Massimo Cocchi

List of Publications by Citations

77 papers	4,076 citations	34 h-index	63 g-index
79 ext. papers	4,299 ext. citations	4.7 avg, IF	4.96 L-index

#	Paper	IF	Citations
77	Light-emitting devices based on organometallic platinum complexes as emitters. *Coordination Chemistry Reviews*, **2011**, 255, 2401-2425	23.2	422
76	Magnetic field effects on emission and current in Alq3-based electroluminescent diodes. *Chemical Physics Letters*, **2003**, 380, 710-715	2.5	283
75	Quenching effects in organic electrophosphorescence. *Physical Review B*, **2002**, 66,	3.3	269
74	Mixing of Excimer and Exciplex Emission: A New Way to Improve White Light Emitting Organic Electrophosphorescent Diodes. *Advanced Materials*, **2007**, 19, 4000-4005	24	229
73	N?C?N-Coordinated Platinum(II) Complexes as Phosphorescent Emitters in High-Performance Organic Light-Emitting Devices. *Advanced Functional Materials*, **2007**, 17, 285-289	15.6	177
72	Unusual disparity in electroluminescence and photoluminescence spectra of vacuum-evaporated films of 1,1-bis ((di-4-tolylamino) phenyl) cyclohexane. *Applied Physics Letters*, **2000**, 76, 2352-2354	3.4	155
71	Blue-shifting the monomer and excimer phosphorescence of tridentate cyclometallated platinum(II) complexes for optimal white-light OLEDs. *Chemical Communications*, **2012**, 48, 5817-9	5.8	119
70	Single-dopant organic white electrophosphorescent diodes with very high efficiency and its reduced current density roll-off. *Applied Physics Letters*, **2007**, 90, 163508	3.4	106
69	Efficient exciplex emitting organic electroluminescent devices. *Applied Physics Letters*, **2002**, 80, 2401-2403	3.4	94
68	Modified Oligothiophenes with High Photo- and Electroluminescence Efficiencies. *Advanced Materials*, **1999**, 11, 1375-1379	24	93
67	Cyclometallated platinum(II) complexes of 1,3-di(2-pyridyl)benzenes: tuning excimer emission from red to near-infrared for NIR-OLEDs. *Journal of Materials Chemistry*, **2011**, 21, 15501		89
66	Impact of high electric fields on the charge recombination process in organic light-emitting diodes. *Journal Physics D: Applied Physics*, **2000**, 33, 2379-2387	3	89
65	Highly efficient near-infrared organic excimer electrophosphorescent diodes. *Applied Physics Letters*, **2007**, 90, 023506	3.4	88
64	Mixing of molecular exciton and excimer phosphorescence to tune color and efficiency of organic LEDs. *Organic Electronics*, **2010**, 11, 388-396	3.5	87
63	Luminescent iridium(III) complexes with N^C^N-coordinated terdentate ligands: dual tuning of the emission energy and application to organic light-emitting devices. *Inorganic Chemistry*, **2012**, 51, 3813-26	5.1	85
62	Multicomponent emission from organic light emitting diodes based on polymer dispersion of an aromatic diamine and an oxadiazole derivative. *Chemical Physics Letters*, **2000**, 318, 137-141	2.5	82
61	Coexistence of dissociation and annihilation of excitons on charge carriers in organic phosphorescent emitters. *Physical Review B*, **2006**, 74,	3.3	81

60	Voltage-tunable-color multilayer organic light emitting diode. *Applied Physics Letters*, **1996**, 68, 2317-2319	3.4	81
59	Excimer-based red/near-infrared organic light-emitting diodes with very high quantum efficiency. *Applied Physics Letters*, **2008**, 92, 113302	3.4	80
58	Color-variable highly efficient organic electrophosphorescent diodes manipulating molecular exciton and excimer emissions. *Applied Physics Letters*, **2009**, 94, 073309	3.4	76
57	Novel N^C^N-cyclometallated platinum complexes with acetylide co-ligands as efficient phosphors for OLEDs. *Journal of Materials Chemistry*, **2012**, 22, 10650		66
56	Magnetic field effects on organic electrophosphorescence. *Physical Review B*, **2004**, 70,	3.3	64
55	Platinum(II) complexes with cyclometallated 5-□delocalized-donor-1,3-di(2-pyridyl)benzene ligands as efficient phosphors for NIR-OLEDs. *Journal of Materials Chemistry C*, **2014**, 2, 1791	7.1	61
54	From red to near infra-red OLEDs: the remarkable effect of changing from X = -Cl to -NCS in a cyclometallated [Pt(N^C^N)X] complex {N^C^N = 5-mesityl-1,3-di-(2-pyridyl)benzene}. *Chemical Communications*, **2012**, 48, 3182-4	5.8	60
53	Triplet energy exchange between fluorescent and phosphorescent organic molecules in a solid state matrix. *Chemical Physics*, **2004**, 297, 39-48	2.3	60
52	Heteroleptic Copper(I) Pseudorotaxanes Incorporating Macrocyclic Phenanthroline Ligands of Different Sizes. *Journal of the American Chemical Society*, **2018**, 140, 2336-2347	16.4	58
51	Highly efficient organic electrophosphorescent light-emitting diodes with a reduced quantum efficiency roll off at large current densities. *Applied Physics Letters*, **2004**, 84, 1052-1054	3.4	55
50	Bi-molecular emissive excited states in platinum (II) complexes for high-performance organic light-emitting diodes. *Chemical Physics*, **2010**, 378, 47-57	2.3	53
49	Voltage-induced evolution of emission spectra in organic light-emitting diodes. *Journal of Applied Physics*, **1998**, 83, 4242-4248	2.5	53
48	Photophysics of an electrophosphorescent platinum (II) porphyrin in solid films. *Journal of Chemical Physics*, **2005**, 122, 154710	3.9	48
47	Organic electroluminescence from singlet and triplet exciplexes: Exciplex electrophosphorescent diode. *Chemical Physics Letters*, **2006**, 421, 351-355	2.5	45
46	Platinum and palladium complexes of fluorenyl porphyrins as red phosphors for light-emitting devices. *New Journal of Chemistry*, **2011**, 35, 438-444	3.6	44
45	Highly efficient exciplex phosphorescence from organic light-emitting diodes. *Chemical Physics Letters*, **2006**, 433, 145-149	2.5	42
44	Methylated Re(I) tetrazolato complexes: photophysical properties and Light Emitting Devices. *Dalton Transactions*, **2015**, 44, 8379-93	4.3	36
43	Phosphorescence response to excitonic interactions in Ir organic complex-based electrophosphorescent emitters. *Journal of Applied Physics*, **2005**, 98, 063532	2.5	33

42	Lanthanoid β-triketonates: a new class of highly efficient NIR emitters for bright NIR-OLEDs. *Chemical Communications*, **2014**, 50, 11580-2	5.8	32
41	Tetrazole iridium(III) complexes as a class of phosphorescent emitters for high-efficiency OLEDs. *Journal of Materials Chemistry C*, **2016**, 4, 10053-10060	7.1	31
40	The nature of emitting states in electroluminescence of polymeric films doped with anthracene and anthracene-based supramolecules. *Chemical Physics*, **2002**, 277, 387-396	2.3	27
39	Dinuclear Cu(I) complexes prepared from 2-diphenylphosphino-6-methylpyridine. *Polyhedron*, **2014**, 82, 158-172	2.7	26
38	Tuning the colour and efficiency in OLEDs by using amorphous or polycrystalline emitting layers. *Journal of Materials Chemistry C*, **2013**, 1, 1823	7.1	26
37	Highly efficient organic electroluminescent devices based on cyclometallated platinum complexes as new phosphorescent emitters. *Synthetic Metals*, **2004**, 147, 253-256	3.6	23
36	High-electric-field quantum yield roll-off in efficient europium chelates-based light-emitting diodes. *Applied Physics Letters*, **2005**, 86, 241106	3.4	23
35	Evidence for electric field dependent dissociation of exciplexes in electron donor-acceptor organic solid films. *Chemical Physics Letters*, **2006**, 432, 110-115	2.5	21
34	Unified approach to electroluminescence efficiency in organic light-emitting diodes. *Organic Electronics*, **2010**, 11, 724-730	3.5	20
33	Lanthanoid/Alkali Metal β-Triketonate Assemblies: A Robust Platform for Efficient NIR Emitters. *Chemistry - A European Journal*, **2015**, 21, 18354-63	4.8	19
32	Electric field and charge induced quenching of luminescence in electroluminescent emitters based on lanthanide complexes. *Chemical Physics Letters*, **2008**, 453, 82-86	2.5	19
31	3,4-Ethylenedioxy-substituted bithiophene-alt-thiophene-S,S-dioxide regular copolymers. Synthesis and conductive, magnetic and luminescence properties.. *Journal of Materials Chemistry*, **2003**, 13, 27-33		18
30	Visible and Near-Infrared Emission from Lanthanoid β-Triketonate Assemblies Incorporating Cesium Cations. *Inorganic Chemistry*, **2017**, 56, 8975-8985	5.1	17
29	Organic light sources look forward to optimize the photosynthesis process. *Photonics and Nanostructures - Fundamentals and Applications*, **2008**, 6, 225-230	2.6	16
28	Poly(3-pentylmethoxythiophene)/Alq3 heterostructure light emitting diodes. *Synthetic Metals*, **1999**, 106, 183-186	3.6	15
27	Exciton dissociation in tris(2-phenylpyridine) iridium (III) probed by electric field-assisted time-resolved photoluminescence. *Applied Physics Letters*, **2008**, 93, 093301	3.4	14
26	Charge photogeneration effect on the exciplex emission from thin organic films. *Applied Physics Letters*, **2006**, 89, 011105	3.4	13
25	Injection-controlled electroluminescence in organic light-emitting diodes based on molecularly-doped polymers: II. Double-layer devices. *Journal Physics D: Applied Physics*, **2001**, 34, 2282-2295	3	13

24	A new diamine as the hole-transporting material for organic light-emitting diodes. *Advanced Materials for Optics and Electronics*, **1999**, 9, 189-194		13
23	First member of an appealing class of cyclometalated 1,3-di-(2-pyridyl)benzene platinum(II) complexes for solution-processable OLEDs. *Journal of Materials Chemistry C*, **2020**, 8, 7873-7881	7.1	12
22	Injection-controlled electroluminescence in organic light-emitting diodes based on molecularly-doped polymers: I. Single-layer devices. *Journal Physics D: Applied Physics*, **2001**, 34, 2274-2281	3	12
21	Exciton quenching in emitter blends for organic light emitting devices probed by electric field-dependent time-resolved luminescence. *Journal of Chemical Physics*, **2008**, 128, 124712	3.9	11
20	Electric-field-induced quenching of photoluminescence in photoconductive organic thin film structures based on Eu3+ complexes. *Journal of Applied Physics*, **2006**, 100, 034318	2.5	11
19	The role played by cell configuration and layer preparation in LEDs based on hydroxyquinoline metal complexes and a triphenyl-diamine derivative (TPD). *Synthetic Metals*, **1999**, 102, 1018-1019	3.6	11
18	High efficiency electroluminescence devices using a series of Ir(III)-tetrazolate phosphors: Mechanisms for the drive current evolution of quantum yield. *Applied Physics Letters*, **2009**, 94, 083306	3.4	9
17	Organic light-emitting device with a mixed ligand 8-quinolinolato aluminium chelate as emitting and electron transporting material. *Synthetic Metals*, **2001**, 123, 529-533	3.6	9
16	Large electric field effects on photoluminescence of organic Eu3+ complex-based electroluminescent emitters. *Applied Physics Letters*, **2006**, 88, 051102	3.4	7
15	Optical and electroemission properties of thin films of supermolecular anthracene-based rotaxanes. *Applied Surface Science*, **2001**, 175-176, 369-373	6.7	7
14	Electric field effect on luminescence, and photoconduction in electron donor□electron acceptor organic solid films. *Chemical Physics Letters*, **2007**, 441, 286-293	2.5	6
13	Electro-photoluminescence in organics. *Chemical Physics Letters*, **2007**, 447, 279-283	2.5	6
12	Excimer-like electroluminescence from thin films of switchable supermolecular anthracene-based rotaxanes. *Synthetic Metals*, **2001**, 122, 27-29	3.6	6
11	Thomson-Like Electron-Hole Recombination in Organic Light-Emitting Diodes. *Japanese Journal of Applied Physics*, **2001**, 40, L282-L285	1.4	4
10	Photophysical properties of thin films and solid phase of switchable supermolecular anthracene-based rotaxanes. *Synthetic Metals*, **2001**, 122, 63-65	3.6	4
9	Light-emitting devices with a photoluminescent quinquethiophene derivative as an emitting material. *Synthetic Metals*, **2000**, 111-112, 83-86	3.6	3
8	Synthesis and optical characterization of dypyrril-dicyano-benzene (DPDCB) for organic electroluminescent devices. *Synthetic Metals*, **1999**, 102, 1017	3.6	3
7	Tuning the colour and efficiency of OLEDs * *This chapter is dedicated to the memory of Professor Jan Kalinowski, who died on 18 December2010. **2013**, 293-318		2

6	Organic electroluminescent devices containing phosphorescent molecules in molecularly doped hole transporting layer. *Macromolecular Symposia*, **2004**, 212, 509-514	0.8	2
5	Comment on "control of magnetic-field effect on electro-luminescence in Alq3-based organic light emitting diodes"[Appl. Phys. Lett. 88, 123501 (2006)]. *Applied Physics Letters*, **2009**, 94, 166104	3.4	1
4	Light Emitting Devices with Molecularly Doped Polymer Layers. A New Diamine as a Hole Transporting Molecule. *Materials Research Society Symposia Proceedings*, **1997**, 488, 617		1
3	Single and double layer organic LEDs based on dipyrril-dicyano-benzene (DPDCB). *Synthetic Metals*, **1999**, 102, 1016	3.6	
2	Light Emitting Vacuum Evaporated Devices Based on Triaryldiamine Materials and 8-Hydroxyquinoline Complexes of Al(III) and Zn(II). *Materials Research Society Symposia Proceedings*, **1999**, 598, 36		
1	Exciplex Formation in Light Emitting Molecularly Doped Polymer Diodes Based on Polycarbonate:TPD:PBD Blends. *Materials Research Society Symposia Proceedings*, **1999**, 598, 48		