

Yu Duan

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119
papers

3,032
citations

26
h-index

52
g-index

129
ext. papers

3,672
ext. citations

5.1
avg, IF

5.53
L-index

#	Paper	IF	Citations
119	A Review of Perovskites Solar Cell Stability. <i>Advanced Functional Materials</i> , 2019 , 29, 1808843	15.6	554
118	Caffeine Improves the Performance and Thermal Stability of Perovskite Solar Cells. <i>Joule</i> , 2019 , 3, 1464-1487	14.87	266
117	Recent progress on thin-film encapsulation technologies for organic electronic devices. <i>Optics Communications</i> , 2016 , 362, 43-49	2	172
116	Improvement of Gas and Humidity Sensing Properties of Organ-like MXene by Alkaline Treatment. <i>ACS Sensors</i> , 2019 , 4, 1261-1269	9.2	107
115	White organic light-emitting devices using a phosphorescent sensitizer. <i>Applied Physics Letters</i> , 2003 , 82, 4224-4226	3.4	101
114	Crystalline Liquid-like Behavior: Surface-Induced Secondary Grain Growth of Photovoltaic Perovskite Thin Film. <i>Journal of the American Chemical Society</i> , 2019 , 141, 13948-13953	16.4	96
113	Flexible resistive NO ₂ gas sensor of three-dimensional crumpled MXene Ti ₃ C ₂ T _x /ZnO spheres for room temperature application. <i>Sensors and Actuators B: Chemical</i> , 2021 , 326, 128828	8.5	76
112	White organic light-emitting devices with a bipolar transport layer between blue fluorescent and orange phosphorescent emitting layers. <i>Applied Physics Letters</i> , 2007 , 91, 023505	3.4	73
111	Oligomeric Phenylenevinylene with Cross Dipole Arrangement and Amorphous Morphology: Enhanced Solid-State Luminescence Efficiency and Electroluminescence Performance. <i>Advanced Materials</i> , 2005 , 17, 2710-2714	24	69
110	Realization of Thin Film Encapsulation by Atomic Layer Deposition of Al ₂ O ₃ at Low Temperature. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 20308-20312	3.8	64
109	Opportunities and Challenges of Lead-Free Perovskite Optoelectronic Devices. <i>Trends in Chemistry</i> , 2019 , 1, 368-379	14.8	61
108	Hermetic seal for perovskite solar cells: An improved plasma enhanced atomic layer deposition encapsulation. <i>Nano Energy</i> , 2020 , 69, 104375	17.1	56
107	Efficient non-doped monochrome and white phosphorescent organic light-emitting diodes based on ultrathin emissive layers. <i>Organic Electronics</i> , 2015 , 26, 451-457	3.5	49
106	Color-stable and efficient stacked white organic light-emitting devices comprising blue fluorescent and orange phosphorescent emissive units. <i>Applied Physics Letters</i> , 2008 , 93, 153508	3.4	44
105	Thin-film barrier performance of zirconium oxide using the low-temperature atomic layer deposition method. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 3799-804	9.5	41
104	A flexible plasma-treated silver-nanowire electrode for organic light-emitting devices. <i>Scientific Reports</i> , 2017 , 7, 16468	4.9	41
103	Inkjet-printed Ag grid combined with Ag nanowires to form a transparent hybrid electrode for organic electronics. <i>Organic Electronics</i> , 2017 , 41, 179-185	3.5	41

102	Doping-free orange and white phosphorescent organic light-emitting diodes with ultra-simple structure and excellent color stability. <i>Organic Electronics</i> , 2015 , 18, 84-88	3.5	40
101	Extremely low voltage and high bright p-i-n fluorescent white organic light-emitting diodes. <i>Applied Physics Letters</i> , 2008 , 92, 113304	3.4	39
100	Low-temperature remote plasma enhanced atomic layer deposition of ZrO/zirconium nanolaminate film for efficient encapsulation of flexible organic light-emitting diodes. <i>Scientific Reports</i> , 2017 , 7, 40064-9	4.9	35
99	White light-emitting devices based on the combined emission from red CdSe/ZnS quantum dots, green phosphorescent, and blue fluorescent organic molecules. <i>Applied Physics Letters</i> , 2009 , 94, 243506-4	3.4	34
98	The improvement of thin film barrier performances of organic/inorganic hybrid nanolaminates employing a low-temperature MLD/ALD method. <i>RSC Advances</i> , 2014 , 4, 43850-43856	3.7	32
97	High barrier properties of transparent thin-film encapsulations for top emission organic light-emitting diodes. <i>Organic Electronics</i> , 2014 , 15, 1120-1125	3.5	30
96	Highly flexible peeled-off silver nanowire transparent anode using in organic light-emitting devices. <i>Applied Surface Science</i> , 2015 , 351, 445-450	6.7	30
95	High-performance blue electroluminescence devices based on distyrylbenzene derivatives. <i>Applied Physics Letters</i> , 2006 , 88, 263503	3.4	30
94	Method for Aluminum Oxide Thin Films Prepared through Low Temperature Atomic Layer Deposition for Encapsulating Organic Electroluminescent Devices. <i>Materials</i> , 2015 , 8, 600-610	3.5	26
93	Efficient Flexible Inorganic Perovskite Light-Emitting Diodes Fabricated with CsPbBr Emitters Prepared via Low-Temperature in Situ Dynamic Thermal Crystallization. <i>Nano Letters</i> , 2020 , 20, 4673-4680	11.5	25
92	Influence of interlayer on the performance of stacked white organic light-emitting devices. <i>Applied Physics Letters</i> , 2009 , 95, 123307	3.4	25
91	Smooth ZnO:Al-AgNWs Composite Electrode for Flexible Organic Light-Emitting Device. <i>Nanoscale Research Letters</i> , 2017 , 12, 77	5	23
90	Two-In-One Method for Graphene Transfer: Simplified Fabrication Process for Organic Light-Emitting Diodes. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 7289-7295	9.5	22
89	High quality factor microcavity OLED employing metal-free electrically active Bragg mirrors. <i>Organic Electronics</i> , 2018 , 62, 174-180	3.5	22
88	Progress of High-Throughput and Low-Cost Flexible Perovskite Solar Cells. <i>Solar Rrl</i> , 2020 , 4, 1900556	7.1	21
87	Functional Metal Oxides in Perovskite Solar Cells. <i>ChemPhysChem</i> , 2019 , 20, 2580-2586	3.2	21
86	Optimization of Al ₂ O ₃ Films Deposited by ALD at Low Temperatures for OLED Encapsulation. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 18783-18787	3.8	21
85	Fabrication of tunable [Al ₂ O ₃ :Alucone] thin-film encapsulations for top-emitting organic light-emitting diodes with high performance optical and barrier properties. <i>Organic Electronics</i> , 2014 , 15, 2546-2552	3.5	21

84	Aluminum-Doped Zinc Oxide Transparent Electrode Prepared by Atomic Layer Deposition for Organic Light Emitting Devices. <i>IEEE Nanotechnology Magazine</i> , 2017 , 16, 634-638	2.6	20
83	Effect of Various Oxidants on Reaction Mechanisms, Self-Limiting Natures and Structural Characteristics of Al ₂ O ₃ Films Grown by Atomic Layer Deposition. <i>Advanced Materials Interfaces</i> , 2018 , 5, 1701248	4.6	19
82	High-performance barrier using a dual-layer inorganic/organic hybrid thin-film encapsulation for organic light-emitting diodes. <i>Organic Electronics</i> , 2014 , 15, 1936-1941	3.5	19
81	Very low voltage and stable p-i-n organic light-emitting diodes using a linear S,S-dioxide oligothiophene as emitting layer. <i>Applied Physics Letters</i> , 2009 , 94, 063510	3.4	19
80	Recent advances in semitransparent perovskite solar cells. <i>Information Materials</i> , 2021 , 3, 101-124	23.1	19
79	Highly efficient organic-inorganic hybrid perovskite quantum dot/nanocrystal light-emitting diodes using graphene electrode and modified PEDOT:PSS. <i>Organic Electronics</i> , 2019 , 72, 30-38	3.5	18
78	High-performance flexible Ag nanowire electrode with low-temperature atomic-layer-deposition fabrication of conductive-bridging ZnO film. <i>Nanoscale Research Letters</i> , 2015 , 10, 90	5	18
77	High efficiency warm white phosphorescent organic light emitting devices based on blue light emission from a bipolar mixed-host. <i>Organic Electronics</i> , 2017 , 45, 273-278	3.5	17
76	Efficient white organic light-emitting diodes based on an orange iridium phosphorescent complex. <i>Journal of Luminescence</i> , 2011 , 131, 2144-2147	3.8	17
75	Shaping white light through electroluminescent fully organic coupled microcavities. <i>Advanced Materials</i> , 2010 , 22, 4696-700	24	17
74	A novel amorphous oligo(phenylenevinylene) dimer with a biphenyl linkage center and fluorene end groups for electroluminescent devices. <i>Journal of Materials Chemistry</i> , 2004 , 14, 2735		16
73	Management of charge carriers and excitons for efficient and color-stable white phosphorescent organic light-emitting diodes with simplified structure. <i>Organic Electronics</i> , 2016 , 37, 207-212	3.5	16
72	High-efficiency and superior color-stability white phosphorescent organic light-emitting diodes based on double mixed-host emission layers. <i>Organic Electronics</i> , 2016 , 31, 136-141	3.5	15
71	Simulation of transform for external quantum efficiency and power efficiency of electroluminescent devices. <i>Journal of Luminescence</i> , 2007 , 122-123, 626-628	3.8	15
70	Highly Efficient, Simplified Monochrome and White Organic Light-Emitting Devices based on Novel Exciplex Host. <i>Advanced Optical Materials</i> , 2020 , 8, 1901247	8.1	15
69	Flexible transparent electrodes for organic light-emitting diodes simply fabricated with AuCl ₃ -modified graphene. <i>Organic Electronics</i> , 2018 , 63, 71-77	3.5	15
68	Passivation Properties of UV-Curable Polymer for Organic Light Emitting Diodes. <i>ECS Solid State Letters</i> , 2013 , 2, R31-R33		14
67	Highly efficient white polymer light-emitting devices based on wide bandgap polymer doped with blue and yellow phosphorescent dyes. <i>Optics Letters</i> , 2010 , 35, 2436-8	3	14

66	Highly efficient phosphorescent organic light-emitting devices based on Re(CO)3Cl-bathophenanthroline. <i>Semiconductor Science and Technology</i> , 2007 , 22, 553-556	1.8	14
65	Improved efficiency of organic light-emitting devices employing bathocuproine doped in the electron-transporting layer. <i>Semiconductor Science and Technology</i> , 2003 , 18, L49-L52	1.8	14
64	Improved injection properties of self-passivated degenerated transparent electrode for organic and perovskite light emitting devices. <i>Applied Surface Science</i> , 2020 , 504, 144442	6.7	14
63	High-Efficiency White Organic Light-Emitting Devices Based on Multiple Quantum-Well Structure. <i>Chinese Physics Letters</i> , 2004 , 21, 534-536	1.8	13
62	Bulk Passivation and Interfacial Passivation for Perovskite Solar Cells: Which One is More Effective?. <i>Advanced Materials Interfaces</i> , 2021 , 8, 2002078	4.6	13
61	High-efficiency red phosphorescent electroluminescence devices based on mixed p/n host matrices. <i>Optics Letters</i> , 2010 , 35, 3174-6	3	12
60	Surface Functionalization of a Graphene Cathode to Facilitate ALD Growth of an Electron Transport Layer and Realize High-Performance Flexible Perovskite Solar Cells. <i>ACS Applied Energy Materials</i> , 2020 , 3, 4208-4216	6.1	11
59	White-light electroluminescent organic devices based on efficient energy harvesting of singlet and triplet excited states using blue-light exciplex. <i>Applied Physics Express</i> , 2014 , 7, 052102	2.4	11
58	Efficient simplified orange and white phosphorescent organic light-emitting devices with reduced efficiency roll-off. <i>Organic Electronics</i> , 2015 , 22, 122-126	3.5	10
57	Highly efficient blue organic light-emitting devices using oligo(phenylenevinylene) dimers as an emitting layer. <i>Semiconductor Science and Technology</i> , 2004 , 19, L78-L80	1.8	10
56	Transparent electrodes based on ultrathin/ultra smooth Cu films produced through atomic layer deposition as new ITO-free organic light-emitting devices. <i>Organic Electronics</i> , 2018 , 58, 18-24	3.5	9
55	Improved performance for white phosphorescent organic light-emitting diodes utilizing an orange ultrathin non-doped emission layer. <i>RSC Advances</i> , 2015 , 5, 39097-39102	3.7	9
54	Small molecular white organic light emitting devices with a single emission layer. <i>Semiconductor Science and Technology</i> , 2004 , 19, L32-L34	1.8	9
53	Highly-flexible, ultra-thin, and transparent single-layer graphene/silver composite electrodes for organic light emitting diodes. <i>Nanotechnology</i> , 2017 , 28, 315201	3.4	8
52	Highly efficient orange and white phosphorescent organic light-emitting devices with simplified structure. <i>Organic Electronics</i> , 2015 , 26, 225-229	3.5	8
51	Efficient white phosphorescent organic light-emitting diodes consisting of orange ultrathin and blue mixed host emission layers. <i>Journal Physics D: Applied Physics</i> , 2016 , 49, 335101	3	8
50	Hybrid perovskite charge generation layer for highly efficient tandem organic light-emitting diodes. <i>Organic Electronics</i> , 2019 , 73, 299-303	3.5	7
49	Highly Conductive Alkaline-Earth Metal Electrodes: The Possibility of Maintaining Both Low Work Function and Surface Stability for Organic Electronics. <i>Advanced Optical Materials</i> , 2020 , 8, 2000206	8.1	7

48	Application of exciplex in the fabrication of white organic light emitting devices with mixed fluorescent and phosphorescent layers. <i>Journal of Luminescence</i> , 2015 , 166, 77-81	3.8	7
47	Highly efficient and high colour rendering index white organic light-emitting devices using bis(2-(2-fluorophenyl)-1,3-benzothiazolato-N,C2?) iridium (acetylacetonate) as yellow emitter. <i>Semiconductor Science and Technology</i> , 2007 , 22, 798-801	1.8	7
46	Enhanced flexibility and stability of PEDOT:PSS electrodes through interfacial crosslinking for flexible organic light-emitting diodes. <i>Organic Electronics</i> , 2021 , 89, 106047	3.5	7
45	White Light-Emitting Devices Based on Inorganic Perovskite and Organic Materials. <i>Molecules</i> , 2019 , 24,	4.8	6
44	Dramatic efficiency improvement in single-layer orange phosphorescent organic light-emitting devices with suppressed efficiency roll-off. <i>RSC Advances</i> , 2016 , 6, 55017-55021	3.7	6
43	Improved color stability of white organic light-emitting diodes without interlayer between red, orange and blue emission layers. <i>Optics Communications</i> , 2016 , 362, 59-63	2	6
42	White organic light-emitting devices employing phosphorescent iridium complex as RGB dopants. <i>Semiconductor Science and Technology</i> , 2007 , 22, 728-731	1.8	6
41	Atomic Layer Deposition: Effect of Various Oxidants on Reaction Mechanisms, Self-Limiting Natures and Structural Characteristics of Al ₂ O ₃ Films Grown by Atomic Layer Deposition (Adv. Mater. Interfaces 14/2018). <i>Advanced Materials Interfaces</i> , 2018 , 5, 1870070	4.6	6
40	High-efficiency orange and white phosphorescent organic light-emitting diodes based on homojunction structure. <i>Organic Electronics</i> , 2017 , 44, 183-188	3.5	5
39	Multiple short pulse process for low-temperature atomic layer deposition and its transient steric hindrance. <i>Applied Physics Letters</i> , 2019 , 114, 201902	3.4	5
38	Efficient white organic light-emitting diodes with double co-host emitting layers. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 9890-9896	7.1	5
37	Small Molecular White Organic Light Emitting Devices with Single Emission Zone. <i>Japanese Journal of Applied Physics</i> , 2004 , 43, 7501-7503	1.4	5
36	White organic light-emitting devices. <i>Optical and Quantum Electronics</i> , 2004 , 36, 1193-1203	2.4	5
35	Novel tetraarylsilan-centred compounds as single host for white organic light-emitting diodes with high efficiency and low roll-off. <i>Journal Physics D: Applied Physics</i> , 2013 , 46, 265101	3	4
34	Efficient white organic light-emitting devices based on blue, orange, red phosphorescent dyes. <i>Journal Physics D: Applied Physics</i> , 2009 , 42, 055115	3	4
33	A Novel Nucleation Inducer for Ultrathin Au Anodes in High Efficiency and Flexible Organic Optoelectronic Devices. <i>Advanced Optical Materials</i> , 2020 , 8, 1901320	8.1	4
32	Spectroscopic ellipsometry study of CsPbBr ₃ perovskite thin films prepared by vacuum evaporation. <i>Journal Physics D: Applied Physics</i> , 2021 , 54, 224002	3	4
31	Effect of hole mobilities through the emissive layer on space charge limited currents of phosphorescent organic light-emitting diodes. <i>Optical and Quantum Electronics</i> , 2015 , 47, 375-385	2.4	3

30	Organic-inorganic hybrid perovskite quantum dot light-emitting diodes using a graphene electrode and modified PEDOT:PSS.. <i>RSC Advances</i> , 2019 , 9, 20931-20940	3.7	3
29	A high performance fluorescent white organic light-emitting device and its optimization for full-colour display. <i>Semiconductor Science and Technology</i> , 2006 , 21, 148-151	1.8	3
28	Improving the current efficiency of organic light-emitting device utilizing the well structure. <i>Optical and Quantum Electronics</i> , 2005 , 37, 371-376	2.4	3
27	Highly efficient phosphorescent organic light-emitting diodes based on single-layer structure. <i>Optics Letters</i> , 2019 , 44, 1722-1725	3	3
26	Advanced Applications of Atomic Layer Deposition in Perovskite-Based Solar Cells. <i>Advanced Photonics Research</i> , 2021 , 2, 2100011	1.9	3
25	Highly efficient, ultralow turn-on voltage red and white organic light-emitting devices based on a novel exciplex host. <i>Materials Advances</i> , 2021 , 2, 3677-3684	3.3	3
24	High-efficiency and low efficiency roll-off in white organic light-emitting diodes employing a novel blue emitter. <i>Organic Electronics</i> , 2019 , 75, 105375	3.5	2
23	Pure red emission hybrid light-emitting devices based on the blend of CdSe/ZnS quantum dots and an n-type polymer. <i>Thin Solid Films</i> , 2012 , 520, 7153-7156	2.2	2
22	Small-molecular white organic light-emitting devices employing 2, 5, 2', 5'-tetra (p-trifluoromethylstyryl)-biphenyl as single-emitting component. <i>Optical and Quantum Electronics</i> , 2008 , 40, 57-63	2.4	2
21	High-efficiency Red Electrofluorescence Devices Employing a Rhenium Complex as Phosphorescent Sensitizer. <i>Optical and Quantum Electronics</i> , 2005 , 37, 1121-1127	2.4	2
20	A Novel Efficient Blue Organic Light Emitting Structure. <i>Materials Science Forum</i> , 2005 , 475-479, 3677-3680	3.8	2
19	Phosphomolybdic Acid-Modified Monolayer Graphene Anode for Efficient Organic and Perovskite Light-Emitting Diodes. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 12268-12277	9.5	2
18	The Cut-Off Phenomenon Effect on ZrO ₂ Growth Using Remote Plasma-Enhanced Atomic Layer Deposition. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 4714-4719	3.8	1
17	High barrier properties of transparent thin-film encapsulations for top-emission organic light-emitting diodes 2014 ,		1
16	Blue electroluminescent devices based on a trimeric phenylvinylene derivative as emitting layer. <i>Thin Solid Films</i> , 2005 , 492, 275-278	2.2	1
15	Self-Assembly 3D Porous Crumpled MXene Spheres as Efficient Gas and Pressure Sensing Material for Transient All-MXene Sensors.. <i>Nano-Micro Letters</i> , 2022 , 14, 56	19.5	1
14	Stable and highly efficient perovskite solar cells: Doping hydrophobic fluoride into hole transport material PTAA. <i>Nano Research</i> , 1	10	1
13	Fabrication of nucleation induction layer of self-encapsulated metal anode by an atomic layer half-reaction for enhanced flexible OLEDs. <i>Applied Physics Letters</i> , 2021 , 118, 213301	3.4	1

12	ALD-Assisted Graphene Functionalization for Advanced Applications. <i>Journal of Electronic Materials</i> , 1	1.9	1
11	Highly efficient blue and white phosphorescent organic light-emitting diodes with low-efficiency roll-off utilizing thermally activated delayed fluorescent-based co-host architecture. <i>Journal of Luminescence</i> , 2022 , 244, 118686	3.8	0
10	Engineering of interface exciplex system for highly efficient white organic light-emitting diodes based on single-emission-layer architecture. <i>Organic Electronics</i> , 2022 , 100, 106382	3.5	0
9	Improved efficiency, stable spectra and low efficiency roll-off achieved simultaneously in white phosphorescent organic light-emitting diodes by strategic exciton management. <i>Organic Electronics</i> , 2021 , 97, 106262	3.5	0
8	Highly efficient orange and white OLEDs based on ultrathin phosphorescent emitters with double reverse intersystem crossing system. <i>Journal of Luminescence</i> , 2022 , 246, 118852	3.8	0
7	Novel optical and electrical combined calcium corrosion test: An industrial application of the barrier permeability of spotless water vapor. <i>Measurement: Journal of the International Measurement Confederation</i> , 2022 , 196, 111264	4.6	0
6	Color-stable white phosphorescent organic light-emitting diodes based on double bipolar mixed-host layer. <i>Journal Physics D: Applied Physics</i> , 2020 , 53, 255106	3	
5	Bright white light electroluminescent devices based on efficient management of singlet and triplet excitons. <i>Optical and Quantum Electronics</i> , 2008 , 40, 967-972	2.4	
4	Blue and white organic light-emitting devices based on 2,5,2,5-tetrakis (4- <i>t</i> -biphenylenevinyl)-biphenyl 2004 , 5280, 712		
3	A simple approach employing energy-down-shift Y3Al5O12:Ce ³⁺ phosphor for realization of flexible white light emitting diodes. <i>Semiconductor Science and Technology</i> , 2020 , 35, 015010	1.8	
2	A highly transparent laminated composite cathode for organic light-emitting diodes. <i>Applied Physics Letters</i> , 2021 , 119, 073301	3.4	
1	High efficiency, ultra-low roll-offs in orange phosphorescent organic light-emitting devices using a novel exciplex system. <i>Organic Electronics</i> , 2022 , 106, 106536	3.5	