

# Charge Transport in Molecular Materials: An Assessment

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Citation Report

#	ARTICLE	IF	CITATIONS
4	Stochastic and Quasi-Stochastic Hamiltonians for Long-Time Nonadiabatic Molecular Dynamics. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 5190-5195.	2.1	12
5	Charge-transfer mobility and electrical conductivity of PANI as conjugated organic semiconductors. <i>Journal of Chemical Physics</i> , 2017, 147, 114905.	1.2	15
6	Cysteine Linkages Accelerate Electron Flow through Tetra-Heme Protein STC. <i>Journal of the American Chemical Society</i> , 2017, 139, 17237-17240.	6.6	40
7	Dynamical simulation of electron transfer processes in self-assembled monolayers at metal surfaces using a density matrix approach. <i>Journal of Chemical Physics</i> , 2018, 148, 124705.	1.2	5
8	An efficient solution to the decoherence enhanced trivial crossing problem in surface hopping. <i>Journal of Chemical Physics</i> , 2018, 148, 104106.	1.2	39
9	The effect of amino acid backbone length on molecular packing: crystalline tartrates of glycine, $\beta$ -alanine, $\beta$ -aminobutyric acid (GABA) and $\pm$ -DL- $\beta$ -aminobutyric acid (AABA). <i>Acta Crystallographica Section C, Structural Chemistry</i> , 2018, 74, 177-185.	0.2	12
10	Nongeminate Recombination in Organic Solar Cells. <i>Advanced Electronic Materials</i> , 2018, 4, 1700505.	2.6	60
11	Theoretical study on the charge transport in single crystals of TCNQ, F <sub>2</sub> -TCNQ and F <sub>4</sub> -TCNQ. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 3784-3794.	1.3	27
12	Charge transport in organic molecular semiconductors from first principles: The bandlike hole mobility in a naphthalene crystal. <i>Physical Review B</i> , 2018, 97, .	1.1	58
13	A Benchmark Study of Electronic Couplings in Donor-Bridge-Acceptor Systems with the FMR-B Method. <i>Journal of Chemical Theory and Computation</i> , 2018, 14, 2007-2016.	2.3	6
14	Control of $\pi$ - $\pi$ Stacking via Crystal Engineering in Organic Conjugated Small Molecule Crystals. <i>Crystal Growth and Design</i> , 2018, 18, 7-15.	1.4	247
15	Impact of Phonon Dispersion on Nonlocal Electron-Phonon Couplings in Organic Semiconductors: The Naphthalene Crystal as a Case Study. <i>Journal of Physical Chemistry C</i> , 2018, 122, 44-49.	1.5	18
16	A quantitative structure-property study of reorganization energy for known p-type organic semiconductors. <i>RSC Advances</i> , 2018, 8, 40330-40337.	1.7	13
17	Combining Landau-Zener theory and kinetic Monte Carlo sampling for small polaron mobility of doped BiVO <sub>4</sub> from first-principles. <i>Journal of Materials Chemistry A</i> , 2018, 6, 20025-20036.	5.2	51
18	Multi-scale model for the structure of hybrid perovskites: analysis of charge migration in disordered MAPbI <sub>3</sub> structures. <i>New Journal of Physics</i> , 2018, 20, 103013.	1.2	4
19	Impact of Low-Frequency Vibrations on Charge Transport in High-Mobility Organic Semiconductors. <i>Physica Status Solidi - Rapid Research Letters</i> , 2019, 13, 1800485.	1.2	11
20	Theoretical study of charge-transport and optical properties of indeno[1,2-b]fluorene-6,12-dione-based semiconducting materials. <i>Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials</i> , 2018, 74, 705-711.	0.5	5
21	High-Throughput Pressure-Dependent Density Functional Theory Investigation of Herringbone Polycyclic Aromatic Hydrocarbons: Part 2. Pressure-Dependent Electronic Properties. <i>Journal of Physical Chemistry C</i> , 2018, 122, 23828-23844.	1.5	11

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28	Conjugation break spacers and flexible linkers as tools to engineer the properties of semiconducting polymers. Polymer Journal, 2018, 50, 725-736.	1.3	25
29	Crossover from Hopping to Band-Like Charge Transport in an Organic Semiconductor Model: Atomistic Nonadiabatic Molecular Dynamics Simulation. Journal of Physical Chemistry Letters, 2018, 9, 3116-3123.	2.1	68
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32	Toward Predicting Efficiency of Organic Solar Cells via Machine Learning and Improved Descriptors. Advanced Energy Materials, 2018, 8, 1801032.	10.2	154
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39	Solution-Processed Large-Area Ultrathin Films of Metal-Coordinated Electron-Rich Adenine-Based Ligand. Journal of Physical Chemistry C, 2019, 123, 20922-20927.	1.5	2

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41	Understanding the Correlation between Electronic Coupling and Energetic Stability of Molecular Crystal Polymorphs: The Instructive Case of Quinacridone. <i>Chemistry of Materials</i> , 2019, 31, 7054-7069.	3.2	9
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43	Explaining different experimental hole mobilities: influence of polymorphism on dynamic disorder in pentacene. <i>Journal of Materials Chemistry C</i> , 2019, 7, 9665-9670.	2.7	22
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61	Charge transport parameters for carbon based nanohoops and donor-acceptor derivatives. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 2057-2068.	1.3	16
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74	Calculation of Charge-Transfer Electronic Coupling with Nonempirically Tuned Range-Separated Density Functional. <i>Journal of Physical Chemistry C</i> , 2019, 123, 11351-11361.	1.5	6
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82	Superexchange in the fast lane " intramolecular electron transfer in a molecular triad occurs by conformationally gated superexchange. <i>Chemical Communications</i> , 2019, 55, 5251-5254.	2.2	3
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113	Reorganization energies and spectral densities for electron transfer problems in charge transport materials. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 21630-21641.	1.3	21
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115	Theoretical Insights for Materials Properties of Cyclic Organic Nanorings. <i>Advanced Theory and Simulations</i> , 2020, 3, 2000110.	1.3	4
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117	Applying Marcus theory to describe the carrier transports in organic semiconductors: Limitations and beyond. <i>Journal of Chemical Physics</i> , 2020, 153, 080902.	1.2	53
118	Charge Separation and Charge Carrier Mobility in Photocatalytic Metal-Organic Frameworks. <i>Advanced Functional Materials</i> , 2020, 30, 2003792.	7.8	64
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