

Hai-Ching Su

List of Publications by Year in descending order

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71
papers

2,479
citations

147801

31
h-index

197818

49
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75
all docs

75
docs citations

75
times ranked

1476
citing authors

#	ARTICLE	IF	CITATIONS
1	Solid-State White Light-Emitting Electrochemical Cells Using Iridium-Based Cationic Transition Metal Complexes. <i>Journal of the American Chemical Society</i> , 2008, 130, 3413-3419.	13.7	258
2	Toward Functional π -Conjugated Organophosphorus Materials: Design of Phosphole-Based Oligomers for Electroluminescent Devices. <i>Journal of the American Chemical Society</i> , 2006, 128, 983-995.	13.7	255
3	Efficient solid-state host-guest light-emitting electrochemical cells based on cationic transition metal complexes. <i>Applied Physics Letters</i> , 2006, 89, 261118.	3.3	97
4	Highly efficient double-doped solid-state white light-emitting electrochemical cells. <i>Journal of Materials Chemistry</i> , 2011, 21, 9653.	6.7	74
5	Improving the carrier balance of light-emitting electrochemical cells based on ionic transition metal complexes. <i>Dalton Transactions</i> , 2015, 44, 8330-8345.	3.3	64
6	Tailoring balance of carrier mobilities in solid-state light-emitting electrochemical cells by doping a carrier trapper to enhance device efficiencies. <i>Journal of Materials Chemistry</i> , 2011, 21, 17855.	6.7	63
7	Efficient and color-stable solid-state white light-emitting electrochemical cells employing red color conversion layers. <i>Organic Electronics</i> , 2012, 13, 483-490.	2.6	61
8	Recent Advances in Solid-State White Light-Emitting Electrochemical Cells. <i>Israel Journal of Chemistry</i> , 2014, 54, 855-866.	2.3	61
9	Extracting evolution of recombination zone position in sandwiched solid-state light-emitting electrochemical cells by employing microcavity effect. <i>Organic Electronics</i> , 2013, 14, 2269-2277.	2.6	59
10	Phosphorescent sensitized fluorescent solid-state near-infrared light-emitting electrochemical cells. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 17729.	2.8	55
11	Decreased Turn-On Times of Single-Component Light-Emitting Electrochemical Cells by Tethering an Ionic Iridium Complex with Imidazolium Moieties. <i>Chemistry - an Asian Journal</i> , 2008, 3, 1922-1928.	3.3	53
12	Improving device efficiencies of solid-state white light-emitting electrochemical cells by adjusting the emissive-layer thickness. <i>Organic Electronics</i> , 2013, 14, 2424-2430.	2.6	53
13	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. <i>Journal of Materials Chemistry C</i> , 2013, 1, 4647.	5.5	53
14	Efficient solid-state white light-emitting electrochemical cells based on phosphorescent sensitization. <i>Journal of Materials Chemistry</i> , 2012, 22, 22998.	6.7	51
15	Enhancing device efficiencies of solid-state near-infrared light-emitting electrochemical cells by employing a tandem device structure. <i>Organic Electronics</i> , 2014, 15, 711-720.	2.6	50
16	Recent Progress in White Light-Emitting Electrochemical Cells. <i>Advanced Functional Materials</i> , 2020, 30, 1906898.	14.9	49
17	An ionic terfluorene derivative for saturated deep-blue solid state light-emitting electrochemical cells. <i>Journal of Materials Chemistry</i> , 2011, 21, 4175.	6.7	48
18	Cationic Iridium Complexes with Intramolecular π - π Interaction and Enhanced Steric Hindrance for Solid-State Light-Emitting Electrochemical Cells. <i>Inorganic Chemistry</i> , 2012, 51, 12114-12121.	4.0	46

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19	Improving the balance of carrier mobilities of host-guest solid-state light-emitting electrochemical cells. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 1262-1269.	2.8	46
20	Non-doped solid-state white light-emitting electrochemical cells employing the microcavity effect. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 6956-6962.	2.8	46
21	Efficient solid-state white light-emitting electrochemical cells employing embedded red color conversion layers. <i>Journal of Materials Chemistry C</i> , 2015, 3, 2802-2809.	5.5	46
22	Tailoring carrier injection efficiency to improve the carrier balance of solid-state light-emitting electrochemical cells. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 9774.	2.8	45
23	Enhancing device efficiencies of solid-state white light-emitting electrochemical cells by employing waveguide coupling. <i>Journal of Materials Chemistry C</i> , 2015, 3, 5665-5673.	5.5	45
24	Solid-state light-emitting electrochemical cells employing phosphor-sensitized fluorescence. <i>Journal of Materials Chemistry</i> , 2010, 20, 5521.	6.7	43
25	Cationic Ir ^{III} Emitters with Near-Infrared Emission Beyond 800 nm and Their Use in Light-Emitting Electrochemical Cells. <i>Chemistry - A European Journal</i> , 2019, 25, 5489-5497.	3.3	42
26	Host-only solid-state near-infrared light-emitting electrochemical cells based on interferometric spectral tailoring. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 5034-5039.	2.8	41
27	Single-component polyfluorene electrolytes bearing different counterions for white light-emitting electrochemical cells. <i>Organic Electronics</i> , 2013, 14, 488-499.	2.6	39
28	Effects of incorporating salts with various alkyl chain lengths on carrier balance of light-emitting electrochemical cells. <i>Organic Electronics</i> , 2014, 15, 2885-2892.	2.6	39
29	Coherent and Polarized Random Laser Emissions from Colloidal CdSe/ZnS Quantum Dots Plasmonically Coupled to Ellipsoidal Ag Nanoparticles. <i>Advanced Optical Materials</i> , 2017, 5, 1600746.	7.3	39
30	Bis(diphenylamino)-9,9'-spirobifluorene functionalized Ir(III) complex: a conceptual design en route to a three-in-one system possessing emitting core and electron and hole transport peripherals. <i>Journal of Materials Chemistry</i> , 2011, 21, 768-774.	6.7	35
31	UV light-emitting electrochemical cells based on an ionic 2,2'-bifluorene derivative. <i>Organic Electronics</i> , 2012, 13, 1765-1773.	2.6	35
32	Optical Techniques for Light-Emitting Electrochemical Cells. <i>ChemPlusChem</i> , 2018, 83, 197-210.	2.8	33
33	Recent Advances in Optical Engineering of Light-Emitting Electrochemical Cells. <i>Advanced Functional Materials</i> , 2020, 30, 1906788.	14.9	30
34	Efficient and Saturated Red Light-Emitting Electrochemical Cells Based on Cationic Iridium(III) Complexes with EQE up to 9.4%. <i>Chemistry - A European Journal</i> , 2019, 25, 13748-13758.	3.3	29
35	Solution-processable tandem solid-state light-emitting electrochemical cells. <i>Organic Electronics</i> , 2013, 14, 3379-3384.	2.6	28
36	Combinational Approach To Realize Highly Efficient Light-Emitting Electrochemical Cells. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 14254-14264.	8.0	28

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37	Achieving highly saturated single-color and high color-rendering-index white light-emitting electrochemical cells by CsPbX ₃ perovskite color conversion layers. <i>Journal of Materials Chemistry C</i> , 2018, 6, 12808-12813.	5.5	27
38	Effects of tuning the applied voltage pulse periods on the electroluminescence spectra of host-guest white light-emitting electrochemical cells. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 18226-18232.	2.8	27
39	Solid-state white light-emitting electrochemical cells based on scattering red color conversion layers. <i>Journal of Materials Chemistry C</i> , 2015, 3, 12492-12498.	5.5	26
40	Incorporating a hole-transport material into the emissive layer of solid-state light-emitting electrochemical cells to improve device performance. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 17253-17259.	2.8	25
41	Enhancing extracted electroluminescence from light-emitting electrochemical cells by employing high-refractive-index substrates. <i>Organic Electronics</i> , 2017, 51, 149-155.	2.6	20
42	Highly efficient blue and white light-emitting electrochemical cells employing substrates containing embedded diffusive layers. <i>Organic Electronics</i> , 2020, 77, 105515.	2.6	20
43	A demonstration of solid-state white light-emitting electrochemical cells using the integrated on-chip plasmonic notch filters. <i>Journal of Materials Chemistry C</i> , 2016, 4, 1599-1605.	5.5	18
44	Dynamically tuning the correlated color temperature of white light-emitting electrochemical cells with electrochromic filters. <i>Organic Electronics</i> , 2017, 48, 248-253.	2.6	16
45	Highly Emissive Red Heterobimetallic Ir ^{III} /M ^I (M ^I = Cu ^I) Tj ETQq1 1 0.784314 rgBT Materials, 2022, 34, 1756-1769.	6.7	16
46	Purely organic pyridium-based materials with thermally activated delayed fluorescence for orange-red light-emitting electrochemical cells. <i>Dyes and Pigments</i> , 2022, 203, 110346.	3.7	15
47	In situ electrochemical doping enhances the efficiency of polymer photovoltaic devices. <i>Journal of Materials Chemistry</i> , 2011, 21, 6217.	6.7	14
48	Laser-Scanned Programmable Color Temperature of Electroluminescence from White Light-Emitting Electrochemical Cells. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 31799-31805.	8.0	14
49	Tuning the Color Temperature of White-Light-Emitting Electrochemical Cells by Laser-Scanning Perovskite-Nanocrystal Color Conversion Layers. <i>ChemPlusChem</i> , 2018, 83, 239-245.	2.8	13
50	Near-infrared light-emitting electrochemical cells based on the excimer emission of a cationic iridium complex. <i>Journal of Materials Chemistry C</i> , 2020, 8, 14378-14385.	5.5	12
51	Perovskite Light-Emitting Electrochemical Cells Employing Electron Injection/Transport Layers of Ionic Transition Metal Complexes. <i>Chemistry - A European Journal</i> , 2021, 27, 17785-17793.	3.3	12
52	Plasmonic enhancement in electroluminescence from light-emitting electrochemical cells incorporating gold nanourchins. <i>Journal of Materials Chemistry C</i> , 2016, 4, 5610-5616.	5.5	10
53	Improving color saturation of blue light-emitting electrochemical cells by plasmonic filters. <i>Organic Electronics</i> , 2017, 51, 70-75.	2.6	10
54	Optimizing carrier balance of a red quantum-dot light-emitting electrochemical cell with a carrier injection layer of cationic Ir(III) complex. <i>Organic Electronics</i> , 2021, 88, 106016.	2.6	8

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55	Alkylâ€Spacer Enhancement in Performance of Lightâ€Emitting Electrochemical Cells. European Journal of Inorganic Chemistry, 2020, 2020, 3517-3526.	2.0	7
56	Hybrid Whiteâ€Lightâ€Emitting Electrochemical Cells Based on a Blue Cationic Iridium(III) Complex and Red Quantum Dots. Chemistry - A European Journal, 2020, 26, 13668-13676.	3.3	7
57	An alternative composite electrode for efficient organic light-emitting diodes. Organic Electronics, 2020, 85, 105844.	2.6	7
58	Flexible light-emitting electrochemical cells on muscovite mica substrates. Organic Electronics, 2021, 96, 106218.	2.6	7
59	64.3: Highâ€Efficiency Phosphorescent White OLEDs Using Redâ€Emitting Osmium Complex and Blueâ€Emitting Iridium Complex. Digest of Technical Papers SID International Symposium, 2007, 38, 1772-1775.	0.3	2
60	Perovskite Lightâ€Emitting Electrochemical Cells Employing Electron Injection/Transport Layers of Ionic Transition Metal Complexes. Chemistry - A European Journal, 2021, 27, 17725-17725.	3.3	2
61	11.4: Highly Efficient Blue Organic Electrophosphorescent Devices Based on 3,6-Bis(triphenylsilyl)Carbazole as the Host Material. Digest of Technical Papers SID International Symposium, 2006, 37, 139.	0.3	1
62	Pâ€152: Efficient Blue Phosphorescent OLEDs Employing Novel Oligocarbazoles as Highâ€Tripletâ€Energy Host Materials. Digest of Technical Papers SID International Symposium, 2007, 38, 772-775.	0.3	1
63	Pâ€114: Nonâ€Doped White Lightâ€Emitting Electrochemical Cells Employing Plasmonic Notch Filters. Digest of Technical Papers SID International Symposium, 2017, 48, 1686-1689.	0.3	1
64	Optical Engineering of Light-Emitting Electrochemical Cells Including Microcavity Effect and Outcoupling Extraction Technologies. , 2017, , 77-92.		1
65	Non-invasive probing of dynamic ion migration in light-emitting electrochemical cells by an advanced nanoscale confocal microscope. Optics Express, 2022, 30, 28817.	3.4	1
66	Pâ€151: Efficient Solutionâ€Processable Solidâ€State Lightâ€Emitting Electrochemical Cells Based on Hostâ€Guest Cationic Phosphorescent Complexes. Digest of Technical Papers SID International Symposium, 2007, 38, 768-771.	0.3	0
67	Pâ€118: Improving Balance of Carrier Mobilities by Doping a Carrier Trapper to Achieve Efficient Solidâ€State Lightâ€Emitting Electrochemical Cells. Digest of Technical Papers SID International Symposium, 2012, 43, 1503-1506.	0.3	0
68	Light-Emitting Electrochemical Cells. Lecture Notes in Quantum Chemistry II, 2016, , 197-225.	0.3	0
69	Improving Charge Carrier Balance by Incorporating Additives in the Active Layer. , 2017, , 121-137.		0
70	Adjusting Correlated Color Temperature from White Light-Emitting Electrochemical Cells by Employing Electrochromic Filters. , 2018, , .		0
71	Laser-Scanned Programmable Perovskite-Nanocrystal Color Conversion Layers for White Light-Emitting Electrochemical Cells. , 2018, , .		0