Ken-Tsung Wong

List of Publications by Citations

335 papers	18,177 citations	73 h-index	121 g-index
383 ext. papers	19,644 ext. citations	8.1 avg, IF	6.76 L-index

#	Paper	IF	Citations
335	Sky-Blue Organic Light Emitting Diode with 37% External Quantum Efficiency Using Thermally Activated Delayed Fluorescence from Spiroacridine-Triazine Hybrid. *Advanced Materials*, **2016**, 28, 6976-83	24	723
334	Bipolar host materials: a chemical approach for highly efficient electrophosphorescent devices. *Advanced Materials*, **2011**, 23, 3876-95	24	443
333	Highly Efficient Organic Blue Electrophosphorescent Devices Based on 3,6-Bis(triphenylsilyl)carbazole as the Host Material. *Advanced Materials*, **2006**, 18, 1216-1220	24	439
332	Achieving Nearly 30% External Quantum Efficiency for Orange-Red Organic Light Emitting Diodes by Employing Thermally Activated Delayed Fluorescence Emitters Composed of 1,8-Naphthalimide-Acridine Hybrids. *Advanced Materials*, **2018**, 30, 1704961	24	385
331	Ter(9,9-diarylfluorene)s: highly efficient blue emitter with promising electrochemical and thermal stability. *Journal of the American Chemical Society*, **2002**, 124, 11576-7	16.4	383
330	Blue-emitting heteroleptic iridium(III) complexes suitable for high-efficiency phosphorescent OLEDs. *Angewandte Chemie - International Edition*, **2007**, 46, 2418-21	16.4	377
329	Electroluminescence based on thermally activated delayed fluorescence generated by a spirobifluorene donor-acceptor structure. *Chemical Communications*, **2012**, 48, 9580-2	5.8	360
328	Efficient Organic Blue-Light-Emitting Devices with Double Confinement on Terfluorenes with Ambipolar Carrier Transport Properties. *Advanced Materials*, **2004**, 16, 61-65	24	335
327	Transition metal-catalyzed activation of aliphatic C-x bonds in carbon-carbon bond formation. *Chemical Reviews*, **2000**, 100, 3187-204	68.1	308
326	Solid-state white light-emitting electrochemical cells using iridium-based cationic transition metal complexes. *Journal of the American Chemical Society*, **2008**, 130, 3413-9	16.4	243
325	Vacuum-deposited small-molecule organic solar cells with high power conversion efficiencies by judicious molecular design and device optimization. *Journal of the American Chemical Society*, **2012**, 134, 13616-23	16.4	242
324	A versatile thermally activated delayed fluorescence emitter for both highly efficient doped and non-doped organic light emitting devices. *Chemical Communications*, **2015**, 51, 13662-5	5.8	236
323	An Exciplex Forming Host for Highly Efficient Blue Organic Light Emitting Diodes with Low Driving Voltage. *Advanced Functional Materials*, **2015**, 25, 361-366	15.6	224
322	Highly Efficient UV Organic Light-Emitting Devices Based on Bi(9,9-diarylfluorene)s. *Advanced Materials*, **2005**, 17, 992-996	24	214
321	A low-energy-gap organic dye for high-performance small-molecule organic solar cells. *Journal of the American Chemical Society*, **2011**, 133, 15822-5	16.4	207
320	Organic dyes containing coplanar diphenyl-substituted dithienosilole core for efficient dye-sensitized solar cells. *Journal of Organic Chemistry*, **2010**, 75, 4778-85	4.2	190
319	A new benzimidazole/carbazole hybrid bipolar material for highly efficient deep-blue electrofluorescence, yellow–green electrophosphorescence, and two-color-based white OLEDs. *Journal of Materials Chemistry*, **2010**, 20, 10113		189

318	Exciplex: An Intermolecular Charge-Transfer Approach for TADF. *ACS Applied Materials & Interfaces*, **2018**, 10, 19279-19304	9.5	182
317	The first tandem, all-exciplex-based WOLED. *Scientific Reports*, **2014**, 4, 5161	4.9	181
316	Unusual nondispersive ambipolar carrier transport and high electron mobility in amorphous ter(9,9-diarylfluorene)s. *Journal of the American Chemical Society*, **2003**, 125, 3710-1	16.4	181
315	Efficient and Tunable Thermally Activated Delayed Fluorescence Emitters Having Orientation-Adjustable CN-Substituted Pyridine and Pyrimidine Acceptor Units. *Advanced Functional Materials*, **2016**, 26, 7560-7571	15.6	169
314	1,3,5-Triazine derivatives as new electron transport-type host materials for highly efficient green phosphorescent OLEDs. *Journal of Materials Chemistry*, **2009**, 19, 8112		162
313	Highly Efficient Orange and Green Solid-State Light-Emitting Electrochemical Cells Based on Cationic IrIII Complexes with Enhanced Steric Hindrance. *Advanced Functional Materials*, **2007**, 17, 1019-1027	15.6	162
312	Enantioselective Ring Opening of Epoxides with Silicon Tetrachloride in the Presence of a Chiral Lewis Base. *Journal of Organic Chemistry*, **1998**, 63, 2428-2429	4.2	157
311	Nonconjugated hybrid of carbazole and fluorene: a novel host material for highly efficient green and red phosphorescent OLEDs. *Organic Letters*, **2005**, 7, 5361-4	6.2	148
310	A donor-acceptor-acceptor molecule for vacuum-processed organic solar cells with a power conversion efficiency of 6.4%. *Chemical Communications*, **2012**, 48, 1857-9	5.8	146
309	Chemistry of Trichlorosilyl Enolates. 1. New Reagents for Catalytic, Asymmetric Aldol Additions. *Journal of the American Chemical Society*, **1996**, 118, 7404-7405	16.4	146
308	Highly efficient bilayer interface exciplex for yellow organic light-emitting diode. *ACS Applied Materials & Interfaces*, **2013**, 5, 6826-31	9.5	143
307	Nanoscale molecular organometallo-wires containing diruthenium cores. *Chemical Communications*, **2000**, 2259-2260	5.8	137
306	Balance the Carrier Mobility To Achieve High Performance Exciplex OLED Using a Triazine-Based Acceptor. *ACS Applied Materials & Interfaces*, **2016**, 8, 4811-8	9.5	135
305	Anisotropic optical properties and molecular orientation in vacuum-deposited ter(9,9-diarylfluorene)s thin films using spectroscopic ellipsometry. *Journal of Applied Physics*, **2004**, 95, 881-886	2.5	134
304	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
303	Incorporation of a CN group into mCP: a new bipolar host material for highly efficient blue and white electrophosphorescent devices. *Journal of Materials Chemistry*, **2012**, 22, 16114		127
302	Spirobifluorene-bridged donor/acceptor dye for organic dye-sensitized solar cells. *Organic Letters*, **2010**, 12, 12-5	6.2	126
301	The Chemistry of Trichlorosilyl Enolates. 2. Highly-Selective Asymmetric Aldol Additions of Ketone Enolates. *Journal of the American Chemical Society*, **1997**, 119, 2333-2334	16.4	126

300	Highly bright blue organic light-emitting devices using spirobifluorene-cored conjugated compounds. *Applied Physics Letters*, **2002**, 81, 577-579	3.4	124
299	Fluorene-Based Asymmetric Bipolar Universal Hosts for White Organic Light Emitting Devices. *Advanced Functional Materials*, **2013**, 23, 3096-3105	15.6	122
298	A Novel Electrochromic Polymer Synthesized through Electropolymerization of a New Donor□Acceptor Bipolar System. *Macromolecules*, **2007**, 40, 4456-4463	5.5	122
297	Suzuki coupling approach for the synthesis of phenylene-pyrimidine alternating oligomers for blue light-emitting material. *Organic Letters*, **2002**, 4, 513-6	6.2	121
296	Design and synthesis of iridium bis(carbene) complexes for efficient blue electrophosphorescence. *Chemistry - A European Journal*, **2011**, 17, 9180-7	4.8	120
295	Employing ambipolar oligofluorene as the charge-generation layer in time-of-flight mobility measurements of organic thin films. *Applied Physics Letters*, **2006**, 88, 064102	3.4	116
294	Highly Efficient Visible-Blind Organic Ultraviolet Photodetectors. *Advanced Materials*, **2005**, 17, 2489-2493	23.4	114
293	A dicarbazole□triazine hybrid bipolar host material for highly efficient green phosphorescent OLEDs. *Journal of Materials Chemistry*, **2012**, 22, 3832		107
292	Electrochemical behavior and electrogenerated chemiluminescence of star-shaped D-A compounds with a 1,3,5-triazine core and substituted fluorene arms. *Journal of the American Chemical Society*, **2010**, 132, 10944-52	16.4	106
291	Perspective on Host Materials for Thermally Activated Delayed Fluorescence Organic Light Emitting Diodes. *Advanced Optical Materials*, **2019**, 7, 1800565	8.1	106
290	Carbazole-based coplanar molecule (CmInF) as a universal host for multi-color electrophosphorescent devices. *Journal of Materials Chemistry*, **2012**, 22, 215-224		105
289	Efficient inverted solar cells using TiO(2) nanotube arrays. *Nanotechnology*, **2008**, 19, 255202	3.4	105
288	Spiro-configured bifluorenes: highly efficient emitter for UV organic light-emitting device and host material for red electrophosphorescence. *Organic Letters*, **2005**, 7, 5131-4	6.2	105
287	Enhanced electroluminescence based on thermally activated delayed fluorescence from a carbazole-triazine derivative. *Physical Chemistry Chemical Physics*, **2013**, 15, 15850-5	3.6	104
286	Syntheses and structures of novel heteroarene-fused coplanar pi-conjugated chromophores. *Organic Letters*, **2006**, 8, 5033-6	6.2	101
285	4,5-Diazafluorene-incorporated ter(9,9-diarylfluorene): a novel molecular doping strategy for improving the electron injection property of a highly efficient OLED blue emitter. *Organic Letters*, **2005**, 7, 1979-82	6.2	100
284	Efficient organic DSSC sensitizers bearing an electron-deficient pyrimidine as an effective □spacer. *Journal of Materials Chemistry*, **2011**, 21, 5950		99
283	Surface patterning with fluorescent molecules using click chemistry directed by scanning electrochemical microscopy. *Journal of the American Chemical Society*, **2008**, 130, 2392-3	16.4	96

282	Triphenylsilyl- and trityl-substituted carbazole-based host materials for blue electrophosphorescence. *ACS Applied Materials & Interfaces*, **2009**, 1, 567-74	9.5	95
281	Electrochemistry and electrogenerated chemiluminescence of a spirobifluorene-based donor (triphenylamine)-acceptor (2,1,3-benzothiadiazole) molecule and its organic nanoparticles. *Journal of the American Chemical Society*, **2011**, 133, 5492-9	16.4	94
280	Efficient solid-state host-guest light-emitting electrochemical cells based on cationic transition metal complexes. *Applied Physics Letters*, **2006**, 89, 261118	3.4	94
279	Pyrolyzed Cobalt Corrole as a Potential Non-Precious Catalyst for Fuel Cells. *Advanced Functional Materials*, **2012**, 22, 3500-3508	15.6	93
278	Os(II) Based Green to Red Phosphors: A Great Prospect for Solution-Processed, Highly Efficient Organic Light-Emitting Diodes. *Advanced Functional Materials*, **2012**, 22, 3491-3499	15.6	92
277	A novel ambipolar spirobifluorene derivative that behaves as an efficient blue-light emitter in organic light-emitting diodes. *Organic Letters*, **2007**, 9, 4511-4	6.2	92
276	Chiral Phosphoramide-Catalyzed Aldol Additions of Ketone Enolates. Preparative Aspects. *Journal of the American Chemical Society*, **1999**, 121, 4982-4991	16.4	92
275	Synthesis of Phosphoramides for the Lewis Base-Catalyzed Allylation and Aldol Addition Reactions. *Journal of Organic Chemistry*, **1999**, 64, 1958-1967	4.2	89
274	A diarylborane-substituted carbazole as a universal bipolar host material for highly efficient electrophosphorescence devices. *Journal of Materials Chemistry*, **2012**, 22, 870-876		88
273	Carbazole□benzimidazole hybrid bipolar host materials for highly efficient green and blue phosphorescent OLEDs. *Journal of Materials Chemistry*, **2011**, 21, 14971		84
272	Probe exciplex structure of highly efficient thermally activated delayed fluorescence organic light emitting diodes. *Nature Communications*, **2018**, 9, 3111	17.4	83
271	Synthesis and Properties of a Novel Electrochromic Polymer Obtained from the Electropolymerization of a 9,9□Spirobifluorene-Bridged Donor□Acceptor (D□A) Bichromophore System. *Chemistry of Materials*, **2006**, 18, 3495-3502	9.6	82
270	Phosphorescent iridium(III) complexes with nonconjugated cyclometalated ligands. *Chemistry - A European Journal*, **2008**, 14, 5423-34	4.8	81
269	Syntheses and spectroscopic studies of spirobifluorene-bridged bipolar systems; photoinduced electron transfer reactions. *Chemical Communications*, **2002**, 2874-5	5.8	81
268	Device engineering for highly efficient top-illuminated organic solar cells with microcavity structures. *Advanced Materials*, **2012**, 24, 2269-72	24	80
267	Microcavity-embedded, colour-tuneable, transparent organic solar cells. *Advanced Materials*, **2014**, 26, 1129-34	24	79
266	Indolo[3,2-b]carbazole/benzimidazole hybrid bipolar host materials for highly efficient red, yellow, and green phosphorescent organic light emitting diodes. *Journal of Materials Chemistry*, **2012**, 22, 8399		77
265	Organic dyes containing a coplanar indacenodithiophene bridge for high-performance dye-sensitized solar cells. *Journal of Organic Chemistry*, **2011**, 76, 8977-85	4.2	75

264	Synthesis and Photophysical Studies of Silylene-Spaced Divinylarene Copolymers. Molecular Weight Dependent Fluorescence of Alternating Silylene−Divinylbenzene Copolymers. *Journal of the American Chemical Society*, **1997**, 119, 11321-11322	16.4	74
263	Synthesis and properties of 9,9-diarylfluorene-based triaryldiamines. *Organic Letters*, **2001**, 3, 2285-8	6.2	74
262	Mechanoluminescent and efficient white OLEDs for Pt(II) phosphors bearing spatially encumbered pyridinyl pyrazolate chelates. *Journal of Materials Chemistry C*, **2013**, 1, 7582	7.1	73
261	Green electrogenerated chemiluminescence of highly fluorescent benzothiadiazole and fluorene derivatives. *Journal of the American Chemical Society*, **2009**, 131, 10733-41	16.4	72
260	Hole Mobilities of 2,7- and 2,2?-Disubstituted 9,9?-Spirobifluorene-Based Triaryldiamines and Their Application as Hole Transport Materials in OLEDs. *Chemistry of Materials*, **2007**, 19, 6350-6357	9.6	70
259	Coplanarity in the backbones of ladder-type oligo(p-phenylene) homologues and derivatives. *Organic Letters*, **2006**, 8, 5029-32	6.2	70
258	Blue-Emitting Heteroleptic Iridium(III) Complexes Suitable for High-Efficiency Phosphorescent OLEDs. *Angewandte Chemie*, **2007**, 119, 2470-2473	3.6	69
257	Highly efficient double-doped solid-state white light-emitting electrochemical cells. *Journal of Materials Chemistry*, **2011**, 21, 9653		68
256	High-luminescence non-doped green OLEDs based on a 9,9-diarylfluorene-terminated 2,1,3-benzothiadiazole derivative. *Journal of Materials Chemistry*, **2009**, 19, 773-780		67
255	Electrogenerated Chemiluminescence. 76. Excited Singlet State Emission vs Excimer Emission in Ter(9,9-diarylfluorene)s. *Journal of Physical Chemistry B*, **2003**, 107, 14407-14413	3.4	67
254	Chiral phosphoramide-catalyzed aldol additions of ketone trichlorosilyl enolates. Mechanistic aspects. *Journal of Organic Chemistry*, **2006**, 71, 3904-22	4.2	66
253	Electrochemistry and electrogenerated chemiluminescence of 3,6-di(spirobifluorene)-N-phenylcarbazole. *Journal of the American Chemical Society*, **2008**, 130, 634-9	16.4	65
252	New A-A-D-A-A-type electron donors for small molecule organic solar cells. *Organic Letters*, **2011**, 13, 4962-5	6.2	63
251	Remote Steric Effect as a Facile Strategy for Improving the Efficiency of Exciplex-Based OLEDs. *ACS Applied Materials & Interfaces*, **2017**, 9, 7355-7361	9.5	62
250	Efficient and stable blue electrogenerated chemiluminescence of fluorene-substituted aromatic hydrocarbons. *Angewandte Chemie - International Edition*, **2009**, 48, 9300-3	16.4	62
249	Electrogenerated chemiluminescence. 81. Influence of donor and acceptor substituents on the ECL of a spirobifluorene-bridged bipolar system. *Journal of Physical Chemistry B*, **2005**, 109, 3984-9	3.4	62
248	Silyl-Substituted Conjugated Dienes: Versatile Building Blocks in Organic Synthesis. *Synthesis*, **1993**, 1993, 349-370	2.9	62
247	Device characteristics and material developments of indoor photovoltaic devices. *Materials Science and Engineering Reports*, **2020**, 139, 100517	30.9	62

246	Anomalously Long-Lasting Blue PhOLED Featuring Phenyl-Pyrimidine Cyclometalated Iridium Emitter. *CheM*, **2017**, 3, 461-476	16.2	61
245	A silole copolymer containing a ladder-type heptacylic arene and naphthobisoxadiazole moieties for highly efficient polymer solar cells. *Energy and Environmental Science*, **2015**, 8, 552-557	35.4	60
244	Tailoring balance of carrier mobilities in solid-state light-emitting electrochemical cells by doping a carrier trapper to enhance device efficiencies. *Journal of Materials Chemistry*, **2011**, 21, 17855		60
243	Lewis Base-Catalyzed, Asymmetric Aldol Additions of Methyl Ketone Enolates *Journal of Organic Chemistry*, **1998**, 63, 918-919	4.2	60
242	A new ambipolar blue emitter for NTSC standard blue organic light-emitting device. *Organic Electronics*, **2009**, 10, 158-162	3.5	59
241	Synthesis, structures, and photoinduced electron transfer reaction in the 9,9Pspirobifluorene-bridged bipolar systems. *Journal of Organic Chemistry*, **2006**, 71, 456-65	4.2	58
240	Efficient and color-stable solid-state white light-emitting electrochemical cells employing red color conversion layers. *Organic Electronics*, **2012**, 13, 483-490	3.5	57
239	A novel amine-free dianchoring organic dye for efficient dye-sensitized solar cells. *Organic Letters*, **2012**, 14, 6338-41	6.2	56
238	Diphenyl(1-naphthyl)phosphine ancillary for assembling of red and orange-emitting Ir(III) based phosphors; strategic synthesis, photophysics, and organic light-emitting diode fabrication. *Inorganic Chemistry*, **2010**, 49, 8713-23	5.1	56
237	Blue-emitting Ir(III) phosphors with ancillary 4,6-difluorobenzyl diphenylphosphine based cyclometalate. *Dalton Transactions*, **2009**, 6472-5	4.3	56
236	Organic polymeric and small molecular electron acceptors for organic solar cells. *Materials Science and Engineering Reports*, **2018**, 124, 1-57	30.9	55
235	Efficient and convenient nonaqueous workup procedure for the preparation of arylboronic esters. *Journal of Organic Chemistry*, **2002**, 67, 1041-4	4.2	55
234	Cyanopyrimidine-Carbazole Hybrid Host Materials for High-Efficiency and Low-Efficiency Roll-Off TADF OLEDs. *ACS Applied Materials & Interfaces*, **2018**, 10, 12930-12936	9.5	54
233	Synthesis and properties of novel thiophene-based conjugated homologues: 9,9-diphenylfluorene-capped oligothiophenes. *Organic Letters*, **2002**, 4, 4439-42	6.2	53
232	Spontaneous generation of highly emissive RGB organic nanospheres. *Angewandte Chemie - International Edition*, **2011**, 50, 7032-6	16.4	52
231	Influences of molecular orientations on stimulated emission characteristics of oligofluorene films. *Organic Electronics*, **2007**, 8, 189-197	3.5	52
230	Structural characterization and luminescence behavior of a silver(I) 1D polymeric chain constructed via a Bridge with unusual 4,5-diazospirobifluorene and perchlorate. *Inorganic Chemistry*, **2004**, 43, 4781-3	5.1	52
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228	Decreased turn-on times of single-component light-emitting electrochemical cells by tethering an ionic iridium complex with imidazolium moieties. *Chemistry - an Asian Journal*, **2008**, 3, 1922-8	4.5	50
227	Exciplex-Forming Cohost for High Efficiency and High Stability Phosphorescent Organic Light-Emitting Diodes. *ACS Applied Materials & Interfaces*, **2018**, 10, 2151-2157	9.5	49
226	Synthesis and Properties of a Novel Cross-Linked Electroactive Polymer Formed from a Bipolar Starburst Monomer. *Macromolecules*, **2009**, 42, 626-635	5.5	49
225	Improving device efficiencies of solid-state white light-emitting electrochemical cells by adjusting the emissive-layer thickness. *Organic Electronics*, **2013**, 14, 2424-2430	3.5	48
224	Efficient solid-state white light-emitting electrochemical cells based on phosphorescent sensitization. *Journal of Materials Chemistry*, **2012**, 22, 22998		48
223	Phosphorescent sensitized fluorescent solid-state near-infrared light-emitting electrochemical cells. *Physical Chemistry Chemical Physics*, **2011**, 13, 17729-36	3.6	48
222	An ambipolar host material provides highly efficient saturated red PhOLEDs possessing simple device structures. *Physical Chemistry Chemical Physics*, **2008**, 10, 5822-5	3.6	48
221	Modulation of physical properties of Ter(9,9-ditolylfluorene) by backbone-embedded heteroarenes. *Organic Letters*, **2006**, 8, 1415-8	6.2	48
220	Stable Organic Photosensitizer Nanoparticles with Absorption Peak beyond 800 Nanometers and High Reactive Oxygen Species Yield for Multimodality Phototheranostics. *ACS Nano*, **2020**, 14, 9917-9928	16.7	48
219	Highly efficient exciplex emission in solid-state light-emitting electrochemical cells based on mixed ionic hole-transport triarylamine and ionic electron-transport 1,3,5-triazine derivatives. *Journal of Materials Chemistry C*, **2013**, 1, 4647	7.1	47
218	Molecular topology tuning of bipolar host materials composed of fluorene-bridged benzimidazole and carbazole for highly efficient electrophosphorescence. *Chemistry - A European Journal*, **2013**, 19, 10563-72	4.8	47
217	Energy transfer in supramolecular materials for new applications in photonics and electronics. *NPG Asia Materials*, **2014**, 6, e116-e116	10.3	46
216	Cationic iridium complexes with intramolecular □ interaction and enhanced steric hindrance for solid-state light-emitting electrochemical cells. *Inorganic Chemistry*, **2012**, 51, 12114-21	5.1	46
215	Improving the balance of carrier mobilities of host-guest solid-state light-emitting electrochemical cells. *Physical Chemistry Chemical Physics*, **2012**, 14, 1262-9	3.6	46
214	A carbazole□phenylbenzimidazole hybrid bipolar universal host for high efficiency RGB and white PhOLEDs with high chromatic stability. *Journal of Materials Chemistry*, **2011**, 21, 19249		46
213	Asymmetric aldol additions catalyzed by chiral phosphoramides: Electronic effects of the aldehyde component. *Tetrahedron*, **1998**, 54, 10389-10402	2.4	46
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211	New Molecular Donors with Dithienopyrrole as the Electron-Donating Group for Efficient Small-Molecule Organic Solar Cells. *Chemistry of Materials*, **2014**, 26, 4361-4367	9.6	45

210	An ionic terfluorene derivative for saturated deep-blue solid state light-emitting electrochemical cells. *Journal of Materials Chemistry*, **2011**, 21, 4175		45
209	A new donor-acceptor molecule with uniaxial anisotropy for efficient vacuum-deposited organic solar cells. *Chemical Communications*, **2011**, 47, 7872-4	5.8	45
208	Optical Properties of Oligo(9,9-diarylfluorene) Derivatives in Thin Films and Their Application for Organic Light-Emitting Field-Effect Transistors. *Journal of Physical Chemistry C*, **2007**, 111, 108-115	3.8	45
207	A high-efficiency and low-operating-voltage green electrophosphorescent device employing a pure-hydrocarbon host material. *Chemical Communications*, **2009**, 3892-4	5.8	44
206	Peripheral modification of 1,3,5-triazine based electron-transporting host materials for sky blue, green, yellow, red, and white electrophosphorescent devices. *Journal of Materials Chemistry*, **2012**, 22, 15620		43
205	Tailoring carrier injection efficiency to improve the carrier balance of solid-state light-emitting electrochemical cells. *Physical Chemistry Chemical Physics*, **2012**, 14, 9774-84	3.6	43
204	A thermally cured 9,9-diarylfluorene-based triaryldiamine polymer displaying high hole mobility and remarkable ambient stability. *Journal of Materials Chemistry*, **2009**, 19, 3618		43
203	Versatile Exciplex-Forming Co-Host for Improving Efficiency and Lifetime of Fluorescent and Phosphorescent Organic Light-Emitting Diodes. *ACS Applied Materials & Interfaces*, **2018**, 10, 24090-24098	9.5	43
202	Efficient carrier- and exciton-confining device structure that enhances blue PhOLED efficiency and reduces efficiency roll-off. *Organic Electronics*, **2011**, 12, 575-581	3.5	42
201	Intramolecular Dimerization Quenching of Delayed Emission in Asymmetric D-DPA TADF Emitters. *Journal of Physical Chemistry C*, **2019**, 123, 12400-12410	3.8	41
200	Indolo[2,3-b]carbazole synthesized from a double-intramolecular Buchwald-Hartwig reaction: its application for a dianchor DSSC organic dye. *Organic Letters*, **2014**, 16, 3176-9	6.2	40
199	Efficient solid-state white light-emitting electrochemical cells employing embedded red color conversion layers. *Journal of Materials Chemistry C*, **2015**, 3, 2802-2809	7.1	39
198	Solid-state light-emitting electrochemical cells employing phosphor-sensitized fluorescence. *Journal of Materials Chemistry*, **2010**, 20, 5521		39
197	Non-doped solid-state white light-emitting electrochemical cells employing the microcavity effect. *Physical Chemistry Chemical Physics*, **2015**, 17, 6956-62	3.6	38
196	2,1,3-Benzothiadiazole-containing donor–acceptor–acceptor dyes for dye-sensitized solar cells. *Tetrahedron*, **2012**, 68, 7509-7516	2.4	38
195	Pyridine-based electron transporting materials for highly efficient organic solar cells. *Journal of Materials Chemistry A*, **2013**, 1, 1770-1777	13	37
194	New D-A-A-Configured Small-Molecule Donors for High-Efficiency Vacuum-Processed Organic Photovoltaics under Ambient Light. *ACS Applied Materials & Interfaces*, **2019**, 11, 8337-8349	9.5	36
193	Enhancing device efficiencies of solid-state white light-emitting electrochemical cells by employing waveguide coupling. *Journal of Materials Chemistry C*, **2015**, 3, 5665-5673	7.1	36

192	Role of a hydrophobic scaffold in controlling the crystallization of methylammonium antimony iodide for efficient lead-free perovskite solar cells. *Nano Energy*, **2018**, 45, 330-336	17.1	36
191	Effects of Ortho-Phenyl Substitution on the rISC Rate of DA Type TADF Molecules. *Journal of Physical Chemistry C*, **2018**, 122, 7627-7634	3.8	36
190	Spiro-configured bipolar host materials for highly efficient electrophosphorescent devices. *Chemistry - an Asian Journal*, **2012**, 7, 133-42	4.5	36
189	Control of the arrangement of dipolar orientation of pyrimidine inside the conjugated backbone. *Organic Letters*, **2001**, 3, 173-5	6.2	36
188	Bending-Type Electron DonorDonorAcceptor Triad: Dual Excited-State Charge-Transfer Coupled Structural Relaxation. *Chemistry of Materials*, **2019**, 31, 5981-5992	9.6	35
187	A new tricarbazole phosphine oxide bipolar host for efficient single-layer blue PhOLED. *Organic Electronics*, **2011**, 12, 2025-2032	3.5	34
186	A new spirobifluorene-bridged bipolar system for a nitric oxide turn-on fluorescent probe. *Organic Letters*, **2011**, 13, 2216-9	6.2	34
185	Regioisomeric Effects of Donor-Acceptor-AcceptorPSmall-Molecule Donors on the Open Circuit Voltage of Organic Photovoltaics. *Advanced Materials*, **2016**, 28, 8248-8255	24	33
184	An effective bilayer cathode buffer for highly efficient small molecule organic solar cells. *Organic Electronics*, **2012**, 13, 1925-1929	3.5	32
183	Carbazole and benzimidazole/oxadiazole hybrids as bipolar host materials for sky blue, green, and red PhOLEDs. *Organic Electronics*, **2012**, 13, 2671-2681	3.5	32
182	A spiro-configured ambipolar host material for impressively efficient single-layer green electrophosphorescent devices. *Physical Chemistry Chemical Physics*, **2010**, 12, 10685-7	3.6	32
181	Synthesis and properties of dumbbell-shaped dendrimers containing 9-phenylcarbazole dendrons. *Organic Letters*, **2007**, 9, 4531-4	6.2	32
180	Facile synthesis of 9-azajulolidine and its application to post-Ullmann reactions. *Tetrahedron Letters* , **2007**, 48, 5051-5054	2	32
179	Novel spiro-configured PET chromophores incorporating 4,5-diazafluorene moiety as an electron acceptor. *Organic Letters*, **2006**, 8, 3501-4	6.2	32
178	Influences of oligomer length on carrier-transport properties of oligofluorenes. *Applied Physics Letters*, **2004**, 85, 1172-1174	3.4	32
177	Highly efficient organic solar cells using a solution-processed active layer with a small molecule donor and pristine fullerene. *Journal of Materials Chemistry A*, **2014**, 2, 3709-3714	13	31
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