

Demetrio Da Silva Filho

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.

85
papers

10,517
citations

29
h-index

96
g-index

96
ext. papers

11,166
ext. citations

5.9
avg, IF

5.79
L-index

#	Paper	IF	Citations
85	Long-range parameter optimization for a better description of potential energy surfaces using Density Functional Theory.. <i>Journal of Molecular Modeling</i> , 2022 , 28, 121	2	0
84	On the electronic structure of a recently synthesized graphene-like BCN monolayer from bis-BN cyclohexane with single-atom vacancies: a DFT study. <i>Electronic Structure</i> , 2021 , 3, 014006	2.6	0
83	Charge localization and hopping in a topologically engineered graphene nanoribbon. <i>Scientific Reports</i> , 2021 , 11, 5142	4.9	2
82	Interfacial Bulk Properties of Hole-Transporting Materials for Perovskite Solar Cells: Isomeric Triphenylamine-Based Enamines Spiro-OMeTAD. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 21320-21330	9.5	2
81	A DFT study on the electronic structure of in-plane heterojunctions of graphene and hexagonal boron nitride nanoribbons. <i>Electronic Structure</i> , 2021 , 3, 024005	2.6	0
80	Theoretical prediction of electron mobility in birhodanine crystals and their sulfur analogs. <i>Chemical Physics Letters</i> , 2021 , 763, 138226	2.5	
79	. <i>IEEE Access</i> , 2021 , 9, 129605-129618	3.5	2
78	Work function difference of naphthyl end-capped oligothiophene in different crystal alignments studied by Kelvin probe force microscopy. <i>Organic Electronics</i> , 2021 , 89, 106060	3.5	1
77	Assessing the effects of increasing conjugation length on exciton diffusion: from small molecules to the polymeric limit. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 15635-15644	3.6	1
76	On the Physical Origins of Charge Separation at Donor-Acceptor Interfaces in Organic Solar Cells: Energy Bending versus Energy Disorder. <i>Advanced Theory and Simulations</i> , 2020 , 3, 1900230	3.5	6
75	A Genetic Algorithm Approach to Design Principles for Organic Photovoltaic Materials. <i>Advanced Theory and Simulations</i> , 2020 , 3, 2000042	3.5	1
74	Kinetic Monte Carlo model for the COVID-19 epidemic: Impact of mobility restriction on a COVID-19 outbreak. <i>Physical Review E</i> , 2020 , 102, 032133	2.4	4
73	Dynamical exciton decay in organic materials: the role of bimolecular recombination. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 1711-1716	3.6	1
72	Fast predictions of exciton diffusion length in organic materials. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 4066-4071	7.1	9
71	Role of Exciton Density in Organic Materials: Diffusion Length, Lifetime, and Quantum Efficiency. <i>Chemistry of Materials</i> , 2019 , 31, 6818-6823	9.6	6
70	Hemilabile bonding of 1-oxa-4,7-dithiacyclononane in cyclometallated palladium(ii) complexes. <i>Dalton Transactions</i> , 2019 , 48, 11520-11535	4.3	1
69	Electronic couplings and rates of excited state charge transfer processes at poly(thiophene-co-quinoxaline)-PCBM interfaces: two- versus multi-state treatments. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 25606-25625	3.6	4

68	Biexciton cascade emission in multilayered organic nanofibers. <i>Applied Physics Letters</i> , 2018 , 112, 143301	3.4	6
67	Modeling temperature dependent singlet exciton dynamics in multilayered organic nanofibers. <i>Journal of Chemical Physics</i> , 2018 , 148, 204101	3.9	7
66	Exciton Diffusion in Organic Nanofibers: A Monte Carlo Study on the Effects of Temperature and Dimensionality. <i>Scientific Reports</i> , 2018 , 8, 14066	4.9	8
65	Modeling optical properties of polymer-solvent complexes: the chloroform influence on the P3HT and N2200 absorption spectra. <i>Journal of Molecular Modeling</i> , 2017 , 23, 37	2	
64	Can Fluorenone-Based Compounds Emit in the Blue Region? Impact of the Conjugation Length and the Ground-State Aggregation. <i>Chemistry of Materials</i> , 2017 , 29, 1695-1707	9.6	29
63	Optimally tuned functionals improving the description of optical and electronic properties of the phthalocyanine molecule. <i>Journal of Molecular Modeling</i> , 2017 , 23, 71	2	10
62	Optical and electronic structure description of metal-doped phthalocyanines. <i>Journal of Molecular Modeling</i> , 2017 , 23, 172	2	1
61	Combined UMC- DFT prediction of electron-hole coupling in unit cells of pentacene crystals. <i>Journal of Molecular Modeling</i> , 2017 , 23, 153	2	3
60	Mobility field and mobility temperature dependence in PC61BM: A kinetic Monte-Carlo study. <i>Chemical Physics Letters</i> , 2017 , 689, 74-81	2.5	7
59	Optical properties of P3HT and N2200 polymers: a performance study of an optimally tuned DFT functional. <i>Journal of Molecular Modeling</i> , 2017 , 24, 32	2	1
58	Modelling charge transport of discotic liquid-crystalline triindoles: the role of peripheral substitution. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 24202-24208	3.6	7
57	A DFT study of a set of natural dyes for organic electronics. <i>Journal of Molecular Modeling</i> , 2017 , 23, 3432		12
56	A joint theoretical and experimental characterization of two acene-thiophene derivatives. <i>Journal of Molecular Modeling</i> , 2017 , 23, 52	2	1
55	Experimental and theoretical description of the optical properties of Myrcia sylvatica essential oil. <i>Journal of Molecular Modeling</i> , 2017 , 23, 196	2	2
54	Strong Solvent Effects on the Nonlinear Optical Properties of Z and E Isomers from Azo-Enaminone Derivatives. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 17660-17669	3.8	38
53	Improving the Description of the Optical Properties of Carotenoids by Tuning the Long-Range Corrected Functionals. <i>Journal of Physical Chemistry A</i> , 2016 , 120, 4944-50	2.8	25
52	Synthesis, Structure, Properties, and Bioimaging of a Fluorescent Nitrogen-Linked Bisbenzothiadiazole. <i>Journal of Organic Chemistry</i> , 2016 , 81, 2958-65	4.2	12
51	Low-Temperature Seebeck Coefficients for Polaron-Driven Thermoelectric Effect in Organic Polymers. <i>Journal of Physical Chemistry A</i> , 2016 , 120, 4923-7	2.8	7

50	Modeling the Emission Spectra of Organic Molecules: A Competition between Franck-Condon and Nuclear Ensemble Methods. <i>Journal of Physical Chemistry A</i> , 2016 , 120, 5380-8	2.8	9
49	Efficient Exciton Diffusion and Resonance-Energy Transfer in Multilayered Organic Epitaxial Nanofibers. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 15689-15697	3.8	9
48	Limit of Exciton Diffusion in Highly Ordered π -Conjugated Systems. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 19654-19659	3.8	10
47	Structure and Disorder in Squaraine π 60 Organic Solar Cells: A Theoretical Description of Molecular Packing and Electronic Coupling at the Donor-Acceptor Interface. <i>Advanced Functional Materials</i> , 2014 , 24, 3790-3798	15.6	38
46	Designed non-symmetrical 4,7-pi-extended-2,1,3-benzothiadiazole derivatives: Synthesis guided by DFT predictions. <i>Journal of Physical Organic Chemistry</i> , 2014 , 27, 303-309	2.1	17
45	Interplay of alternative conjugated pathways and steric interactions on the electronic and optical properties of donor-acceptor conjugated polymers. <i>Journal of Materials Chemistry C</i> , 2014 , 2, 8873-8879	7.1	22
44	Design, synthesis and application of fluorescent 2,1,3-benzothiadiazole-triazole-linked biologically active lapachone derivatives. <i>New Journal of Chemistry</i> , 2014 , 38, 2569	3.6	43
43	Symmetry Lowering in Triindoles: Impact on the Electronic and Photophysical Properties. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 5470-5477	3.8	21
42	Investigation of the torsional barrier of EDOT using molecular mechanics and DFT methods. <i>Journal of Molecular Modeling</i> , 2014 , 20, 2405	2	2
41	Amplified Spontaneous Emission in Pentathienoacene Dioxides by Direct Optical Pump and by Energy Transfer: Correlation with Photophysical Parameters. <i>Advanced Optical Materials</i> , 2013 , 1, 588-599	8.1	9
40	Intramolecular reorganization energy in zinc phthalocyanine and its fluorinated derivatives: a joint experimental and theoretical study. <i>Chemical Communications</i> , 2013 , 49, 6069-71	5.8	24
39	Charge-transport in Organic Semiconductors: Probing High Mobility with Light. <i>Materials Research Society Symposia Proceedings</i> , 2013 , 1568, 1		
38	Temperature-induced oscillating electric dipole in conjugated systems. <i>Chemical Physics Letters</i> , 2012 , 539-540, 214-217	2.5	8
37	Exciton dissociation and charge carrier recombination processes in organic semiconductors. <i>Journal of Chemical Physics</i> , 2011 , 135, 224901	3.9	30
36	Tuning the charge-transport parameters of perylene diimide single crystals via end and/or core functionalization: a density functional theory investigation. <i>Journal of the American Chemical Society</i> , 2010 , 132, 3375-87	16.4	293
35	Regiochemistry of Poly(3-hexylthiophene): Synthesis and Investigation of a Conducting Polymer. <i>Journal of Chemical Education</i> , 2010 , 87, 522-525	2.4	20
34	Theoretical characterization of charge transport in one-dimensional collinear arrays of organic conjugated molecules. <i>ChemPhysChem</i> , 2010 , 11, 1062-8	3.2	34
33	Comparison of thiophene-pyrrole oligomers with oligothiophenes: a joint experimental and theoretical investigation of their structural and spectroscopic properties. <i>Chemistry - A European Journal</i> , 2010 , 16, 6866-76	4.8	27

32	Influence of intermolecular vibrations on the electronic coupling in organic semiconductors: the case of anthracene and perfluoropentacene. <i>ChemPhysChem</i> , 2009 , 10, 2265-73	3.2	69
31	Inside Cover: Influence of Intermolecular Vibrations on the Electronic Coupling in Organic Semiconductors: The Case of Anthracene and Perfluoropentacene (ChemPhysChem 13/2009). <i>ChemPhysChem</i> , 2009 , 10, 2158-2158	3.2	
30	Charge transport in oligo phenylene and phenylene-thiophene nanofibers. <i>Organic Electronics</i> , 2009 , 10, 1228-1234	3.5	27
29	Impact of perfluorination on the charge-transport parameters of oligoacene crystals. <i>Journal of the American Chemical Society</i> , 2009 , 131, 1502-12	16.4	165
28	Cyclometallated Pt(II) and Pd(II) complexes with a trithiacrown ligand. <i>Dalton Transactions</i> , 2008 , 1872-84.3	3.2	
27	Modeling Electron and Hole Transport in Fluoroarene-Oligothiophene Semiconductors: Investigation of Geometric and Electronic Structure Properties. <i>Advanced Functional Materials</i> , 2008 , 18, 332-340	15.6	104
26	Cooperative CH \cdots Interactions in the Crystal Structure of 2,5-Di(3-biphenyl)-1,1-dimethyl-3,4-diphenyl-silole and Its Effect on Its Electronic Properties. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 9543-9547	3.8	21
25	Charge transport in organic semiconductors. <i>Chemical Reviews</i> , 2007 , 107, 926-52	68.1	3363
24	Hole-vibronic coupling in oligothiophenes: impact of backbone torsional flexibility on relaxation energies. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2007 , 365, 1435-52	3	56
23	Vibronic coupling in the ground and excited states of oligoacene cations. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 18904-11	3.4	128
22	Effect of electronic polarization on charge-transport parameters in molecular organic semiconductors. <i>Journal of the American Chemical Society</i> , 2006 , 128, 9882-6	16.4	652
21	N- and P-channel transport behavior in thin film transistors based on tricyanovinyl-capped oligothiophenes. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 14590-7	3.4	57
20	Synthesis, X-ray, spectroelectrochemical, and theoretical studies of a tricyanovinyl-capped quaterthiophene: A correlation of semiconductor performance with physical properties. <i>Chemical Physics Letters</i> , 2006 , 425, 251-256	2.5	6
19	Shallow trap states in pentacene thin films from molecular sliding. <i>Applied Physics Letters</i> , 2005 , 86, 1521-15	3.15	128
18	Transport Properties in the Rubrene Crystal: Electronic Coupling and Vibrational Reorganization Energy. <i>Advanced Materials</i> , 2005 , 17, 1072-1076	24	384
17	Introduction to Organic Thin Film Transistors and Design of n-Channel Organic Semiconductors. <i>Chemistry of Materials</i> , 2004 , 16, 4436-4451	9.6	1159
16	Charge transport properties in discotic liquid crystals: a quantum-chemical insight into structure-property relationships. <i>Journal of the American Chemical Society</i> , 2004 , 126, 3271-9	16.4	432
15	Molecular hosts for triplet emission in light emitting diodes: A quantum-chemical study. <i>Chemical Physics Letters</i> , 2004 , 392, 521-528	2.5	48

14	Preparation and characterization of pi-stacking quinodimethane oligothiophenes. Predicting semiconductor behavior and bandwidths from crystal structures and molecular orbital calculations. <i>Journal of the American Chemical Society</i> , 2004 , 126, 15295-308	16.4	120
13	Organic Thin Film Transistors Based on N-Alkyl Perylene Diimides: Charge Transport Kinetics as a Function of Gate Voltage and Temperature. <i>Journal of Physical Chemistry B</i> , 2004 , 108, 19281-19292	3.4	383
12	Vibronic coupling in the ground and excited states of the naphthalene cation. <i>Chemical Communications</i> , 2004 , 1702-3	5.8	29
11	A multimode analysis of the gas-phase photoelectron spectra in oligoacenes. <i>Journal of Chemical Physics</i> , 2004 , 120, 7490-6	3.9	152
10	Three-dimensional band structure and bandlike mobility in oligoacene single crystals: A theoretical investigation. <i>Journal of Chemical Physics</i> , 2003 , 118, 3764-3774	3.9	344
9	Influence of apolar group structure on the properties of Langmuir monolayers of polyphenyl carboxylic acids. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2002 , 198-200, 141-150	5.1	1
8	Organic semiconductors: a theoretical characterization of the basic parameters governing charge transport. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002 , 99, 5804-9	11.5	1034
7	Hole- and electron-vibrational couplings in oligoacene crystals: intramolecular contributions. <i>Physical Review Letters</i> , 2002 , 89, 275503	7.4	359
6	The vibrational reorganization energy in pentacene: molecular influences on charge transport. <i>Journal of the American Chemical Society</i> , 2002 , 124, 7918-9	16.4	376
5	Structural Modification Influences the Characteristics of Langmuir Monolayers from Aromatic Carboxylic Acids. <i>Journal of Colloid and Interface Science</i> , 2001 , 239, 158-167	9.3	3
4	Quantitative treatment of surface potentials in Langmuir films from aromatic amphiphiles. <i>Chemical Physics Letters</i> , 2001 , 337, 11-17	2.5	13
3	Dipole moments in Langmuir monolayers from aromatic carboxylic acids. <i>Chemical Physics Letters</i> , 2000 , 326, 39-44	2.5	11
2	Molecular hyperpolarizabilities of retinal derivatives. <i>Journal of Chemical Physics</i> , 1999 , 111, 5102-5106	3.9	10
1	A comparative study of the hyperpolarizabilities of solitonic chains. <i>Synthetic Metals</i> , 1999 , 102, 1584	3.6	1