Mark E Thompson

List of Publications by Year in Descending Order

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	Advancing Near-Infrared Phosphorescence with Heteroleptic Iridium Complexes Bearing a Single Emitting Ligand: Properties and Organic Light-Emitting Diode Applications. *Chemistry of Materials*, **2022**, 34, 574-583	9.6	1
277	Symmetric Double Spiro Wide Energy Gap Hosts for Blue Phosphorescent OLED Devices. *Advanced Optical Materials*, **2022**, 10, 2101530	8.1	1
276	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	7.1	6
275	A Luminescent Two-Coordinate Au Bimetallic Complex with a Tandem-Carbene Structure: A Molecular Design for the Enhancement of TADF Radiative Decay Rate. *Chemistry - A European Journal*, **2021**, 27, 6191-6197	4.8	7
274	Tuning the Photophysical and Electrochemical Properties of Aza-Boron-Dipyridylmethenes for Fluorescent Blue OLEDs. *Advanced Functional Materials*, **2021**, 31, 2101175	15.6	6
273	Molecular Alignment of Homoleptic Iridium Phosphors in Organic Light-Emitting Diodes. *Advanced Materials*, **2021**, 33, e2102882	24	5
272	Phosphorescent monometallic and bimetallic two-coordinate Au(I) complexes with N-heterocyclic carbene and aryl ligands. *Inorganica Chimica Acta*, **2021**, 517, 120188	2.7	0
271	Synthesis and Characterization of Zinc(II) Complexes Bearing 4-Acridinol and 1-Phenazinol Ligands. *Inorganic Chemistry*, **2021**, 60, 866-871	5.1	1
270	Blue Emissive fac/mer-Iridium (III) NHC Carbene Complexes and their Application in OLEDs. *Advanced Optical Materials*, **2021**, 9, 2001994	8.1	15
269	In Vivo Experimental and Analytical Studies for Bevacizumab Diffusion Coefficient Measurement in the Rabbit Vitreous Humor. *Journal of Heat Transfer*, **2021**, 143, 032101	1.8	0
268	Highly Efficient Deep Blue Luminescence of 2-Coordinate Coinage Metal Complexes Bearing Bulky NHC Benzimidazolyl Carbene. *Frontiers in Chemistry*, **2020**, 8, 401	5	14
267	Vibrational Sum Frequency Generation Study of the Interference Effect on a Thin Film of 4,4'-Bis(-carbazolyl)-1,1'-biphenyl (CBP) and Its Interfacial Orientation. *ACS Applied Materials & Interfaces*, **2020**, 12, 26515-26524	9.5	5
266	Thermally assisted delayed fluorescence (TADF): fluorescence delayed is fluorescence denied. *Materials Horizons*, **2020**, 7, 1210-1217	14.4	33
265	Enhancement of the Luminescent Efficiency in Carbene-Au-Aryl Complexes by the Restriction of Renner-Teller Distortion and Bond Rotation. *Journal of the American Chemical Society*, **2020**, 142, 6158-6172	16.4	35
264	Molecular dynamics of four-coordinate carbene-Cu(I) complexes employing tris(pyrazolyl)borate ligands. *Polyhedron*, **2020**, 180, 114381	2.7	4
263	Reversible Bioadhesives Using Tannic Acid Primed Thermally-Responsive Polymers. *Advanced Functional Materials*, **2020**, 30, 1907478	15.6	19
262	Influence of Dimethyl Sulfoxide on the Structural Topology during Crystallization of PbI. *Inorganic Chemistry*, **2020**, 59, 16799-16803	5.1	1

261	Tuning State Energies for Narrow Blue Emission in Tetradentate Pyridyl-Carbazole Platinum Complexes. *Inorganic Chemistry*, **2019**, 58, 12348-12357	5.1	14
260	Improving Photocatalysis for the Reduction of CO through Non-covalent Supramolecular Assembly. *Journal of the American Chemical Society*, **2019**, 141, 14961-14965	16.4	36
259	Symmetry breaking charge transfer as a means to study electron transfer with no driving force. *Faraday Discussions*, **2019**, 216, 379-394	3.6	23
258	Symmetric pyrrolic squaraines and their application to organic photovoltaics. *Journal of Photochemistry and Photobiology A: Chemistry*, **2019**, 374, 16-21	4.7	3
257	Performance of enhanced DuBois type water reduction catalysts (WRC) in artificial photosynthesis - effects of various proton relays during catalysis. *Faraday Discussions*, **2019**, 215, 141-161	3.6	6
256	Systematic Control of the Orientation of Organic Phosphorescent Pt Complexes in Thin Films for Increased Optical Outcoupling. *Advanced Materials*, **2019**, 31, e1900921	24	22
255	"Quick-Silver" from a Systematic Study of Highly Luminescent, Two-Coordinate, d Coinage Metal Complexes. *Journal of the American Chemical Society*, **2019**, 141, 8616-8626	16.4	102
254	Molecular Orientation of Poly-3-hexylthiophene at the Buried Interface with Fullerene. *Journal of Physical Chemistry Letters*, **2019**, 10, 1757-1762	6.4	18
253	Eliminating nonradiative decay in Cu(I) emitters: >99% quantum efficiency and microsecond lifetime. *Science*, **2019**, 363, 601-606	33.3	271
252	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	14.4	24
251	Anionic order and band gap engineering in vacancy ordered triple perovskites. *Chemical Communications*, **2019**, 55, 3164-3167	5.8	28
250	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	16.4	143
249	Tetra-Aza-Pentacenes by means of a One-Pot Friedländer Synthesis. *Chemistry - A European Journal*, **2019**, 25, 1472-1475	4.8	5
248	Rapid Multiscale Computational Screening for OLED Host Materials. *ACS Applied Materials & Interfaces*, **2019**, 11, 5276-5288	9.5	9
247	Understanding molecular fragmentation in blue phosphorescent organic light-emitting devices. *Organic Electronics*, **2019**, 64, 15-21	3.5	27
246	Phase transition in amphiphilic poly(N-isopropylacrylamide): controlled gelation. *Physical Chemistry Chemical Physics*, **2018**, 20, 13623-13631	3.6	13
245	Symmetry-Breaking Charge Transfer in Boron Dipyridylmethene (DIPYR) Dimers. *ACS Applied Energy Materials*, **2018**, 1, 1083-1095	6.1	29
244	Synthesis and characterization of phosphorescent isomeric iridium complexes with a rigid cyclometalating ligand. *Polyhedron*, **2018**, 140, 138-145	2.7	8

243	Synthesis and characterization of phosphorescent three-coordinate copper(I) complexes bearing bis(amino)cyclopropenylidene carbene (BAC). *Inorganica Chimica Acta*, **2018**, 482, 246-251	2.7	9
242	Linker-Dependent Singlet Fission in Tetracene Dimers. *Journal of the American Chemical Society*, **2018**, 140, 10179-10190	16.4	90
241	Manipulating Triplet Yield through Control of Symmetry-Breaking Charge Transfer. *Journal of Physical Chemistry Letters*, **2018**, 9, 3264-3270	6.4	26
240	Hot excited state management for long-lived blue phosphorescent organic light-emitting diodes. *Nature Communications*, **2017**, 8, 15566	17.4	153
239	Synthesis and characterization of phosphorescent two-coordinate copper(i) complexes bearing diamidocarbene ligands. *Dalton Transactions*, **2017**, 46, 745-752	4.3	36
238	Emitter Orientation as a Key Parameter in Organic Light-Emitting Diodes. *Physical Review Applied*, **2017**, 8,	4.3	111
237	Phosphorescent 2-, 3- and 4-coordinate cyclic (alkyl)(amino)carbene (CAAC) Cu(i) complexes. *Chemical Communications*, **2017**, 53, 9008-9011	5.8	55
236	High-Performance Sub-Micrometer Channel WSe Field-Effect Transistors Prepared Using a Flood-Dike Printing Method. *ACS Nano*, **2017**, 11, 12536-12546	16.7	6
235	A reversible thermoresponsive sealant for temporary closure of ocular trauma. *Science Translational Medicine*, **2017**, 9,	17.5	34
234	Boron Dipyridylmethene (DIPYR) Dyes: Shedding Light on Pyridine-Based Chromophores. *Journal of Organic Chemistry*, **2017**, 82, 7215-7222	4.2	19
233	Vibronic Structure in Room Temperature Photoluminescence of the Halide Perovskite CsBiBr. *Inorganic Chemistry*, **2017**, 56, 42-45	5.1	95
232	Decoupling inter- and intra-dimer singlet fission **2017**,		2
231	Deep blue phosphorescent organic light-emitting diodes with very high brightness and efficiency. *Nature Materials*, **2016**, 15, 92-8	27	539
230	The Roles of Structural Order and Intermolecular Interactions in Determining Ionization Energies and Charge-Transfer State Energies in Organic Semiconductors. *Advanced Energy Materials*, **2016**, 6, 1601211	21.8	37
229	Highly Sensitive and Quick Detection of Acute Myocardial Infarction Biomarkers Using InO Nanoribbon Biosensors Fabricated Using Shadow Masks. *ACS Nano*, **2016**, 10, 10117-10125	16.7	48
228	Dependence of Phosphorescent Emitter Orientation on Deposition Technique in Doped Organic Films. *Chemistry of Materials*, **2016**, 28, 712-715	9.6	45
227	A quinoidal bis-phenalenyl-fused porphyrin with supramolecular organization and broad near-infrared absorption. *Chemical Communications*, **2016**, 52, 1949-52	5.8	14
226	Singlet Fission in a Covalently Linked Cofacial Alkynyltetracene Dimer. *Journal of the American Chemical Society*, **2016**, 138, 617-27	16.4	204

225	Understanding and predicting the orientation of heteroleptic phosphors in organic light-emitting materials. *Nature Materials*, **2016**, 15, 85-91	27	181
224	Synthesis and characterization of phosphorescent cyclometalated Ir and Pt heteroleptic complexes using cyclophane-based chelates. *Polyhedron*, **2016**, 116, 182-188	2.7	9
223	ORGANIC LIGHT EMITTING DEVICES. *Materials and Energy*, **2016**, 195-241		1
222	Gram Scale Synthesis of Benzophenanthroline and Its Blue Phosphorescent Platinum Complex. *Organic Letters*, **2016**, 18, 3960-3	6.2	16
221	Organic Solar Cells with Open Circuit Voltage over 1.25 V Employing Tetraphenyldibenzoperiflanthene as the Acceptor. *Journal of Physical Chemistry C*, **2016**, 120, 19027-19034	3.8	14
220	Impact of Molecular Orientation and Spontaneous Interfacial Mixing on the Performance of Organic Solar Cells. *Chemistry of Materials*, **2015**, 27, 5597-5604	9.6	34
219	Implications of Multichromophoric Arrays in Organic Photovoltaics. *Chemistry of Materials*, **2015**, 27, 5386-5392	9.6	14
218	Solvent vapor annealing on perylene-based organic solar cells. *Journal of Materials Chemistry A*, **2015**, 3, 15700-15709	13	25
217	Synthesis and characterization of phosphorescent platinum and iridium complexes with cyclometalated corannulene. *Dalton Transactions*, **2015**, 44, 8456-66	4.3	10
216	Symmetry-breaking charge transfer in a zinc chlorodipyrrin acceptor for high open circuit voltage organic photovoltaics. *Journal of the American Chemical Society*, **2015**, 137, 5397-405	16.4	59
215	High-efficiency BODIPY-based organic photovoltaics. *ACS Applied Materials & Interfaces*, **2015**, 7, 662-9	9.5	74
214	Charge transport and exciton dissociation in organic solar cells consisting of dipolar donors mixed with C70. *Physical Review B*, **2015**, 92,	3.3	40
213	Highly scalable, uniform, and sensitive biosensors based on top-down indium oxide nanoribbons and electronic enzyme-linked immunosorbent assay. *Nano Letters*, **2015**, 15, 1943-51	11.5	51
212	Synthesis and photophysical characterization of a bis-pincer osmium complex. *Polyhedron*, **2014**, 84, 136-143	2.7	5
211	Control of emission colour with N-heterocyclic carbene (NHC) ligands in phosphorescent three-coordinate Cu(I) complexes. *Chemical Communications*, **2014**, 50, 7176-9	5.8	101
210	Metal deposition for optoelectronic devices using a low vacuum vapor phase deposition (VPD) system. *Organic Electronics*, **2014**, 15, 3052-3060	3.5	1
209	Simple and High Efficiency Phosphorescence Organic Light-Emitting Diodes with Codeposited Copper(I) Emitter. *Chemistry of Materials*, **2014**, 26, 2368-2373	9.6	94
208	Symmetry-Breaking Charge Transfer of Visible Light Absorbing Systems: Zinc Dipyrrins. *Journal of Physical Chemistry C*, **2014**, 118, 21834-21845	3.8	72

207	Amorphous vs crystalline exciton blocking layers at the anode interface in planar and planar-mixed heterojunction organic solar cells. *Applied Physics Letters*, **2014**, 104, 213304	3.4	11
206	In Situ Observation of Degradation by Ligand Substitution in Small-Molecule Phosphorescent Organic Light-Emitting Diodes. *Chemistry of Materials*, **2014**, 26, 6578-6584	9.6	25
205	Phosphorescence versus thermally activated delayed fluorescence. Controlling singlet-triplet splitting in brightly emitting and sublimable Cu(I) compounds. *Journal of the American Chemical Society*, **2014**, 136, 16032-8	16.4	305
204	Multichromophoric energy sensitization of C60 for organic photovoltaics. *Applied Physics Letters*, **2014**, 105, 113305	3.4	4
203	Re-evaluating the role of sterics and electronic coupling in determining the open-circuit voltage of organic solar cells. *Advanced Materials*, **2013**, 25, 6076-82	24	85
202	Efficient energy sensitization of C60 and application to organic photovoltaics. *Journal of the American Chemical Society*, **2013**, 135, 11920-8	16.4	15
201	Control of interface order by inverse quasi-epitaxial growth of squaraine/fullerene thin film photovoltaics. *ACS Nano*, **2013**, 7, 9268-75	16.7	56
200	Virtual screening of electron acceptor materials for organic photovoltaic applications. *New Journal of Physics*, **2013**, 15, 105029	2.9	20
199	Photophysical properties of cyclometalated Pt(II) complexes: counterintuitive blue shift in emission with an expanded ligand system. *Inorganic Chemistry*, **2013**, 52, 12403-15	5.1	126
198	Fused porphyrin-single-walled carbon nanotube hybrids: efficient formation and photophysical characterization. *ACS Nano*, **2013**, 7, 3466-75	16.7	59
197	A fullerene-based organic exciton blocking layer with high electron conductivity. *Nano Letters*, **2013**, 13, 3315-20	11.5	41
196	Aqueous colloidal acene nanoparticles: a new platform for studying singlet fission. *Journal of Physical Chemistry B*, **2013**, 117, 15519-26	3.4	42
195	Solar Cells: Re-evaluating the Role of Sterics and Electronic Coupling in Determining the Open-Circuit Voltage of Organic Solar Cells (Adv. Mater. 42/2013). *Advanced Materials*, **2013**, 25, 5990-5990	24	1
194	Top-down Fabricated Polysilicon Nanoribbon Biosensor Chips for Cancer Diagnosis. *Materials Research Society Symposia Proceedings*, **2013**, 1569, 213-218		1
193	Surface chemical immobilization of parylene C with thermosensitive block copolymer brushes based on N-isopropylacrylamide and N-tert-butylacrylamide: synthesis, characterization, and cell adhesion/detachment. *Journal of Biomedical Materials Research - Part B Applied Biomaterials*, **2012**, 100, 217-29	3.5	12
192	Advances in the development and growth of functional materials: Toward the paradigm of materials by design. *MRS Bulletin*, **2012**, 37, 682-690	3.2	6
191	Anionic iridium complexes for solid state light-emitting electrochemical cells. *Journal of Materials Chemistry*, **2012**, 22, 9556		50
190	Chemical Annealing of Zinc Tetraphenylporphyrin Films: Effects on Film Morphology and Organic Photovoltaic Performance. *Chemistry of Materials*, **2012**, 24, 2583-2591	9.6	21

189	Symmetry-breaking intramolecular charge transfer in the excited state of meso-linked BODIPY dyads. *Chemical Communications*, **2012**, 48, 284-6	5.8	113
188	Structural and Photophysical Studies of Phosphorescent Three-Coordinate Copper(I) Complexes Supported by an N-Heterocyclic Carbene Ligand. *Organometallics*, **2012**, 31, 7983-7993	3.8	102
187	Power losses in bilayer inverted small molecule organic solar cells. *Applied Physics Letters*, **2012**, 101, 233903	3.4	6
186	Cu4I4 clusters supported by P^N-type ligands: new structures with tunable emission colors. *Inorganic Chemistry*, **2012**, 51, 230-6	5.1	123
185	Porphyrins fused with unactivated polycyclic aromatic hydrocarbons. *Journal of Organic Chemistry*, **2012**, 77, 143-59	4.2	63
184	Independent control of bulk and interfacial morphologies of small molecular weight organic heterojunction solar cells. *Nano Letters*, **2012**, 12, 4366-71	11.5	109
183	Efficient singlet fission discovered in a disordered acene film. *Journal of the American Chemical Society*, **2012**, 134, 6388-400	16.4	239
182	Functionalized squaraine donors for nanocrystalline organic photovoltaics. *ACS Nano*, **2012**, 6, 972-8	16.7	101
181	Small-molecule photovoltaics based on functionalized squaraine donor blends. *Advanced Materials*, **2012**, 24, 1956-60	24	94
180	Photophysical and electrochemical properties of 1,3-bis(2-pyridylimino)isoindolate platinum(II) derivatives. *Dalton Transactions*, **2012**, 41, 8648-59	4.3	16
179	Current challenges in organic photovoltaic solar energy conversion. *Topics in Current Chemistry*, **2012**, 312, 175-212		25
178	Substituted 1,3-bis(imino)isoindole diols: a new class of proton transfer dyes. *Organic Letters*, **2011**, 13, 1598-601	6.2	30
177	Rapid, label-free, electrical whole blood bioassay based on nanobiosensor systems. *ACS Nano*, **2011** , 5, 9883-91	16.7	63
176	Arylamine-based squaraine donors for use in organic solar cells. *Nano Letters*, **2011**, 11, 4261-4	11.5	80
175	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
174	N,N-Diarylanilinosquaraines and Their Application to Organic Photovoltaics. *Chemistry of Materials*, **2011**, 23, 4789-4798	9.6	106
173	The molecular nature of photovoltage losses in organic solar cells. *Chemical Communications*, **2011**, 47, 3702-16	5.8	117
172	Acetylide-bridged tetracene dimers. *Chemical Communications*, **2011**, 47, 3754-6	5.8	21

171	Cascade Organic Solar Cells. *Chemistry of Materials*, **2011**, 23, 4132-4140	9.6	75
170	Separated carbon nanotube macroelectronics for active matrix organic light-emitting diode displays. *Nano Letters*, **2011**, 11, 4852-8	11.5	100
169	Chemical surface modification of parylene C for enhanced protein immobilization and cell proliferation. *Acta Biomaterialia*, **2011**, 7, 3746-56	10.8	23
168	Solvent-Annealed Crystalline Squaraine: PC70BM (1:6) Solar Cells. *Advanced Energy Materials*, **2011**, 1, 184-187	21.8	242
167	Singlet and triplet excitation management in a bichromophoric near-infrared-phosphorescent BODIPY-benzoporphyrin platinum complex. *Journal of the American Chemical Society*, **2011**, 133, 88-96	16.4	139
166	Effect of Sulfur Poisoning in High Pressure Catalytic Partial Oxidation of Methane over Rh/Ce/Al2O3 Catalyst. *Industrial & Engineering Chemistry Research*, **2011**, 50, 4373-4380	3.9	5
165	Selective, electrochemically activated biofunctionalization of In2O3 nanowires using an air-stable surface modifier. *ACS Applied Materials & Interfaces*, **2011**, 3, 4765-9	9.5	6
164	Observation of Triplet Exciton Formation in a Platinum-Sensitized Organic Photovoltaic Device. *Journal of Physical Chemistry Letters*, **2011**, 2, 48-54	6.4	37
163	Use of additives in porphyrin-tape/C60 near-infrared photodetectors. *Organic Electronics*, **2011**, 12, 869-873	3.5	47
162	Reciprocal carrier collection in organic photovoltaics. *Physical Review B*, **2011**, 84,	3.3	8
161	Organic photovoltaics incorporating electron conducting exciton blocking layers. *Applied Physics Letters*, **2011**, 98, 243307	3.4	68
160	Elucidating the interplay between dark current coupling and open circuit voltage in organic photovoltaics. *Applied Physics Letters*, **2011**, 98, 223305	3.4	46
159	Solution-phase synthesis of SnSe nanocrystals for use in solar cells. *Journal of the American Chemical Society*, **2010**, 132, 4060-1	16.4	280
158	Efficient, ordered bulk heterojunction nanocrystalline solar cells by annealing of ultrathin squaraine thin films. *Nano Letters*, **2010**, 10, 3555-9	11.5	126
157	Importance of controlling nanotube density for highly sensitive and reliable biosensors functional in physiological conditions. *ACS Nano*, **2010**, 4, 6914-22	16.7	67
156	A paradigm for blue- or red-shifted absorption of small molecules depending on the site of extension. *Journal of the American Chemical Society*, **2010**, 132, 16247-55	16.4	76
155	Efficient dipyrrin-centered phosphorescence at room temperature from bis-cyclometalated iridium(III) dipyrrinato complexes. *Inorganic Chemistry*, **2010**, 49, 6077-84	5.1	135
154	Properties of Fluorenyl Silanes in Organic Light Emitting Diodes. *Chemistry of Materials*, **2010**, 22, 1724-1731	9.1	33

153	Study of ion-paired iridium complexes (soft salts) and their application in organic light emitting diodes. *Journal of the American Chemical Society*, **2010**, 132, 3133-9	16.4	129
152	Solution-processed squaraine bulk heterojunction photovoltaic cells. *ACS Nano*, **2010**, 4, 1927-34	16.7	153
151	Synthesis and characterization of phosphorescent three-coordinate Cu(I)-NHC complexes. *Chemical Communications*, **2010**, 46, 6696-8	5.8	134
150	Continuous, highly flexible, and transparent graphene films by chemical vapor deposition for organic photovoltaics. *ACS Nano*, **2010**, 4, 2865-73	16.7	1052
149	Porphyrin-tape/c(60) organic photodetectors with 6.5% external quantum efficiency in the near infrared. *Advanced Materials*, **2010**, 22, 2780-3	24	117
148	Fused pyrene-diporphyrins: shifting near-infrared absorption to 1.5 microm and beyond. *Angewandte Chemie - International Edition*, **2010**, 49, 5523-6	16.4	76
147	Singlet□triplet quenching in high intensity fluorescent organic light emitting diodes. *Chemical Physics Letters*, **2010**, 495, 161-165	2.5	44
146	Combined magnetic resonance and optical imaging of head and neck tumor xenografts using Gadolinium-labelled phosphorescent polymeric nanomicelles. *Head & Neck Oncology*, **2010**, 2, 35		23
145	Study of Energy Transfer and Triplet Exciton Diffusion in Hole-Transporting Host Materials. *Advanced Functional Materials*, **2009**, 19, 3157-3164	15.6	60
144	Organic Photovoltaics Using Tetraphenylbenzoporphyrin Complexes as Donor Layers. *Advanced Materials*, **2009**, 21, 1517-1520	24	48
143	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
142	Measurement of the lowest unoccupied molecular orbital energies of molecular organic semiconductors. *Organic Electronics*, **2009**, 10, 515-520	3.5	329
141	Triplet state relaxation processes of the OLED emitter Pt(4,6-dFppy)(acac). *Chemical Physics Letters* , **2009**, 468, 46-51	2.5	29
140	Molecular and morphological influences on the open circuit voltages of organic photovoltaic devices. *Journal of the American Chemical Society*, **2009**, 131, 9281-6	16.4	463
139	Blue light emitting Ir(III) compounds for OLEDs - new insights into ancillary ligand effects on the emitting triplet state. *Journal of Physical Chemistry A*, **2009**, 113, 5927-32	2.8	138
138	Matrix effects on the triplet state of the OLED emitter Ir(4,6-dFppy)2(pic) (FIrpic): investigations by high-resolution optical spectroscopy. *Inorganic Chemistry*, **2009**, 48, 1928-37	5.1	115
137	A calibration method for nanowire biosensors to suppress device-to-device variation. *ACS Nano*, **2009**, 3, 3969-76	16.7	99
136	Label-free, electrical detection of the SARS virus N-protein with nanowire biosensors utilizing antibody mimics as capture probes. *ACS Nano*, **2009**, 3, 1219-24	16.7	170

135	Near-infrared phosphorescent polymeric nanomicelles: efficient optical probes for tumor imaging and detection. *ACS Applied Materials & Interfaces*, **2009**, 1, 1474-81	9.5	75
134	Exciplex quenching of a luminescent cyclometallated platinum complex by extremely poor Lewis bases. *Chemical Communications*, **2009**, 4215-7	5.8	21
133	High efficiency organic photovoltaic cells based on a vapor deposited squaraine donor. *Applied Physics Letters*, **2009**, 94, 233304	3.4	94
132	High-performance single-crystalline arsenic-doped indium oxide nanowires for transparent thin-film transistors and active matrix organic light-emitting diode displays. *ACS Nano*, **2009**, 3, 3383-90	16.7	82
131	Temperature dependence of blue phosphorescent cyclometalated Ir(III) complexes. *Journal of the American Chemical Society*, **2009**, 131, 9813-22	16.4	482
130	Improvement of metal and tissue adhesion on surface-modified parylene C. *Journal of Biomedical Materials Research - Part A*, **2009**, 89, 206-14	5.4	5
129	Phosphorescent Platinum Dyads with Cyclometalated Ligands: Synthesis, Characterization, and Photophysical Studies *Journal of Physical Chemistry C*, **2008**, 112, 8022-8031	3.8	46
128	Wavelength-dependent photofragmentation of a mixed-ligand cyclometalated platinum(II) coordination compound in a molecular beam. *Inorganic Chemistry*, **2008**, 47, 2389-95	5.1	5
127	Actuation of polypyrrole nanowires. *Nanotechnology*, **2008**, 19, 165501	3.4	23
126	P-204: Distinguished Poster Paper: A Near Infrared OLED for Day/Night Display. *Digest of Technical Papers SID International Symposium*, **2008**, 39, 1975	0.5	2
125	47.4: Blue Phosphorescent Organic Light Emitting Device Stability Analysis. *Digest of Technical Papers SID International Symposium*, **2008**, 39, 712	0.5	4
124	Matrix influence on the OLED emitter Ir(btp)2(acac) in polymeric host materials Studies by persistent spectral hole burning. *Organic Electronics*, **2008**, 9, 641-648	3.5	29
123	Bipolar Copolymers as Host for Electroluminescent Devices: Effects of Molecular Structure on Film Morphology and Device Performance. *Macromolecules*, **2007**, 40, 8156-8161	5.5	67
122	Triplet state properties of the OLED emitter Ir(btp)2(acac): characterization by site-selective spectroscopy and application of high magnetic fields. *Inorganic Chemistry*, **2007**, 46, 5076-83	5.1	84
121	New Thermally Cross-Linkable Polymer and Its Application as a Hole-Transporting Layer for Solution Processed Multilayer Organic Light Emitting Diodes. *Chemistry of Materials*, **2007**, 19, 4827-4832	9.6	107
120	The Evolution of Organometallic Complexes in Organic Light-Emitting Devices. *MRS Bulletin*, **2007**, 32, 694-701	3.2	93
119	Cyclometallated iridium and platinum complexes with noninnocent ligands. *Inorganic Chemistry*, **2007**, 46, 3865-75	5.1	55
118	Excited-state distortions of cyclometalated Ir(III) complexes determined from the vibronic structure in luminescence spectra. *Journal of Physical Chemistry A*, **2007**, 111, 3256-62	2.8	16

117	Photophysics of Pt-porphyrin electrophosphorescent devices emitting in the near infrared. *Applied Physics Letters*, **2007**, 90, 213503	3.4	74
116	Cyclometalated iridium and platinum complexes as singlet oxygen photosensitizers: quantum yields, quenching rates and correlation with electronic structures. *Dalton Transactions*, **2007**, 3763-70	4.3	159
115	Highly efficient, near-infrared electrophosphorescence from a Pt-metalloporphyrin complex. *Angewandte Chemie - International Edition*, **2007**, 46, 1109-12	16.4	227
114	Phosphorescence dynamics and spin-lattice relaxation of the OLED emitter Ir(btp)2(acac). *Chemical Physics Letters*, **2007**, 444, 273-279	2.5	28
113	Investigation of the thermal stability of 2-D patterns of Au nanoparticles. *Journal of Nanoscience and Nanotechnology*, **2007**, 7, 2863-9	1.3	1
112	Spin-orbit coupling routes and OLED performance: studies of blue-light emitting Ir(III) and Pt(II) complexes **2007**,		30
111	Introduction: Organic Electronics and Optoelectronics. *Chemical Reviews*, **2007**, 107, 923-925	68.1	620
110	Mercuric ion sensing by a film bulk acoustic resonator. *IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control*, **2007**, 54, 1723-5	3.2	7
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