwell fluids in porous media. <i>Transport in Porous Media</i> , 1996 , 25, 167-192	3.1	45
91	Maxwell's Equations in Two-Phase Systems I: Local Electrodynamic Equilibrium. <i>Transport in Porous Media</i> , 2000 , 39, 159-186	3.1	38
90	Perfect light transmission in Fibonacci arrays of dielectric multilayers. <i>Journal of Physics Condensed Matter</i> , 2009 , 21, 155901	1.8	36
89	Experimental observation of dramatic differences in the dynamic response of Newtonian and Maxwellian fluids. <i>Physical Review E</i> , 2003 , 68, 046301	2.4	34
88	Renormalized Impact Factor. <i>Scientometrics</i> , 2000 , 47, 3-9	3	34
87	Cellular automata for one-lane traffic flow modeling. <i>Transportation Research Part C: Emerging Technologies</i> , 2005 , 13, 63-74	8.4	33
86	Influence of surface coverage on the effective optical properties of porous silicon modeled as a Si-wire array. <i>Journal of Applied Physics</i> , 1997 , 81, 1923-1928	2.5	32
85	Formula for the conductivity of a two-component material based on the reciprocity theorem. <i>Solid State Communications</i> , 1998 , 106, 183-186	1.6	31
84	New kind of phase separation in a CA traffic model with anticipation. <i>Journal of Physics A</i> , 2004 , 37, 3769-3781	2.9	29
83	Electrohydrodynamics in Porous Media. <i>Transport in Porous Media</i> , 2001 , 44, 385-405	3.1	29
82	Multiband negative refraction in one-dimensional photonic crystals. <i>Optics Express</i> , 2009 , 17, 3042-51	3.3	22
81	Maxwell's Equations in Two-Phase Systems II: Two-Equation Model. <i>Transport in Porous Media</i> , 2000 , 39, 259-287	3.1	22
80	A thermal study of optical fibres transmitting concentrated solar energy. <i>Journal Physics D: Applied Physics</i> , 1999 , 32, 1000-1005	3	22

79	Enhanced heat transfer using oscillatory flows in solar collectors. <i>Solar Energy</i> , 2006 , 80, 1296-1302	6.8	20
78	Measurements of the bulk and interfacial velocity profiles in oscillating Newtonian and Maxwellian fluids. <i>Physical Review E</i> , 2005 , 72, 016308	2.4	20
77	Optical fibres for a mini-dish/Stirling system: thermodynamic optimization. <i>Journal Physics D: Applied Physics</i> , 2002 , 35, 1241-1250	3	18
76	A plausible explanation for heart rates in mammals. <i>Journal of Theoretical Biology</i> , 2010 , 265, 599-603	2.3	16
75	The structure and infrastructure of Mexico's science and technology. <i>Technological Forecasting and Social Change</i> , 2005 , 72, 798-814	9.5	16
74	Thermodynamic characterization of the diffusive transport to wave propagation transition in heat conducting thin films. <i>Journal of Applied Physics</i> , 2012 , 112, 123707	2.5	15
73	Fluorescence tuning of confined molecules in porous silicon mirrors. <i>Applied Physics Letters</i> , 2007 , 91, 121909	3.4	15
72	Electrical properties of porous silicon/polypyrrole heterojunctions. <i>Solar Energy Materials and Solar Cells</i> , 2006 , 90, 2413-2420	6.4	15
71	Effective electrical conductivity of porous silicon: A novel theoretical approach. <i>Solid State Communications</i> , 1993 , 87, 541-545	1.6	15
70	An Entangled Model for Sustainability Indicators. <i>PLoS ONE</i> , 2015 , 10, e0135250	3.7	14
69	Refractive index contrast in porous silicon multilayers. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2009 , 6, 1721-1724		14
68	Solar oven for intertropical zones: Optogeometrical design. <i>Energy Conversion and Management</i> , 2007 , 48, 2649-2656	10.6	14
67	Instabilities in the oscillatory flow of a complex fluid. <i>Physical Review E</i> , 2007 , 75, 056307	2.4	14
66	Clustering methodologies for identifying country core competencies. <i>Journal of Information Science</i> , 2007 , 33, 21-40	2	14
65	Fluctuations far from equilibrium: Hyperbolic transport. <i>Physical Review E</i> , 1997 , 55, 5033-5043	2.4	13
64	Surface contributions to the effective optical properties of porous silicon. <i>Solar Energy Materials and Solar Cells</i> , 1998 , 52, 239-249	6.4	13
63	Refractive index evaluation of porous silicon using Bragg reflectors. <i>Revista Mexicana De Física</i> , 2017 , 64, 72-81	3.5	13
62	Collaboration in science among Latin American countries. <i>Revista Espanola De Documentacion Cientifica</i> , 2007 , 30,	0.7	13

61	Stochastic optimization of broadband reflecting photonic structures. <i>Scientific Reports</i> , 2018 , 8, 1193	4.9	12
60	Wind power error estimation in resource assessments. <i>PLoS ONE</i> , 2015 , 10, e0124830	3.7	12
59	DETERMINATION OF THE COMPLEX REFRACTIVE INDEX OF POROUS SILICON LAYERS ON CRYSTALLINE SILICON SUBSTRATES. <i>International Journal of Modern Physics B</i> , 2010 , 24, 4835-4850	1.1	12
58	FILTERS, MIRRORS AND MICROCAVITIES FROM POROUS SILICON. <i>International Journal of Modern Physics B</i> , 2006 , 20, 99-110	1.1	12
57	Dynamic permeability of electrically conducting fluids under magnetic fields in annular ducts. <i>Physical Review E</i> , 2001 , 64, 016313	2.4	11
56	Anomalous patterned scattering spectra of one-dimensional porous silicon photonic crystals. <i>Optics Express</i> , 2010 , 18, 22808-16	3.3	10
55	Heat transfer enhancement in oscillatory flows of Newtonian and viscoelastic fluids. <i>International Journal of Heat and Mass Transfer</i> , 2009 , 52, 5472-5478	4.9	10
54	Application of fiber optics in the hydrogen production by photoelectrolysis. <i>International Journal of Hydrogen Energy</i> , 1998 , 23, 985-993	6.7	10
53	A theoretical and experimental thermal study of SiO ₂ optical fibres transmitting concentrated radiative energy. <i>Journal Physics D: Applied Physics</i> , 2002 , 35, 95-102	3	10
52	Comments on the Existence of Hamiltonian Principles for Non-Selfadjoint Operators. <i>Journal of Non-Equilibrium Thermodynamics</i> , 1996 , 21,	3.8	10
51	Duplicate publication and 'paper inflation' in the Fractals literature. <i>Science and Engineering Ethics</i> , 2006 , 12, 543-54	3.1	9
50	Rayleigh scattering in multilayered structures of porous silicon. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2005 , 2, 3544-3547		9
49	Non-linear model for absorption in SiO ₂ optical fibres: Transport of concentrated solar energy. <i>Solar Energy Materials and Solar Cells</i> , 2000 , 64, 209-224	6.4	9
48	Classical field theory and stochastic properties of hyperbolic equations of dissipative processes. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1999 , 268, 482-498	3.3	9
47	Nonequilibrium variational principle for the time evolution of an ionized gas. <i>Physical Review E</i> , 1993 , 47, 178-183	2.4	9
46	A Generalization of the Richards Equation Within Extended Irreversible Thermodynamics. <i>Water Resources Research</i> , 1991 , 27, 2141-2142	5.4	9
45	Improved method for estimating static formation temperatures in geothermal and petroleum wells. <i>Geothermics</i> , 2015 , 57, 73-83	4.3	8
44	The importance of mean time in power resource assessment for small wind turbine applications. <i>Energy for Sustainable Development</i> , 2016 , 30, 32-38	5.4	8

43	Analysis about sampling, uncertainties and selection of a reliable probabilistic model of wind speed data used on resource assessment. <i>Renewable Energy</i> , 2013 , 50, 244-252	8.1	8
42	Effective conductivity of chemically deposited ZnO thin films. <i>Thin Solid Films</i> , 1997 , 293, 320-326	2.2	8
41	Macromolecule mass spectrometry: citation mining of user documents. <i>Journal of the American Society for Mass Spectrometry</i> , 2004 , 15, 281-7	3.5	8
40	Nonlinear Heat Waves In Extended Irreversible Thermodynamics. <i>Journal of Non-Equilibrium Thermodynamics</i> , 1995 , 20,	3.8	8
39	Transverse component of the electrical conductivity of porous silicon II. <i>Solid State Communications</i> , 1994 , 90, 411-415	1.6	7
38	Staggered Padéwavelength distribution for multi-Bragg photonic mirrors. <i>Solar Energy Materials and Solar Cells</i> , 2015 , 141, 315-321	6.4	6
37	Optimal behavior of viscoelastic flow at resonant frequencies. <i>Physical Review E</i> , 2004 , 70, 056302	2.4	6
36	Viscoelastic fingering with a pulsed pressure signal. <i>Journal of Physics Condensed Matter</i> , 2004 , 16, S2055-S2066		
35	Two effective temperatures in traffic flow models: analogies with granular flow. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2002 , 307, 527-547	3.3	6
34	The bifoil photodyne: a photonic crystal oscillator. <i>Scientific Reports</i> , 2014 , 4, 3705	4.9	5
33	Role of an Oxidant Mixture as Surface Modifier of Porous Silicon Microstructures Evaluated by Spectroscopic Ellipsometry. <i>Scientific Reports</i> , 2016 , 6, 24798	4.9	5
32	Path integral approach to fluctuations in relativistic transport. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1998 , 253, 290-300	3.3	5
31	Light transmission in quasiperiodic multilayers of porous silicon. <i>Journal of Non-Crystalline Solids</i> , 2003 , 329, 140-143	3.9	5
30	Heat transfer in photonic mirrors. <i>Journal of Materials Science: Materials in Electronics</i> , 2014 , 25, 4348-4355		4
29	Thermodynamic analysis of a solar coffee maker. <i>Energy Conversion and Management</i> , 2009 , 50, 2407-2412	12.6	4
28	Effect of the electric field on the luminescence of self-supporting porous silicon. <i>Physica Status Solidi A</i> , 2003 , 197, 345-349		4
27	Optical properties of charged inclusions. <i>Solid State Communications</i> , 2001 , 117, 555-559	1.6	4
26	Consequences of a generalized Ohm's law for magnetic transport in conducting media. <i>Journal Physics D: Applied Physics</i> , 1999 , 32, 639-643	3	4

25	The Non-Equilibrium Thermodynamics of the Soil Water System: A Variational Approach. <i>Journal of Non-Equilibrium Thermodynamics</i> , 1992 , 17,	3.8	4
24	Photon losses in porous silicon microcavities. <i>Physica Status Solidi A</i> , 2005 , 202, 2626-2632		3
23	Effective Medium Correlations for Experimental Absorption Data. <i>Physica Status Solidi A</i> , 2000 , 182, 291-295		3
22	On the Criteria for Deriving Approximations of Different Orders in Extended Irreversible Thermodynamics. <i>Journal of Non-Equilibrium Thermodynamics</i> , 1990 , 15,	3.8	3
21	Network characterization of the Entangled Model for sustainability indicators. Analysis of the network properties for scenarios. <i>PLoS ONE</i> , 2018 , 13, e0208718	3.7	3
20	Diffusion of Charged Species in Liquids. <i>Scientific Reports</i> , 2016 , 6, 35211	4.9	2
19	Ab initio simulations of p-type porous silicon nanostructures. <i>Journal of Nanostructure in Chemistry</i> , 2013 , 3, 1	7.6	2
18	Ab initio simulation of p-type silicon crystals. <i>Solid State Communications</i> , 2012 , 152, 1619-1624	1.6	2
17	Influence of Nonlinear Local Properties on Effective Transport. <i>Transport in Porous Media</i> , 1998 , 31, 89-108	1.8	2
16	The impact of physics research. <i>Physics World</i> , 2001 , 14, 47-52	0.5	2
15	Effective conductivity of porous silicon: A theoretical approach. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1994 , 207, 163-167	3.3	2
14	The Influence of the External Signal Modulation Waveform and Frequency on the Performance of a Photonic Forced Oscillator. <i>Materials</i> , 2018 , 11,	3.5	1
13	Thermographic visualization of a flow instability in an electromagnetically driven electrolyte layer. <i>Experimental Thermal and Fluid Science</i> , 2019 , 109, 109882	3	1
12	Solar Energy Research in Ibero-America, a Citation Mining Approach. <i>Energy Procedia</i> , 2014 , 57, 930-939	2.3	1
11	Chemical modification of porous silicon mirror for biosensing applications 2007 ,		1
10	Photonic Quasiperiodic Multilayers of Porous Silicon. <i>Materials Research Society Symposia Proceedings</i> , 2003 , 797, 140		1
9	Reversible charging effects on optical properties of porous silicon. <i>Solid State Communications</i> , 2001 , 120, 21-24	1.6	1
8	Dynamic effective conductivity of porous silicon. <i>Journal of Non-Crystalline Solids</i> , 1995 , 182, 206-211	3.9	1

7	Optical and thermal performance of a toroidal compound parabolic concentrator. <i>Applied Optics</i> , 2021 , 60, 2213-2221	1.7	1
6	Quantum mechanics for non-inertial reference frames. <i>European Journal of Physics</i> , 2021 , 42, 045405	0.8	1
5	Optical and thermal properties of edible coatings for application in solar drying. <i>Scientific Reports</i> , 2021 , 11, 10051	4.9	1
4	Applied physics in Mexico: mining the past to predict the future. <i>Scientometrics</i> , 2020 , 125, 187-212	3	0
3	A plausible approach to heat transfer enhancement: non-Fourier heat transfer in fluids under oscillating conditions. <i>Journal of Physics Communications</i> , 2018 , 2, 055006	1.2	
2	Morphology Study of a Hybrid Structure Based on Porous Silicon and Polypyrrole. <i>Materials Research Society Symposia Proceedings</i> , 2006 , 939, 1		
1	Temperature distribution inside a porous silicon photonic mirror. <i>Journal Physics D: Applied Physics</i> , 2022 , 55, 065101	3	