Valeria Fattori

List of Publications by Year
in descending order

90 papers	4,544 citations	109137 35 h-index	98622 67 g-index
91 all docs	91 docs citations	91 times ranked	4054 citing authors

#	Article	IF	Citations
1	Light-emitting devices based on organometallic platinum complexes as emitters. Coordination Chemistry Reviews, 2011, 255, 2401-2425.	9.5	488
2	Magnetic field effects on emission and current in Alq3-based electroluminescent diodes. Chemical Physics Letters, 2003, 380, 710-715.	1.2	306
3	Quenching effects in organic electrophosphorescence. Physical Review B, 2002, 66, .	1.1	284
4	Mixing of Excimer and Exciplex Emission: A New Way to Improve White Light Emitting Organic Electrophosphorescent Diodes. Advanced Materials, 2007, 19, 4000-4005.	11.1	250
5	Nâˆ§Câˆ§N-Coordinated Platinum(II) Complexes as Phosphorescent Emitters in High-Performance Organic Light-Emitting Devices. Advanced Functional Materials, 2007, 17, 285-289.	7.8	191
6	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.	1.5	169
7	Blue-shifting the monomer and excimer phosphorescence of tridentate cyclometallated platinum(ii) complexes for optimal white-light OLEDs. Chemical Communications, 2012, 48, 5817.	2.2	132
8	Single-dopant organic white electrophosphorescent diodes with very high efficiency and its reduced current density roll-off. Applied Physics Letters, 2007, 90, 163508.	1.5	114
9	Modified Oligothiophenes with High Photo- and Electroluminescence Efficiencies. Advanced Materials, 1999, 11, 1375-1379.	11.1	101
10	Efficient exciplex emitting organic electroluminescent devices. Applied Physics Letters, 2002, 80, 2401-2403.	1.5	100
11	Highly efficient near-infrared organic excimer electrophosphorescent diodes. Applied Physics Letters, 2007, 90, 023506.	1.5	97
12	Mixing of molecular exciton and excimer phosphorescence to tune color and efficiency of organic LEDs. Organic Electronics, 2010, 11, 388-396.	1.4	97
13	Impact of high electric fields on the charge recombination process in organic light-emitting diodes. Journal Physics D: Applied Physics, 2000, 33, 2379-2387.	1.3	95
14	Luminescent Iridium(III) Complexes with N^{â^§}C^{â^§}N-Coordinated Terdentate Ligands: Dual Tuning of the Emission Energy and Application to Organic Light-Emitting Devices. Inorganic Chemistry, 2012, 51, 3813-3826.	1.9	93
15	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.	1.2	90
16	Voltageâ€tunableâ€color multilayer organic light emitting diode. Applied Physics Letters, 1996, 68, 2317-2319.	1.5	88
17	Coexistence of dissociation and annihilation of excitons on charge carriers in organic phosphorescent emitters. Physical Review B, 2006, 74, .	1.1	87
18	Color-variable highly efficient organic electrophosphorescent diodes manipulating molecular exciton and excimer emissions. Applied Physics Letters, 2009, 94, .	1.5	86

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19	Electric field effect on luminescence efficiency in 8-hydroxyquinoline aluminum (Alq3) thin films. Applied Physics Letters, 1997, 70, 1935-1937.	1.5	80
20	From red to near infra-red OLEDs: the remarkable effect of changing from X = â€“Cl to â€“NCS in a cyclometallated [Pt(Nâ^§Câ^§N)X] complex {Nâ^§Câ^§N = 5-mesityl-1,3-di-(2-pyridyl)benzene}. Chemical Communications, 2012, 48, 3182.	2.2	72
21	Magnetic field effects on organic electrophosphorescence. Physical Review B, 2004, 70, .	1.1	69
22	Triplet energy exchange between fluorescent and phosphorescent organic molecules in a solid state matrix. Chemical Physics, 2004, 297, 39-48.	0.9	66
23	Electroabsorption study of excited states in tris 8-hydroxyquinoline aluminum complex. Chemical Physics Letters, 1998, 283, 373-380.	1.2	65
24	Kinetics of charge carrier recombination in organic light-emitting diodes. Applied Physics Letters, 1998, 72, 513-515.	1.5	63
25	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.	1.5	60
26	Voltage-induced evolution of emission spectra in organic light-emitting diodes. Journal of Applied Physics, 1998, 83, 4242-4248.	1.1	58
27	Bi-molecular emissive excited states in platinum (II) complexes for high-performance organic light-emitting diodes. Chemical Physics, 2010, 378, 47-57.	0.9	57
28	Platinum and palladium complexes of fluorenyl porphyrins as red phosphors for light-emitting devices. New Journal of Chemistry, 2011, 35, 438-444.	1.4	57
29	Poly(lactic acid) as a transparent matrix for luminescent solar concentrators: a renewable material for a renewable energy technology. Energy and Environmental Science, 2011, 4, 2849.	15.6	54
30	Photophysics of an electrophosphorescent platinum (II) porphyrin in solid films. Journal of Chemical Physics, 2005, 122, 154710.	1.2	51
31	Highly efficient exciplex phosphorescence from organic light-emitting diodes. Chemical Physics Letters, 2006, 433, 145-149.	1.2	45
32	Oligothiophene-S,S-dioxides as a class of electron-acceptor materials for organic photovoltaics. Applied Physics Letters, 2004, 84, 1901-1903.	1.5	43
33	Operation mechanisms of thin film organic electroluminescent diodes. International Journal of Electronics, 1996, 81, 377-400.	0.9	39
34	Mechanochemical preparation of copper iodide clusters of interest for luminescent devices. Faraday Discussions, 2014, 170, 93-107.	1.6	39
35	White luminescence achieved by a multiple thermochromic emission in a hybrid organicâ€“inorganic compound based on 3-picolylamine and copper(<scp>i</scp>) iodide. Dalton Transactions, 2016, 45, 17939-17947.	1.6	37
36	Electroabsorption study of excited states in hydrogen-bonding solids: epindolidione and linear trans-quinacridone. Chemical Physics, 1994, 182, 341-352.	0.9	36

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37	Phosphorescence quantum yield enhanced by intermolecular hydrogen bonds in Cu4I4 clusters in the solid state. Dalton Transactions, 2014, 43, 9448.	1.6	35
38	Injection-controlled and volume-controlled electroluminescence in organic light-emitting diodes. Synthetic Metals, 1996, 76, 77-83.	2.1	33
39	Branched thiophene-based oligomers as electron acceptors for organic photovoltaics. Journal of Materials Chemistry, 2005, 15, 2220.	6.7	33
40	Silk doped with a bio-modified dye as a viable platform for eco-friendly luminescent solar concentrators. RSC Advances, 2012, 2, 8610.	1.7	32
41	A correlation between electrochemical properties and geometrical structure of some triarylamines used as hole transporting materials in organic electroluminescent devicesElectronic supplementary information (ESI) available: Optimised Cartesian coordinates calculated using AM1 of: 1. TPA 2. TTA 3. TPD 4. NPB 5. NBDB 6. TAPC 7. MTDATA 8. MPTAB 9. MDTAB. See http://www.rsc.org/suppdata/cp/b4/b403585b/. Physical Chemistry Chemical Physics, 2004, 6, 3092.	1.3	31
42	Tuning the colour and efficiency in OLEDs by using amorphous or polycrystalline emitting layers. Journal of Materials Chemistry C, 2013, 1, 1823.	2.7	30
43	The nature of emitting states in electroluminescence of polymeric films doped with anthracene and anthracene-based supramolecules. Chemical Physics, 2002, 277, 387-396.	0.9	28
44	Highly efficient organic electroluminescent devices based on cyclometallated platinum complexes as new phosphorescent emitters. Synthetic Metals, 2004, 147, 253-256.	2.1	27
45	High-electric-field quantum yield roll-off in efficient europium chelates-based light-emitting diodes. Applied Physics Letters, 2005, 86, 241106.	1.5	24
46	Exciton dynamics in an aromatic diamine at the interface with 8-hydroxyquinoline aluminum. Chemical Physics Letters, 1997, 265, 607-613.	1.2	22
47	Evidence for electric field dependent dissociation of exciplexes in electron donorâ€“acceptor organic solid films. Chemical Physics Letters, 2006, 432, 110-115.	1.2	22
48	Unified approach to electroluminescence efficiency in organic light-emitting diodes. Organic Electronics, 2010, 11, 724-730.	1.4	21
49	Photoconduction in solid films of C60. Synthetic Metals, 1996, 77, 181-188.	2.1	20
50	Surface reactions of singlet excitons in solid films of 8-hydroxyquinoline aluminium (Alq3). Chemical Physics, 2001, 266, 85-96.	0.9	20
51	Absorption tail photoconductivity in solid films of C60. Chemical Physics Letters, 1993, 211, 580-586.	1.2	19
52	Organic light sources look forward to optimize the photosynthesis process. Photonics and Nanostructures - Fundamentals and Applications, 2008, 6, 225-230.	1.0	19
53	Macrotrap Model for Charge-Carrier Transport in Low-Mobility Solids. Japanese Journal of Applied Physics, 1992, 31, 818-831.	0.8	18
54	Pyreneâ€“Fullerene Interaction and Its Effect on the Behavior of Photovoltaic Blends. Journal of Physical Chemistry C, 2016, 120, 6909-6919.	1.5	18

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55	The electron transfer rate of large TPA based compounds: a joint theoretical and electrochemical approach. Physical Chemistry Chemical Physics, 2005, 7, 3738.	1.3	17
56	Poly(3-pentylmethoxythiophene)/Alq3 heterostructure light emitting diodes. Synthetic Metals, 1999, 106, 183-186.	2.1	16
57	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.	1.3	15
58	Electrochemical preparation of conducting polymer composites: Poly(vinylchloride)/poly(dithienopyrrole) and poly(vinylchloride)/ poly(dithienothiophene). Synthetic Metals, 1993, 57, 3495-3500.	2.1	14
59	A new diamine as the hole-transporting material for organic light-emitting diodes. Advanced Materials for Optics and Electronics, 1999, 9, 189-194.	0.6	13
60	Exciton coupling in molecular salts of 2-(1,8-naphthalimido)ethanoic acid and cyclic amines: modulation of the solid-state luminescence. CrystEngComm, 2013, 15, 10470.	1.3	13
61	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.	2.1	12
62	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.	1.3	12
63	Electric-field-induced quenching of photoluminescence in photoconductive organic thin film structures based on Eu3+ complexes. Journal of Applied Physics, 2006, 100, 034318.	1.1	11
64	Organic light-emitting device with a mixed ligand 8-quinolinolato aluminium chelate as emitting and electron transporting material. Synthetic Metals, 2001, 123, 529-533.	2.1	9
65	Anthraceneâ€containing conjugated polymer showing four optical transitions upon doping: A spectroscopic study. Journal of Polymer Science, Part B: Polymer Physics, 2014, 52, 338-346.	2.4	9
66	Transient Photocurrents in Evaporated Films of Linear Trans-Quinacridone (LTQUIN). Molecular Crystals and Liquid Crystals, 1992, 211, 313-319.	0.3	8
67	Injection and charge transport effects on electroluminescence characteristics of molecularly-doped polymer light-emitting diodes. Synthetic Metals, 1998, 98, 1-8.	2.1	8
68	Excimer-like electroluminescence from thin films of switchable supermolecular anthracene-based rotaxanes. Synthetic Metals, 2001, 122, 27-29.	2.1	7
69	Optical and electroemission properties of thin films of supermolecular anthracene-based rotaxanes. Applied Surface Science, 2001, 175-176, 369-373.	3.1	7
70	Large electric field effects on photoluminescence of organic Eu3+ complex-based electroluminescent emitters. Applied Physics Letters, 2006, 88, 051102.	1.5	7
71	Electro-photoluminescence in organics. Chemical Physics Letters, 2007, 447, 279-283.	1.2	7
72	Charge carrier mobility and electronic properties of Al(Op)3: impact of excimer formation. Beilstein Journal of Nanotechnology, 2015, 6, 1107-1115.	1.5	7

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73	Photogeneration and Transport of Charge in Vacuum Sublimed Linear Trans-Quinacridone Layers. Molecular Crystals and Liquid Crystals, 1992, 217, 223-229.	0.3	5
74	Thomson-Like Electron-Hole Recombination in Organic Light-Emitting Diodes. Japanese Journal of Applied Physics, 2001, 40, L282-L285.	0.8	5
75	Single layer electroluminescent devices based on molecularly doped polymer (MDP) films. Synthetic Metals, 1997, 84, 379-380.	2.1	4
76	Reflection electrochromism of poly(4,4â€³-dipentoxy-2,2â€²:5â€²2â€³-dithiophene). Synthetic Metals, 1999, 101, 182-183.	2.1	4
77	Light-emitting devices with a photoluminescent quinquethiophene derivative as an emitting material. Synthetic Metals, 2000, 111-112, 83-86.	2.1	4
78	Photophysical properties of thin films and solid phase of switchable supermolecular anthracene-based rotaxanes. Synthetic Metals, 2001, 122, 63-65.	2.1	4
79	Thickness effect on photoconduction spectra in solid films of C60. Synthetic Metals, 1997, 86, 2339-2340.	2.1	3
80	Synthesis and optical characterization of dypyrril-dicyano-benzene (DPDCB) for organic electroluminescent devices. Synthetic Metals, 1999, 102, 1017.	2.1	3
81	Dependence of the morphology and photoelectronic properties of some polyterthiophenes on the electropolymerisation conditions. Synthetic Metals, 2001, 121, 1575-1576.	2.1	3
82	Organic electroluminescent devices containing phosphorescent molecules in molecularly doped hole transporting layer. Macromolecular Symposia, 2004, 212, 509-514.	0.4	2
83	Modulation of charge carrier mobility by side-chain engineering of bi(thienylenevinylene)thiophene containing PPEâ€“PPVs. RSC Advances, 2016, 6, 51642-51648.	1.7	2
84	Comment on â€œControl of magnetic-field effect on electro-luminescence in Alq3-based organic light emitting diodesâ€•[Appl. Phys. Lett. 88, 123501 (2006)]. Applied Physics Letters, 2009, 94, 166104.	1.5	1
85	Synthesis and optical and transport properties of a phenylâ€substituted polythiophene. Journal of Polymer Science Part A, 2011, 49, 2693-2699.	2.5	1
86	Transient Photocurrents in Amorphous and Polycrystalline 1,5-Diphenyl-3Î²Styrylpyrazoline (DSTP). Molecular Crystals and Liquid Crystals Incorporating Nonlinear Optics, 1990, 186, 115-122.	0.3	0
87	Photoconduction in Vacuum-Evaporated Films of Phenothiazine. Molecular Crystals and Liquid Crystals, 1993, 228, 207-212.	0.3	0
88	Operation mechanisms of organic electroluminescent diodes based on commonly used low-molecular-weight materials. , 1996, , .		0
89	Single and double layer organic LEDs based on dipyrril-dicyano-benzene (DPDCB). Synthetic Metals, 1999, 102, 1016.	2.1	0
90	OLEDs based on multi-emission by a single emitter. , 2014, , .		0