Peter I Djurovich

List of Publications by Year
in descending order

75 papers	15,884 citations	57752 44 h-index	79691 73 g-index
77 all docs	77 docs citations	77 times ranked	9121 citing authors

#	Article	IF	Citations
1	Highly Phosphorescent Bis-Cyclometalated Iridium Complexes:â€‰ Synthesis, Photophysical Characterization, and Use in Organic Light Emitting Diodes. Journal of the American Chemical Society, 2001, 123, 4304-4312.	13.7	2,639
2	Synthesis and Characterization of Phosphorescent Cyclometalated Iridium Complexes. Inorganic Chemistry, 2001, 40, 1704-1711.	4.0	1,191
3	Synthesis and Characterization of Facial and Meridional Tris-cyclometalated Iridium(III) Complexes. Journal of the American Chemical Society, 2003, 125, 7377-7387.	13.7	1,191
4	Synthesis and Characterization of Phosphorescent Cyclometalated Platinum Complexes. Inorganic Chemistry, 2002, 41, 3055-3066.	4.0	1,052
5	Endothermic energy transfer: A mechanism for generating very efficient high-energy phosphorescent emission in organic materials. Applied Physics Letters, 2001, 79, 2082-2084.	3.3	1,029
6	Deep blue phosphorescent organic light-emitting diodes with very high brightness and efficiency. Nature Materials, 2016, 15, 92-98.	27.5	696
7	Blue and Near-UV Phosphorescence from Iridium Complexes with Cyclometalated Pyrazolyl orN-Heterocyclic Carbene Ligands. Inorganic Chemistry, 2005, 44, 7992-8003.	4.0	629
8	Temperature Dependence of Blue Phosphorescent Cyclometalated Ir(III) Complexes. Journal of the American Chemical Society, 2009, 131, 9813-9822.	13.7	558
9	High efficiency single dopant white electrophosphorescent light emitting diodesElectronic supplementary information (ESI) available: emission spectra as a function of doping concentration for 3 in CBP, as well as the absorption and emission spectra of Irppz, CBP and mCP. See http://www.rsc.org/suppdata/nj/b2/b204301g/. New Journal of Chemistry, 2002, 26, 1171-1178.	2.8	486
10	Ultrahigh Energy Gap Hosts in Deep Blue Organic Electrophosphorescent Devices. Chemistry of Materials, 2004, 16, 4743-4747.	6.7	473
11	Luminescent zero-dimensional organic metal halide hybrids with near-unity quantum efficiency. Chemical Science, 2018, 9, 586-593.	7.4	467
12	Eliminating nonradiative decay in Cu(I) emitters: >99% quantum efficiency and microsecond lifetime. Science, 2019, 363, 601-606.	12.6	450
13	Phosphorescence versus Thermally Activated Delayed Fluorescence. Controlling Singletâ€“Triplet Splitting in Brightly Emitting and Sublimable Cu(I) Compounds. Journal of the American Chemical Society, 2014, 136, 16032-16038.	13.7	372
14	A Codeposition Route to CuIâˆ’Pyridine Coordination Complexes for Organic Light-Emitting Diodes. Journal of the American Chemical Society, 2011, 133, 3700-3703.	13.7	244
15	Highly Efficient Photo- and Electroluminescence from Two-Coordinate Cu(I) Complexes Featuring Nonconventional N-Heterocyclic Carbenes. Journal of the American Chemical Society, 2019, 141, 3576-3588.	13.7	223
16	A Zeroâ€Dimensional Organic Seesawâ€Shaped Tin Bromide with Highly Efficient Strongly Stokesâ€Shifted Deepâ€Red Emission. Angewandte Chemie - International Edition, 2018, 57, 1021-1024.	13.8	219
17	Understanding and predicting the orientation ofÂheteroleptic phosphors in organic light-emittingÂmaterials. Nature Materials, 2016, 15, 85-91.	27.5	217
18	Facile Preparation of Light Emitting Organic Metal Halide Crystals with Near-Unity Quantum Efficiency. Chemistry of Materials, 2018, 30, 2374-2378.	6.7	193

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19	â€œQuick-Silverâ€•from a Systematic Study of Highly Luminescent, Two-Coordinate, d¹⁰ Coinage Metal Complexes. Journal of the American Chemical Society, 2019, 141, 8616-8626.	13.7	187
20	Blue Emitting Single Crystalline Assembly of Metal Halide Clusters. Journal of the American Chemical Society, 2018, 140, 13181-13184.	13.7	183
21	Cyclometalated iridium and platinum complexes as singlet oxygen photosensitizers: quantum yields, quenching rates and correlation with electronic structures. Dalton Transactions, 2007, , 3763.	3.3	180
22	Cyclometalated Ir complexes in polymer organic light-emitting devices. Journal of Applied Physics, 2002, 92, 1570-1575.	2.5	174
23	Highly Efficient Broadband Yellow Phosphor Based on Zero-Dimensional Tin Mixed-Halide Perovskite. ACS Applied Materials & Interfaces, 2017, 9, 44579-44583.	8.0	174
24	Molecularly doped polymer light emitting diodes utilizing phosphorescent Pt(II) and Ir(III) dopants. Organic Electronics, 2001, 2, 53-62.	2.6	162
25	Emitter Orientation as a Key Parameter in Organic Light-Emitting Diodes. Physical Review Applied, 2017, 8, .	3.8	158
26	Synthesis and characterization of phosphorescent three-coordinate Cu(i)â€“NHC complexes. Chemical Communications, 2010, 46, 6696.	4.1	152
27	Blue Phosphorescent Zwitterionic Iridium(III) Complexes Featuring Weakly Coordinating <i>nido</i>-Carborane-Based Ligands. Journal of the American Chemical Society, 2016, 138, 15758-15765.	13.7	148
28	Photophysical Properties of Cyclometalated Pt(II) Complexes: Counterintuitive Blue Shift in Emission with an Expanded Ligand Ï€ System. Inorganic Chemistry, 2013, 52, 12403-12415.	4.0	143
29	Cu₄I₄ Clusters Supported by P^{âˆ§}N-type Ligands: New Structures with Tunable Emission Colors. Inorganic Chemistry, 2012, 51, 230-236.	4.0	140
30	Vibronic Structure in Room Temperature Photoluminescence of the Halide Perovskite Cs₃Bi₂Br₉. Inorganic Chemistry, 2017, 56, 42-45.	4.0	129
31	Control of emission colour with N-heterocyclic carbene (NHC) ligands in phosphorescent three-coordinate Cu(<scp>i</scp>) complexes. Chemical Communications, 2014, 50, 7176-7179.	4.1	122
32	Green Emitting Single-Crystalline Bulk Assembly of Metal Halide Clusters with Near-Unity Photoluminescence Quantum Efficiency. ACS Energy Letters, 2019, 4, 1579-1583.	17.4	117
33	Structural and Photophysical Studies of Phosphorescent Three-Coordinate Copper(I) Complexes Supported by an N-Heterocyclic Carbene Ligand. Organometallics, 2012, 31, 7983-7993.	2.3	113
34	Symmetry-Breaking Charge Transfer of Visible Light Absorbing Systems: Zinc Dipyrrins. Journal of Physical Chemistry C, 2014, 118, 21834-21845.	3.1	103
35	High efficiency organic photovoltaic cells based on a vapor deposited squaraine donor. Applied Physics Letters, 2009, 94, .	3.3	101
36	A Paradigm for Blue- or Red-Shifted Absorption of Small Molecules Depending on the Site of Ï€-Extension. Journal of the American Chemical Society, 2010, 132, 16247-16255.	13.7	96

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37	Phosphorescent 2-, 3- and 4-coordinate cyclic (alkyl)(amino)carbene (CAAC) Cu(<scp>i</scp>) complexes. Chemical Communications, 2017, 53, 9008-9011.	4.1	72
38	Enhancement of the Luminescent Efficiency in Carbene-Au^(I)-Aryl Complexes by the Restriction of Rennerâ€“Teller Distortion and Bond Rotation. Journal of the American Chemical Society, 2020, 142, 6158-6172.	13.7	72
39	A Zeroâ€Dimensional Organic Seesawâ€Shaped Tin Bromide with Highly Efficient Strongly Stokesâ€Shifted Deepâ€Red Emission. Angewandte Chemie, 2018, 130, 1033-1036.	2.0	58
40	Dependence of Phosphorescent Emitter Orientation on Deposition Technique in Doped Organic Films. Chemistry of Materials, 2016, 28, 712-715.	6.7	54
41	Synthesis and characterization of phosphorescent two-coordinate copper(<scp>i</scp>) complexes bearing diamidocarbene ligands. Dalton Transactions, 2017, 46, 745-752.	3.3	52
42	Organic Photovoltaics Using Tetraphenylbenzoporphyrin Complexes as Donor Layers. Advanced Materials, 2009, 21, 1517-1520.	21.0	51
43	Blue Emissive <i>fac</i>/<i>mer</i>â€Iridium (III) NHC Carbene Complexes and their Application in OLEDs. Advanced Optical Materials, 2021, 9, 2001994.	7.3	51
44	Charge transport and exciton dissociation in organic solar cells consisting of dipolar donors mixed with<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi mathvariant="normal">C</mml:mi><mml:mn>70</mml:mn></mml:msub></mml:math>. Physical Review B, 2015, 92, .	3.2	47
45	Understanding molecular fragmentation in blue phosphorescent organic light-emitting devices. Organic Electronics, 2019, 64, 15-21.	2.6	42
46	Highly Efficient Deep Blue Luminescence of 2-Coordinate Coinage Metal Complexes Bearing Bulky NHC Benzimidazolyl Carbene. Frontiers in Chemistry, 2020, 8, 401.	3.6	42
47	Properties of Fluorenyl Silanes in Organic Light Emitting Diodes. Chemistry of Materials, 2010, 22, 1724-1731.	6.7	37
48	Phenanthro[9,10-<i>d</i>]triazole and imidazole derivatives: high triplet energy host materials for blue phosphorescent organic light emitting devices. Materials Horizons, 2019, 6, 1179-1186.	12.2	36
49	Anionic order and band gap engineering in vacancy ordered triple perovskites. Chemical Communications, 2019, 55, 3164-3167.	4.1	36
50	Fine-Tuning Electronic Properties of Luminescent Pt(II) Complexes via Vertex-Differentiated Coordination of Sterically Invariant Carborane-Based Ligands. Organometallics, 2018, 37, 3122-3131.	2.3	35
51	In Situ Observation of Degradation by Ligand Substitution in Small-Molecule Phosphorescent Organic Light-Emitting Diodes. Chemistry of Materials, 2014, 26, 6578-6584.	6.7	30
52	Boron Dipyridylmethene (DIPYR) Dyes: Shedding Light on Pyridine-Based Chromophores. Journal of Organic Chemistry, 2017, 82, 7215-7222.	3.2	26
53	Tuning State Energies for Narrow Blue Emission in Tetradentate Pyridyl-Carbazole Platinum Complexes. Inorganic Chemistry, 2019, 58, 12348-12357.	4.0	22
54	Molecular Alignment of Homoleptic Iridium Phosphors in Organic Lightâ€Emitting Diodes. Advanced Materials, 2021, 33, e2102882.	21.0	21

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55	Toward rational design of TADF two-coordinate coinage metal complexes: understanding the relationship between natural transition orbital overlap and photophysical properties. Journal of Materials Chemistry C, 2022, 10, 4674-4683.	5.5	20
56	A Luminescent Twoâ€Coordinate Au^IBimetallic Complex with a Tandemâ€Carbene Structure: A Molecular Design for the Enhancement of TADF Radiative Decay Rate. Chemistry - A European Journal, 2021, 27, 6191-6197.	3.3	18
57	A quinoidal bis-phenalenyl-fused porphyrin with supramolecular organization and broad near-infrared absorption. Chemical Communications, 2016, 52, 1949-1952.	4.1	17
58	A molecular boron cluster-based chromophore with dual emission. Dalton Transactions, 2020, 49, 16245-16251.	3.3	15
59	Tuning the Photophysical and Electrochemical Properties of Azaâ€Boronâ€Dipyridylmethenes for Fluorescent Blue OLEDs. Advanced Functional Materials, 2021, 31, 2101175.	14.9	15
60	Symmetric â€œDouble Spiroâ€•Wide Energy Gap Hosts for Blue Phosphorescent OLED Devices. Advanced Optical Materials, 2022, 10, 2101530.	7.3	14
61	Synthesis and characterization of phosphorescent three-coordinate copper(I) complexes bearing bis(amino)cyclopropenylidene carbene (BAC). Inorganica Chimica Acta, 2018, 482, 246-251.	2.4	13
62	Vibrational Sum Frequency Generation Study of the Interference Effect on a Thin Film of 4,4â€²-Bis(N-carbazolyl)-1,1â€²-biphenyl (CBP) and Its Interfacial Orientation. ACS Applied Materials & Interfaces, 2020, 12, 26515-26524.	8.0	11
63	Sterically Invariant Carborane-Based Ligands for the Morphological and Electronic Control of Metalâ€“Organic Chalcogenolate Assemblies. Chemistry of Materials, 2022, 34, 6933-6943.	6.7	11
64	Tetraâ€Azaâ€Pentacenes by means of a Oneâ€Pot FriedlÃnder Synthesis. Chemistry - A European Journal, 2019, 25, 1472-1475.	3.3	9
65	Ï€-Extension of heterocycles <i>via</i> a Pd-catalyzed heterocyclic aryne annulation: Ï€-extended donors for TADF emitters. Chemical Science, 2022, 13, 5884-5892.	7.4	7
66	22.1: Invited Paper: Color Tuning Dopants for Electrophosphorescent Devices: Toward Efficient Blue Phosphorescence from Metal Complexes. Digest of Technical Papers SID International Symposium, 2005, 36, 1058.	0.3	6
67	Phosphorescent monometallic and bimetallic two-coordinate Au(I) complexes with N-heterocyclic carbene and aryl ligands. Inorganica Chimica Acta, 2021, 517, 120188.	2.4	6
68	Benchmarking the dynamic luminescent properties and UV stability of B18H22-based materials. Dalton Transactions, 0, , .	3.3	6
69	Molecular dynamics of four-coordinate carbene-Cu(I) complexes employing tris(pyrazolyl)borate ligands. Polyhedron, 2020, 180, 114381.	2.2	5
70	Influence of Dimethyl Sulfoxide on the Structural Topology during Crystallization of PbI₂. Inorganic Chemistry, 2020, 59, 16799-16803.	4.0	3
71	Dynamics of rotation in twoâ€coordinate thiazolyl copper(I) carbazolyl complexes. Applied Organometallic Chemistry, 0, , .	3.5	3
72	Cyclometallated Organoiridium Complexes as Emitters in Electrophosphorescent Devices. , 0, , 131-161.		1

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73	ORGANIC LIGHT EMITTING DEVICES. Materials and Energy, 2016, , 195-241.	2.5	1
74	Synthesis and Characterization of Zinc(II) Complexes Bearing 4-Acridinol and 1-Phenazinol Ligands. Inorganic Chemistry, 2021, 60, 866-871.	4.0	1
75	Tuning Singlet and Triplet Excited State Energies and Frontier Orbitals of Imidazole Host/Emitter for Hybrid White OLEDs. , 2019, , .		0