

Elango Kumarasamy

List of Publications by Year in descending order

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Version: 2024-02-01

41
papers

2,812
citations

218592

26
h-index

302012

39
g-index

49
all docs

49
docs citations

49
times ranked

2243
citing authors

#	ARTICLE	IF	CITATIONS
1	Singlet fission and triplet pair recombination in bipentacenes with a twist. <i>Materials Horizons</i> , 2022, 9, 462-470.	6.4	14
2	Pentaceneâ€“Bridge Interactions in an Axially Chiral Binaphthyl Pentacene Dimer. <i>Journal of Physical Chemistry A</i> , 2021, 125, 7226-7234.	1.1	7
3	Chemoselective Photoreaction of Enamides: Divergent Reactivity towards [3+2]â€“Photocycloaddition <i>vs</i> PaternÃ²â€“BÃ¼chi Reaction^{â€“}. <i>Photochemistry and Photobiology</i> , 2021, 97, 1391-1396.	1.3	3
4	Singlet fission in a hexacene dimer: energetics dictate dynamics. <i>Chemical Science</i> , 2020, 11, 1079-1084.	3.7	35
5	Bridge Resonance Effects in Singlet Fission. <i>Journal of Physical Chemistry A</i> , 2020, 124, 9392-9399.	1.1	16
6	Ionic Fluorogels for Remediation of Per- and Polyfluorinated Alkyl Substances from Water. <i>ACS Central Science</i> , 2020, 6, 487-492.	5.3	80
7	Ultra-fast intramolecular singlet fission to persistent multiexcitons by molecular design. <i>Nature Chemistry</i> , 2019, 11, 821-828.	6.6	85
8	Understanding the Bound Triplet-Pair State in Singlet Fission. <i>CheM</i> , 2019, 5, 1988-2005.	5.8	63
9	Persistent Multiexcitons from Polymers with Pendent Pentacenes. <i>Journal of the American Chemical Society</i> , 2019, 141, 9564-9569.	6.6	31
10	The Environment-Dependent Behavior of the Blatter Radical at the Metalâ€“Molecule Interface. <i>Nano Letters</i> , 2019, 19, 2543-2548.	4.5	54
11	Anticipating Acene-Based Chromophore Spectra with Molecular Orbital Arguments. <i>Journal of Physical Chemistry A</i> , 2019, 123, 2527-2536.	1.1	21
12	Non-Biaryl Atropisomers: Anilides, Amides, Lactams, and Analogues with Câ€“C and Câ€“X Stereogenic Axes. , 2019, , 489-540.		0
13	Realizing the Photoene Reaction with Alkenes under Visible Light Irradiation and Bypassing the Favored [2 + 2]-Photocycloaddition. <i>Journal of the American Chemical Society</i> , 2018, 140, 13185-13189.	6.6	22
14	Realizing an Aza PaternÃ²â€“BÃ¼chi Reaction. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 7056-7061.	7.2	61
15	Frontispiece: Realizing an Aza PaternÃ²â€“BÃ¼chi Reaction. <i>Angewandte Chemie - International Edition</i> , 2017, 56, .	7.2	0
16	Transposed PaternÃ²â€“BÃ¼chi Reaction. <i>Journal of the American Chemical Society</i> , 2017, 139, 655-662.	6.6	47
17	Triplet Harvesting from Intramolecular Singlet Fission in Polytetracene. <i>Advanced Materials</i> , 2017, 29, 1701416.	11.1	70
18	Distinct properties of the triplet pair state from singlet fission. <i>Science Advances</i> , 2017, 3, e1700241.	4.7	102

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19	Realizing an Aza PaternÅ²â€“BÃ¼chi Reaction. <i>Angewandte Chemie</i> , 2017, 129, 7162-7167.	1.6	16
20	Frontispiz: Realizing an Aza PaternÅ²â€“BÃ¼chi Reaction. <i>Angewandte Chemie</i> , 2017, 129, .	1.6	0
21	Tuning Singlet Fission in Î€-Bridge-Î€ Chromophores. <i>Journal of the American Chemical Society</i> , 2017, 139, 12488-12494.	6.6	147
22	Quintet multiexciton dynamics in singlet fission. <i>Nature Physics</i> , 2017, 13, 182-188.	6.5	220
23	Intramolecular Singlet Fission in Oligoacene Heterodimers. <i>Angewandte Chemie</i> , 2016, 128, 3434-3438.	1.6	38
24	Exciton Correlations in Intramolecular Singlet Fission. <i>Journal of the American Chemical Society</i> , 2016, 138, 7289-7297.	6.6	117
25	A Direct Mechanism of Ultrafast Intramolecular Singlet Fission in Pentacene Dimers. <i>ACS Central Science</i> , 2016, 2, 316-324.	5.3	176
26	Singlet Fission in Polypentacene. <i>CheM</i> , 2016, 1, 505-511.	5.8	69
27	Tale of Twisted Molecules. Atropselective Photoreactions: Taming Light Induced Asymmetric Transformations through Non-biaryl Atropisomers. <i>Accounts of Chemical Research</i> , 2016, 49, 2713-2724.	7.6	45
28	Engaging electronic effects for atropselective [5+2]-photocycloaddition of maleimides. <i>Chemical Communications</i> , 2016, 52, 8305-8308.	2.2	8
29	Intramolecular Singlet Fission in Oligoacene Heterodimers. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 3373-3377.	7.2	109
30	Properties of Poly- and Oligopentacenes Synthesized from Modular Building Blocks. <i>Macromolecules</i> , 2016, 49, 1279-1285.	2.2	34
31	Quantitative Intramolecular Singlet Fission in Bipentacenes. <i>Journal of the American Chemical Society</i> , 2015, 137, 8965-8972.	6.6	324
32	Nonbiaryl and Heterobiaryl Atropisomers: Molecular Templates with Promise for Atropselective Chemical Transformations. <i>Chemical Reviews</i> , 2015, 115, 11239-11300.	23.0	517
33	Enantiospecific photochemical 6Î€-ring closure of Î±-substituted atropisomeric acrylanilidesâ€“role of alkali metal ions. <i>Photochemical and Photobiological Sciences</i> , 2014, 13, 141-144.	1.6	19
34	Tailoring Atropisomeric Maleimides for Stereospecific [2 + 2] Photocycloadditionâ€“Photochemical and Photophysical Investigations Leading to Visible-Light Photocatalysis. <i>Journal of the American Chemical Society</i> , 2014, 136, 8729-8737.	6.6	80
35	Photochemistry of Atropisomers: Non-biaryl Atropisomers for Stereospecific Phototransformations. <i>Chemistry Letters</i> , 2014, 43, 1816-1825.	0.7	14
36	Intramolecular PaternÅ²â€“BÃ¼chi reaction of atropisomeric Î±-oxoamides in solution and in the solid-state. <i>Chemical Communications</i> , 2013, 49, 8713.	2.2	30

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37	Light-induced stereospecific intramolecular [2+2]-cycloaddition of atropisomeric 3,4-dihydro-2-pyridones. <i>Chemical Communications</i> , 2013, 49, 4346-4348.	2.2	30
38	Enantiospecific Photochemical Transformations under Elevated Pressure. <i>Chemistry - A European Journal</i> , 2013, 19, 4327-4334.	1.7	26
39	Photophysical aspects of 6-methylcoumarin@cucurbit[8]uril host-guest complexes. <i>Canadian Journal of Chemistry</i> , 2011, 89, 310-316.	0.6	29
40	Fun with Photons: Selective Light Induced Reactions in Solution and in Water Soluble Nano-containers. <i>Chimia</i> , 2011, 65, 202.	0.3	18
41	Light-Induced Enantiospecific 4π Ring Closure of Axially Chiral 2-Pyridones: Enthalpic and Entropic Effects Promoted by H-Bonding. <i>Journal of the American Chemical Society</i> , 2011, 133, 17106-17109.	6.6	34