Fernando FernÃ¡ndez-LÃ¡zaro

List of Publications by Year
in descending order

87 papers	3,029 citations	159585 30 h-index	168389 53 g-index
92 all docs	92 docs citations	92 times ranked	3593 citing authors

#	Article	IF	Citations
1	Substituents interplay in piperidinyl-perylenediimide as dopant-free hole-selective layer for perovskite solar cells fabrication. Emergent Materials, 2022, 5, 977-985.	5.7	4
2	Influence of substituents of Perylenebisimides on the surface energy and wettability: A systematic structureâ€“property relationship analysis. Dyes and Pigments, 2022, 199, 110044.	3.7	1
3	Quadrupolar Ultrafast Charge Transfer in Diaminoazobenzeneâ€Bridged Perylenediimide Triads. Chemistry - A European Journal, 2022, 28, .	3.3	2
4	Altering singlet fission pathways in perylene-dimers; perylene-diimide versus perylene-monoimide. Nanoscale, 2022, 14, 5194-5203.	5.6	8
5	Silicaâ€Supported Phosphineâ€“Gold Complexes as an Efficient Catalytic System for a Dearomative Spirocyclization. Chemistry - A European Journal, 2021, 27, 427-433.	3.3	9
6	Slow kinetic evolution of nanohelices based on gemini surfactant self-assemblies with various enantiomeric excess; chiral segregation towards a racemic mixture. Materials Chemistry Frontiers, 2021, 5, 3021-3028.	5.9	6
7	Unveiling the Photoinduced Electronâ€Donating Character of MoS 2 in Covalently Linked Hybrids Featuring Perylenediimide. Angewandte Chemie, 2021, 133, 9202-9208.	2.0	1
8	Unveiling the Photoinduced Electronâ€Donating Character of MoS₂ in Covalently Linked Hybrids Featuring Perylenediimide. Angewandte Chemie - International Edition, 2021, 60, 9120-9126.	13.8	16
9	Effect of Substituents at Imide Positions on the Laser Performance of 1,7-Bay-Substituted Perylenediimide Dyes. Journal of Physical Chemistry C, 2021, 125, 12277-12288.	3.1	7
10	Chirality induction to achiral molecules by silicaâ€coated chiral molecular assemblies. Chirality, 2021, 33, 494-505.	2.6	6
11	Excited State Charge Separation in an Azobenzeneâ€Bridged Perylenediimide Dimer â€“ Effect of Photochemical Transâ€Cis Isomerization. Chemistry - A European Journal, 2021, 27, 14996-15005.	3.3	5
12	Lanthanide ion-doped silica nanohelix: a helical inorganic network acts as a chiral source for metal ions. Chemical Communications, 2021, 57, 4392-4395.	4.1	6
13	Supramolecular Induction of Topological Chirality from Nanoscale Helical Silica Scaffolds to Achiral Molecular Chromophores. Journal of Physical Chemistry C, 2020, 124, 23839-23843.	3.1	13
14	Near perfect head-to-head selectivity on the supramolecular photocyclodimerisation of 2-anthracenecarboxylate with self-organised gemini surfactant bilayers. Chemical Communications, 2020, 56, 10058-10061.	4.1	7
15	Identification of the loss mechanisms in TiO2 and ZnO solar cells based on blue, piperidinyl-substituted, mono-anhydride perylene dyes. Electrochimica Acta, 2020, 355, 136638.	5.2	3
16	Distanceâ€Dependent Electron Transfer Kinetics in Axially Connected Silicon Phthalocyanineâ€Fullerene Conjugates. ChemPhysChem, 2020, 21, 2254-2262.	2.1	5
17	Distanceâ€Dependent Electron Transfer Kinetics in Axially Connected Silicon Phthalocyanineâ€Fullerene Conjugates. ChemPhysChem, 2020, 21, 2232-2232.	2.1	0
18	Optically Active Perovskite CsPbBr₃ Nanocrystals Helically Arranged on Inorganic Silica Nanohelices. Nano Letters, 2020, 20, 8453-8460.	9.1	68

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19	Chirality induction on non-chiral dye-linked polysilsesquioxane in nanohelical structures. Chemical Communications, 2020, 56, 7241-7244.	4.1	12
20	Perylene-Monoimides: Singlet Fission Down-Conversion Competes with Up-Conversion by Geminate Tripletâ€“Triplet Recombination. Journal of Physical Chemistry A, 2020, 124, 5727-5736.	2.5	17
21	Distance Matters: Effect of the Spacer Length on the Photophysical Properties of Multimodular Perylenediimideâ€“Silicon Phthalocyanineâ€“Fullerene Triads. Chemistry - A European Journal, 2020, 26, 4822-4832.	3.3	11
22	Perylenediimides as more than just non-fullerene acceptors: versatile components in organic, hybrid and perovskite solar cells. Chemical Communications, 2020, 56, 3824-3838.	4.1	23
23	Directly Linked Zinc Phthalocyanineâ€“Perylenediimide Dyads and a Triad for Ultrafast Charge Separation. Chemistry - A European Journal, 2019, 25, 10123-10132.	3.3	9
24	Dielsâ€“Alder reaction on perylenediimides: synthesis and theoretical study of core-expanded diimides. Organic Chemistry Frontiers, 2019, 6, 2860-2871.	4.5	5
25	Fabrication of Fluorescent One-dimensional-nanocomposites through One-pot Self-assembling Polymerization on Nano-helical Silica. Chemistry Letters, 2019, 48, 1088-1091.	1.3	4
26	Occurrence of excited state charge separation in a N-doped grapheneâ€“perylenediimide hybrid formed via â€˜clickâ€™ chemistry. Nanoscale Advances, 2019, 1, 4009-4015.	4.6	4
27	Direct amination and N-heteroarylation of perylenediimides. Organic Chemistry Frontiers, 2019, 6, 2488-2499.	4.5	8
28	Emissionâ€Color Control in Polymer Films by Memorized Fluorescence Solvatochromism in a New Class of Totally Organic Fluorescent Nanogel Particles. Chemistry - A European Journal, 2019, 25, 10141-10148.	3.3	4
29	Excitedâ€State Charge Transfer in Covalently Functionalized MoS₂ with a Zinc Phthalocyanine Donorâ€“Acceptor Hybrid. Angewandte Chemie, 2019, 131, 5768-5773.	2.0	19
30	Excitedâ€State Charge Transfer in Covalently Functionalized MoS₂ with a Zinc Phthalocyanine Donorâ€“Acceptor Hybrid. Angewandte Chemie - International Edition, 2019, 58, 5712-5717.	13.8	52
31	A zinc phthalocyanineâ€“benzoperylenetriimide conjugate for solvent dependent ultrafast energy vs. electron transfer. Chemical Communications, 2019, 55, 14946-14949.	4.1	4
32	Sequential, Ultrafast Energy Transfer and Electron Transfer in a Fused Zinc Phthalocyanineâ€freeâ€base Porphyrinâ€C₆₀ Supramolecular Triad. ChemPhysChem, 2019, 20, 163-172.	2.1	11
33	Oligo(ethylene oxide) chains in fluorene bridge units of perylenediimide dimers as an efficient strategy for improving the photovoltaic performance in organic solar cells. Dyes and Pigments, 2019, 161, 188-196.	3.7	9
34	Supramolecular complex of a fused zinc phthalocyanineâ€“zinc porphyrin dyad assembled by two imidazole-C₆₀units: ultrafast photoevents. Physical Chemistry Chemical Physics, 2018, 20, 7798-7807.	2.8	19
35	Synthesis of bay-triaminosubstituted perylenediimides. Organic Chemistry Frontiers, 2018, 5, 1830-1834.	4.5	8
36	Influence of Blending Ratio and Polymer Matrix on the Lasing Properties of Perylenediimide Dyes. Journal of Physical Chemistry C, 2018, 122, 24896-24906.	3.1	23

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37	Optically Active Polyoxometalateâ€Based Silica Nanohelices: Induced Chirality from Inorganic Nanohelices to Achiral POM Clusters. Chemistry - A European Journal, 2018, 24, 11344-11353.	3.3	18
38	Induced circular dichroism of monoatomic anions: silica-assisted the transfer of chiral environment from molecular assembled nanohelices to halide ions. Chemical Communications, 2018, 54, 10244-10247.	4.1	20
39	Diphenylphenoxy-Thiophene-PDI Dimers as Acceptors for OPV Applications with Open Circuit Voltage Approaching 1 Volt. Nanomaterials, 2018, 8, 211.	4.1	8
40	Multichromophoric Perylenediimideâ€“Silicon Phthalocyanineâ€“C₆₀ System as an Artificial Photosynthetic Analogue. Chemistry - A European Journal, 2017, 23, 3863-3874.	3.3	26
41	Induction of Strong and Tunable Circularly Polarized Luminescence of Nonchiral, Nonmetal, Lowâ€Molecularâ€Weight Fluorophores Using Chiral Nanotemplates. Angewandte Chemie - International Edition, 2017, 56, 2989-2993.	13.8	205
42	Induction of Strong and Tunable Circularly Polarized Luminescence of Nonchiral, Nonmetal, Lowâ€Molecularâ€Weight Fluorophores Using Chiral Nanotemplates. Angewandte Chemie, 2017, 129, 3035-3039.	2.0	52
43	GoldHelix: Gold Nanoparticles Forming 3D Helical Superstructures with Controlled Morphology and Strong Chiroptical Property. ACS Nano, 2017, 11, 3806-3818.	14.6	108
44	Efficient Optical Amplification in a Sandwich-Type Active-Passive Polymer Waveguide Containing Perylenediimides. ACS Photonics, 2017, 4, 114-120.	6.6	24
45	Purcell-enhancement of the radiative PL decay in perylenediimides by coupling with silver nanoparticles into waveguide modes. Applied Physics Letters, 2017, 111, .	3.3	9
46	Solventâ€Free Offâ€“On Detection of the Improvised Explosive Triacetone Triperoxide (TATP) with Fluorogenic Materials. Chemistry - A European Journal, 2017, 23, 13973-13979.	3.3	28
47	Fluoride-mediated alkoxylation and alkylthio-functionalization of halogenated perylenediimides. Organic Chemistry Frontiers, 2017, 4, 2016-2021.	4.5	15
48	Fluorescence emission originated from the H-aggregated cyanine dye with chiral gemini surfactant assemblies having a narrow absorption band and a remarkably large Stokes shift. Chemical Communications, 2017, 53, 8870-8873.	4.1	53
49	Phthalocyanineâ€“Gold Nanoparticle Hybrids: Modulating Quenching with a Silica Matrix Shell.. ChemPhysChem, 2016, 17, 1579-1585.	2.1	12
50	Perylenediimides as non-fullerene acceptors in bulk-heterojunction solar cells (BHJSCs). Journal of Materials Chemistry A, 2016, 4, 9336-9346.	10.3	172
51	Direct Observation of Siloxane Chirality on Twisted and Helical Nanometric Amorphous Silica. Nano Letters, 2016, 16, 6411-6415.	9.1	49
52	Axially Substituted Silicon Phthalocyanine as Electron Donor in a Dyad and Triad with Azafullerene as Electron Acceptor for Photoinduced Charge Separation. Chemistry - A European Journal, 2016, 22, 15137-15143.	3.3	15
53	Synthesis and Photophysical Properties of Conjugated and Nonconjugated Phthalocyanineâ€“Perylenediimide Systems. Journal of Physical Chemistry C, 2016, 120, 26508-26513.	3.1	11
54	Facile and Versatile Approach for Generating Circularly Polarized Luminescence by Non-chiral, Low-molecular Dye-on-nanotemplate Composite System. Chemistry Letters, 2016, 45, 448-450.	1.3	24

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55	Direct alkylthio-functionalization of unsubstituted perylenediimides. Organic and Biomolecular Chemistry, 2016, 14, 9375-9383.	2.8	10
56	Interface engineering in efficient vacuum deposited perovskite solar cells. Organic Electronics, 2016, 37, 396-401.	2.6	19
57	Memorized chiral arrangement of gemini surfactant assemblies in nanometric hybrid organicâ€“silica helices. Chemical Communications, 2016, 52, 5800-5803.	4.1	21
58	Charge separation and charge recombination photophysical studies in a series of peryleneâ€“C₆₀linear and cyclic dyads. Physical Chemistry Chemical Physics, 2016, 18, 3598-3605.	2.8	15
59	Easy and mild fluoride-mediated direct mono- and dialkoxylation of perylenediimides. Dyes and Pigments, 2016, 127, 9-17.	3.7	10
60	Does a nitrogen matter? Synthesis and photoinduced electron transfer of perylenediimide donors covalently linked to C₅₉N and C₆₀ acceptors. Nanoscale, 2015, 7, 7437-7444.	5.6	30
61	Synergistic Interaction of Dyes and Semiconductor Quantum Dots for Advanced Cascade Cosensitized Solar Cells. Advanced Functional Materials, 2015, 25, 3220-3226.	14.9	28
62	Submillisecond-lived photoinduced charge separation in a fully conjugated phthalocyanineâ€“perylenebenzimidazole dyad. Chemical Science, 2014, 5, 4785-4793.	7.4	54
63	Advances in phthalocyanine-sensitized solar cells (PcSSCs). Journal of Materials Chemistry A, 2014, 2, 15672-15682.	10.3	113
64	Creation of a polymer backbone in lipid bilayer membrane-based nanotubes for morphological and microenvironmental stabilization. RSC Advances, 2014, 4, 33194-33197.	3.6	12
65	Chiral Colloids: Homogeneous Suspension of Individualized SiO₂ Helical and Twisted Nanoribbons. ACS Nano, 2014, 8, 6863-6872.	14.6	47
66	A structureâ€“propertyâ€“performance investigation of perylenediimides as electron accepting materials in organic solar cells. Physical Chemistry Chemical Physics, 2013, 15, 18894.	2.8	32
67	1,7â€Bayâ€Substituted Perylenediimide Derivative with Outstanding Laser Performance. Advanced Optical Materials, 2013, 1, 933-938.	7.3	58
68	Rational design of a phthalocyanineâ€“perylenediimide dyad with a long-lived charge-separated state. Chemical Communications, 2012, 48, 6241.	4.1	56
69	Light harvesting zinc naphthalocyanineâ€“perylenediimide supramolecular dyads: long-lived charge-separated states in nonpolar media. Physical Chemistry Chemical Physics, 2012, 14, 3612.	2.8	38
70	Water soluble fluorescent-magnetic perylenediimide-containing maghemite-nanoparticles for bimodal MRI/OI imaging. Journal of Inorganic Biochemistry, 2012, 117, 205-211.	3.5	13
71	A water-soluble perylene dye functionalised with a 17Î²-estradiol: a new fluorescent tool for steroid hormones. Chemical Communications, 2011, 47, 8307.	4.1	58
72	Supramolecular Zinc Phthalocyanineâ€“Imidazolyl Perylenediimide Dyad and Triad: Synthesis, Complexation, and Photophysical Studies. Chemistry - an Asian Journal, 2011, 6, 3110-3121.	3.3	27

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73	Synthesis and Photophysics of Silicon Phthalocyanineâ€“Perylenebisimide Triads Connected through Rigid and Flexible Bridges. Chemistry - A European Journal, 2011, 17, 9153-9163.	3.3	31
74	Multistep electron transfer systems based on silicon phthalocyanine, [60]fullerene and trinitrofluorenone. Chemical Communications, 2010, 46, 3944.	4.1	24
75	Effect of structural modifications in the laser properties of polymer films doped with perylenebisimide derivatives. Synthetic Metals, 2009, 159, 2293-2295.	3.9	20
76	Synthesis and Photoinduced Electron Transfer of Phthalocyanineâ”Perylenebisimide Pentameric Arrays. Journal of Organic Chemistry, 2009, 74, 5871-5880.	3.2	60
77	Supramolecular interactions in dye-sensitised solar cells. Journal of Materials Chemistry, 2009, 19, 5818.	6.7	32
78	Efficient deep-red light-emitting electrochemical cells based on a perylenediimide-iridium-complex dyad. Chemical Communications, 2009, , 3886.	4.1	103
79	Interfacial photo-induced charge transfer reactions in perylene imide dye sensitised solar cells. Journal of Materials Chemistry, 2008, 18, 5802.	6.7	42
80	Molecular Structure of Self-Assembled Chiral Nanoribbons and Nanotubules Revealed in the Hydrated State. Journal of the American Chemical Society, 2008, 130, 14705-14712.	13.7	108
81	Individualized Silica Nanohelices and Nanotubes: Tuning Inorganic Nanostructures Using Lipidic Self-Assemblies. Nano Letters, 2008, 8, 1929-1935.	9.1	113
82	Control of Photoinduced Electron Transfer in Zinc Phthalocyanineâ”Perylenediimide Dyad and Triad by the Magnesium Ion. Journal of Physical Chemistry A, 2008, 112, 10744-10752.	2.5	86
83	Adiabatic Photoinduced Electron Transfer and Back Electron Transfer in a Series of Axially Substituted Silicon Phthalocyanine Triads. Journal of Physical Chemistry C, 2008, 112, 17694-17701.	3.1	35
84	Synthesis and Photophysical Studies of a New Nonaggregated C60â”Silicon Phthalocyanineâ”C60Triad. Organic Letters, 2007, 9, 3441-3444.	4.6	69
85	Formation of a long-lived charge-separated state of a zinc phthalocyanine-perylenediimide dyad by complexation with magnesium ion. Chemical Communications, 2005, , 3814.	4.1	93
86	Double helical silica fibrils by solâ€“gel transcription of chiral aggregates of gemini surfactantsElectronic supplementary information (ESI) available: Fig. S1: TEM image of double stranded silica obtained by solâ€“gel transcription of l-1/d-1 gel (2â¶1 mol/mol, 33% ee l-1 excess). See http://www.rsc.org/suppdata/cc/b2/b202799m/. Chemical Communications, 2002, , 1212-1213.	4.1	130
87	Gemini surfactants, the effect of hydrophobic chain length and dissymmetry. Chemical Communications, 1997, , 2105-2106.	4.1	181