Peter I Djurovich

List of Publications by Year
in descending order

75 papers	15,884 citations	71004 43 h-index	90395 73 g-index
77 all docs	77 docs citations	77 times ranked	10209 citing authors

#	Article	IF	Citations
1	Symmetric â€œDouble Spiroâ€•Wide Energy Gap Hosts for Blue Phosphorescent OLED Devices. Advanced Optical Materials, 2022, 10, 2101530.	3.6	14
2	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.	2.7	20
3	Ï€-Extension of heterocycles via a Pd-catalyzed heterocyclic aryne annulation: Ï€-extended donors for TADF emitters. Chemical Science, 2022, 13, 5884-5892.	3.7	7
4	Sterically Invariant Carborane-Based Ligands for the Morphological and Electronic Control of Metalâ€“Organic Chalcogenolate Assemblies. Chemistry of Materials, 2022, 34, 6933-6943.	3.2	11
5	Phosphorescent monometallic and bimetallic two-coordinate Au(I) complexes with N-heterocyclic carbene and aryl ligands. Inorganica Chimica Acta, 2021, 517, 120188.	1.2	6
6	Synthesis and Characterization of Zinc(II) Complexes Bearing 4-Acridinol and 1-Phenazinol Ligands. Inorganic Chemistry, 2021, 60, 866-871.	1.9	1
7	Blue Emissive fac/merâ€Iridium (III) NHC Carbene Complexes and their Application in OLEDs. Advanced Optical Materials, 2021, 9, 2001994.	3.6	51
8	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.	1.7	18
9	Tuning the Photophysical and Electrochemical Properties of Azaâ€Boronâ€Dipyridylmethenes for Fluorescent Blue OLEDs. Advanced Functional Materials, 2021, 31, 2101175.	7.8	15
10	Molecular Alignment of Homoleptic Iridium Phosphors in Organic Lightâ€Emitting Diodes. Advanced Materials, 2021, 33, e2102882.	11.1	21
11	Influence of Dimethyl Sulfoxide on the Structural Topology during Crystallization of PbI₂. Inorganic Chemistry, 2020, 59, 16799-16803.	1.9	3
12	Highly Efficient Deep Blue Luminescence of 2-Coordinate Coinage Metal Complexes Bearing Bulky NHC Benzimidazolyl Carbene. Frontiers in Chemistry, 2020, 8, 401.	1.8	42
13	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.	4.0	11
14	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.	6.6	72
15	Molecular dynamics of four-coordinate carbene-Cu(I) complexes employing tris(pyrazolyl)borate ligands. Polyhedron, 2020, 180, 114381.	1.0	5
16	A molecular boron cluster-based chromophore with dual emission. Dalton Transactions, 2020, 49, 16245-16251.	1.6	15
17	Tuning State Energies for Narrow Blue Emission in Tetradentate Pyridyl-Carbazole Platinum Complexes. Inorganic Chemistry, 2019, 58, 12348-12357.	1.9	22
18	Green Emitting Single-Crystalline Bulk Assembly of Metal Halide Clusters with Near-Unity Photoluminescence Quantum Efficiency. ACS Energy Letters, 2019, 4, 1579-1583.	8.8	117

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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.	6.6	187
20	Eliminating nonradiative decay in Cu(I) emitters: >99% quantum efficiency and microsecond lifetime. Science, 2019, 363, 601-606.	6.0	450
21	Phenanthro[9,10-d]triazole and imidazole derivatives: high triplet energy host materials for blue phosphorescent organic light emitting devices. Materials Horizons, 2019, 6, 1179-1186.	6.4	36
22	Anionic order and band gap engineering in vacancy ordered triple perovskites. Chemical Communications, 2019, 55, 3164-3167.	2.2	36
23	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.	6.6	223
24	Tetraâ€Azaâ€Pentacenes by means of a Oneâ€Pot FriedlÃnder Synthesis. Chemistry - A European Journal, 2019, 25, 1472-1475.	1.7	9
25	Understanding molecular fragmentation in blue phosphorescent organic light-emitting devices. Organic Electronics, 2019, 64, 15-21.	1.4	42
26	Tuning Singlet and Triplet Excited State Energies and Frontier Orbitals of Imidazole Host/Emitter for Hybrid White OLEDs. , 2019, , .		0
27	A Zeroâ€Dimensional Organic Seesawâ€Shaped Tin Bromide with Highly Efficient Strongly Stokesâ€Shifted Deepâ€Red Emission. Angewandte Chemie, 2018, 130, 1033-1036.	1.6	58
28	Facile Preparation of Light Emitting Organic Metal Halide Crystals with Near-Unity Quantum Efficiency. Chemistry of Materials, 2018, 30, 2374-2378.	3.2	193
29	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.	7.2	219
30	Luminescent zero-dimensional organic metal halide hybrids with near-unity quantum efficiency. Chemical Science, 2018, 9, 586-593.	3.7	467
31	Blue Emitting Single Crystalline Assembly of Metal Halide Clusters. Journal of the American Chemical Society, 2018, 140, 13181-13184.	6.6	183
32	Fine-Tuning Electronic Properties of Luminescent Pt(II) Complexes via Vertex-Differentiated Coordination of Sterically Invariant Carborane-Based Ligands. Organometallics, 2018, 37, 3122-3131.	1.1	35
33	Synthesis and characterization of phosphorescent three-coordinate copper(I) complexes bearing bis(amino)cyclopropenylidene carbene (BAC). Inorganica Chimica Acta, 2018, 482, 246-251.	1.2	13
34	Synthesis and characterization of phosphorescent two-coordinate copper(<scp>i</scp>) complexes bearing diamidocarbene ligands. Dalton Transactions, 2017, 46, 745-752.	1.6	52
35	Emitter Orientation as a Key Parameter in Organic Light-Emitting Diodes. Physical Review Applied, 2017, 8, .	1.5	158
36	Phosphorescent 2-, 3- and 4-coordinate cyclic (alkyl)(amino)carbene (CAAC) Cu(<scp>i</scp>) complexes. Chemical Communications, 2017, 53, 9008-9011.	2.2	72

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37	Highly Efficient Broadband Yellow Phosphor Based on Zero-Dimensional Tin Mixed-Halide Perovskite. ACS Applied Materials & Interfaces, 2017, 9, 44579-44583.	4.0	174
38	Boron Dipyridylmethene (DIPYR) Dyes: Shedding Light on Pyridine-Based Chromophores. Journal of Organic Chemistry, 2017, 82, 7215-7222.	1.7	26
39	Vibronic Structure in Room Temperature Photoluminescence of the Halide Perovskite Cs₃Bi₂Br₉. Inorganic Chemistry, 2017, 56, 42-45.	1.9	129
40	ORGANIC LIGHT EMITTING DEVICES. Materials and Energy, 2016, , 195-241.	2.5	1
41	Blue Phosphorescent Zwitterionic Iridium(III) Complexes Featuring Weakly Coordinating nido-Carborane-Based Ligands. Journal of the American Chemical Society, 2016, 138, 15758-15765.	6.6	148
42	Dependence of Phosphorescent Emitter Orientation on Deposition Technique in Doped Organic Films. Chemistry of Materials, 2016, 28, 712-715.	3.2	54
43	A quinoidal bis-phenalenyl-fused porphyrin with supramolecular organization and broad near-infrared absorption. Chemical Communications, 2016, 52, 1949-1952.	2.2	17
44	Understanding and predicting the orientation ofÂheteroleptic phosphors in organic light-emittingÂmaterials. Nature Materials, 2016, 15, 85-91.	13.3	217
45	Deep blue phosphorescent organic light-emitting diodes with very high brightness and efficiency. Nature Materials, 2016, 15, 92-98.	13.3	696
46	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, .	1.1	47
47	In Situ Observation of Degradation by Ligand Substitution in Small-Molecule Phosphorescent Organic Light-Emitting Diodes. Chemistry of Materials, 2014, 26, 6578-6584.	3.2	30
48	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.	6.6	372
49	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.	2.2	122
50	Symmetry-Breaking Charge Transfer of Visible Light Absorbing Systems: Zinc Dipyrrins. Journal of Physical Chemistry C, 2014, 118, 21834-21845.	1.5	103
51	Photophysical Properties of Cyclometalated Pt(II) Complexes: Counterintuitive Blue Shift in Emission with an Expanded Ligand Ï€ System. Inorganic Chemistry, 2013, 52, 12403-12415.	1.9	143
52	Structural and Photophysical Studies of Phosphorescent Three-Coordinate Copper(I) Complexes Supported by an N-Heterocyclic Carbene Ligand. Organometallics, 2012, 31, 7983-7993.	1.1	113
53	Cu₄I₄ Clusters Supported by P^{â^§}N-type Ligands: New Structures with Tunable Emission Colors. Inorganic Chemistry, 2012, 51, 230-236.	1.9	140
54	A Codeposition Route to Culâ^'Pyridine Coordination Complexes for Organic Light-Emitting Diodes. Journal of the American Chemical Society, 2011, 133, 3700-3703.	6.6	244

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55	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.	6.6	96
56	Properties of Fluorenyl Silanes in Organic Light Emitting Diodes. Chemistry of Materials, 2010, 22, 1724-1731.	3.2	37
57	Synthesis and characterization of phosphorescent three-coordinate Cu(i)â€“NHC complexes. Chemical Communications, 2010, 46, 6696.	2.2	152
58	Organic Photovoltaics Using Tetraphenylbenzoporphyrin Complexes as Donor Layers. Advanced Materials, 2009, 21, 1517-1520.	11.1	51
59	High efficiency organic photovoltaic cells based on a vapor deposited squaraine donor. Applied Physics Letters, 2009, 94, .	1.5	101
60	Temperature Dependence of Blue Phosphorescent Cyclometalated Ir(III) Complexes. Journal of the American Chemical Society, 2009, 131, 9813-9822.	6.6	558
61	Cyclometalated iridium and platinum complexes as singlet oxygen photosensitizers: quantum yields, quenching rates and correlation with electronic structures. Dalton Transactions, 2007, , 3763.	1.6	180
62	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.	0.1	6
63	Blue and Near-UV Phosphorescence from Iridium Complexes with Cyclometalated Pyrazolyl orN-Heterocyclic Carbene Ligands. Inorganic Chemistry, 2005, 44, 7992-8003.	1.9	629
64	Ultrahigh Energy Gap Hosts in Deep Blue Organic Electrophosphorescent Devices. Chemistry of Materials, 2004, 16, 4743-4747.	3.2	473
65	Synthesis and Characterization of Facial and Meridional Tris-cyclometalated Iridium(III) Complexes. Journal of the American Chemical Society, 2003, 125, 7377-7387.	6.6	1,191
66	Cyclometalated Ir complexes in polymer organic light-emitting devices. Journal of Applied Physics, 2002, 92, 1570-1575.	1.1	174
67	Synthesis and Characterization of Phosphorescent Cyclometalated Platinum Complexes. Inorganic Chemistry, 2002, 41, 3055-3066.	1.9	1,052
68	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.	1.4	486
69	Endothermic energy transfer: A mechanism for generating very efficient high-energy phosphorescent emission in organic materials. Applied Physics Letters, 2001, 79, 2082-2084.	1.5	1,029
70	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.	6.6	2,639
71	Molecularly doped polymer light emitting diodes utilizing phosphorescent Pt(II) and Ir(III) dopants. Organic Electronics, 2001, 2, 53-62.	1.4	162
72	Synthesis and Characterization of Phosphorescent Cyclometalated Iridium Complexes. Inorganic Chemistry, 2001, 40, 1704-1711.	1.9	1,191

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73	Cyclometallated Organoiridium Complexes as Emitters in Electrophosphorescent Devices. , 0, , 131-161.		1
74	Benchmarking the dynamic luminescent properties and UV stability of B18H22-based materials. Dalton Transactions, 0, , .	1.6	6
75	Dynamics of rotation in twoâ€coordinate thiazolyl copper(I) carbazolyl complexes. Applied Organometallic Chemistry, 0, , .	1.7	3