

Mark E Thompson

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278 papers	39,323 citations	96 h-index	196 g-index
299 ext. papers	41,742 ext. citations	10 avg, IF	7.21 L-index

#	Paper	IF	Citations
278	Nearly 100% internal phosphorescence efficiency in an organic light-emitting device. <i>Journal of Applied Physics</i> , 2001 , 90, 5048-5051	2.5	2883
277	Highly phosphorescent bis-cyclometalated iridium complexes: synthesis, photophysical characterization, and use in organic light emitting diodes. <i>Journal of the American Chemical Society</i> , 2001 , 123, 4304-12	16.4	2408
276	Management of singlet and triplet excitons for efficient white organic light-emitting devices. <i>Nature</i> , 2006 , 440, 908-12	50.4	1995
275	Synthesis and characterization of phosphorescent cyclometalated iridium complexes. <i>Inorganic Chemistry</i> , 2001 , 40, 1704-11	5.1	1113
274	Synthesis and characterization of facial and meridional tris-cyclometalated iridium(III) complexes. <i>Journal of the American Chemical Society</i> , 2003 , 125, 7377-87	16.4	1097
273	Continuous, highly flexible, and transparent graphene films by chemical vapor deposition for organic photovoltaics. <i>ACS Nano</i> , 2010 , 4, 2865-73	16.7	1052
272	Endothermic energy transfer: A mechanism for generating very efficient high-energy phosphorescent emission in organic materials. <i>Applied Physics Letters</i> , 2001 , 79, 2082-2084	3.4	953
271	High-efficiency organic electrophosphorescent devices with tris(2-phenylpyridine)iridium doped into electron-transporting materials. <i>Applied Physics Letters</i> , 2000 , 77, 904-906	3.4	929
270	Synthesis and characterization of phosphorescent cyclometalated platinum complexes. <i>Inorganic Chemistry</i> , 2002 , 41, 3055-66	5.1	927
269	High-efficiency red electrophosphorescence devices. <i>Applied Physics Letters</i> , 2001 , 78, 1622-1624	3.4	621
268	Introduction: Organic Electronics and Optoelectronics. <i>Chemical Reviews</i> , 2007 , 107, 923-925	68.1	620
267	Synthetic control of excited-state properties in cyclometalated Ir(III) complexes using ancillary ligands. <i>Inorganic Chemistry</i> , 2005 , 44, 1713-27	5.1	606
266	Hydroxylated quantum dots as luminescent probes for in situ hybridization. <i>Journal of the American Chemical Society</i> , 2001 , 123, 4103-4	16.4	580
265	Blue and near-UV phosphorescence from iridium complexes with cyclometalated pyrazolyl or N-heterocyclic carbene ligands. <i>Inorganic Chemistry</i> , 2005 , 44, 7992-8003	5.1	573
264	Deep blue phosphorescent organic light-emitting diodes with very high brightness and efficiency. <i>Nature Materials</i> , 2016 , 15, 92-8	27	539
263	Cationic bis-cyclometalated iridium(III) diimine complexes and their use in efficient blue, green, and red electroluminescent devices. <i>Inorganic Chemistry</i> , 2005 , 44, 8723-32	5.1	533
262	Three-Color, Tunable, Organic Light-Emitting Devices. <i>Science</i> , 1997 , 276, 2009-2011	33.3	522

261	Temperature dependence of blue phosphorescent cyclometalated Ir(III) complexes. <i>Journal of the American Chemical Society</i> , 2009 , 131, 9813-22	16.4	482
260	Molecular and morphological influences on the open circuit voltages of organic photovoltaic devices. <i>Journal of the American Chemical Society</i> , 2009 , 131, 9281-6	16.4	463
259	Ultrahigh Energy Gap Hosts in Deep Blue Organic Electrophosphorescent Devices. <i>Chemistry of Materials</i> , 2004 , 16, 4743-4747	9.6	450
258	High efficiency single dopant white electrophosphorescent light emitting diodes. <i>New Journal of Chemistry</i> , 2002 , 26, 1171-1178	3.6	450
257	Enhanced open-circuit voltage in subphthalocyanine/C60 organic photovoltaic cells. <i>Journal of the American Chemical Society</i> , 2006 , 128, 8108-9	16.4	428
256	From Molecules to Materials: Current Trends and Future Directions. <i>Advanced Materials</i> , 1998 , 10, 1297-1336	13.6	390
255	Synthesis and structure of (cis)-[1-ferrocenyl-2-(4-nitrophenyl)ethylene], an organotransition metal compound with a large second-order optical nonlinearity. <i>Nature</i> , 1987 , 330, 360-362	50.4	369
254	Complementary detection of prostate-specific antigen using In2O3 nanowires and carbon nanotubes. <i>Journal of the American Chemical Society</i> , 2005 , 127, 12484-5	16.4	336
253	Measurement of the lowest unoccupied molecular orbital energies of molecular organic semiconductors. <i>Organic Electronics</i> , 2009 , 10, 515-520	3.5	329
252	Asymmetric Triaryldiamines as Thermally Stable Hole Transporting Layers for Organic Light-Emitting Devices. <i>Chemistry of Materials</i> , 1998 , 10, 2235-2250	9.6	320
251	New charge-carrier blocking materials for high efficiency OLEDs. <i>Organic Electronics</i> , 2003 , 4, 77-87	3.5	312
250	Phosphorescence versus thermally activated delayed fluorescence. Controlling singlet-triplet splitting in brightly emitting and sublimable Cu(I) compounds. <i>Journal of the American Chemical Society</i> , 2014 , 136, 16032-8	16.4	305
249	Solution-phase synthesis of SnSe nanocrystals for use in solar cells. <i>Journal of the American Chemical Society</i> , 2010 , 132, 4060-1	16.4	280
248	Efficient, Saturated Red Organic Light Emitting Devices Based on Phosphorescent Platinum(II) Porphyrins. <i>Chemistry of Materials</i> , 1999 , 11, 3709-3713	9.6	279
247	Eliminating nonradiative decay in Cu(I) emitters: >99% quantum efficiency and microsecond lifetime. <i>Science</i> , 2019 , 363, 601-606	33.3	271
246	Synthetic control of Pt...Pt separation and photophysics of binuclear platinum complexes. <i>Journal of the American Chemical Society</i> , 2005 , 127, 28-9	16.4	270
245	Platinum-functionalized random copolymers for use in solution-processible, efficient, near-white organic light-emitting diodes. <i>Journal of the American Chemical Society</i> , 2004 , 126, 15388-9	16.4	263
244	Solvent-Annealed Crystalline Squaraine: PC70BM (1:6) Solar Cells. <i>Advanced Energy Materials</i> , 2011 , 1, 184-187	21.8	242

- 243 Efficient singlet fission discovered in a disordered acene film. *Journal of the American Chemical Society*, **2012**, 134, 6388-400 16.4 239
- 242 Phosphorescence quenching by conjugated polymers. *Journal of the American Chemical Society*, **2003**, 125, 7796-7 16.4 237
- 241 Stable photoinduced charge separation in layered viologen compounds. *Nature*, **1992**, 358, 656-658 50.4 236
- 240 Hole Transporting Materials with High Glass Transition Temperatures for Use in Organic Light-Emitting Devices. *Advanced Materials*, **1998**, 10, 1108-1112 24 234
- 239 A codeposition route to CuI-pyridine coordination complexes for organic light-emitting diodes. *Journal of the American Chemical Society*, **2011**, 133, 3700-3 16.4 227
- 238 Highly efficient, near-infrared electrophosphorescence from a Pt-metalloporphyrin complex. *Angewandte Chemie - International Edition*, **2007**, 46, 1109-12 16.4 227
- 237 Bis-cyclometalated Ir(III) complexes as efficient singlet oxygen sensitizers. *Journal of the American Chemical Society*, **2002**, 124, 14828-9 16.4 226
- 236 1,8-Naphthalimides in phosphorescent organic LEDs: the interplay between dopant, exciplex, and host emission. *Journal of the American Chemical Society*, **2002**, 124, 9945-54 16.4 224
- 235 High operational stability of electrophosphorescent devices. *Applied Physics Letters*, **2002**, 81, 162-164 3.4 224
- 234 Colloidal Metal Deposition onto Functionalized Polystyrene Microspheres. *Chemistry of Materials*, **1999**, 11, 2389-2399 9.6 219
- 233 Selective functionalization of In₂O₃ nanowire mat devices for biosensing applications. *Journal of the American Chemical Society*, **2005**, 127, 6922-3 16.4 218
- 232 Use of Layered Metal Phosphonates for the Design and Construction of Molecular Materials. *Chemistry of Materials*, **1994**, 6, 1168-1175 9.6 216
- 231 Dendrimer-Containing Light-Emitting Diodes: Toward Site-Isolation of Chromophores. *Journal of the American Chemical Society*, **2000**, 122, 12385-12386 16.4 206
- 230 Singlet Fission in a Covalently Linked Cofacial Alkynyltetracene Dimer. *Journal of the American Chemical Society*, **2016**, 138, 617-27 16.4 204
- 229 High-performance polymer light-emitting diodes doped with a red phosphorescent iridium complex. *Applied Physics Letters*, **2002**, 80, 2308-2310 3.4 204
- 228 A round robin study of flexible large-area roll-to-roll processed polymer solar cell modules. *Solar Energy Materials and Solar Cells*, **2009**, 93, 1968-1977 6.4 194
- 227 Excimer and electron transfer quenching studies of a cyclometalated platinum complex. *Coordination Chemistry Reviews*, **2005**, 249, 1501-1510 23.2 194
- 226 Platinum Binuclear Complexes as Phosphorescent Dopants for Monochromatic and White Organic Light-Emitting Diodes. *Advanced Functional Materials*, **2006**, 16, 2438-2446 15.6 186

225	Simultaneous light emission from a mixture of dendrimer encapsulated chromophores: a model for single-layer multichromophoric organic light-emitting diodes. <i>Journal of the American Chemical Society</i> , 2003 , 125, 13165-72	16.4	184
224	Understanding and predicting the orientation of heteroleptic phosphors in organic light-emitting materials. <i>Nature Materials</i> , 2016 , 15, 85-91	27	181
223	High-efficiency yellow double-doped organic light-emitting devices based on phosphor-sensitized fluorescence. <i>Applied Physics Letters</i> , 2001 , 79, 1045-1047	3.4	181
222	Improving the performance of conjugated polymer-based devices by control of interchain interactions and polymer film morphology. <i>Applied Physics Letters</i> , 2000 , 76, 2454-2456	3.4	171
221	Label-free, electrical detection of the SARS virus N-protein with nanowire biosensors utilizing antibody mimics as capture probes. <i>ACS Nano</i> , 2009 , 3, 1219-24	16.7	170
220	Cyclometalated iridium and platinum complexes as singlet oxygen photosensitizers: quantum yields, quenching rates and correlation with electronic structures. <i>Dalton Transactions</i> , 2007 , 3763-70	4.3	159
219	Cyclometalated Ir complexes in polymer organic light-emitting devices. <i>Journal of Applied Physics</i> , 2002 , 92, 1570-1575	2.5	156
218	Molecularly doped polymer light emitting diodes utilizing phosphorescent Pt(II) and Ir(III) dopants. <i>Organic Electronics</i> , 2001 , 2, 53-62	3.5	155
217	Hot excited state management for long-lived blue phosphorescent organic light-emitting diodes. <i>Nature Communications</i> , 2017 , 8, 15566	17.4	153
216	Solution-processed squaraine bulk heterojunction photovoltaic cells. <i>ACS Nano</i> , 2010 , 4, 1927-34	16.7	153
215	Synthesis and Applications of Palladium-Coated Poly(vinylpyridine) Nanospheres. <i>Chemistry of Materials</i> , 2000 , 12, 1985-1989	9.6	146
214	Highly Efficient Photo- and Electroluminescence from Two-Coordinate Cu(I) Complexes Featuring Nonconventional N-Heterocyclic Carbenes. <i>Journal of the American Chemical Society</i> , 2019 , 141, 3576-3588	16.4	143
213	Singlet and triplet excitation management in a bichromophoric near-infrared-phosphorescent BODIPY-benzoporphyrin platinum complex. <i>Journal of the American Chemical Society</i> , 2011 , 133, 88-96	16.4	139
212	Blue light emitting Ir(III) compounds for OLEDs - new insights into ancillary ligand effects on the emitting triplet state. <i>Journal of Physical Chemistry A</i> , 2009 , 113, 5927-32	2.8	138
211	Efficient dipyrin-centered phosphorescence at room temperature from bis-cyclometalated iridium(III) dipyrinato complexes. <i>Inorganic Chemistry</i> , 2010 , 49, 6077-84	5.1	135
210	Synthesis and characterization of cyclometalated Ir(III) complexes with pyrazolyl ancillary ligands. <i>Polyhedron</i> , 2004 , 23, 419-428	2.7	135
209	Synthesis and characterization of phosphorescent three-coordinate Cu(I)-NHC complexes. <i>Chemical Communications</i> , 2010 , 46, 6696-8	5.8	134
208	Living Radical Polymerization of Bipolar Transport Materials for Highly Efficient Light Emitting Diodes. <i>Chemistry of Materials</i> , 2006 , 18, 386-395	9.6	130

207	Study of ion-paired iridium complexes (soft salts) and their application in organic light emitting diodes. <i>Journal of the American Chemical Society</i> , 2010 , 132, 3133-9	16.4	129
206	Photophysical properties of cyclometalated Pt(II) complexes: counterintuitive blue shift in emission with an expanded ligand system. <i>Inorganic Chemistry</i> , 2013 , 52, 12403-15	5.1	126
205	Efficient, ordered bulk heterojunction nanocrystalline solar cells by annealing of ultrathin squaraine thin films. <i>Nano Letters</i> , 2010 , 10, 3555-9	11.5	126
204	Cu ₄ I ₄ clusters supported by P ⁺ N-type ligands: new structures with tunable emission colors. <i>Inorganic Chemistry</i> , 2012 , 51, 230-6	5.1	123
203	The molecular nature of photovoltage losses in organic solar cells. <i>Chemical Communications</i> , 2011 , 47, 3702-16	5.8	117
202	Porphyrin-tape/c(60) organic photodetectors with 6.5% external quantum efficiency in the near infrared. <i>Advanced Materials</i> , 2010 , 22, 2780-3	24	117
201	Matrix effects on the triplet state of the OLED emitter Ir(4,6-dFppy) ₂ (pic) (Flrpic): investigations by high-resolution optical spectroscopy. <i>Inorganic Chemistry</i> , 2009 , 48, 1928-37	5.1	115
200	Symmetry-breaking intramolecular charge transfer in the excited state of meso-linked BODIPY dyads. <i>Chemical Communications</i> , 2012 , 48, 284-6	5.8	113
199	Emitter Orientation as a Key Parameter in Organic Light-Emitting Diodes. <i>Physical Review Applied</i> , 2017 , 8,	4.3	111
198	The effects of copper phthalocyanine purity on organic solar cell performance. <i>Organic Electronics</i> , 2005 , 6, 242-246	3.5	110
197	Independent control of bulk and interfacial morphologies of small molecular weight organic heterojunction solar cells. <i>Nano Letters</i> , 2012 , 12, 4366-71	11.5	109
196	Efficient photoinduced charge separation in layered zirconium viologen phosphonate compounds. <i>Journal of the American Chemical Society</i> , 1993 , 115, 11767-11774	16.4	109
195	New Thermally Cross-Linkable Polymer and Its Application as a Hole-Transporting Layer for Solution Processed Multilayer Organic Light Emitting Diodes. <i>Chemistry of Materials</i> , 2007 , 19, 4827-4832	9.6	107
194	Cyclometalated iridium(III)-sensitized titanium dioxide solar cells. <i>Photochemical and Photobiological Sciences</i> , 2006 , 5, 871-3	4.2	107
193	N,N-Diarylanilinosquaraines and Their Application to Organic Photovoltaics. <i>Chemistry of Materials</i> , 2011 , 23, 4789-4798	9.6	106
192	Thermally Stable Hole-Transporting Materials Based upon a Fluorene Core. <i>Advanced Functional Materials</i> , 2002 , 12, 245	15.6	104
191	Crystal Structure of a Porous Zirconium Phosphate/Phosphonate Compound and Photocatalytic Hydrogen Production from Related Materials. <i>Chemistry of Materials</i> , 1996 , 8, 2239-2246	9.6	104
190	"Quick-Silver" from a Systematic Study of Highly Luminescent, Two-Coordinate, d Coinage Metal Complexes. <i>Journal of the American Chemical Society</i> , 2019 , 141, 8616-8626	16.4	102

189	Structural and Photophysical Studies of Phosphorescent Three-Coordinate Copper(I) Complexes Supported by an N-Heterocyclic Carbene Ligand. <i>Organometallics</i> , 2012 , 31, 7983-7993	3.8	102
188	Effect of carbazole- π -diazole excited-state complexes on the efficiency of dye-doped light-emitting diodes. <i>Journal of Applied Physics</i> , 2002 , 91, 6717	2.5	102
187	Control of emission colour with N-heterocyclic carbene (NHC) ligands in phosphorescent three-coordinate Cu(I) complexes. <i>Chemical Communications</i> , 2014 , 50, 7176-9	5.8	101
186	Functionalized squaraine donors for nanocrystalline organic photovoltaics. <i>ACS Nano</i> , 2012 , 6, 972-8	16.7	101
185	Separated carbon nanotube macroelectronics for active matrix organic light-emitting diode displays. <i>Nano Letters</i> , 2011 , 11, 4852-8	11.5	100
184	A calibration method for nanowire biosensors to suppress device-to-device variation. <i>ACS Nano</i> , 2009 , 3, 3969-76	16.7	99
183	Data Storage Studies on Nanowire Transistors with Self-Assembled Porphyrin Molecules. <i>Journal of Physical Chemistry B</i> , 2004 , 108, 9646-9649	3.4	97
182	Vibronic Structure in Room Temperature Photoluminescence of the Halide Perovskite CsBiBr. <i>Inorganic Chemistry</i> , 2017 , 56, 42-45	5.1	95
181	Direct observation of structural changes in organic light emitting devices during degradation. <i>Journal of Applied Physics</i> , 2001 , 90, 3242-3247	2.5	95
180	Simple and High Efficiency Phosphorescence Organic Light-Emitting Diodes with Codeposited Copper(I) Emitter. <i>Chemistry of Materials</i> , 2014 , 26, 2368-2373	9.6	94
179	Small-molecule photovoltaics based on functionalized squaraine donor blends. <i>Advanced Materials</i> , 2012 , 24, 1956-60	24	94
178	High efficiency organic photovoltaic cells based on a vapor deposited squaraine donor. <i>Applied Physics Letters</i> , 2009 , 94, 233304	3.4	94
177	The Evolution of Organometallic Complexes in Organic Light-Emitting Devices. <i>MRS Bulletin</i> , 2007 , 32, 694-701	3.2	93
176	Linker-Dependent Singlet Fission in Tetracene Dimers. <i>Journal of the American Chemical Society</i> , 2018 , 140, 10179-10190	16.4	90
175	Fabrication of Nanostructures by Hydroxylamine Seeding of Gold Nanoparticle Templates. <i>Langmuir</i> , 2001 , 17, 1713-1718	4	90
174	Re-evaluating the role of sterics and electronic coupling in determining the open-circuit voltage of organic solar cells. <i>Advanced Materials</i> , 2013 , 25, 6076-82	24	85
173	Triplet state properties of the OLED emitter Ir(btp) ₂ (acac): characterization by site-selective spectroscopy and application of high magnetic fields. <i>Inorganic Chemistry</i> , 2007 , 46, 5076-83	5.1	84
172	High-performance single-crystalline arsenic-doped indium oxide nanowires for transparent thin-film transistors and active matrix organic light-emitting diode displays. <i>ACS Nano</i> , 2009 , 3, 3383-90	16.7	82

171	Highly efficient electrophosphorescent polymer light-emitting devices. <i>Organic Electronics</i> , 2000 , 1, 15-20	8.5	82
170	Arylamine-based squaraine donors for use in organic solar cells. <i>Nano Letters</i> , 2011 , 11, 4261-4	11.5	80
169	Electroluminescent properties of self-assembled polymer thin films. <i>Advanced Materials</i> , 1995 , 7, 395-398	8.4	80
168	A paradigm for blue- or red-shifted absorption of small molecules depending on the site of Extension. <i>Journal of the American Chemical Society</i> , 2010 , 132, 16247-55	16.4	76
167	Fused pyrene-diporphyrins: shifting near-infrared absorption to 1.5 microm and beyond. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 5523-6	16.4	76
166	Direct Production of Hydrogen Peroxide with Palladium Supported on Phosphate Viologen Phosphonate Catalysts. <i>Journal of Catalysis</i> , 2000 , 196, 366-374	7.3	76
165	Electrophosphorescence in organic light emitting diodes. <i>Current Opinion in Solid State and Materials Science</i> , 1999 , 4, 369-372	12	76
164	Cascade Organic Solar Cells. <i>Chemistry of Materials</i> , 2011 , 23, 4132-4140	9.6	75
163	Near-infrared phosphorescent polymeric nanomicelles: efficient optical probes for tumor imaging and detection. <i>ACS Applied Materials & Interfaces</i> , 2009 , 1, 1474-81	9.5	75
162	Photocurrent generation in multilayer organic-inorganic thin films with cascade energy architectures. <i>Journal of the American Chemical Society</i> , 2002 , 124, 4796-803	16.4	75
161	High-efficiency BODIPY-based organic photovoltaics. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 662-9	9.5	74
160	Photophysics of Pt-porphyrin electrophosphorescent devices emitting in the near infrared. <i>Applied Physics Letters</i> , 2007 , 90, 213503	3.4	74
159	Imaging and Manipulation of Gold Nanorods with an Atomic Force Microscope. <i>Journal of Physical Chemistry B</i> , 2002 , 106, 231-234	3.4	74
158	Symmetry-Breaking Charge Transfer of Visible Light Absorbing Systems: Zinc Dipyrins. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 21834-21845	3.8	72
157	Statistical Copolymers with Side-Chain Hole and Electron Transport Groups for Single-Layer Electroluminescent Device Applications. <i>Chemistry of Materials</i> , 2000 , 12, 2542-2549	9.6	72
156	Organic photovoltaics incorporating electron conducting exciton blocking layers. <i>Applied Physics Letters</i> , 2011 , 98, 243307	3.4	68
155	Importance of controlling nanotube density for highly sensitive and reliable biosensors functional in physiological conditions. <i>ACS Nano</i> , 2010 , 4, 6914-22	16.7	67
154	Bipolar Copolymers as Host for Electroluminescent Devices: Effects of Molecular Structure on Film Morphology and Device Performance. <i>Macromolecules</i> , 2007 , 40, 8156-8161	5.5	67

153	A film bulk acoustic resonator in liquid environments. <i>Journal of Micromechanics and Microengineering</i> , 2005 , 15, 1911-1916	2	67
152	Porphyrins fused with unactivated polycyclic aromatic hydrocarbons. <i>Journal of Organic Chemistry</i> , 2012 , 77, 143-59	4.2	63
151	Rapid, label-free, electrical whole blood bioassay based on nanobiosensor systems. <i>ACS Nano</i> , 2011 , 5, 9883-91	16.7	63
150	Prospects and applications for organic light-emitting devices. <i>Current Opinion in Solid State and Materials Science</i> , 1997 , 2, 236-243	12	62
149	Study of Energy Transfer and Triplet Exciton Diffusion in Hole-Transporting Host Materials. <i>Advanced Functional Materials</i> , 2009 , 19, 3157-3164	15.6	60
148	Symmetry-breaking charge transfer in a zinc chlorodipyrrin acceptor for high open circuit voltage organic photovoltaics. <i>Journal of the American Chemical Society</i> , 2015 , 137, 5397-405	16.4	59
147	Fused porphyrin-single-walled carbon nanotube hybrids: efficient formation and photophysical characterization. <i>ACS Nano</i> , 2013 , 7, 3466-75	16.7	59
146	Growth and Characterization of Photoactive and Electroactive Zirconium Bisphosphonate Multilayer Films. <i>Chemistry of Materials</i> , 1996 , 8, 1490-1499	9.6	58
145	Control of interface order by inverse quasi-epitaxial growth of squaraine/fullerene thin film photovoltaics. <i>ACS Nano</i> , 2013 , 7, 9268-75	16.7	56
144	Synthesis and photochemical properties of porous zirconium viologen phosphonate compounds. <i>Chemistry of Materials</i> , 1994 , 6, 77-81	9.6	56
143	Phosphorescent 2-, 3- and 4-coordinate cyclic (alkyl)(amino)carbene (CAAC) Cu(i) complexes. <i>Chemical Communications</i> , 2017 , 53, 9008-9011	5.8	55
142	Cyclometallated iridium and platinum complexes with noninnocent ligands. <i>Inorganic Chemistry</i> , 2007 , 46, 3865-75	5.1	55
141	Synthesis of Germanium Nanoclusters with Irreversibly Attached Functional Groups: Acetals, Alcohols, Esters, and Polymers. <i>Chemistry of Materials</i> , 2003 , 15, 1682-1689	9.6	54
140	Highly scalable, uniform, and sensitive biosensors based on top-down indium oxide nanoribbons and electronic enzyme-linked immunosorbent assay. <i>Nano Letters</i> , 2015 , 15, 1943-51	11.5	51
139	Forming oriented organic crystals from amorphous thin films on patterned substrates via solvent-vapor annealing. <i>Organic Electronics</i> , 2005 , 6, 211-220	3.5	51
138	The enhancement of intercalation reactions by ultrasound. <i>Journal of the Chemical Society Chemical Communications</i> , 1987 , 900		51
137	Anionic iridium complexes for solid state light-emitting electrochemical cells. <i>Journal of Materials Chemistry</i> , 2012 , 22, 9556		50
136	Highly Sensitive and Quick Detection of Acute Myocardial Infarction Biomarkers Using InO Nanoribbon Biosensors Fabricated Using Shadow Masks. <i>ACS Nano</i> , 2016 , 10, 10117-10125	16.7	48

135	Organic Photovoltaics Using Tetraphenylbenzoporphyrin Complexes as Donor Layers. <i>Advanced Materials</i> , 2009 , 21, 1517-1520	24	48
134	Synthesis of Octasubstituted Cyclooctatetraenes and Their Use as Electron Transporters in Organic Light Emitting Diodes. <i>Journal of the American Chemical Society</i> , 2000 , 122, 7480-7486	16.4	48
133	Photocurrent generation in metal bisphosphonate multilayer thin films. <i>Nature</i> , 1996 , 380, 610-612	50.4	48
132	Use of additives in porphyrin-tape/C60 near-infrared photodetectors. <i>Organic Electronics</i> , 2011 , 12, 869-873	9.3	47
131	Ruthenium Catalyzed Synthesis of Cross-Conjugated Polymers and Related Hyperbranched Materials. Copoly(arylene/1,1-vinylene)s. <i>Macromolecules</i> , 1998 , 31, 2784-2788	5.5	47
130	Elucidating the interplay between dark current coupling and open circuit voltage in organic photovoltaics. <i>Applied Physics Letters</i> , 2011 , 98, 223305	3.4	46
129	Phosphorescent Platinum Dyads with Cyclometalated Ligands: Synthesis, Characterization, and Photophysical Studies. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 8022-8031	3.8	46
128	Dependence of Phosphorescent Emitter Orientation on Deposition Technique in Doped Organic Films. <i>Chemistry of Materials</i> , 2016 , 28, 712-715	9.6	45
127	Singlet-Triplet quenching in high intensity fluorescent organic light emitting diodes. <i>Chemical Physics Letters</i> , 2010 , 495, 161-165	2.5	44
126	Structure of a Novel Layered Zirconium Diphosphonate Compound: Zr ₂ (O ₃ PCH ₂ CH ₂ -viologen-CH ₂ CH ₂ PO ₃)F ₆ ·nH ₂ O. <i>Chemistry of Materials</i> , 1994 , 6, 1845-1849	9.6	43
125	Aqueous colloidal acene nanoparticles: a new platform for studying singlet fission. <i>Journal of Physical Chemistry B</i> , 2013 , 117, 15519-26	3.4	42
124	A fullerene-based organic exciton blocking layer with high electron conductivity. <i>Nano Letters</i> , 2013 , 13, 3315-20	11.5	41
123	Charge transport and exciton dissociation in organic solar cells consisting of dipolar donors mixed with C70. <i>Physical Review B</i> , 2015 , 92,	3.3	40
122	Orange and red organic light-emitting devices using aluminum tris(5-hydroxyquinoxaline). <i>Synthetic Metals</i> , 1997 , 91, 217-221	3.6	39
121	Systematic Study of the Photoluminescent and Electroluminescent Properties of Pentacoordinate Carboxylate and Chloro Bis(8-hydroxyquinaldine) Complexes of Gallium(III). <i>The Journal of Physical Chemistry</i> , 1996 , 100, 17766-17771		38
120	The Roles of Structural Order and Intermolecular Interactions in Determining Ionization Energies and Charge-Transfer State Energies in Organic Semiconductors. <i>Advanced Energy Materials</i> , 2016 , 6, 1601211	21.8	37
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