

Assoc Prof Mahesh Hariharan

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

66

papers

1,505

citations

20

h-index

36

g-index

77

ext. papers

1,806

ext. citations

9.3

avg, IF

5.23

L-index

#	Paper	IF	Citations
66	Symmetry-Breaking Charge Separation in Molecular Constructs for Efficient Light Energy Conversion. <i>ACS Energy Letters</i> , 2022 , 7, 696-711	20.1	6
65	The Effect of Single-Atom Substitution on Structure and Band Gap in Organic Semiconductors. <i>Crystal Growth and Design</i> , 2022 , 22, 1237-1243	3.5	2
64	Exciton interactions in helical crystals of a hydrogen-bonded eumelanin monomer.. <i>Chemical Science</i> , 2022 , 13, 2331-2338	9.4	1
63	Giant Supramolecular Synthons via Cyclic Halogen-Halogen Contacts in Substituted o-Xylenes. <i>Crystal Growth and Design</i> , 2022 , 22, 2318-2327	3.5	4
62	Retaining Hückel Aromaticity in the Triplet Excited State of Azobenzene.. <i>ChemPhysChem</i> , 2022 , e202200045	9.45	0
61	Atom-Efficient Halogen-Halogen Interactions Assist One-, Two-, and Three-Dimensional Molecular Zippers. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 10716-10722	3.8	5
60	Free Charge Carriers in Homo-Sorted π Stacks of Donor-Acceptor Conjugates. <i>Chemical Reviews</i> , 2021 , 121, 8234-8284	68.1	20
59	Halogen-Halogen Bonded Donor-Acceptor Stacks Foster Orthogonal Electron and Hole Transport. <i>Crystal Growth and Design</i> , 2021 , 21, 200-206	3.5	9
58	Mutually exclusive hole and electron transfer coupling in cross stacked acenes.. <i>Chemical Science</i> , 2021 , 12, 5064-5072	9.4	4
57	Null Exciton-Coupled Chromophoric Dimer Exhibits Symmetry-Breaking Charge Separation. <i>Journal of the American Chemical Society</i> , 2021 , 143, 13769-13781	16.4	13
56	Near-Quantitative Triplet State Population via Ultrafast Intersystem Crossing in Perbromoperylenediimide. <i>Journal of Physical Chemistry B</i> , 2020 , 124, 6867-6874	3.4	13
55	Metastable Chiral Azobenzenes Stabilized in a Double Racemate. <i>Angewandte Chemie</i> , 2020 , 132, 3227-3234	32.4	3
54	Distinct Excited-State Dynamics of Near-Orthogonal Perylenimide Dimer: Conformational Planarization versus Symmetry Breaking Charge Transfer. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 237-245	3.8	17
53	Metastable Chiral Azobenzenes Stabilized in a Double Racemate. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 3201-3208	16.4	13
52	Access to the triplet excited states of organic chromophores. <i>Chemical Society Reviews</i> , 2020 , 49, 6122-6140	48.9	45
51	Exciton Isolation in Cross-Pentacene Architecture. <i>Journal of the American Chemical Society</i> , 2020 , 142, 17393-17402	16.4	7
50	Distinct Crystalline Aromatic Structural Motifs: Identification, Classification, and Implications. <i>Accounts of Chemical Research</i> , 2019 , 52, 3075-3086	24.3	28

49	Decoding the Curious Tale of Atypical Intersystem Crossing Dynamics in Regioisomeric Acetylanthracenes. <i>Journal of Physical Chemistry A</i> , 2019 , 123, 6105-6112	2.8	4
48	Anomalous Halogen-Halogen Interaction Assists Radial Chromophoric Assembly. <i>Journal of the American Chemical Society</i> , 2019 , 141, 4536-4540	16.4	26
47	In Silico Exploration for Maximal Charge Transport in Organized Tetrabenzoacenes through Pitch and Roll Displacements. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 26758-26768	3.8	6
46	Through-space aromatic character in excimers. <i>Chemical Communications</i> , 2019 , 56, 225-228	5.8	9
45	Deciphering the Multifarious Charge-Transport Behaviour of Crystalline Propeller-Shaped Triphenylamine Analogues. <i>Chemistry - A European Journal</i> , 2019 , 25, 1992-2002	4.8	9
44	Herringbone Polymorph of 6,13-Bis(trimethylsilylethynyl)pentacene: A Potential Material for Enhanced Hole Mobility. <i>Chemistry - A European Journal</i> , 2018 , 24, 8679-8685	4.8	8
43	Structure-Packing-Property Correlation of Self-Sorted Versus Interdigitated Assembly in TTF/TCNQ-Based Charge-Transport Materials. <i>Chemistry - A European Journal</i> , 2018 , 24, 12318-12329	4.8	20
42	Extending the scope of the carbonyl facilitated triplet excited state towards visible light excitation. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 19120-19128	3.6	4
41	Excited-state dynamics of mononucleotides and DNA strands in a deep eutectic solvent. <i>Faraday Discussions</i> , 2018 , 207, 267-282	3.6	5
40	Concerted Interplay of Excimer and Dipole Coupling Governs the Exciton Relaxation Dynamics in Crystalline Anthracenes. <i>Chemistry - A European Journal</i> , 2018 , 24, 18089-18096	4.8	16
39	Null Exciton Splitting in Chromophoric Greek Cross (+) Aggregate. <i>Angewandte Chemie</i> , 2018 , 130, 15922-15928	3.6	5
38	Innentitelbild: Null Exciton Splitting in Chromophoric Greek Cross (+) Aggregate (Angew. Chem. 48/2018). <i>Angewandte Chemie</i> , 2018 , 130, 15836-15836	3.6	
37	Null Exciton Splitting in Chromophoric Greek Cross (+) Aggregate. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 15696-15701	16.4	35
36	Viable access to the triplet excited state in peryleneimide based palladium complex(^S). <i>Journal of Chemical Sciences</i> , 2018 , 130, 1	1.8	2
35	Persistent Charge-Separated States in Self-Assembled Twisted Nonsymmetric Donor-Acceptor Triads. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 4765-4777	3.8	17
34	Self-Assembled Donor-Acceptor Trefoils: Long-Lived Charge Separated State through Aggregation. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 4778-4788	3.8	12
33	Crystalline triphenylamine substituted arenes: solid state packing and luminescence properties. <i>CrystEngComm</i> , 2017 , 19, 817-825	3.3	16
32	Enhanced intersystem crossing in core-twisted aromatics. <i>Chemical Science</i> , 2017 , 8, 1776-1782	9.4	109

31	Sodium-Ion Batteries: Twisted Perylene Diimides with Tunable Redox Properties for Organic Sodium-Ion Batteries (Adv. Energy Mater. 20/2017). <i>Advanced Energy Materials</i> , 2017 , 7, 21.8 1	21.8	1
30	Enhanced intersystem crossing in carbonylpyrenes. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 28225-28231	3.8	22
29	Unsolicited Photoexcited-State Pathways Relegate the Long-Lived Charge Separation in Self-Assembled Nucleobase-Arene Conjugate. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 23259-23267	3.8	9
28	Twisted Perylene Diimides with Tunable Redox Properties for Organic Sodium-Ion Batteries. <i>Advanced Energy Materials</i> , 2017 , 7, 1701316	21.8	52
27	Long alkyl side-chains impede exciton interaction in organic light harvesting crystals. <i>Chemical Communications</i> , 2017 , 53, 7409-7411	5.8	16
26	Columnar/Lamellar Packing in Cocrystals of Arylbipyridines with Diiodoperfluorobenzene. <i>Crystal Growth and Design</i> , 2016 , 16, 6327-6336	3.5	11
25	Prolonged Charge Separated States in Twisted Stacks of All-Carbon Donor and Acceptor Chromophores. <i>Journal of Physical Chemistry Letters</i> , 2016 , 7, 4751-4756	6.4	16
24	S π H π and C π H π Contacts Regulate Solid State Fluorescence in Regioisomeric Bisthiazolopyrenes. <i>Crystal Growth and Design</i> , 2016 , 16, 4567-4573	3.5	19
23	Crystallization induced enhanced emission in conformational polymorphs of a rotationally flexible molecule. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 2931-2935	7.1	17
22	Access to Triplet Excited State in Core-Twisted Perylenediimide. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 8443-8450	3.8	65
21	Crystallization induced green-yellow-orange emitters based on benzoylpyrenes. <i>CrystEngComm</i> , 2016 , 18, 5089-5094	3.3	19
20	Haloacetylation-Driven Transformation of Sandwich Herringbone to Lamellar/Columnar Packing in Pyrene. <i>Crystal Growth and Design</i> , 2016 , 16, 5822-5830	3.5	10
19	A polyimide based all-organic sodium ion battery. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 10453-10458	13	117
18	Nonparallel Stacks of Donor and Acceptor Chromophores Evade Geminate Charge Recombination. <i>Journal of the American Chemical Society</i> , 2015 , 137, 15604-7	16.4	75
17	Progressive acylation of pyrene engineers solid state packing and colour via C-H π -C, C-H π D and π - π interactions. <i>Chemical Communications</i> , 2014 , 50, 8644-7	5.8	58
16	Light harvesting vesicular donor-acceptor scaffold limits the rate of charge recombination in the presence of an electron donor. <i>Energy and Environmental Science</i> , 2014 , 7, 1661-1669	35.4	34
15	Thymine photodimer formation in DNA hairpins. Unusual conformations favor (6 - 4) vs. (2 + 2) adducts. <i>Photochemical and Photobiological Sciences</i> , 2014 , 13, 266-71	4.2	9
14	C π H π and C π H π contacts aid transformation of dimeric to monomeric anthracene in the solid state. <i>CrystEngComm</i> , 2014 , 16, 8946-8949	3.3	17

13	Single-Component Organic Light-Harvesting Red Luminescent Crystal. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 3240-3248	3.8	23
12	Perylene-polyimide-Based Organic Electrode Materials for Rechargeable Lithium Batteries. <i>Journal of Physical Chemistry Letters</i> , 2013 , 4, 3192-3197	6.4	155
11	Thermal response of DNA supramolecular polymers assembled with hydrophobic sticky ends. <i>Journal of Physical Chemistry B</i> , 2013 , 117, 14649-54	3.4	1
10	Effect of temperature on symmetry breaking excited state charge separation: restoration of symmetry at elevated temperature. <i>Physical Chemistry Chemical Physics</i> , 2012 , 14, 15282-5	3.6	15
9	Energy Transfer in Near-Orthogonally Arranged Chromophores Separated through a Single Bond. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 12489-12498	3.8	34
8	DNA-Enforced Conformational Restriction of an Atropisomer. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 22631-22636	3.8	8
7	Perylenediimide-Linked DNA Dumbbells: Long-Distance Electronic Interactions and Hydrophobic Assistance of Base-Pair Melting. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 20466-20471	3.8	17
6	Structure and stability of alkane-linked DNA hairpin conjugates. <i>Journal of Organic Chemistry</i> , 2010 , 75, 6236-43	4.2	7
5	Conformational control of thymine photodimerization in single-strand and duplex DNA containing locked nucleic acid TT steps. <i>Journal of the American Chemical Society</i> , 2010 , 132, 12856-8	16.4	26
4	Electron hopping among cofacially stacked perylenediimides assembled by using DNA hairpins. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 2385-8	16.4	70
3	Hydrophobic dimerization and thermal dissociation of perylenediimide-linked DNA hairpins. <i>Journal of the American Chemical Society</i> , 2009 , 131, 5920-9	16.4	65
2	Context-dependent photodimerization in isolated thymine-thymine steps in DNA. <i>Journal of the American Chemical Society</i> , 2008 , 130, 11870-1	16.4	21
1	Tuning Excited-State Energy Transfer for Light Energy Conversion: A Virtual Issue. <i>ACS Energy Letters</i> , 2114-2117	20.1	