Tahereh Nemati Aram

List of Publications by Year
in descending order

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		759233	794594
21	384	12	19
papers	citations	h-index	g-index

21	21	21	336
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Singlet fission molecules among known compounds: finding a few needles in a haystack. Energy and Environmental Science, 2019, 12, 2412-2416.	30.8	74
2	On the Largest Possible Mobility of Molecular Semiconductors and How to Achieve It. Advanced Functional Materials, 2020, 30, 2001906.	14.9	45
3	Practical Computation of the Charge Mobility in Molecular Semiconductors Using Transient Localization Theory. Journal of Physical Chemistry C, 2019, 123, 6989-6997.	3.1	40
4	Modeling charge transport in high-mobility molecular semiconductors: Balancing electronic structure and quantum dynamics methods with the help of experiments. Journal of Chemical Physics, 2020, 152, 190902.	3.0	33
5	Novel thermally activated delayed fluorescence materials by high-throughput virtual screening: going beyond donorâ€“acceptor design. Journal of Materials Chemistry C, 2021, 9, 3324-3333.	5.5	27
6	Bright Frenkel Excitons in Molecular Crystals: A Survey. Chemistry of Materials, 2021, 33, 3368-3378.	6.7	22
7	High-throughput virtual screening for organic electronics: a comparative study of alternative strategies. Journal of Materials Chemistry C, 2021, 9, 13557-13583.	5.5	20
8	Organic materials repurposing, a data set for theoretical predictions of new applications for existing compounds. Scientific Data, 2022, 9, 54.	5.3	16
9	Strategies to reduce the dynamic disorder in molecular semiconductors. Materials Horizons, 2020, 7, 2922-2928.	12.2	14
10	Modeling of molecular photocells: Application to two-level photovoltaic system with electron-hole interaction. Journal of Chemical Physics, 2016, 145, 124116.	3.0	13
11	Simple model of a coherent molecular photocell. Journal of Chemical Physics, 2016, 144, 134102.	3.0	12
12	Charge separation in organic solar cells: Effects of Coulomb interaction, recombination and hole propagation. Europhysics Letters, 2016, 115, 18003.	2.0	12
13	Predictive Model of Charge Mobilities in Organic Semiconductor Small Molecules with Force-Matched Potentials. Journal of Chemical Theory and Computation, 2020, 16, 3494-3503.	5.3	12
14	Quantum modeling of two-level photovoltaic systems. EPJ Photovoltaics, 2017, 8, 85503.	1.6	11
15	The impact of long-range electron-hole interaction on the charge separation yield of molecular photocells. Journal of Chemical Physics, 2017, 146, 034103.	3.0	10
16	Impact of electronâ€“phonon coupling on the quantum yield of photovoltaic devices. Journal of Chemical Physics, 2020, 152, 044109.	3.0	9
17	Quantitative Hole Mobility Simulation and Validation in Substituted Acenes. Journal of Physical Chemistry Letters, 2022, 13, 5530-5537.	4.6	7
18	Impact of offset energies on the yield of interfacial charge separation in molecular photocells. Journal of Chemical Physics, 2018, 149, 064102.	3.0	4

#	Article	IF	Citations
19	Influence of Fermi velocity engineering on electronic and optical properties of graphene superlattices. Physics Letters, Section A: General, Atomic and Solid State Physics, 2015, 379, 974-978.	2.1	3
20	Quantum Two-Level Model for Excitonic Solar Cells. , 0, , .		0
21	Feasibility of p-Doped Molecular Crystals as Transparent Conductive Electrodes via Virtual Screening. Chemistry of Materials, 2022, 34, 4050-4061.	6.7	0