

Shyamal K K Prasad

List of Publications by Year in descending order

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Version: 2024-02-01

30
papers

1,625
citations

430874

18
h-index

526287

27
g-index

36
all docs

36
docs citations

36
times ranked

2905
citing authors

#	ARTICLE	IF	CITATIONS
1	Singlet Fission in Concentrated TIPS-Pentacene Solutions: The Role of Excimers and Aggregates. <i>Journal of the American Chemical Society</i> , 2021, 143, 13749-13758.	13.7	22
2	Singlet and Triplet Exciton Dynamics of Violanthrone. <i>Journal of Physical Chemistry C</i> , 2021, 125, 22464-22471.	3.1	3
3	Improved optical confinement in ambipolar field-effect transistors toward electrical injection organic lasers. <i>Applied Physics Letters</i> , 2021, 119, 163303.	3.3	1
4	Large, Tunable, and Reversible pH Changes by Merocyanine Photoacids. <i>Journal of the American Chemical Society</i> , 2021, 143, 20758-20768.	13.7	43
5	Photochemical upconversion of near-infrared light from below the silicon bandgap. <i>Nature Photonics</i> , 2020, 14, 585-590.	31.4	88
6	Organic polariton lasing with molecularly isolated perylene diimides. <i>Applied Physics Letters</i> , 2020, 117, .	3.3	11
7	Development of tethered dual catalysts: synergy between photo- and transition metal catalysts for enhanced catalysis. <i>Chemical Science</i> , 2020, 11, 6256-6267.	7.4	20
8	Intramolecular Versus Intermolecular Triplet Fusion in Multichromophoric Photochemical Upconversion. <i>Journal of Physical Chemistry C</i> , 2019, 123, 20181-20187.	3.1	42
9	Ultrafast Spectrally Resolved Photoinduced Complex Refractive Index Changes in CsPbBr ₃ Perovskites. <i>ACS Photonics</i> , 2019, 6, 345-350.	6.6	27
10	High Exciton Diffusion Coefficients in Fused Ring Electron Acceptor Films. <i>Journal of the American Chemical Society</i> , 2019, 141, 6922-6929.	13.7	177
11	Balanced Partnership between Donor and Acceptor Components in Nonfullerene Organic Solar Cells with >12% Efficiency. <i>Advanced Materials</i> , 2018, 30, e1706363.	21.0	172
12	Tuning the Molecular Weight of the Electron Accepting Polymer in All-Polymer Solar Cells: Impact on Morphology and Charge Generation. <i>Advanced Functional Materials</i> , 2018, 28, 1707185.	14.9	65
13	Impact of Acceptor Fluorination on the Performance of All-Polymer Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 955-969.	8.0	31
14	End-Functionalized Semiconducting Polymers as Reagents in the Synthesis of Hybrid II-VI Nanoparticles. <i>Langmuir</i> , 2018, 34, 9692-9700.	3.5	7
15	TIPS-anthracene: a singlet fission or triplet fusion material?. <i>Journal of Photonics for Energy</i> , 2018, 8, 1.	1.3	14
16	Efficient and tunable spectral compression using frequency-domain nonlinear optics. <i>Optics Express</i> , 2018, 26, 28140.	3.4	5
17	Influence of Fullerene Acceptor on the Performance, Microstructure, and Photophysics of Low Bandgap Polymer Solar Cells. <i>Advanced Energy Materials</i> , 2017, 7, 1602197.	19.5	38
18	Naphthalene diimide-based small molecule acceptors for organic solar cells. <i>Journal of Materials Chemistry A</i> , 2017, 5, 12266-12277.	10.3	41

#	ARTICLE	IF	CITATIONS
19	The Evolution of Quantum Confinement in CsPbBr ₃ Perovskite Nanocrystals. Chemistry of Materials, 2017, 29, 3644-3652.	6.7	258
20	Critical Role of Pendant Group Substitution on the Performance of Efficient All-Polymer Solar Cells. Chemistry of Materials, 2017, 29, 804-816.	6.7	41
21	Isolating and quantifying the impact of domain purity on the performance of bulk heterojunction solar cells. Energy and Environmental Science, 2017, 10, 1843-1853.	30.8	31
22	Mapping Polymer Donors toward High Efficiency Fullerene Free Organic Solar Cells. Advanced Materials, 2017, 29, 1604155.	21.0	360
23	Impact of Fullerene Mixing Behavior on the Microstructure, Photophysics, and Device Performance of Polymer/Fullerene Solar Cells. ACS Applied Materials & Interfaces, 2016, 8, 29608-29618.	8.0	24
24	Incoherent charge separation dynamics in organic photovoltaics. , 2016, , .		0
25	Evolution of Nonmirror Image Fluorescence Spectra in Conjugated Polymers and Oligomers. Journal of Physical Chemistry Letters, 2016, 7, 3307-3312.	4.6	25
26	Capturing ultrafast spectral evolution with transient grating photoluminescence spectroscopy. Proceedings of SPIE, 2016, , .	0.8	0
27	Quantifying highly efficient incoherent energy transfer in perylene-based multichromophore arrays. Physical Chemistry Chemical Physics, 2016, 18, 1712-1719.	2.8	20
28	An N-heterocyclic carbene phenanthroline ligand: synthesis, multi-metal coordination and spectroscopic studies. Dalton Transactions, 2015, 44, 3728-3736.	3.3	11
29	Spectroscopically tracking charge separation in polymer:fullerene blends with a three-phase morphology. Energy and Environmental Science, 2015, 8, 2713-2724.	30.8	44
30	HIGH-SENSITIVITY ULTRAFAST TRANSIENT ABSORPTION SPECTROSCOPY OF ORGANIC PHOTOVOLTAIC DEVICES. , 2014, , .		0