

Pedro Henrique de Oliveira Neto

List of Publications by Year in descending order

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53
papers

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567281

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53
times ranked

393
citing authors

#	ARTICLE	IF	CITATIONS
1	Triplet-to-singlet exciton transfer in hyperfluorescent OLED materials. <i>Journal of Materials Chemistry C</i> , 2022, 10, 4914-4922.	5.5	7
2	Charge transport in cove-type graphene nanoribbons: The role of quasiparticles. <i>Synthetic Metals</i> , 2022, 287, 117056.	3.9	8
3	Quasiparticle dynamics by effective π -field distortion. <i>Scientific Reports</i> , 2022, 12, 7967.	3.3	4
4	Charge localization and hopping in a topologically engineered graphene nanoribbon. <i>Scientific Reports</i> , 2021, 11, 5142.	3.3	5
5	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.	2.8	4
6	Ultrafast direct generation of quasiparticles in graphene nanoribbons. <i>Carbon</i> , 2020, 158, 553-558.	10.3	15
7	A Genetic Algorithm Approach to Design Principles for Organic Photovoltaic Materials. <i>Advanced Theory and Simulations</i> , 2020, 3, 2000042.	2.8	3
8	Smooth gap tuning strategy for cove-type graphene nanoribbons. <i>RSC Advances</i> , 2020, 10, 26937-26943.	3.6	10
9	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.	2.1	15
10	Choice of Solubilizing Group Is Determinant for Exciton Diffusion Length in Organic Crystals. <i>Journal of Physical Chemistry C</i> , 2020, 124, 5522-5527.	3.1	2
11	Role of Exciton Density in Organic Materials: Diffusion Length, Lifetime, and Quantum Efficiency. <i>Chemistry of Materials</i> , 2019, 31, 6818-6823.	6.7	8
12	Dynamical exciton decay in organic materials: the role of bimolecular recombination. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 1711-1716.	2.8	1
13	Fast predictions of exciton diffusion length in organic materials. <i>Journal of Materials Chemistry C</i> , 2019, 7, 4066-4071.	5.5	13
14	Theoretical Investigation on H ₂ O ₂ -Ng (He, Ne, Ar, Kr, Xe, and Rn) Complexes Suitable for Stereodynamics: Interactions and Thermal Chiral Rate Consequences. <i>Frontiers in Chemistry</i> , 2019, 6, 671.	3.6	5
15	Dynamical Mechanism of Polarons and Bipolarons in Poly(p-Phenylene Vinylene). <i>Scientific Reports</i> , 2019, 9, 18131.	3.3	3
16	Effective Mass of Quasiparticles in Armchair Graphene Nanoribbons. <i>Scientific Reports</i> , 2019, 9, 17990.	3.3	5
17	Concentration effects on the thermally-activated transport of polarons in conducting polymers. <i>Chemical Physics Letters</i> , 2019, 716, 162-166.	2.6	6
18	Quasiparticle description of transition metal dichalcogenide nanoribbons. <i>Physical Review B</i> , 2019, 99,	3.2	8

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19	Dynamics of charge quasiparticles generation in armchair graphene nanoribbons. Carbon, 2018, 132, 352-358.	10.3	16
20	Biexciton cascade emission in multilayered organic nanofibers. Applied Physics Letters, 2018, 112, 143301.	3.3	6
21	Exciton Diffusion in Organic Nanofibers: A Monte Carlo Study on the Effects of Temperature and Dimensionality. Scientific Reports, 2018, 8, 14066.	3.3	9
22	Activation Energies and Diffusion Coefficients of Polarons and Bipolarons in Organic Conductors. Journal of Physical Chemistry A, 2018, 122, 5925-5930.	2.5	4
23	Modeling temperature dependent singlet exciton dynamics in multilayered organic nanofibers. Journal of Chemical Physics, 2018, 148, 204101.	3.0	8
24	Bond length pattern associated with charge carriers in armchair graphene nanoribbons. Journal of Molecular Modeling, 2017, 23, 293.	1.8	9
25	Low-Temperature Seebeck Coefficients for Polaron-Driven Thermoelectric Effect in Organic Polymers. Journal of Physical Chemistry A, 2016, 120, 4923-4927.	2.5	7
26	Dynamics of charge carriers on hexagonal nanoribbons with vacancy defects. Physical Review B, 2016, 94, .	3.2	21
27	Polaron Properties in Armchair Graphene Nanoribbons. Journal of Physical Chemistry A, 2016, 120, 4893-4900.	2.5	21
28	Improving the Description of the Optical Properties of Carotenoids by Tuning the Long-Range Corrected Functionals. Journal of Physical Chemistry A, 2016, 120, 4944-4950.	2.5	32
29	Trap-assisted charge transport at conjugated polymer interfaces. Chemical Physics Letters, 2016, 644, 121-126.	2.6	7
30	Limit of Exciton Diffusion in Highly Ordered π -Conjugated Systems. Journal of Physical Chemistry C, 2015, 119, 19654-19659.	3.1	10
31	Influence of bipolaron density on the transport properties of thermalized organic conductors. International Journal of Quantum Chemistry, 2013, 113, 2540-2545.	2.0	2
32	An extensive investigation of reactions involved in the nitrogen trifluoride dissociation. New Journal of Chemistry, 2013, 37, 3244.	2.8	1
33	Effects of temperature and electric field induced phase transitions on the dynamics of polarons and bipolarons. New Journal of Chemistry, 2013, 37, 2829.	2.8	48
34	Impurity effects and temperature influence on the exciton dissociation dynamics in conjugated polymers. Chemical Physics Letters, 2013, 580, 108-114.	2.6	20
35	Predicting the equilibrium structure of organic semiconductors with genetic algorithms. Chemical Physics Letters, 2013, 555, 168-172.	2.6	15
36	Influence of the photoexcitation process on the dynamics of triplet excitons in organic polymers. Computational and Theoretical Chemistry, 2013, 1018, 91-94.	2.5	0

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37	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, 2854-2861.	2.5	20
38	Intramolecular reorganization energy in zinc phthalocyanine and its fluorinated derivatives: a joint experimental and theoretical study. <i>Chemical Communications</i> , 2013, 49, 6069.	4.1	24
39	Dynamical Study of Impurity Effects on Bipolaron and Bipolaron-Polaron Scattering in Conjugated Polymers. <i>Journal of Physical Chemistry B</i> , 2013, 117, 11801-11811.	2.6	20
40	Impurity effects on polaron-exciton formation in conjugated polymers. <i>Journal of Chemical Physics</i> , 2013, 139, 174903.	3.0	18
41	Charge-transport in Organic Semiconductors: Probing High Mobility with Light. <i>Materials Research Society Symposia Proceedings</i> , 2013, 1568, 1.	0.1	0
42	Supersonic quasi-particles dynamics in organic semiconductors. <i>Chemical Physics Letters</i> , 2012, 550, 146-149.	2.6	7
43	Electron Lattice Coupling in Armchair Graphene Nanoribbons. <i>Journal of Physical Chemistry Letters</i> , 2012, 3, 3039-3042.	4.6	41
44	Thermal Rate Constant Calculation of the NF + F Reactive System Multiple Arrangements. <i>Journal of Physical Chemistry A</i> , 2011, 115, 8248-8254.	2.5	4
45	Thermal effects on photogeneration of free carriers in organic conductors. <i>Chemical Physics Letters</i> , 2010, 493, 283-287.	2.6	22
46	Electronic structure of vertically coupled double quantum dots: Optimization of basis functions. <i>Chemical Physics Letters</i> , 2010, 494, 228-231.	2.6	0
47	Charge carrier untrapping by temperature effects in conjugated polymers. <i>Europhysics Letters</i> , 2009, 88, 67006.	2.0	18
48	Molecular Dynamics Investigation of Charge Carrier Density Influence over Mobility in Conjugated Polymers. <i>Journal of Physical Chemistry A</i> , 2009, 113, 14975-14978.	2.5	15
49	Chain length effects on nonlinear excitation transitions in trans-polyacetylene. <i>International Journal of Quantum Chemistry</i> , 2008, 108, 2507-2511.	2.0	2
50	Dynamics of photoexcitations with interchain coupling in conjugated polymers. <i>International Journal of Quantum Chemistry</i> , 2008, 108, 2442-2447.	2.0	3
51	Temperature effects on polaron stability in polyacetylene. <i>International Journal of Quantum Chemistry</i> , 2008, 108, 2448-2453.	2.0	12
52	Photo-generation of polaron pairs in coupled chains of polyacetylene. <i>Computational and Theoretical Chemistry</i> , 2008, 852, 11-14.	1.5	3
53	Torsional Fracture of Carbon Nanotube Bundles: A Reactive Molecular Dynamics Study. <i>Physical Chemistry Chemical Physics</i> , 0, , .	2.8	0