

Geraldo M E Silva

List of Publications by Year in Descending Order

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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.

57
papers

609
citations

15
h-index

22
g-index

59
ext. papers

632
ext. citations

2.6
avg, IF

3.58
L-index

#	Paper	IF	Citations
57	Bosonic Charge Carriers in Necklace-like Graphene Nanoribbons. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 5538-5543	6.4	1
56	Polaron Properties in Armchair Graphene Nanoribbons. <i>Journal of Physical Chemistry A</i> , 2016 , 120, 4893-4900	6.0	18
55	Investigation of the Abstraction and Dissociation Mechanism in the Nitrogen Trifluoride Channels: Combined Post-Hartree-Fock and Transition State Theory Approaches. <i>Journal of Physical Chemistry A</i> , 2016 , 120, 5464-73	2.8	8
54	CO ₂ adsorption on single-walled boron nitride nanotubes containing vacancy defects. <i>RSC Advances</i> , 2015 , 5, 27412-27420	3.7	23
53	H ₂ O ⁺ dynamics predictions using an accurate potential energy surface. <i>Molecular Physics</i> , 2015 , 1-6	1.7	1
52	A detailed reactive cross section study of X + Li ₂ → Li + LiX, with X = H, D, T, and Mu. <i>Journal of Molecular Modeling</i> , 2014 , 20, 2315	2	3
51	Rovibrational energies and spectroscopic constants for H ₂ O-Ng complexes. <i>Journal of Molecular Modeling</i> , 2014 , 20, 2498	2	13
50	Effects of temperature and electric field induced phase transitions on the dynamics of polarons and bipolarons. <i>New Journal of Chemistry</i> , 2013 , 37, 2829	3.6	41
49	Impurity effects and temperature influence on the exciton dissociation dynamics in conjugated polymers. <i>Chemical Physics Letters</i> , 2013 , 580, 108-114	2.5	19
48	Predicting the equilibrium structure of organic semiconductors with genetic algorithms. <i>Chemical Physics Letters</i> , 2013 , 555, 168-172	2.5	15
47	Influence of the photoexcitation process on the dynamics of triplet excitons in organic polymers. <i>Computational and Theoretical Chemistry</i> , 2013 , 1018, 91-94	2	
46	Vibrational and electronic structure analysis of a carbon dioxide interaction with functionalized single-walled carbon nanotubes. <i>Journal of Physical Chemistry A</i> , 2013 , 117, 2854-61	2.8	17
45	Spectroscopic properties of the molecular ion in the 8k ⁺ and 10o ⁺ electronic states. <i>Journal of Molecular Spectroscopy</i> , 2012 , 273, 26-29	1.3	11
44	Dynamics of Photogenerated Polaron-Excitons in Organic Semiconductors. <i>Physics Procedia</i> , 2012 , 28, 112-116		14
43	Supersonic quasi-particles dynamics in organic semiconductors. <i>Chemical Physics Letters</i> , 2012 , 550, 146-149	1.9	5
42	Electron-Lattice Coupling in Armchair Graphene Nanoribbons. <i>Journal of Physical Chemistry Letters</i> , 2012 , 3, 3039-42	6.4	36
41	Temperature-induced oscillating electric dipole in conjugated systems. <i>Chemical Physics Letters</i> , 2012 , 539-540, 214-217	2.5	8

40	The H + Li ₂ bimolecular exchange reaction: dynamical and kinetical properties at J = 0. <i>Journal of Chemical Physics</i> , 2012 , 136, 134319	3.9	14
39	H ₂ + dynamical properties in the electronic states 7j and 8k and 8jp. <i>International Journal of Quantum Chemistry</i> , 2011 , 111, 1316-1320	2.1	2
38	Thermal rate constant calculation of the NF + F reactive system multiple arrangements. <i>Journal of Physical Chemistry A</i> , 2011 , 115, 8248-54	2.8	2
37	Exciton dissociation and charge carrier recombination processes in organic semiconductors. <i>Journal of Chemical Physics</i> , 2011 , 135, 224901	3.9	30
36	Theoretical calculations of a new potential energy surface for the H + Li ₂ reaction. <i>Chemical Physics Letters</i> , 2010 , 490, 123-126	2.5	15
35	Thermal effects on photogeneration of free carriers in organic conductors. <i>Chemical Physics Letters</i> , 2010 , 493, 283-287	2.5	22
34	Dynamical properties and thermal rate coefficients for the Na + HF reaction using genetic algorithm. <i>International Journal of Quantum Chemistry</i> , 2010 , 110, 1070-1079	2.1	3
33	Thermal rate coefficients calculation for the H+ + LiH reaction. <i>International Journal of Quantum Chemistry</i> , 2010 , 110, 2024-2028	2.1	5
32	Theoretical temperature dependence of the charge-carrier mobility in semiconducting polymers. <i>Journal of Physical Chemistry A</i> , 2009 , 113, 14591-4	2.8	20
31	A computational investigation of the multiple channels of the NF ₂ + F reaction. <i>Journal of Physical Chemistry A</i> , 2009 , 113, 14336-42	2.8	3
30	Charge carrier untrapping by temperature effects in conjugated polymers. <i>Europhysics Letters</i> , 2009 , 88, 67006	1.6	16
29	Theoretical investigation of carotenoid ultraviolet spectra. <i>International Journal of Quantum Chemistry</i> , 2009 , 109, 739-745	2.1	34
28	Molecular dynamics investigation of charge carrier density influence over mobility in conjugated polymers. <i>Journal of Physical Chemistry A</i> , 2009 , 113, 14975-8	2.8	15
27	Quantum Monte Carlo and genetic algorithm study of the potential energy surface of the H molecule. <i>International Journal of Quantum Chemistry</i> , 2008 , 108, 2318-2325	2.1	6
26	Quantum reactive study of a potential energy surface obtained via genetic algorithm. <i>International Journal of Quantum Chemistry</i> , 2008 , 108, 2306-2311	2.1	0
25	Chain length effects on nonlinear excitation transitions in trans-polyacetylene. <i>International Journal of Quantum Chemistry</i> , 2008 , 108, 2507-2511	2.1	2
24	Dynamics of photoexcitations with interchain coupling in conjugated polymers. <i>International Journal of Quantum Chemistry</i> , 2008 , 108, 2442-2447	2.1	3
23	Rovibrational energies and spectroscopic constants of the H system in the electronic states 1S and 7i and 5f and 6i and 6i?. <i>International Journal of Quantum Chemistry</i> , 2008 , 108, 2398-2402	2.1	4

22	Temperature effects on polaron stability in polyacetylene. <i>International Journal of Quantum Chemistry</i> , 2008 , 108, 2448-2453	2.1	10
21	Photo-generation of polaron pairs in coupled chains of polyacetylene. <i>Computational and Theoretical Chemistry</i> , 2008 , 852, 11-14		3
20	Dynamical evolution of polaron to bipolaron in conjugated polymers. <i>Physical Review B</i> , 2006 , 74,	3.3	50
19	Effects of impurities on polaron dynamics in conjugated polymers: Effective potentials. <i>International Journal of Quantum Chemistry</i> , 2006 , 106, 2597-2602	2.1	3
18	Polaron stability under collision with different defects in conjugated polymers. <i>International Journal of Quantum Chemistry</i> , 2006 , 106, 2603-2608	2.1	3
17	Fitting potential energy surface of reactive systems via genetic algorithm. <i>International Journal of Quantum Chemistry</i> , 2006 , 106, 2650-2657	2.1	10
16	Impurity effects on solitons in conjugated polymer linking model hamiltonians and ab initio method descriptions. <i>Computational and Theoretical Chemistry</i> , 2006 , 769, 33-37		
15	A genetic algorithm to build diatomic potentials. <i>Computational and Theoretical Chemistry</i> , 2006 , 769, 47-51		8
14	Interaction of Torsional Oscillations with Polarons and Bipolarons in Conjugated Polymer. <i>Synthetic Metals</i> , 2005 , 153, 493-496	3.6	2
13	Structural phases of coupled polyacetylene chains with impurities. <i>International Journal of Quantum Chemistry</i> , 2005 , 103, 597-603	2.1	1
12	Quantum-controlled NOT gate made of coupled polyacetylene chains. <i>International Journal of Quantum Chemistry</i> , 2005 , 103, 543-549	2.1	1
11	Linking model Hamiltonians to ab initio and semiempirical methods in descriptions of impurities in conjugated polymers. <i>International Journal of Quantum Chemistry</i> , 2005 , 103, 537-542	2.1	3
10	Dynamic interaction between polarons and torsional vibrations in conjugated polymers. <i>International Journal of Quantum Chemistry</i> , 2005 , 103, 604-609	2.1	4
9	Dynamics of polarons and bipolarons with interchain coupling in conjugated polymers. <i>International Journal of Quantum Chemistry</i> , 2003 , 95, 153-158	2.1	9
8	Quantum bits with polyacetylene. <i>Journal of Computational Chemistry</i> , 2002 , 23, 870-3	3.5	1
7	Use of polarons and bipolarons in logical switches based on conjugated polymers. <i>Physical Review B</i> , 2002 , 65,	3.3	32
6	Dynamical effects on the competition between polarons and bipolarons in conjugated polymers. <i>Computational and Theoretical Chemistry</i> , 2001 , 539, 45-53		
5	Logical switching with the use of bipolarons in conjugated polymers. <i>Computational and Theoretical Chemistry</i> , 2001 , 539, 55-64		4

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| 4 | Dynamics of charge propagation on molecular circuits. <i>Computational and Theoretical Chemistry</i> , 1999 , 464, 67-72 | | 4 |
| 3 | Nonlinear excitations dynamics in molecular switches. <i>Synthetic Metals</i> , 1997 , 86, 2245-2246 | 3.6 | 2 |
| 2 | Dynamics of solitons in polyacetylene with interchain coupling. <i>Physical Review B</i> , 1993 , 47, 12568-12577 | 3.3 | 26 |
| 1 | A moving soliton in the TLM model. <i>Synthetic Metals</i> , 1991 , 43, 3713-3716 | 3.6 | 2 |