

# A L A Fonseca; Antonio Luciano De Almeida Fonseca

## List of Publications by Citations

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97  
papers

970  
citations

15  
h-index

28  
g-index

102  
ext. papers

1,029  
ext. citations

2.4  
avg, IF

3.83  
L-index

#	Paper	IF	Citations
97	Unexpected transition from single to double quantum well potential induced by intense laser fields in a semiconductor quantum well. <i>Journal of Applied Physics</i> , <b>2009</b> , 105, 123111	2.5	136
96	Hydrogenic impurities in a quantum well wire in intense, high-frequency laser fields. <i>Physical Review B</i> , <b>1996</b> , 54, 16405-16408	3.3	97
95	Intense field effects on hydrogen impurities in quantum dots. <i>Journal of Applied Physics</i> , <b>1997</b> , 82, 1236-1241	2.4	58
94	Electronic properties of a quasi-two-dimensional electron gas in semiconductor quantum wells under intense laser fields. <i>Physical Review B</i> , <b>2004</b> , 70,	3.3	50
93	Laser-dressed binding energy of a hydrogen impurity in the GaAs/Al <sub>x</sub> Ga <sub>1-x</sub> As nanostructure in the presence of a static electric field. <i>Superlattices and Microstructures</i> , <b>1998</b> , 23, 1005-1014	2.8	39
92	Transport of Polarons in Graphene Nanoribbons. <i>Journal of Physical Chemistry Letters</i> , <b>2015</b> , 6, 510-4	6.4	36
91	Intense laser field effects on the binding energy of impurities in semiconductors. <i>Physical Review B</i> , <b>2007</b> , 75,	3.3	29
90	Electric field effects on electron mobility in n-AlGaAs/GaAs/AlGaAs single asymmetric quantum wells. <i>Journal of Applied Physics</i> , <b>2002</b> , 92, 5296-5303	2.5	26
89	Impurity effects on polaron dynamics in graphene nanoribbons. <i>Carbon</i> , <b>2015</b> , 91, 171-177	10.4	24
88	Dichotomy of the exciton wave function in semiconductors under intense laser fields. <i>Journal of Applied Physics</i> , <b>2008</b> , 103, 113112	2.5	24
87	Intense laser field effect on confined hydrogenic impurities in quantum semiconductors. <i>Physica Status Solidi (B): Basic Research</i> , <b>1996</b> , 197, 349-357	1.3	23
86	Intense Field Effects on Impurities in Semiconductors. <i>Physica Status Solidi (B): Basic Research</i> , <b>1994</b> , 186, K57-K61	1.3	23
85	Experimental and theoretical isotope shifts of strontium levels subject to very strong configuration mixing. <i>Journal of Physics B: Atomic and Molecular Physics</i> , <b>1984</b> , 17, 1761-1770		17
84	Amplification of hipersound in graphene under external direct current electric field. <i>Journal of Applied Physics</i> , <b>2012</b> , 112, 043707	2.5	16
83	Impact of the Electron-Phonon Interactions on the Polaron Dynamics in Graphene Nanoribbons. <i>Journal of Physical Chemistry A</i> , <b>2016</b> , 120, 4901-6	2.8	16
82	X-ray absorption in atoms under intense laser fields. <i>Physical Review A</i> , <b>1988</b> , 37, 400-402	2.6	14
81	Influence of quasi-particle density over polaron mobility in armchair graphene nanoribbons. <i>Physical Chemistry Chemical Physics</i> , <b>2018</b> , 20, 16712-16718	3.6	14

80	Determination of electronic energy levels for the heteromolecular ions HeH <sub>2</sub> <sup>+</sup> , LiH <sub>3</sub> <sup>+</sup> , and BeH <sub>4</sub> <sup>+</sup> from the Hamilton-Jacobi equation. <i>International Journal of Quantum Chemistry</i> , <b>2006</b> , 106, 2587-2596	2.1	13
79	Reactive Scattering between Excitons and Charge Carriers in Conjugated Polymers. <i>Journal of Physical Chemistry C</i> , <b>2014</b> , 118, 23451-23458	3.8	12
78	Effect of a terahertz laser field on the electron-DOS in a GaAs/AlGaAs cylindrical quantum wire: finite well model. <i>Semiconductor Science and Technology</i> , <b>2008</b> , 23, 125038	1.8	12
77	Bipolaron Dynamics in Graphene Nanoribbons. <i>Scientific Reports</i> , <b>2019</b> , 9, 2909	4.9	12
76	Temperature effects on intrachain recombination of bipolarons in conjugated polymers. <i>Chemical Physics Letters</i> , <b>2014</b> , 614, 151-155	2.5	11
75	Magnetic field effect on the laser-driven density of states for electrons in a cylindrical quantum wire: transition from one-dimensional to zero-dimensional behavior. <i>New Journal of Physics</i> , <b>2011</b> , 13, 073005	2.9	10
74	Terahertz laser-induced 1D/0D crossover in the density of states for electrons in a cylindrical semiconductor quantum wire. <i>Solid State Communications</i> , <b>2009</b> , 149, 678-681	1.6	10
73	Optical transitions involving impurities in semiconductors under additional infrared laser radiation. <i>Solid State Communications</i> , <b>2002</b> , 122, 425-428	1.6	10
72	Relativistic method to get analytic solutions for many-body problems: Application to the H molecule. <i>International Journal of Quantum Chemistry</i> , <b>2003</b> , 95, 274-280	2.1	10
71	Electron Mobility in One (Two)-Side Modulation-Doped GaAs/Al <sub>x</sub> Ga <sub>1-x</sub> As Asymmetric Quantum Wells. <i>Physica Status Solidi (B): Basic Research</i> , <b>2001</b> , 225, 43-61	1.3	10
70	Determination of the helium atom ground state through the Hamilton-Jacobi equation. <i>International Journal of Quantum Chemistry</i> , <b>2005</b> , 103, 505-508	2.1	9
69	Thermoelectric amplification of phonons in cylindrical quantum well wires. <i>Journal of Applied Physics</i> , <b>1998</b> , 83, 87-89	2.5	9
68	Different approach to the Stark effect: Application to the hydrogen ground state. <i>Physical Review A</i> , <b>1990</b> , 42, 4008-4014	2.6	9
67	Plasma heating by two laser fields in the presence of a strong magnetic field. <i>Physical Review A</i> , <b>1990</b> , 41, 2138-2143	2.6	9
66	Modeling the Emission Spectra of Organic Molecules: A Competition between Franck-Condon and Nuclear Ensemble Methods. <i>Journal of Physical Chemistry A</i> , <b>2016</b> , 120, 5380-8	2.8	9
65	Calculation of the H <sub>2</sub> <sup>+</sup> rovibrational energies and spectroscopic constants in the 2p <sup>3</sup> d <sup>4</sup> f <sup>4</sup> and 6i <sup>7</sup> electronic states. <i>International Journal of Quantum Chemistry</i> , <b>2012</b> , 112, 829-833	2.1	8
64	Increase of the positronium lifetime under high-frequency, intense laser fields. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , <b>2009</b> , 42, 055601	1.3	8
63	Large room-temperature valley polarization by valley-selective switching of exciton ground state. <i>Physical Review B</i> , <b>2020</b> , 101,	3.3	7

62	Spin-Orbit Effects on the Dynamical Properties of Polarons in Graphene Nanoribbons. <i>Scientific Reports</i> , <b>2018</b> , 8, 1914	4.9	7
61	Stability conditions of armchair graphene nanoribbon bipolarons. <i>Journal of Molecular Modeling</i> , <b>2019</b> , 25, 245	2	7
60	Stokes shift in one-side modulation-n-doped-strained GaIn <sub>1-x</sub> As/InP asymmetric quantum well. <i>Superlattices and Microstructures</i> , <b>1999</b> , 26, 377-394	2.8	7
59	Ultrasonic Attenuation in Semiconductor Quantum Heterostructures under a High Magnetic Field. <i>Physica Status Solidi (B): Basic Research</i> , <b>1995</b> , 189, 117-128	1.3	7
58	Plasma heating by two laser fields. <i>Physical Review A</i> , <b>1988</b> , 38, 4732-4736	2.6	7
57	Concentration effects on intrachain polaron recombination in conjugated polymers. <i>Physical Chemistry Chemical Physics</i> , <b>2015</b> , 17, 1299-308	3.6	6
56	Encapsulated $\beta$ -carotene in ZnO nanotubes: Theoretical insight into the stabilization dynamics. <i>Chemical Physics Letters</i> , <b>2015</b> , 636, 62-66	2.5	6
55	Intrasubband spin-flip relaxation by one-magnon processes in Cd <sub>1-x</sub> MnxTe quantum wells. <i>Physical Review B</i> , <b>2003</b> , 68,	3.3	6
54	Laser-Dressed Sound Absorption Coefficient in Superlattice Structures. <i>Physica Status Solidi (B): Basic Research</i> , <b>1993</b> , 179, K17-K20	1.3	6
53	Screening effect on the inverse bremsstrahlung in a plasma in the presence of two laser fields. <i>Physical Review A</i> , <b>1989</b> , 40, 311-314	2.6	6
52	Crossed-second-order specific-mass isotope shift in the Nickel atom. <i>Zeitschrift für Physik A</i> , <b>1983</b> , 314, 275-282		6
51	Phonon amplification in a quasi-one-dimensional GaAs quantum channel. <i>Superlattices and Microstructures</i> , <b>2002</b> , 32, 49-57	2.8	5
50	Rovibrational energies and spectroscopic constants of the H system in the electronic states $1S^{\sigma} 7i^{\sigma} 5f^{\sigma} 5g^{\sigma} 6i^{\sigma}$ and $6i^{\sigma}$ ?. <i>International Journal of Quantum Chemistry</i> , <b>2008</b> , 108, 2398-2402	2.1	4
49	Calculation of electronic energies and vibrational levels of molecular ions from the Hamilton-Jacobi equation: H <sub>2</sub> <sup>+</sup> , D <sub>2</sub> <sup>+</sup> , T <sub>2</sub> <sup>+</sup> , HD <sup>+</sup> and DT <sup>+</sup> . <i>Computational and Theoretical Chemistry</i> , <b>2006</b> , 769, 39-46		4
48	Korringa relaxation time of magnetic ion system near a two-dimensional electron gas. <i>Solid State Communications</i> , <b>2004</b> , 129, 605-608	1.6	4
47	Effect of non-abrupt doping profiles on the carrier sheet density in one-side modulation-doped GaAs/AlGaAs quantum wells. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , <b>2004</b> , 1, S215-S218		4
46	Different approach to the Zeeman effect: Application to the hydrogen ground state. <i>Physical Review A</i> , <b>1994</b> , 50, 4383-4385	2.6	4
45	Combined UMC- DFT prediction of electron-hole coupling in unit cells of pentacene crystals. <i>Journal of Molecular Modeling</i> , <b>2017</b> , 23, 153	2	3

44	Electron-phonon coupling in armchair silicene nanoribbons. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , <b>2019</b> , 383, 125954	2.3	3
43	Variational results for electron mobility in modulation-doped In <sub>0.53</sub> Ga <sub>0.47</sub> As/InP single symmetric quantum wells. <i>Microelectronics Journal</i> , <b>2005</b> , 36, 1016-1019	1.8	3
42	Screening Breakdown in a Plasma by Two Laser Fields and Strong DC Magnetic Field. <i>Contributions To Plasma Physics</i> , <b>2005</b> , 45, 22-31	1.4	3
41	Photostimulated impurity absorption of ultrasound in semiconductor nanostructures. <i>Journal of Applied Physics</i> , <b>1998</b> , 84, 2420-2425	2.5	3
40	Plasmon Instability under Four External Fields. <i>Journal of the Physical Society of Japan</i> , <b>1998</b> , 67, 4098-4103	1.0	3
39	Plasma-wave instability in the presence of two laser fields. <i>Physical Review A</i> , <b>1989</b> , 40, 4107-4109	2.6	3
38	Refined MCHF evaluations of field isotope shift and hyperfine structure in the calcium atom. <i>Zeitschrift für Physik A</i> , <b>1984</b> , 318, 13-18		3
37	Electron-phonon coupling effects on intrachain polaron recombination in conjugated polymers. <i>Journal of Molecular Modeling</i> , <b>2017</b> , 23, 42	2	2
36	H <sub>2</sub> <sup>+</sup> dynamical properties in the electronic states 7j and 8jp. <i>International Journal of Quantum Chemistry</i> , <b>2011</b> , 111, 1316-1320	2.1	2
35	Magnetomagnon resonances and oscillations of conductivity in diluted magnetic semiconductor quantum wires. <i>Journal of Applied Physics</i> , <b>2007</b> , 102, 113719	2.5	2
34	Effect of residual acceptors on electron mobility in single asymmetric quantum wells. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>2003</b> , 17, 322-323	3	2
33	Interface effects in modulation-doped GaAs/AlGaAs single quantum wells and superlattices. <i>Microelectronics Journal</i> , <b>2005</b> , 36, 359-361	1.8	2
32	Photoinduced amplification of hypersound in superlattices. <i>Solid State Communications</i> , <b>2001</b> , 120, 47-51	1.6	2
31	The phonon-assisted photon-drag effect in a two-dimensional semiconductor quantum-well structure. <i>Superlattices and Microstructures</i> , <b>2001</b> , 29, 33-42	2.8	2
30	Thermoelectric amplification of phonons in bulk semiconductors under a strong magnetic field. <i>Journal of Applied Physics</i> , <b>1996</b> , 80, 2854-2859	2.5	2
29	Plasmon instability in two laser fields under a strong magnetic field. <i>Physical Review A</i> , <b>1990</b> , 42, 7421-7426	1.6	2
28	Ab initio evaluation of hyperfine-structure electronic parameters in the iron atom. <i>Journal De Physique</i> , <b>1984</b> , 45, 885-888		2
27	Experimental and theoretical description of the optical properties of Myrcia sylvatica essential oil. <i>Journal of Molecular Modeling</i> , <b>2017</b> , 23, 196	2	2

26	Bloch oscillations in organic and inorganic polymers. <i>Journal of Chemical Physics</i> , <b>2017</b> , 146, 144903	3.9	1
25	Dynamic Formation of Bipolaron-Exciton Complexes in Conducting Polymers. <i>Journal of Physical Chemistry A</i> , <b>2018</b> , 122, 3866-3872	2.8	1
24	A 2D spinless version of Dirac equation written in a noninertial frame of reference. <i>International Journal of Quantum Chemistry</i> , <b>2011</b> , 111, 1361-1369	2.1	1
23	Spin wave amplification in antiferromagnetic semiconductors stimulated by infrared laser field. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , <b>2001</b> , 286, 353-356	2.3	1
22	Low-temperature photon-drag effect in magnetic semiconductors. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , <b>2000</b> , 266, 421-424	2.3	1
21	Magnon instability in bulk magnetic semiconductors in two laser fields under quantizing magnetic fields. <i>Solid State Communications</i> , <b>1996</b> , 97, 63-69	1.6	1
20	Plasmon instability in the simultaneous presence of laser and dc electric fields. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , <b>1991</b> , 155, 159-161	2.3	1
19	Possible equivalence of the polynomial method and the variational calculation. <i>Physical Review A</i> , <b>1991</b> , 44, 4747-4750	2.6	1
18	A Variational Approach for Numerically Solving the Two-Component Radial Dirac Equation for One-Particle Systems. <i>Journal of Modern Physics</i> , <b>2012</b> , 03, 350-354	0.5	0
17	Robust Topological Nodal-Line Semimetals from Periodic Vacancies in Two-Dimensional Materials. <i>Journal of Physical Chemistry Letters</i> , <b>2021</b> , 12, 5710-5715	6.4	0
16	Modeling optical properties of polymer-solvent complexes: the chloroform influence on the P3HT and N2200 absorption spectra. <i>Journal of Molecular Modeling</i> , <b>2017</b> , 23, 37	2	
15	Collective modes in free plasmas subjected to a radiation field. <i>Journal of Physics: Conference Series</i> , <b>2014</b> , 511, 012005	0.3	
14	Quenching of magnetization in (III, Mn)V magnetic semiconductor quantum wells under intense laser field assisted by the quasi-two-dimensional electron gas. <i>Solid State Communications</i> , <b>2010</b> , 150, 1082-1087	1.6	
13	Photoinduced phonon fluorescence in GaAs/Al <sub>x</sub> Ga <sub>1-x</sub> As quantum wells. <i>Solid State Communications</i> , <b>1998</b> , 108, 743-748	1.6	
12	Suppression of the plasma high-frequency electrical conductivity under a radiation field. <i>Journal of Physics A: Mathematical and Theoretical</i> , <b>2007</b> , 40, 15131-15141	2	
11	New approach using the relativistic Hamilton-Jacobi equation to evaluate the correct energy levels for the hydrogen atom. <i>International Journal of Quantum Chemistry</i> , <b>2006</b> , 106, 2779-2789	2.1	
10	Introducing the effect of spin in the Hamilton-Jacobi equation: Application in the hydrogen atom. <i>Computational and Theoretical Chemistry</i> , <b>2006</b> , 769, 27-31		
9	Transverse magnetoconductivity of quasi-two-dimensional semiconductor layers in the presence of magnon scattering. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , <b>2004</b> , 1, S256-S262		

- 8 Korringa relaxation rate of manganese ion in the presence of a two-dimensional electron gas. *Physica Status Solidi C: Current Topics in Solid State Physics*, **2004**, 1, S272-S276
- 7 Magneto-quantum oscillations of the Korringa relaxation rate of manganese ion near a two-dimensional electron gas. *Microelectronics Journal*, **2005**, 36, 1041-1044 1.8
- 6 Transverse magneto-conductivity of diluted magnetic semiconductor quantum wires. *Physica Status Solidi C: Current Topics in Solid State Physics*, **2005**, 2, 3145-3148
- 5 Relaxation rate of manganese ion in the presence of a two-dimensional electron gas. *Physica Status Solidi C: Current Topics in Solid State Physics*, **2005**, 2, 3149-3152
- 4 Plasmon Instability in Strong Magnetic Fields. *Journal of the Physical Society of Japan*, **1996**, 65, 3871-3876
- 3 Amplification of interface phonons in quantum well systems in two laser fields. *Physica Status Solidi (B): Basic Research*, **1996**, 197, 359-367 1.3
- 2 LO-Phonon Instability in Semiconductors in the Presence of Two Laser Fields Plus DC Strong Magnetic Field. *Physica Status Solidi (B): Basic Research*, **1994**, 184, 333-340 1.3
- 1 Quantization and Stable Attractors in a Dissipative Orbital Motion. *Journal of Modern Physics*, **2011**, 02, 219-224 0.5