

Boris Anghelo RodrÃ-guez

List of Publications by Year in descending order

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35
papers

170
citations

1162367

8
h-index

1199166

12
g-index

37
all docs

37
docs citations

37
times ranked

158
citing authors

#	ARTICLE	IF	CITATIONS
1	Variability of extreme events in the Colombian Pacific and Caribbean catchment basins. <i>Climate Dynamics</i> , 2013, 40, 1985-2003.	1.7	24
2	Influence of the position of a donor impurity on the second-order nonlinear optical susceptibility in a cylindrical quantum dot. <i>Superlattices and Microstructures</i> , 2018, 113, 550-557.	1.4	14
3	The electronegativity of cylindrical GaAs δ -Ga $_{1-x}$ Al $_x$ As quantum well wires under magnetic fields applied along the wire axis. <i>Journal of Physics Condensed Matter</i> , 2008, 20, 175204.	0.7	13
4	Characterization of dynamical regimes and entanglement sudden death in a microcavity quantum dot system. <i>Journal of Physics Condensed Matter</i> , 2009, 21, 395603.	0.7	13
5	Non-linear optical response of an impurity in a cylindrical quantum dot under the action of a magnetic field. <i>Physica B: Condensed Matter</i> , 2017, 511, 68-73.	1.3	12
6	Photon Emission as a Source of Coherent Behavior of Polaritons. <i>Physical Review Letters</i> , 2007, 98, 167405.	2.9	10
7	A multiexcitonic quantum dot in an optical microcavity. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2006, 35, 99-102.	1.3	9
8	Quantum dot dipole orientation and excitation efficiency of micropillar modes. <i>Optics Express</i> , 2008, 16, 19201.	1.7	9
9	Density operator of a system pumped with polaritons: a Jaynes-Cummings-like approach. <i>Journal of Physics Condensed Matter</i> , 2011, 23, 025301.	0.7	9
10	CROSSOVER BETWEEN THE ELECTRON-HOLE PHASE AND THE BCS EXCITONIC PHASE IN QUANTUM DOTS. <i>International Journal of Modern Physics B</i> , 2000, 14, 71-83.	1.0	7
11	Dynamics of entanglement and quantum discord in the Tavis-Cummings model. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2016, 49, 125502.	0.6	7
12	A time-energy delayed-choice interference experiment for the undergraduate laboratory. <i>European Journal of Physics</i> , 2019, 40, 055401.	0.3	7
13	Synchronized chaotic phase masks for encrypting and decrypting images. <i>Optics Communications</i> , 2008, 281, 5750-5755.	1.0	5
14	Multiple-scale analysis of open quantum systems. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2019, 383, 1698-1710.	0.9	5
15	Strong coupling of two interacting excitons confined in a nanocavity-quantum dot system. <i>Journal of Physics Condensed Matter</i> , 2011, 23, 265304.	0.7	4
16	Theoretical study on optical response in nanostructures in the Born-Markov regime: The role of spontaneous emission and dephasing. <i>Annals of Physics</i> , 2019, 400, 279-288.	1.0	4
17	Spin polarization and magnetoluminescence of confined electron-hole systems. <i>Physical Review B</i> , 2001, 63, .	1.1	3
18	Mean-field dynamics of a quantum dot-microcavity system. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2005, 27, 427-438.	1.3	2

#	ARTICLE	IF	CITATIONS
19	Micropillar resonator in a magnetic field: Zero and finite temperature cases. Superlattices and Microstructures, 2008, 43, 500-506.	1.4	2
20	Efficient calculation of Coulomb matrix elements for bilayers of confined charge carriers with arbitrary spatial separation. Computer Physics Communications, 2010, 181, 1510-1516.	3.0	2
21	Magnetic control of dipolaritons in quantum dots. Journal of Physics Condensed Matter, 2016, 28, 505302.	0.7	2
22	Drawing the complexity of Colombian climate from non-extensive extreme behavior. Physica A: Statistical Mechanics and Its Applications, 2020, 548, 123673.	1.2	2
23	Elucidating multi-input processing 3-node gene regulatory network topologies capable of generating striped gene expression patterns. PLoS Computational Biology, 2022, 18, e1009704.	1.5	2
24	Effects of Coulomb interactions on the splitting of luminescence lines. Physica E: Low-Dimensional Systems and Nanostructures, 2005, 27, 129-139.	1.3	1
25	Validation tests for cryo-EM maps using an independent particle set. Journal of Structural Biology: X, 2020, 4, 100032.	0.7	1
26	TEORÍA COMPLETAMENTE CUÁNTICA DE LA SUSCEPTIBILIDAD ELÉCTRICA LINEAL. Momento, 2016, , 57.	0.3	1
27	Wigner function and decoherence in a microcavity-Qdot system. Microelectronics Journal, 2008, 39, 1360-1362.	1.1	0
28	Coulomb correlations of a few body system of spatially separated charges. Journal of Physics: Conference Series, 2009, 193, 012133.	0.3	0
29	A novel cell-coupling leading to nonlocal interactions. Journal of Physics: Conference Series, 2011, 285, 012037.	0.3	0
30	Strong coupling criterion for two interacting excitons in a nanocavity. , 2011, , .		0
31	Quantum correlations from advantageous quasiparticle pictures in a Cavity-QDots System. Optik, 2020, 206, 164310.	1.4	0
32	SIMULATION OF BIOMASS DYNAMICS IN PLANKTON OF A HIGH-ALTITUDE ANDEAN TROPICAL RESERVOIR IN COLOMBIA.. Acta Biologica Colombiana, 2021, 26, 404-413.	0.1	0
33	Theoretical study of optical rectification of a nanostructure inside an ideal photonic crystal cavity. Physica B: Condensed Matter, 2021, 618, 413200.	1.3	0
34	Modelos geométricos en el estudio de nanotubos de carbono. Tecnológicas, 2010, , 167.	0.1	0
35	La estación meteorológica, el agricultor y la planeación urbana: una reflexión para abordar estudios interdisciplinarios del clima. Agua Y Territorio, 2016, , 61-70.	0.2	0