

# Mousumi Das

## List of Publications by Year in descending order

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papers

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1684188

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docs citations

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times ranked

93  
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#	ARTICLE	IF	CITATIONS
1	Low-lying excitations of poly-fused thiophene within Pariser-Parr-Pople model: A density matrix renormalization group study. Journal of Chemical Physics, 2010, 132, 194107.	3.0	8
2	Low-lying excited states in armchair polyacene within Pariser-Parr-Pople model: A density matrix renormalization group study. Journal of Chemical Physics, 2014, 140, 124317.	3.0	8
3	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. ACS Omega, 2017, 2, 1795-1803.	3.5	7
4	A Remarkable Fluorescence Quenching Based Amplification in ATP Detection through Signal Transduction in Self-Assembled Multivalent Aggregates. Chemistry - A European Journal, 2020, 26, 13595-13600.	3.3	6
5	ELECTRON TRANSFER THROUGH NON-HYDROGEN AND HYDROGEN BONDED INTERMOLECULAR TUNNEL JUNCTIONS: A COMPUTATIONAL STUDY. Journal of Theoretical and Computational Chemistry, 2012, 11, 997-1004.	1.8	5
6	Probing the molecular structure and properties of neutral and anionic ground states of SO <sub>2</sub> and CO <sub>2</sub> . European Physical Journal D, 2019, 73, 1.	1.3	5
7	Fluorescent resonant excitation energy transfer in linear polyenes. Journal of Chemical Physics, 2010, 132, 124109.	3.0	4
8	Computational investigation on tunable optical band gap in armchair polyacenes. Journal of Chemical Physics, 2015, 143, 064704.	3.0	4
9	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. Chemical Physics Letters, 2020, 749, 137368.	2.6	4
10	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. Chemical Physics, 2020, 533, 110717.	1.9	3
11	Low-Lying Excited States in Thiophene-Based Cyclic Molecule Suitable for Optoelectronics: A Density Matrix Renormalization Group Study. ACS Omega, 2018, 3, 12253-12259.	3.5	2
12	First principle investigations on transport properties in porphyrin, hexaphyrin, and hexathia[26]annulene molecular junction devices. Applied Physics Letters, 2020, 116, .	3.3	2
13	Linear and non-linear optical properties of hetero-cyclic aromatic polymers. Molecular Physics, 2013, 111, 3087-3097.	1.7	1
14	Effects of low-lying excitations in pentalene and its derivatives in singlet fission: a model exact and density matrix renormalisation group study. Molecular Physics, 2021, 119, e1895346.	1.7	0