Enrique Arribas

List of Publications by Year
in descending order

73 papers	576 citations	623734 14 h-index	677142 22 g-index
76 all docs	76 docs citations	76 times ranked	398 citing authors

#	Article	IF	Citations
1	Measurement of the magnetic field of small magnets with a smartphone: a very economical laboratory practice for introductory physics courses. European Journal of Physics, 2015, 36, 065002.	0.6	66
2	Enzymatic and chemical oxidation of trihydroxylated phenols. Food Chemistry, 2009, 113, 435-444.	8.2	42
3	Comprehensive personal RF-EMF exposure map and its potential use in epidemiological studies. Environmental Research, 2016, 149, 105-112.	7.5	39
4	Exact solution for the unforced Duffing oscillator with cubic and quintic nonlinearities. Nonlinear Dynamics, 2016, 86, 1687-1700.	5.2	38
5	Characterisation of personal exposure to environmental radiofrequency electromagnetic fields in Albacete (Spain) and assessment of risk perception. Environmental Research, 2019, 172, 109-116.	7.5	32
6	Approximate expressions for the period of a simple pendulum using a Taylor series expansion. European Journal of Physics, 2011, 32, 1303-1310.	0.6	24
7	Radiofrequency electromagnetic fields and some cancers of unknown etiology: An ecological study. Science of the Total Environment, 2017, 599-600, 834-843.	8.0	24
8	Georeferencing of Personal Exposure to Radiofrequency Electromagnetic Fields from Wi-Fi in a University Area. International Journal of Environmental Research and Public Health, 2020, 17, 1898.	2.6	24
9	Approximate solutions for the nonlinear pendulum equation using a rational harmonic representation. Computers and Mathematics With Applications, 2012, 64, 1602-1611.	2.7	23
10	Measurements and Analysis of Personal Exposure to Radiofrequency Electromagnetic Fields at Outdoor and Indoor School Buildings: A Case Study at a Spanish School. IEEE Access, 2020, 8, 195692-195702.	4.2	22
11	Personal RF-EMF exposure from mobile phone base stations during temporary events. Environmental Research, 2019, 175, 266-273.	7.5	20
12	Personal Exposure Assessment to Wi-Fi Radiofrequency Electromagnetic Fields in Mexican Microenvironments. International Journal of Environmental Research and Public Health, 2021, 18, 1857.	2.6	20
13	Comment on â€œWi-Fi is an important threat to human healthâ€. Environmental Research, 2018, 167, 639.	7.5	19
14	Analytical Approximate Solutions for the Cubic-Quintic Duffing Oscillator in Terms of Elementary Functions. Journal of Applied Mathematics, 2012, 2012, 1-16.	0.9	14
15	Nonlinear oscillator with power-form elastic-term: Fourier series expansion of the exact solution. Communications in Nonlinear Science and Numerical Simulation, 2015, 22, 134-148.	3.3	14
16	Using multiple exposimeters to evaluate the influence of the body when measuring personal exposition to radio frequency electromagnetic fields. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2015, 34, 1063-1069.	0.9	13
17	Physical units to report intensity of electromagnetic wave. Environmental Research, 2022, 204, 112341.	7.5	13
18	Comparison of statistic methods for censored personal exposure to RF-EMF data. Environmental Monitoring and Assessment, 2020, 192, 77.	2.7	12

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19	An alternative analysis of enzyme systems based on the whole reaction time: evaluation of the kinetic parameters and initial enzyme concentration. Journal of Mathematical Chemistry, 2007, 42, 789-813.	1.5	9
20	Linear compartmental systems. I. kinetic analysis and derivation of their optimized symbolic equations. Journal of Mathematical Chemistry, 2012, 50, 1598-1624.	1.5	9
21	Closed-Form Exact Solutions for the Unforced Quintic Nonlinear Oscillator. Advances in Mathematical Physics, 2017, 2017, 1-14.	0.8	8
22	Linear Quadrupole Magnetic Field Measured with a Smartphone. Physics Teacher, 2020, 58, 182-185.	0.3	7
23	Solutions for Conservative Nonlinear Oscillators Using an Approximate Method Based on Chebyshev Series Expansion of the Restoring Force. Acta Physica Polonica A, 2016, 130, 667-678.	0.5	7
24	Student peer evaluation using a remote response system. Medical Education, 2010, 44, 1146-1146.	2.1	6
25	Notes on â€œApplication of the Hamiltonian approach to nonlinear oscillators with rational and irrational elastic termsâ€. Mathematical and Computer Modelling, 2011, 54, 3204-3209.	2.0	6
26	Comments on â€˜A finite extensibility nonlinear oscillatorâ€™. Applied Mathematics and Computation, 2012, 218, 6168-6175.	2.2	6
27	Two New Regulatory Properties Arising from the Transient Phase Kinetics of Monocyclic Enzyme Cascades. Journal of Mathematical Chemistry, 2005, 38, 437-450.	1.5	5
28	Mean Lifetime and First-Passage Time of the Enzyme Species Involved in an Enzyme Reaction. Application toÂUnstable Enzyme Systems. Bulletin of Mathematical Biology, 2008, 70, 1425-1449.	1.9	5
29	Contribution of the intra- and intermolecular routes in autocatalytic zymogen activation: application to pepsinogen activation.. Acta Biochimica Polonica, 2019, 53, 407-420.	0.5	5
30	A method, based on statistical moments, to evaluate the kinetic parameters involved in unstable enzyme systems. Journal of Mathematical Chemistry, 2008, 44, 379-404.	1.5	4
31	Suicide inactivation of tyrosinase in its action on tetrahydropterines. Journal of Enzyme Inhibition and Medicinal Chemistry, 2011, 26, 728-733.	5.2	4
32	Competitive and uncompetitive inhibitors simultaneously acting on an autocatalytic zymogen activation reaction. Journal of Enzyme Inhibition and Medicinal Chemistry, 2006, 21, 635-645.	5.2	3
33	Linear compartmental systems: IIâ€"A software to obtain the symbolic kinetic equations. Journal of Mathematical Chemistry, 2012, 50, 1625-1648.	1.5	3
34	Reply to Comment on â€˜Measurement of the magnetic field of small magnets with a smartphone: a very economical laboratory practice for introductory physics coursesâ€™. European Journal of Physics, 2016, 37, 028002.	0.6	3
35	Response to the comments on â€œRadiofrequency electromagnetic fields and some cancers of unknown etiology: An ecological studyâ€.by J. Gonzalez-Rubio, E. Arribas, R. Ramirez-Vazquez and A. Najera. Science of the Total Environment 599â€"600 (2017) 834â€"843. Science of the Total Environment, 2018, 612, 368-369.	8.0	3
36	How, When, and Where do Football Players get Injured?: a Descriptive Epidemiological Study on Male Professional Football Players in Spain for Four Seasons. Annals of Applied Sport Science, 2017, 5, 13-21.	0.4	3

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37	A general model for non-autocatalytic zymogen activation in the presence of two different and mutually exclusive inhibitors. I. Kinetic analysis. Journal of Mathematical Chemistry, 2010, 48, 617-634.	1.5	2
38	Linear compartmental systems. IV. A software, under MS-Windows, for obtaining the instantaneous species concentrations in enzyme systems. Journal of Mathematical Chemistry, 2014, 52, 1675-1689.	1.5	2
39	Closed-form solutions for the quadratic mixed-parity nonlinear oscillator. Indian Journal of Physics, 2021, 95, 1213-1224.	1.8	2
40	ELABORATION OF RUBRICS FOR THE EVALUATION BY COMPETENCES OF PHYSICS IN THE UNIVERSITY. INTED Proceedings, 2018, , .	0.0	2
41	Kinetic analysis of a general model of activation of aspartic proteinase zymogens involving a reversible inhibitor. II. Contribution of the uni- and bimolecular activation routes. Journal of Enzyme Inhibition and Medicinal Chemistry, 2007, 22, 157-163.	5.2	1
42	A general model for non-autocatalytic zymogen activation in the presence of two different and mutually exclusive inhibitors. II. Relative weight of activation and inhibition processes. Journal of Mathematical Chemistry, 2010, 48, 635-652.	1.5	1
43	Computerized evaluation of mean residence times in multicompartmental linear system and pharmacokinetics. Journal of Computational Chemistry, 2011, 32, 915-931.	3.3	1
44	Analysis of the fractional modification of the monocyclic enzyme cascades, defined in an alternative way involving the two forms of the modified protein. Journal of Mathematical Chemistry, 2014, 52, 2442-2458.	1.5	1
45	Exact and approximate solutions for the anti-symmetric quadratic truly nonlinear oscillator. Applied Mathematics and Computation, 2014, 246, 355-364.	2.2	1
46	Estudio experimental de la inducciÃ³n electromagnÃ©tica entre dos bobinas: Dependencia con la corriente elÃ©ctrica. Revista Brasileira De Ensino De Fisica, 2015, 37, 1313.	0.2	1
47	Exact solutions for an oscillator with anti-symmetric quadratic nonlinearity. Indian Journal of Physics, 2018, 92, 495-506.	1.8	1
48	Comment on â€œThe Use of Pulsed Electromagnetic Fields to Promote Bone Responses to Biomaterials In Vitro and In Vivoâ€. International Journal of Biomaterials, 2019, 2019, 1-3.	2.4	1
49	An indirect measurement of the speed of light in a General Physics Laboratory. Journal of King Saud University - Science, 2020, 32, 2797-2802.	3.5	1
50	Comment on: What is the radiation before 5G? A correlation study between measurements in situ and in real time and epidemiological indicators in Vallecas, Madrid, by I. LÃ³pez, N. FÃ©lix, M. Rivera, A. Alonso, and C. MaestÃº. Environmental Research, 2021, , 112138.	7.5	1
51	EVALUANDO COMPETENCIAS EN FÃSICA MEDIANTE RÃšBRICAS. Revista REAMEC, 2018, 6, 142-151.	0.1	1
52	On the higher orders of hyperspherical harmonics. Journal of Mathematical Physics, 1983, 24, 1992-1996.	1.1	0
53	Points of inflection in harmonic motion. Physics Education, 1990, 25, 126-127.	0.5	0
54	Electric Field Lines. International Journal of Modern Physics C, 1991, 02, 216-219.	1.7	0

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55	Kinetic analysis of a general model of activation of aspartic proteinase zymogens involving a reversible inhibitor. I. Kinetic analysis. Journal of Enzyme Inhibition and Medicinal Chemistry, 2007, 22, 147-155.	5.2	0
56	Optimized derivation of transfer functions and a software giving it. Application to biological systems. Applied Mathematics and Computation, 2007, 184, 823-841.	2.2	0
57	Characterization of unstable enzyme systems which evolve according to a three-exponential equation. Journal of Mathematical Chemistry, 2011, 49, 1667-1686.	1.5	0
58	A COMPARISON BETWEEN THE INITIAL RATE EXPRESSIONS OBTAINED UNDER STRICT CONDITIONS AND THE RAPID EQUILIBRIUM ASSUMPTION USING, AS EXAMPLE, A FOUR SUBSTRATE ENZYME REACTION. Journal of Theoretical and Computational Chemistry, 2011, 10, 659-678.	1.8	0
59	Linear compartmental systems. III. Application to enzymatic reactions. Journal of Mathematical Chemistry, 2014, 52, 1647-1674.	1.5	0
60	Personal exposition to radiofrequency electromagnetic radiation in Albacete (Spain). , 2015, , .		0
61	Development of a laboratory practice for physics introductory courses using a rubric for evaluation by competences. Journal of Physics: Conference Series, 2019, 1287, 012025.	0.4	0
62	Comment on 'How long is my toilet roll-a simple exercise in mathematical modelling'. International Journal of Mathematical Education in Science and Technology, 2021, 52, 1407-1412.	1.4	0
63	Comment on "multivariable quantitative relation between cell viability and the exposure parameters of 9.33 GHz RF-EMP irradiation" Electromagnetic Biology and Medicine, 2022, 41, 118-119.	1.4	0
64	Vórtices no estacionarios en un vaso de agua. Revista Brasileira De Ensino De Fisica, 2013, 35, .	0.2	0
65	CASE-BASED LEARNING IN MATERIALS ENGINEERING: THE OUIJA BOARD OF THE DEVIL. , 2018, , .		0
66	AN INNOVATIVE PRACTICE IN THE PHYSICS LABORATORY: RADIOFREQUENCY ELECTROMAGNETIC FIELDS PERSONAL EXPOSURE. INTED Proceedings, 2018, , .	0.0	0
67	THE USE OF CONCEPTUAL MAPS IN SOLVING PHYSICS PROBLEMS. , 2018, , .		0
68	RUBRIC ELABORATION TO EVALUATE BY COMPETENCES A PRACTICE OF PHYSICS LABORATORY: PARALLEL-PLATE CAPACITOR. , 2019, , .		0
69	RESULTS OF APPLICATION OF A RUBRIC FOR THE EVALUATION BY COMPETENCES: MEASUREMENT OF THE MAGNETIC FIELD OF SMALL MAGNETS WITH A SMARTPHONE. INTED Proceedings, 2019, , .	0.0	0
70	DESIGN AND IMPLEMENTATION OF RUBRIC FOR THE EVALUATION BY COMPETENCES IN PHYSICAL SCIENCES: CASE STUDY PUC-MG, BRAZIL. , 2020, , .		0
71	BRAZILIAN NATIONAL PROGRAM OF EDUCATIONAL BOOKS FOR PHYSICS, CHEMISTRY, AND BIOLOGY: CONSOLIDATION OF AN EDITORIAL POLICY. INTED Proceedings, 2020, , .	0.0	0
72	Symbolic Equation for the Instantaneous Amount of Substance in Linear Compartmental Systems. , 0, , 348-379.		0

#	ARTICLE	IF	CITATIONS
73	Comment on Martin L. Pall â€œMillimeter (MM) wave and microwave frequency radiation produce deeply penetrating effects: the biology and the physicsâ€, Rev Environ Health, 2021. Reviews on Environmental Health, 2022, .	2.4	0