

Mousumi Das

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Effects of low-lying excitations in pentalene and its derivatives in singlet fission: a model exact and density matrix renormalisation group study. <i>Molecular Physics</i> , 2021, 119, e1895346.	1.7	0
2	A Remarkable Fluorescence Quenching Based Amplification in ATP Detection through Signal Transduction in Self-Assembled Multivalent Aggregates. <i>Chemistry - A European Journal</i> , 2020, 26, 13595-13600.	3.3	6
3	The use of low-lying excited states of zethrene and its homologs in singlet fission within Pariser-Parr-Pople model Hamiltonian: A Density Matrix Renormalization Group study. <i>Chemical Physics</i> , 2020, 533, 110717.	1.9	3
4	First principle investigations on transport properties in porphyrin, hexaphyrin, and hexathia[2,6]annulene molecular junction devices. <i>Applied Physics Letters</i> , 2020, 116, .	3.3	2
5	Energy ordering of singlet and triplet excited states in indacenodithiophene and indenofluorenes molecules in singlet fission: A model exact and density matrix renormalization group study. <i>Chemical Physics Letters</i> , 2020, 749, 137368.	2.6	4
6	Probing the molecular structure and properties of neutral and anionic ground states of SO ₂ and CO ₂ . <i>European Physical Journal D</i> , 2019, 73, 1.	1.3	5
7	Low-Lying Excited States in Thiophene-Based Cyclic Molecule Suitable for Optoelectronics: A Density Matrix Renormalization Group Study. <i>ACS Omega</i> , 2018, 3, 12253-12259.	3.5	2
8	Singlet and Triplet Excited State Energy Ordering in Cyclopenta-Fused Polycyclic Aromatic Hydrocarbons (CP-PAHs) Suitable for Energy Harvesting: An Exact Model and TDDFT Study. <i>ACS Omega</i> , 2017, 2, 1795-1803.	3.5	7
9	Computational investigation on tunable optical band gap in armchair polyacenes. <i>Journal of Chemical Physics</i> , 2015, 143, 064704.	3.0	4
10	Low-lying excited states in armchair polyacene within Pariser-Parr-Pople model: A density matrix renormalization group study. <i>Journal of Chemical Physics</i> , 2014, 140, 124317.	3.0	8
11	Linear and non-linear optical properties of hetero-cyclic aromatic polymers. <i>Molecular Physics</i> , 2013, 111, 3087-3097.	1.7	1
12	ELECTRON TRANSFER THROUGH NON-HYDROGEN AND HYDROGEN BONDED INTERMOLECULAR TUNNEL JUNCTIONS: A COMPUTATIONAL STUDY. <i>Journal of Theoretical and Computational Chemistry</i> , 2012, 11, 997-1004.	1.8	5
13	Fluorescent resonant excitation energy transfer in linear polyenes. <i>Journal of Chemical Physics</i> , 2010, 132, 124109.	3.0	4
14	Low-lying excitations of poly-fused thiophene within Pariser-Parr-Pople model: A density matrix renormalization group study. <i>Journal of Chemical Physics</i> , 2010, 132, 194107.	3.0	8