Bernard Geffroy

List of Publications by Year in Descending Order

73 papers	3,009 citations	32 h-index	54 g-index
77 ext. papers	3,417 ext. citations	6.3 avg, IF	5.04 L-index

#	Paper	IF	Citations
73	Soft X-ray characterization of halide perovskite film by scanning transmission X-ray microscopy.. *Scientific Reports*, **2022**, 12, 4520	4.9	0
72	Si-containing polycyclic aromatic hydrocarbons: synthesis and opto-electronic properties. *Chemical Communications*, **2021**,	5.8	1
71	Tuning the aggregation behaviour of BN-coronene diimides with imide substituents and their performance in devices (OLEDs and OFETs). *Journal of Materials Chemistry C*, **2021**, 9, 14720-14729	7.1	7
70	Halide Ion Migration and its Role at the Interfaces in Perovskite Solar Cells. *European Journal of Inorganic Chemistry*, **2021**, 2021, 4781	2.3	4
69	A highly efficient solution and solid state ESIPT fluorophore and its OLED application. *New Journal of Chemistry*, **2021**, 45, 3014-3021	3.6	8
68	Electron irradiation induced aging effects on radiative recombination properties of quadruple cation organic-inorganic perovskite layers. *Emergent Materials*, **2020**, 3, 133-160	3.5	2
67	Reversible Photoinduced Phase Segregation and Origin of Long Carrier Lifetime in Mixed-Halide Perovskite Films. *Advanced Functional Materials*, **2020**, 30, 2002622	15.6	16
66	Synthesis, Electronic Properties and OLED Devices of Chromophores Based on □Phosphinines. *Chemistry - A European Journal*, **2020**, 26, 10534-10543	4.8	10
65	Spirophenylacridine-2,7-(diphenylphosphineoxide)-fluorene: A Bipolar Host for High-Efficiency Single-Layer Blue Phosphorescent Organic Light-Emitting Diodes. *Advanced Optical Materials*, **2020**, 8, 1901225	8.1	31
64	Naphthyl-Fused Phosphepines: Luminescent Contorted Polycyclic P-Heterocycles. *Chemistry - A European Journal*, **2020**, 26, 1856-1863	4.8	13
63	Universal host materials for red, green and blue high-efficiency single-layer phosphorescent organic light-emitting diodes. *Journal of Materials Chemistry C*, **2020**, 8, 16354-16367	7.1	18
62	Phosphahelicenes: From Chiroptical and Photophysical Properties to OLED Applications. *Chemistry - A European Journal*, **2019**, 25, 5303-5310	4.8	19
61	Effect of Halide Ion Migration on the Electrical Properties of Methylammonium Lead Tri-Iodide Perovskite Solar Cells. *Journal of Physical Chemistry C*, **2019**, 123, 17728-17734	3.8	27
60	Low Temperature Solution-Processable 3D-Patterned Charge Recombination Layer for Organic Tandem Solar Cells. *Materials*, **2019**, 12,	3.5	1
59	Electrical and optical degradation study of methylammonium-based perovskite materials under ambient conditions. *Solar Energy Materials and Solar Cells*, **2018**, 178, 179-185	6.4	11
58	Triphenylamine/oxadiazole hybrids differing by the substitution pattern: Influence on the electroluminescence properties of yellow and green emitting diodes. *Synthetic Metals*, **2018**, 240, 21-29	3.6	
57	Blue Electrofluorescence Properties of Furan□ilole Ladder Pi-Conjugated Systems. *Applied Sciences (Switzerland)*, **2018**, 8, 812	2.6	6

56	Electron-Rich 4-Substituted Spirobifluorenes: Toward a New Family of High Triplet Energy Host Materials for High-Efficiency Green and Sky Blue Phosphorescent OLEDs. *ACS Applied Materials & Interfaces*, **2017**, 9, 6194-6206	9.5	43
55	Structural Instabilities Related to Highly Anharmonic Phonons in Halide Perovskites. *Journal of Physical Chemistry Letters*, **2017**, 8, 2659-2665	6.4	87
54	Direct Experimental Evidence of Halide Ionic Migration under Bias in CH3NH3PbI3−xClx-Based Perovskite Solar Cells Using GD-OES Analysis. *ACS Energy Letters*, **2017**, 2, 943-949	20.1	42
53	Spirobifluorene Regioisomerism: A Structure-Property Relationship Study. *Chemistry - A European Journal*, **2017**, 23, 7719-7727	4.8	65
52	9H-Quinolino[3,2,1-k]phenothiazine: A New Electron-Rich Fragment for Organic Electronics. *Chemistry - A European Journal*, **2016**, 22, 17930-17935	4.8	40
51	All-Solution-Processed Organic Light-Emitting Diodes Based on Photostable Photo-cross-linkable Fluorescent Small Molecules. *ACS Applied Materials & Interfaces*, **2016**, 8, 16207-17	9.5	47
50	Charge transport and contact resistance in coplanar devices based on colloidal polyaniline dispersion. *Journal of Polymer Science, Part B: Polymer Physics*, **2016**, 54, 1710-1716	2.6	4
49	Thioxanthene and dioxothioxanthene dihydroindeno[2,1-b]fluorenes: synthesis, properties and applications in green and sky blue phosphorescent OLEDs. *Journal of Materials Chemistry C*, **2016**, 4, 1692-1703	7.1	34
48	Design and Synthesis of New Circularly Polarized Thermally Activated Delayed Fluorescence Emitters. *Journal of the American Chemical Society*, **2016**, 138, 3990-3	16.4	199
47	Using Low Temperature Photoluminescence Spectroscopy to Investigate CH3NH3PbI3 Hybrid Perovskite Degradation. *Molecules*, **2016**, 21,	4.8	12
46	Modulation of the Physicochemical Properties of Donor-Spiro-Acceptor Derivatives through Donor Unit Planarisation: Phenylacridine versus Indoloacridine-New Hosts for Green and Blue Phosphorescent Organic Light-Emitting Diodes (PhOLEDs). *Chemistry - A European Journal*, **2016**, 22, 10136-49	4.8	39
45	Zinc oxide as a hole blocking layer for perovskite solar cells deposited in atmospheric conditions. *RSC Advances*, **2016**, 6, 67715-67723	3.7	20
44	Wide range local resistance imaging on fragile materials by conducting probe atomic force microscopy in intermittent contact mode. *Applied Physics Letters*, **2016**, 108, 243101	3.4	1
43	Properties modulation of organic semi-conductors based on a donor-spiro-acceptor (D-spiro-A) molecular design: new host materials for efficient sky-blue PhOLEDs. *Journal of Materials Chemistry C*, **2015**, 3, 9701-9714	7.1	47
42	Phosphorus-Based Chromophores: Emitters for OLEDs. *Phosphorus, Sulfur and Silicon and the Related Elements*, **2015**, 190, 845-853	1	10
41	Small molecule-based photocrosslinkable fluorescent materials toward multilayered and high-resolution emissive patterning. *Journal of Materials Chemistry C*, **2015**, 3, 8403-8412	7.1	6
40	Enhancing the Performances of P3HT:PCBM-MoS3-Based H2-Evolving Photocathodes with Interfacial Layers. *ACS Applied Materials & Interfaces*, **2015**, 7, 16395-403	9.5	45
39	Spirobifluorene-2,7-dicarbazole-4′-phosphine Oxide as Host for High-Performance Single-Layer Green Phosphorescent OLED Devices. *Organic Letters*, **2015**, 17, 4682-5	6.2	53

38	Flexible organic–inorganic hybrid layer encapsulation for organic opto-electronic devices. *Progress in Organic Coatings*, **2015**, 80, 27-32	4.8	30
37	Spiro-configured phenyl acridine thioxanthene dioxide as a host for efficient PhOLEDs. *Chemical Communications*, **2015**, 51, 1313-5	5.8	63
36	ortho-, meta-, and para-dihydroindenofluorene derivatives as host materials for phosphorescent OLEDs. *Angewandte Chemie - International Edition*, **2015**, 54, 1176-80	16.4	119
35	A bridged low band gap A–D–A quaterthiophene as efficient donor for organic solar cells. *Journal of Materials Chemistry C*, **2015**, 3, 390-398	7.1	12
34	Donor/Acceptor Dihydroindeno[1,2-a]fluorene and Dihydroindeno[2,1-b]fluorene: Towards New Families of Organic Semiconductors. *Chemistry - A European Journal*, **2015**, 21, 9426-39	4.8	46
33	Synthesis, electronic properties and WOLED devices of planar phosphorus-containing polycyclic aromatic hydrocarbons. *Chemistry - A European Journal*, **2015**, 21, 6547-56	4.8	45
32	4-Pyridyl-9,9?-spirobifluorenes as Host Materials for Green and Sky-Blue Phosphorescent OLEDs. *Journal of Physical Chemistry C*, **2015**, 119, 5790-5805	3.8	54
31	Exploiting the potential of 2-((5-(4-(diphenylamino)phenyl)thiophen-2-yl)methylene)malononitrile as an efficient donor molecule in vacuum-processed bulk-heterojunction organic solar cells. *RSC Advances*, **2014**, 4, 5236	3.7	37
30	Visible-emitting hybrid sol–gel materials comprising lanthanide ions: thin film behaviour and potential use as phosphors for solid-state lighting. *New Journal of Chemistry*, **2014**, 38, 5793-5800	3.6	15
29	1,2-dihydrophosphete: a platform for the molecular engineering of electroluminescent phosphorus materials for light-emitting devices. *Chemistry - A European Journal*, **2014**, 20, 9784-93	4.8	16
28	Interface effects on the moisture barrier properties of SiNx/PMMA/SiNx hybrid structure. *Surface and Coatings Technology*, **2014**, 254, 429-432	4.4	16
27	A one-pot route to prepare class II hybrid ionogel electrolytes. *New Journal of Chemistry*, **2014**, 38, 2008-2015	3.6	11
26	Improving the performance of polymer light-emitting devices with chemical tools. *Polymer International*, **2014**, 63, 1368-1377	3.3	9
25	9,9?-Spirobifluorene and 4-phenyl-9,9?-spirobifluorene: pure hydrocarbon small molecules as hosts for efficient green and blue PhOLEDs. *Journal of Materials Chemistry C*, **2014**, 2, 4156-4166	7.1	67
24	2-Substituted vs 4-substituted-9,9?-spirobifluorene host materials for green and blue phosphorescent OLEDs: a structure–property relationship study. *Tetrahedron*, **2014**, 70, 6337-6351	2.4	37
23	Benzofuran-fused phosphole: synthesis, electronic, and electroluminescence properties. *Organic Letters*, **2013**, 15, 330-3	6.2	84
22	Synthesis, characterization, morphological behaviour, and photo- and electroluminescence of highly blue-emitting fluorene-carbazole copolymers with alkyl side-chains of different lengths. *Journal of Materials Chemistry C*, **2013**, 1, 3207	7.1	15
21	Dependence of the properties of dihydroindenofluorene derivatives on positional isomerism: influence of the ring bridging. *Angewandte Chemie - International Edition*, **2013**, 52, 14147-51	16.4	82

20	Influence of extrinsic and intrinsic parameters onto the formation of surface relief gratings in polar azo molecular glasses. *Dyes and Pigments*, **2012**, 92, 790-797	4.6	8
19	White Organic Light-Emitting Diodes Based on Quench-Resistant Fluorescent Organophosphorus Dopants. *Advanced Functional Materials*, **2012**, 22, 567-576	15.6	53
18	2,2′-Biphospholes: building blocks for tuning the HOMO-LUMO gap of π-systems using covalent bonding and metal coordination. *Angewandte Chemie - International Edition*, **2012**, 51, 214-7	16.4	46
17	Persistent photoexcitation effect on the poly(3-hexylthiophene) film: Impedance measurement and modeling. *Synthetic Metals*, **2012**, 162, 460-465	3.6	27
16	Solution, solid state, and film properties of a structurally characterized highly luminescent molecular europium plastic material excitable with visible light. *Inorganic Chemistry*, **2011**, 50, 4851-6	5.1	71
15	Scanning electrochemical microscopy as an etching tool for ITO patterning. *Journal of Materials Chemistry*, **2011**, 21, 15962		5
14	Rodlike fluorescent pi-conjugated 3,3′-bipyridazine ligand: optical, electronic, and complexation properties. *Inorganic Chemistry*, **2010**, 49, 3991-4001	5.1	27
13	White electroluminescence of lanthanide complexes resulting from exciplex formation. *Journal of Materials Chemistry*, **2010**, 20, 2114		43
12	Phosphole-based π-conjugated electroluminescent materials for OLEDs. *New Journal of Chemistry*, **2010**, 34, 1603	3.6	48
11	Tunable Organophosphorus Dopants for Bright White Organic Light-Emitting Diodes with Simple Structures. *Advanced Materials*, **2009**, 21, 1261-1265	24	90
10	Selective electroless copper deposition on self-assembled dithiol monolayers. *ACS Applied Materials & Interfaces*, **2009**, 1, 584-9	9.5	46
9	A SPICE-like DC Model for Organic Thin-Film Transistors. *Journal of the Korean Physical Society*, **2009**, 54, 523-526	0.6	12
8	White organic light-emitting diodes with fine chromaticity tuning via ultrathin layer position shifting. *Applied Physics Letters*, **2006**, 89, 183513	3.4	59
7	Organic light-emitting diode (OLED) technology: materials, devices and display technologies. *Polymer International*, **2006**, 55, 572-582	3.3	641
6	6-(Arylvinylene)-3-bromopyridine Derivatives as Lego Building Blocks for Liquid Crystal, Nonlinear Optical, and Blue Light Emitting Chromophores. *Chemistry of Materials*, **2005**, 17, 502-513	9.6	37
5	Microcavity organic light-emitting diodes on silicon. *Applied Physics Letters*, **2002**, 81, 1717-1719	3.4	24
4	Photo-induced microstructured polymers for the optimisation and control of organic devices emission properties. *Synthetic Metals*, **2002**, 127, 75-79	3.6	8
3	Photovoltaic properties of Schottky and p-n type solar cells based on polythiophene. *Journal of Applied Physics*, **2001**, 90, 1047-1054	2.5	31

2	Self-supported PEDT/PVC conducting membranes for 4π sources preparation. *Applied Radiation and Isotopes*, **1998**, 49, 1259-1264	1.7	5
1	Quinolinophenothiazine as Electron Rich Fragment for RGB Single-Layer Phosphorescent Organic Light-Emitting Diodes. *Materials Chemistry Frontiers*,	7.8	2