

Demetrio Da Silva Filho

List of Publications by Citations

Source: <https://exaly.com/author-pdf/5795331/demetrio-da-silva-filho-publications-by-citations.pdf>

Version: 2024-04-27

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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	Charge transport in organic semiconductors. <i>Chemical Reviews</i> , 2007 , 107, 926-52	68.1	3363
84	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
83	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
82	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
81	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
80	Transport Properties in the Rubrene Crystal: Electronic Coupling and Vibrational Reorganization Energy. <i>Advanced Materials</i> , 2005 , 17, 1072-1076	24	384
79	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
78	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
77	Hole- and electron-vibrational couplings in oligoacene crystals: intramolecular contributions. <i>Physical Review Letters</i> , 2002 , 89, 275503	7.4	359
76	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
75	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
74	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
73	A multimode analysis of the gas-phase photoelectron spectra in oligoacenes. <i>Journal of Chemical Physics</i> , 2004 , 120, 7490-6	3.9	152
72	Shallow trap states in pentacene thin films from molecular sliding. <i>Applied Physics Letters</i> , 2005 , 86, 1521-15	11.5	128
71	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
70	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
69	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

68	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
67	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
66	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
65	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
64	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
63	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
62	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
61	Theoretical characterization of charge transport in one-dimensional collinear arrays of organic conjugated molecules. <i>ChemPhysChem</i> , 2010 , 11, 1062-8	3.2	34
60	Cyclometallated Pt(II) and Pd(II) complexes with a trithiacrown ligand. <i>Dalton Transactions</i> , 2008 , 1872-82.3	3.3	32
59	Exciton dissociation and charge carrier recombination processes in organic semiconductors. <i>Journal of Chemical Physics</i> , 2011 , 135, 224901	3.9	30
58	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
57	Vibronic coupling in the ground and excited states of the naphthalene cation. <i>Chemical Communications</i> , 2004 , 1702-3	5.8	29
56	Charge transport in oligo phenylene and phenylene π thiophene nanofibers. <i>Organic Electronics</i> , 2009 , 10, 1228-1234	3.5	27
55	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
54	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
53	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
52	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
51	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

50	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
49	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
48	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
47	Quantitative treatment of surface potentials in Langmuir films from aromatic amphiphiles. <i>Chemical Physics Letters</i> , 2001 , 337, 11-17	2.5	13
46	A DFT study of a set of natural dyes for organic electronics. <i>Journal of Molecular Modeling</i> , 2017 , 23, 3432		12
45	Synthesis, Structure, Properties, and Bioimaging of a Fluorescent Nitrogen-Linked Bisbenzothiadiazole. <i>Journal of Organic Chemistry</i> , 2016 , 81, 2958-65	4.2	12
44	Dipole moments in Langmuir monolayers from aromatic carboxylic acids. <i>Chemical Physics Letters</i> , 2000 , 326, 39-44	2.5	11
43	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
42	Limit of Exciton Diffusion in Highly Ordered π -Conjugated Systems. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 19654-19659	3.8	10
41	Molecular hyperpolarizabilities of retinal derivatives. <i>Journal of Chemical Physics</i> , 1999 , 111, 5102-5106	3.9	10
40	Fast predictions of exciton diffusion length in organic materials. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 4066-4071	7.1	9
39	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
38	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
37	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
36	Temperature-induced oscillating electric dipole in conjugated systems. <i>Chemical Physics Letters</i> , 2012 , 539-540, 214-217	2.5	8
35	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
34	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
33	Modeling temperature dependent singlet exciton dynamics in multilayered organic nanofibers. <i>Journal of Chemical Physics</i> , 2018 , 148, 204101	3.9	7

32	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
31	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
30	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
29	Biexciton cascade emission in multilayered organic nanofibers. <i>Applied Physics Letters</i> , 2018 , 112, 143301	3.4	6
28	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
27	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
26	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
25	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
24	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
23	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
22	Investigation of the torsional barrier of EDOT using molecular mechanics and DFT methods. <i>Journal of Molecular Modeling</i> , 2014 , 20, 2405	2	2
21	Experimental and theoretical description of the optical properties of Myrcia sylvatica essential oil. <i>Journal of Molecular Modeling</i> , 2017 , 23, 196	2	2
20	Charge localization and hopping in a topologically engineered graphene nanoribbon. <i>Scientific Reports</i> , 2021 , 11, 5142	4.9	2
19	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
18	. <i>IEEE Access</i> , 2021 , 9, 129605-129618	3.5	2
17	Optical and electronic structure description of metal-doped phthalocyanines. <i>Journal of Molecular Modeling</i> , 2017 , 23, 172	2	1
16	Dynamical exciton decay in organic materials: the role of bimolecular recombination. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 1711-1716	3.6	1
15	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

14	Hemilabile bonding of 1-oxa-4,7-dithiacyclononane in cyclometallated palladium(ii) complexes. <i>Dalton Transactions</i> , 2019 , 48, 11520-11535	4.3	1
13	A joint theoretical and experimental characterization of two acene-thiophene derivatives. <i>Journal of Molecular Modeling</i> , 2017 , 23, 52	2	1
12	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
11	A comparative study of the hyperpolarizabilities of solitonic chains. <i>Synthetic Metals</i> , 1999 , 102, 1584	3.6	1
10	A Genetic Algorithm Approach to Design Principles for Organic Photovoltaic Materials. <i>Advanced Theory and Simulations</i> , 2020 , 3, 2000042	3.5	1
9	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
8	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
7	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
6	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
5	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
4	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	
3	Charge-transport in Organic Semiconductors: Probing High Mobility with Light. <i>Materials Research Society Symposia Proceedings</i> , 2013 , 1568, 1		
2	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	
1	Theoretical prediction of electron mobility in birhodanine crystals and their sulfur analogs. <i>Chemical Physics Letters</i> , 2021 , 763, 138226	2.5	