

PUBLICAÇÕES DO PROGRAMA DE PÓS-GRADUAÇÃO EM FÍSICA
2019

ID	Artigo	JCR 2019	Qualis (2013-16)
1.	<p style="text-align: center;">Tree-level processes in very special relativity R. Bufalo and T. Cardoso e Bufalo <i>Physical Review D</i> 100, 125017 (2019) https://doi.org/10.1103/PhysRevD.100.125017</p>	4,368	A2
2.	<p style="text-align: center;">Cities as Information Vinicius Netto, Edgardo Brigatti, João Meirelles, Fabiano Ribeiro, Caio Cacholas. <i>Virus</i> 19 (2019) http://www.nomads.usp.br/virus/virus19/secs/submitted/virus_19_submitted_1_en.pdf</p>	XX	XX
3.	<p style="text-align: center;">Quantum motion of a point particle in the presence of the Aharonov-Bohm potential in curved space: viewpoint of scattering theory Fabiano M. Andrade, Augusto R. Chumbes, Cleverson Filgueiras, Edilberto O. Silva. <i>Europhysics Letters</i> 128 (2019) 10002 https://doi.org/10.1209/0295-5075/128/10002</p>	2,229	B1

4.	<p>Raman spectrum of layered jacutingaite (Pt₂Hgse₃) crystals-experimental and theoretical study</p> <p>R. Longuinhos, A. Vymazalová, A. R. Cabral, S. S. Alexandre, R. W. Nunes, J. Ribeiro-Soares. Silva.</p> <p><i>Journal of Raman Spectroscopy (2019)</i></p> <p>https://doi.org/10.1002/jrs.5764</p>	2,809	B1
5.	<p>Thermal effects of Very Special Relativity Quantum Electrodynamics</p> <p>R. Bufalo and M. Ghasemkhani.</p> <p><i>Physical Review D 100, 065024 (2019).</i></p> <p>https://doi.org/10.1103/PhysRevD.100.065024</p>	4,368	A2
6.	<p>Probing spatial phonon correlation length in post-transition metal monochalcogenide GaS using tip-enhanced Raman spectroscopy</p> <p>R. S. Alencar, Cassiano Rabelo, Hudson L. S. Miranda, Thiago L. Vasconcelos, Bruno S. Oliveira, Aroldo Ribeiro, Bruno C. Plúbio, Jenaina Ribeiro-Soares; A. G. Souza Filho, Luiz G. Cançado, Ado Jorio.</p> <p><i>Nano Letters 19, 7357 (2019).</i></p> <p>https://pubs.acs.org/doi/10.1021/acs.nanolett.9b02974</p>	12,279	A1

7.	<p style="text-align: center;">Temperature-dependent phonon dynamics of supported and suspended monolayer tungsten diselenide</p> <p>Thais C. V. Carvalho, Francisco D. V. Araujo, Clenilton Costa dos Santos, Luciana M. R. Alencar, J. Ribeiro-Soares, Dattatray J. Late, Anderson Oliveira Lobo, Antonio Gomes Souza Filho, Rafael S. Alencar, Bartolomeu C. Viana.</p> <p style="text-align: center;"><i>AIP Advances</i> 9, 085316 (2019).</p> <p style="text-align: center;">https://aip.scitation.org/doi/10.1063/1.5118004</p>	1,579	B3
8.	<p style="text-align: center;">Modifications of electron states, magnetization and persistent, current in a quantum dot by controlled curvature</p> <p>Luís Fernando C. Pereira, Fabiano M. Andrade, Cleverson Filgueiras, Edilberto O. Silva.</p> <p style="text-align: center;"><i>Annalen der Physik</i> 531, 1900254 (2019).</p> <p style="text-align: center;">https://onlinelibrary.wiley.com/doi/10.1002/andp.201900254</p>	3,276	A2
9.	<p style="text-align: center;">Consistency of an alternative CPT-odd and Lorentz-violating extension of QED</p> <p>J. C. C. Felipe, H. G. Fagnoli, A. P. Baeta Scarpelli, L. C. T. Brito.</p> <p style="text-align: center;"><i>International Journal of Modern Physics A</i> 34, 1950139 (2019).</p> <p style="text-align: center;">https://www.worldscientific.com/doi/abs/10.1142/S0217751X19501392</p>	1,153	B2
10.	<p style="text-align: center;">The effects of an Impurity in an Ising-XXZ Diamond Chain on Thermal Entanglement, on Quantum Coherence and on Quantum Teleportation</p> <p>Marcos Freitas, Cleverson Filgueiras, Moises Rojas.</p> <p style="text-align: center;"><i>Annalen der Physik</i> 531, 1900261 (2019).</p> <p style="text-align: center;">https://onlinelibrary.wiley.com/doi/10.1002/andp.201900261</p>	3,276	A2

11.	<p>Alternative approach to calculate soil hydraulic-energy-indices and functions <u>Robson André Armindo</u>, Ole Wendroth. <i>Geoderma</i> 355, 113903 (2019). https://www.sciencedirect.com/science/article/pii/S0016706118320627?via%3Dihub</p>	3,740	A1
12.	<p>Quantum heat machines enabled by the electronic effective mass <u>Cleverson Filgueiras</u>. <i>Results in Physics</i> 15, 102556 (2019). https://www.sciencedirect.com/science/article/pii/S2211379719321114?via%3Dihub</p>	3,042	B3
13.	<p>On the 2D Dirac oscillator in the presence of vector and scalar potentials in the cosmic string spacetime in the context of spin and pseudospin symmetries D. F. Lima, F. M. Andrade, L. B. Castro, <u>Cleverson Filgueiras</u>, E. O. Silva. <i>European Physical Journal C</i> 79, 596 (2019). https://link.springer.com/article/10.1140/epjc/s10052-019-7115-7</p>	4,843	A2
14.	<p>Physical assessment of a Haplohumox soil under integrated crop-livestock system A. M. Huf dos Reis, <u>R. A. Armindo</u>, Luiz Fernando Pires. <i>Soil & Tillage Research</i> 194, 104294, (2019). https://www.sciencedirect.com/science/article/pii/S0167198719302983?via%3Dihub</p>	3,824	A1

15.	<p>Optical absorption in complexes of abasic DNA with noble-metal nano clusters by first principles calculations</p> <p>L. C de Carvalho, Orlando J. Silveira, Raphael Longuinhos Monteiro Lobato, Ricardo Wagner Nunes, Simone Silva Alexandre.</p> <p><i>Physical Chemistry Chemical Physics</i> 21, 1260 (2019).</p> <p>https://pubs.rsc.org/en/content/articlelanding/2018/cp/c8cp03731k#!divAbstract</p>	3,567	A2
16.	<p>Spent coffee grounds as organic amendment modify hydraulic properties in a sandy loam Brazilian soil</p> <p>M. E. Turek, K. S. Freitas, R. A. Armindo.</p> <p><i>Agricultural Water Management</i> 222, 313 (2019).</p> <p>https://www.sciencedirect.com/science/article/abs/pii/S0378377419303828?via%3Dihub</p>	3,182	A1
17.	<p>Absence of a spontaneous long-range order in a mixed spin-(1/2,3/2) Ising model on a decorated square lattice due to anomalous spin frustration driven by a magnetoelastic coupling</p> <p>J. Strecka, Onofre Rojas, S. M. de Souza.</p> <p><i>Physics Letters A</i> 383, 2451 (2019).</p> <p>https://www.sciencedirect.com/science/article/abs/pii/S0375960119304281?via%3Dihub</p>	2,087	B3
18.	<p>Investigating the preservation of Pi-conjugation in covalently functionalized carbon nanotubes through first principles simulations</p> <p>I. S. S. de Oliveira, R. Kagimura, P. Venezuela, R. H. Miwa.</p> <p><i>The Journal of Chemical Physics</i> 150, 204701 (2019).</p> <p>https://aip.scitation.org/doi/10.1063/1.5093322</p>	2,997	A2

19.	<p>Performance of the Groenevelt and Grant model for fitting soil water retention data from Brazilian soils</p> <p>R. Armindo, et al</p> <p><i>Revista Brasileira de Ciencia do Solo</i> 43, e0180217 (2019).</p> <p>http://www.scielo.br/scielo.php?script=sci_abstract&pid=S0100-06832019000100407&lng=en&nrm=iso&tlng=en</p>	0,799	C
20.	<p>A method to determine the soil bulk density of undisturbed samples with non-isodiametric shape</p> <p>K. S. Freitas, R. A. Armindo, L. F. Pires, V. Swinka Filho, S. Ribeiro Junior.</p> <p><i>Soil&Tillage Research</i> 191, 344 (2019).</p> <p>https://www.sciencedirect.com/science/article/pii/S0167198718309462</p>	3,824	A1
21.	<p>Development of a low-cost automated calorimeter for determining soil specific heat</p> <p>R. O. Moreno, R. A. Armindo, R. L. Moreno.</p> <p><i>Computers and Electronics in Agriculture</i> 162, 348 (2019)</p> <p>https://www.sciencedirect.com/science/article/pii/S0168169919303369?dgcid=author#f0005</p>	2,427	B3
22.	<p>Universality and quasicritical exponents of one-dimensional models displaying a quasi transition at finite temperatures</p> <p>Onofre Rojas, Jozef Strecka, Marcelo Leite Lyra, Sergio Martins de Souza.</p> <p><i>Physical Review E</i> 99, 042117 (2019).</p> <p>https://journals.aps.org/pre/abstract/10.1103/PhysRevE.99.042117</p>	2,353	A2

23.	<p>Tuning the thermal entanglement in an Ising-XXZ diamond chain with two impurities I. M. Carvalho, S. M. de Souza, O. Rojas, M. Rojas. <i>Quantum Information Processing</i> 18, 134 (2019). https://link.springer.com/article/10.1007/s11128-019-2253-2</p>	2,222	B2
24.	<p>Monitoring the applied strain in monolayer gallium selenide through vibrational spectroscopies: A first-principles investigation R. Longinhos, J. Ribeiro-Soares <i>Physical Review Applied</i> 11, 024012 (2019). https://journals.aps.org/prapplied/abstract/10.1103/PhysRevApplied.11.024012</p>	4,532	A2
25.	<p>Correlation for a spin-1/2 Ising-XYZ diamond chain: Further evidence for quasi-phases and pseudo-transitions I. M. Carvalho, J. Torrico, S. M. de Souza, Onofre Rojas, Oleg Derzhko. <i>Annals of Physics</i> 402, 45 (2019). https://www.sciencedirect.com/science/article/pii/S0003491619300016</p>	2,267	B1
26.	<p>Persistence length convergence and universality for the self-avoiding random walk Cristiano Roberto Fabri Granzotti, Fabiano Leme Ribeiro, Alexandre Souto Martinez, Marco Antonio Alves da Silva <i>Journal of Physics A-Mathematical and Theoretical</i> 52, 075002 (2019). https://iopscience.iop.org/article/10.1088/1751-8121/aeeeb0</p>	2,110	B1

27.	<p>Position-dependent mass effects in the electronic transport of two-dimensional quantum systems: Applications to nanotubes</p> <p>Felipe Serafim, F. A. N. Santos, Jonas R. F. Lima, Cleverson Filgueiras, Fernando Moraes.</p> <p><i>Physica E: Low-dimensional Systems and Nanostructures</i> 108, 139 (2019).</p> <p>https://www.sciencedirect.com/science/article/pii/S138694771831350X</p>	3,176	B1
28.	<p>Bio-based thin films of cellulose nanofibrils and magnetite for potential application in green electronics</p> <p>Ana carolina Cunha Arantes, Luiz Eduardo Silva, Delilah F. Wood, Crislaine das Graças Almeida, Gustavo Henrique Denzin Tonoli, Juliano Elvis de Oliveira, Joaquim Paulo da Silva, Tina G. Williams, William J. Orts, Maria Lucia Bianchi.</p> <p><i>Carbohydrate Polymers</i> 207, 100 (2019).</p> <p>https://www.sciencedirect.com/science/article/pii/S0144861718314140</p>	6,044	A2
29.	<p>Geometrically frustrated Ising-Heisenberg spin model on expanded Kagomé Lattice</p> <p>Onofre Rojas</p> <p><i>Journal of Magnetism and Magnetic Materials</i> 473, 442 (2019).</p> <p>https://www.sciencedirect.com/science/article/pii/S0304885318318523?dgcid=rss_sd_all</p>	1,383	B1
30.	<p>Anomalous spoil frustration enforced by a magnetoelastic coupling in the mixed-spin Ising model on decorated planar lattices</p> <p>Jozef Strecka, Matts Rebic, Onofre Rojas, Sergio Martins de Souza.</p> <p><i>Journal of Magnetism and Magnetic Materials</i> 469, 655 (2019)</p> <p>https://www.sciencedirect.com/science/article/pii/S0304885318316226</p>	1,672	B1

