

James L Banal

List of Publications by Year in descending order

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Version: 2024-02-01

19
papers

820
citations

623734

14
h-index

839539

18
g-index

21
all docs

21
docs citations

21
times ranked

1154
citing authors

#	ARTICLE	IF	CITATIONS
1	Weaving DNA strands to control energy. <i>CheM</i> , 2021, 7, 540-541.	11.7	0
2	Engineering couplings for exciton transport using synthetic DNA scaffolds. <i>CheM</i> , 2021, 7, 752-773.	11.7	50
3	Random access DNA memory using Boolean search in an archival file storage system. <i>Nature Materials</i> , 2021, 20, 1272-1280.	27.5	68
4	Scalable Nucleic Acid Storage and Retrieval Using Barcoded Microcapsules. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 49729-49736.	8.0	5
5	Identification of Nonradiative Decay Pathways in Cy3. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 5000-5007.	4.6	16
6	Programming Structured DNA Assemblies to Probe Biophysical Processes. <i>Annual Review of Biophysics</i> , 2019, 48, 395-419.	10.0	56
7	Aggregation-induced emission-mediated spectral downconversion in luminescent solar concentrators. <i>Materials Chemistry Frontiers</i> , 2018, 2, 615-619.	5.9	40
8	Programmed coherent coupling in a synthetic DNA-based excitonic circuit. <i>Nature Materials</i> , 2018, 17, 159-166.	27.5	106
9	Molecular model of J-aggregated pseudoisocyanine fibers. <i>Journal of Chemical Physics</i> , 2018, 149, 024905.	3.0	11
10	Emissive Molecular Aggregates and Energy Migration in Luminescent Solar Concentrators. <i>Accounts of Chemical Research</i> , 2017, 50, 49-57.	15.6	105
11	Photophysics of J-Aggregate-Mediated Energy Transfer on DNA. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 5827-5833.	4.6	56
12	High performance p-type molecular electron donors for OPV applications via alkylthiophene catenation chromophore extension. <i>Beilstein Journal of Organic Chemistry</i> , 2016, 12, 2298-2314.	2.2	25
13	Energy Migration in Organic Solar Concentrators with a Molecularly Insulated Perylene Diimide. <i>Journal of Physical Chemistry C</i> , 2016, 120, 12952-12958.	3.1	60
14	Organic Photovoltaic Materialsâ€™ Design, Synthesis and Scaleâ€™up. <i>Chemical Record</i> , 2015, 15, 1006-1020.	5.8	7
15	A Transparent Planar Concentrator Using Aggregates of <i>gem</i> -Pyrene Ethenes. <i>Advanced Energy Materials</i> , 2015, 5, 1500818.	19.5	26
16	Electronic Nose Based on Conducting Polymers for the Discrimination of Medicinal Plants. <i>Applied Mechanics and Materials</i> , 2014, 490-491, 1194-1198.	0.2	2
17	Efficient light harvesting of a luminescent solar concentrator using excitation energy transfer from an aggregation-induced emitter. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 25358-25363.	2.8	61
18	Concentrating Aggregation-Induced Fluorescence in Planar Waveguides: A Proof-of-Principle. <i>Scientific Reports</i> , 2014, 4, 4635.	3.3	86

#	ARTICLE	IF	CITATIONS
19	Electron deficient conjugated polymers based on benzotriazole. <i>Polymer Chemistry</i> , 2013, 4, 1077-1083.	3.9	36