

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	Mapping Polymer Donors toward High Efficiency Fullerene Free Organic Solar Cells. <i>Advanced Materials</i> , 2017, 29, 1604155.	21.0	360
2	The Evolution of Quantum Confinement in CsPbBr ₃ Perovskite Nanocrystals. <i>Chemistry of Materials</i> , 2017, 29, 3644-3652.	6.7	258
3	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
4	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
5	Photochemical upconversion of near-infrared light from below the silicon bandgap. <i>Nature Photonics</i> , 2020, 14, 585-590.	31.4	88
6	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
7	Spectroscopically tracking charge separation in polymer:fullerene blends with a three-phase morphology. <i>Energy and Environmental Science</i> , 2015, 8, 2713-2724.	30.8	44
8	Large, Tunable, and Reversible pH Changes by Merocyanine Photoacids. <i>Journal of the American Chemical Society</i> , 2021, 143, 20758-20768.	13.7	43
9	Intramolecular Versus Intermolecular Triplet Fusion in Multichromophoric Photochemical Upconversion. <i>Journal of Physical Chemistry C</i> , 2019, 123, 20181-20187.	3.1	42
10	Naphthalene diimide-based small molecule acceptors for organic solar cells. <i>Journal of Materials Chemistry A</i> , 2017, 5, 12266-12277.	10.3	41
11	Critical Role of Pendant Group Substitution on the Performance of Efficient All-Polymer Solar Cells. <i>Chemistry of Materials</i> , 2017, 29, 804-816.	6.7	41
12	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
13	Isolating and quantifying the impact of domain purity on the performance of bulk heterojunction solar cells. <i>Energy and Environmental Science</i> , 2017, 10, 1843-1853.	30.8	31
14	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
15	Ultrafast Spectrally Resolved Photoinduced Complex Refractive Index Changes in CsPbBr ₃ Perovskites. <i>ACS Photonics</i> , 2019, 6, 345-350.	6.6	27
16	Evolution of Nonmirror Image Fluorescence Spectra in Conjugated Polymers and Oligomers. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 3307-3312.	4.6	25
17	Impact of Fullerene Mixing Behavior on the Microstructure, Photophysics, and Device Performance of Polymer/Fullerene Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 29608-29618.	8.0	24
18	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

#	ARTICLE	IF	CITATIONS
19	Quantifying highly efficient incoherent energy transfer in perylene-based multichromophore arrays. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 1712-1719.	2.8	20
20	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
21	TIPS-anthracene: a singlet fission or triplet fusion material?. <i>Journal of Photonics for Energy</i> , 2018, 8, 1.	1.3	14
22	An N-heterocyclic carbene phenanthroline ligand: synthesis, multi-metal coordination and spectroscopic studies. <i>Dalton Transactions</i> , 2015, 44, 3728-3736.	3.3	11
23	Organic polariton lasing with molecularly isolated perylene diimides. <i>Applied Physics Letters</i> , 2020, 117, .	3.3	11
24	End-Functionalized Semiconducting Polymers as Reagents in the Synthesis of Hybrid II-VI Nanoparticles. <i>Langmuir</i> , 2018, 34, 9692-9700.	3.5	7
25	Efficient and tunable spectral compression using frequency-domain nonlinear optics. <i>Optics Express</i> , 2018, 26, 28140.	3.4	5
26	Singlet and Triplet Exciton Dynamics of Violanthrone. <i>Journal of Physical Chemistry C</i> , 2021, 125, 22464-22471.	3.1	3
27	Improved optical confinement in ambipolar field-effect transistors toward electrical injection organic lasers. <i>Applied Physics Letters</i> , 2021, 119, 163303.	3.3	1
28	HIGH-SENSITIVITY ULTRAFAST TRANSIENT ABSORPTION SPECTROSCOPY OF ORGANIC PHOTOVOLTAIC DEVICES. , 2014, , .		0
29	Incoherent charge separation dynamics in organic photovoltaics. , 2016, , .		0
30	Capturing ultrafast spectral evolution with transient grating photoluminescence spectroscopy. <i>Proceedings of SPIE</i> , 2016, , .	0.8	0