Girish Lakhwani

List of Publications by Year
in descending order

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40 papers	1,496 citations	430874 18 h-index	315739 38 g-index
40 all docs	40 docs citations	40 times ranked	2354 citing authors

#	Article	IF	Citations
1	Free charge photogeneration in a single component high photovoltaic efficiency organic semiconductor. Nature Communications, 2022, 13, .	12.8	66
2	Solution Epitaxy of Halide Perovskite Thin Single Crystals for Stable Transistors. ACS Applied Materials & Interfaces, 2021, 13, 37840-37848.	8.0	6
3	Pentaceneâ€“Bridge Interactions in an Axially Chiral Binaphthyl Pentacene Dimer. Journal of Physical Chemistry A, 2021, 125, 7226-7234.	2.5	7
4	Magnetic optical rotary dispersion and magnetic circular dichroism in methylammonium lead halide perovskites. Chirality, 2021, 33, 610-617.	2.6	8
5	Fluorescence Enhancement through Confined Oligomerization in Nanochannels: An Anthryl Oligomer in a Metal-Organic Framework. , 2021, 3, 1599-1604.		4
6	Achromatic polarization control in the visible. Nature Photonics, 2021, 15, 797-799.	31.4	1
7	Improved optical confinement in ambipolar field-effect transistors toward electrical injection organic lasers. Applied Physics Letters, 2021, 119, 163303.	3.3	1
8	The Role of Fiber Agglomeration in Formation of Perylene-Based Fiber Networks. Cell Reports Physical Science, 2020, 1, 100148.	5.6	8
9	Strong coupling and energy funnelling in an electrically conductive organic blend. Journal of Materials Chemistry C, 2020, 8, 11485-11491.	5.5	5
10	Emission State Structure and Linewidth Broadening Mechanisms in Type-II CdSe/CdTe Coreâ€“Crown Nanoplatelets: A Combined Theoreticalâ€“Single Nanocrystal Optical Study. Journal of Physical Chemistry C, 2020, 124, 17352-17363.	3.1	13
11	Organic polariton lasing with molecularly isolated perylene diimides. Applied Physics Letters, 2020, 117, .	3.3	11
12	FRET-enhanced photoluminescence of perylene diimides by combining molecular aggregation and insulation. Journal of Materials Chemistry C, 2020, 8, 8953-8961.	5.5	12
13	Chiral-perovskite optoelectronics. Nature Reviews Materials, 2020, 5, 423-439.	48.7	445
14	Solutionâ€Processed Faraday Rotators Using Single Crystal Lead Halide Perovskites. Advanced Science, 2020, 7, 1902950.	11.2	17
15	Circular Intensity Differential Scattering Reveals the Internal Structure of Polymer Fibrils. Journal of Physical Chemistry Letters, 2019, 10, 7547-7553.	4.6	14
16	Fine Structure and Spin Dynamics of Linearly Polarized Indirect Excitons in Two-Dimensional CdSe/CdTe Colloidal Heterostructures. ACS Nano, 2019, 13, 10140-10153.	14.6	18
17	Theoretical Prediction of Chiral 3D Hybrid Organicâ€“Inorganic Perovskites. Advanced Materials, 2019, 31, e1807628.	21.0	64
18	Molecularly isolated perylene diimides enable both strong excitonâ€“photon coupling and high photoluminescence quantum yield. Journal of Materials Chemistry C, 2019, 7, 2954-2960.	5.5	19

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19	Emission Decay Pathways Sensitive to Circular Polarization of Excitation. Journal of Physical Chemistry C, 2018, 122, 23910-23916.	3.1	7
20	Observation of oxygen vacancy migration in memory devices based on ZnO nanoparticles. Journal of Applied Physics, 2017, 121, .	2.5	20
21	Reflection of light by anisotropic molecular crystals including exciton-polaritons and spatial dispersion. Journal of Chemical Physics, 2016, 145, 194703.	3.0	11
22	Mixed side-chain geometries for aggregation control of poly(fluorene-alt-bithiophene) and their effects on photophysics and charge transport. Synthetic Metals, 2016, 220, 162-173.	3.9	8
23	In Situ Optical Measurement of Charge Transport Dynamics in Organic Photovoltaics. Nano Letters, 2015, 15, 931-935.	9.1	8
24	Bimolecular Recombination in Organic Photovoltaics. Annual Review of Physical Chemistry, 2014, 65, 557-581.	10.8	218
25	Interface limited charge extraction and recombination in organic photovoltaics. Energy and Environmental Science, 2014, 7, 2227.	30.8	33
26	Probing the switching mechanism in ZnO nanoparticle memristors. Journal of Applied Physics, 2014, 116, 114501.	2.5	23
27	Voltage-dependent photocurrent transients of PTB7:PC70BM solar cells: Experiment and numerical simulation. Journal of Applied Physics, 2013, 114, .	2.5	52
28	Conformational Effect on Energy Transfer in Single Polythiophene Chains. Journal of Physical Chemistry B, 2012, 116, 9866-9872.	2.6	27
29	Insights from Chiral Polyfluorene on the Unification of Molecular Exciton and Cholesteric Liquid Crystal Theories for Chiroptical Phenomena. Journal of Physical Chemistry A, 2012, 116, 1121-1128.	2.5	28
30	Electronic Energy Transfer in Highly Aligned MEH-PPV Single Chains. Journal of Physical Chemistry B, 2011, 115, 9941-9947.	2.6	42
31	Circular Selective Reflection of Light Proving Cholesteric Ordering in Thin Layers of Chiral Fluorene Polymers. Journal of Physical Chemistry Letters, 2011, 2, 1497-1501.	4.6	28
32	Polymer Photovoltaic Cells Sensitive to the Circular Polarization of Light. Advanced Materials, 2010, 22, E131-4.	21.0	76
33	Probing Charge Carrier Density in a Layer of Photodoped ZnO Nanoparticles by Spectroscopic Ellipsometry. Journal of Physical Chemistry C, 2010, 114, 14804-14810.	3.1	57
34	Large Photoinduced Circular Dichroism in Chiral Polyfluorene. Journal of Physical Chemistry A, 2009, 113, 10891-10894.	2.5	7
35	Intensive Chiroptical Properties of Chiral Polyfluorenes Associated with Fibril Formation. Journal of Physical Chemistry B, 2009, 113, 14047-14051.	2.6	21
36	Anisotropic Dielectric Tensor for Chiral Polyfluorene at Optical Frequencies. Journal of Physical Chemistry B, 2009, 113, 14165-14171.	2.6	11

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37	Near-field circular polarization probed by chiral polyfluorene. Optics Letters, 2009, 34, 3571.	3.3	17
38	Î² Phase in Chiral Polyfluorene Forms via a Precursor. Macromolecules, 2009, 42, 4220-4223.	4.8	20
39	Circular Differential Scattering of Light in Films of Chiral Polyfluorene. Journal of Physical Chemistry B, 2007, 111, 5124-5131.	2.6	39
40	The chiroptical properties of chiral substituted poly[3-((3S)-3,7-dimethyloctyl)thiophene] as a function of film thickness. Chemical Physics Letters, 2007, 437, 193-197.	2.6	24