

Xingyuan Liu

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

118
papers

4,591
citations

33
h-index

65
g-index

130
ext. papers

5,248
ext. citations

6.7
avg, IF

5.65
L-index

#	Paper	IF	Citations
118	Controlling the Chain Orientation and Crystal Form of Poly(9,9-dioctylfluorene) Films for Low-Threshold Light-Pumped Lasers. <i>Macromolecules</i> , 2021 , 54, 4342-4350	5.5	1
117	Ampholytic interface induced in situ growth of CsPbBr ₃ for highly efficient perovskite light-emitting diodes. <i>Journal of Materials Chemistry C</i> , 2021 , 9, 1025-1033	7.1	3
116	Surface organic ligand-passivated quantum dots: toward high-performance light-emitting diodes with long lifetimes. <i>Journal of Materials Chemistry C</i> , 2021 , 9, 2483-2490	7.1	7
115	Synergistic morphology control and non-radiative defect passivation using a crown ether for efficient perovskite light-emitting devices. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 9986-9992	7.1	3
114	Mg-Doped ZnO Nanoparticle Films as the Interlayer between the ZnO Electron Transport Layer and InP Quantum Dot Layer for Light-Emitting Diodes. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 8758-8765	3.8	15
113	Improved Performance for Thermally Evaporated Perovskite Light-Emitting Devices via Defect Passivation and Carrier Regulation. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 15928-15933	9.5	17
112	Highly Efficient Microcavity Organic Light-Emitting Devices with Narrow-Band Pure UV Emission. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 10717-10726	9.5	10
111	Microcavity-Enhanced Blue Organic Light-Emitting Diode for High-Quality Monochromatic Light Source with Nonquarterwave Structural Design. <i>Advanced Optical Materials</i> , 2020 , 8, 1901421	8.1	5
110	Tailoring C for Efficient Inorganic CsPbI Br Perovskite Solar Cells and Modules. <i>Advanced Materials</i> , 2020 , 32, e1907361	24	54
109	Microcavity OLEDs: Microcavity-Enhanced Blue Organic Light-Emitting Diode for High-Quality Monochromatic Light Source with Nonquarterwave Structural Design (Advanced Optical Materials 7/2020). <i>Advanced Optical Materials</i> , 2020 , 8, 2070030	8.1	2
108	Red, Green, and Blue Microcavity Quantum Dot Light-Emitting Devices with Narrow Line Widths. <i>ACS Applied Nano Materials</i> , 2020 , 3, 5301-5310	5.6	7
107	High performance planar microcavity organic semiconductor lasers based on thermally evaporated top distributed Bragg reflector. <i>Applied Physics Letters</i> , 2020 , 117, 153301	3.4	5
106	Fabrication Strategy for Efficient 2D/3D Perovskite Solar Cells Enabled by Diffusion Passivation and Strain Compensation. <i>Advanced Energy Materials</i> , 2020 , 10, 2002004	21.8	47
105	Improving the Efficiency of Multilayer Organic Light-Emitting Transistors by Exploring the Hole Blocking Effect. <i>Advanced Materials Interfaces</i> , 2020 , 7, 2000657	4.6	7
104	Boosting the Efficiency and Stability of Perovskite Light-Emitting Devices by a 3-Amino-1-propanol-Tailored PEDOT:PSS Hole Transport Layer. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 43331-43338	9.5	8
103	Solid-State Fluorescent Carbon Dots with Aggregation-Induced Yellow Emission for White Light-Emitting Diodes with High Luminous Efficiencies. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 24395-24403	9.5	87
102	Enhanced photocatalytic N ₂ fixation by promoting N ₂ adsorption with a co-catalyst. <i>Science Bulletin</i> , 2019 , 64, 918-925	10.6	57

101	Observation of a red Ce center in SrLuO:Ce phosphor and its potential application in temperature sensing. <i>Dalton Transactions</i> , 2019 , 48, 5263-5270	4.3	14
100	Investigating underlying mechanism in spectral narrowing phenomenon induced by microcavity in organic light emitting diodes. <i>Nature Communications</i> , 2019 , 10, 1614	17.4	21
99	Carbon Dots Exhibiting Concentration-Dependent Full-Visible-Spectrum Emission for Light-Emitting Diode Applications. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 46054-46061	9.5	32
98	Oxidation kinetics of nanocrystalline Al thin films. <i>Anti-Corrosion Methods and Materials</i> , 2019 , 66, 638-6438	0	0
97	Interference Effect of Alcohol on Nessler Reagent in Photocatalytic Nitrogen Fixation. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 5342-5348	8.3	68
96	Eu and F co-doped ZnO-based transparent electrodes for organic and quantum dot light-emitting diodes. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 5542-5551	7.1	11
95	Toward Highly Luminescent and Stabilized Silica-Coated Perovskite Quantum Dots through Simply Mixing and Stirring under Room Temperature in Air. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 13053-13061	9.5	81
94	Enhanced Performance and Flexibility of Perovskite Solar Cells Based on Microstructured Multilayer Transparent Electrodes. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 18141-18148	9.5	19
93	Study on the Photoresponse Characteristics of Organic Light-Emitting Field-Effect Transistors. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 15190-15197	3.8	1
92	WO ₃ -Based Electrochromic Distributed Bragg Reflector: Toward Electrically Tunable Microcavity Luminescent Device. <i>Advanced Optical Materials</i> , 2018 , 6, 1700791	8.1	22
91	High Brightness and Enhanced Stability of CsPbBr ₃ -Based Perovskite Light-Emitting Diodes by Morphology and Interface Engineering. <i>Advanced Optical Materials</i> , 2018 , 6, 1801245	8.1	36
90	Improved performance of CsPbBr perovskite light-emitting devices by both boundary and interface defects passivation. <i>Nanoscale</i> , 2018 , 10, 18315-18322	7.7	25
89	SbO/Ag/SbO Multilayer Transparent Conducting Films For Ultraviolet Organic Light-emitting Diode. <i>Scientific Reports</i> , 2017 , 7, 41250	4.9	29
88	High-efficiency inverted quantum dot light-emitting diodes with enhanced hole injection. <i>Nanoscale</i> , 2017 , 9, 6748-6754	7.7	31
87	Structure defects assisted photocatalytic H ₂ production for polythiophene nanofibers. <i>Applied Catalysis B: Environmental</i> , 2017 , 211, 98-105	21.8	51
86	Harvesting Triplet Excitons with Exciplex Thermally Activated Delayed Fluorescence Emitters toward High Performance Heterostructured Organic Light-Emitting Field Effect Transistors. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 2711-2719	9.5	37
85	Near-Infrared to Visible Organic Upconversion Devices Based on Organic Light-Emitting Field Effect Transistors. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 36103-36110	9.5	23
84	Blue Quantum Dot Light-Emitting Diodes with High Electroluminescent Efficiency. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 38755-38760	9.5	149

83	Trifunctional NiO/Ag/NiO electrodes for ITO-free electrochromic supercapacitors. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 8408-8414	7.1	31
82	High performance, top-emitting, quantum dot light-emitting diodes with all solution-processed functional layers. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 9138-9145	7.1	12
81	Efficient Inorganic Perovskite Light-Emitting Diodes with Polyethylene Glycol Passivated Ultrathin CsPbBr Films. <i>Journal of Physical Chemistry Letters</i> , 2017 , 8, 4148-4154	6.4	115
80	Transparent perovskite light-emitting diodes by employing organic-inorganic multilayer transparent top electrodes. <i>Applied Physics Letters</i> , 2017 , 111, 213301	3.4	5
79	Inverted structural quantum dot light-emitting diodes based on Al-doped ZnO electrode. <i>Nanotechnology</i> , 2017 , 28, 365201	3.4	3
78	Light gain amplification in microcavity organic semiconductor laser diodes under electrical pumping. <i>Science Bulletin</i> , 2017 , 62, 1637-1638	10.6	10
77	Excitation Wavelength Independence: Toward Low-Threshold Amplified Spontaneous Emission from Carbon Nanodots. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 25454-60	9.5	54
76	Efficient perovskite light-emitting diodes by film annealing temperature control. <i>RSC Advances</i> , 2016 , 6, 71070-71075	3.7	21
75	Efficient Perovskite Solar Cells Based on Multilayer Transparent Electrodes through Morphology Control. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 26703-26709	3.8	10
74	Efficient and Stable Red Emissive Carbon Nanoparticles with a Hollow Sphere Structure for White Light-Emitting Diodes. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 31863-31870	9.5	30
73	A self-quenching-resistant carbon nanodot powder with multicolored solid-state fluorescence for ultra-fast staining of various representative bacterial species within one minute. <i>Nanoscale</i> , 2016 , 8, 19744-19753	7.7	25
72	Vertical Microcavity Organic Light-emitting Field-effect Transistors. <i>Scientific Reports</i> , 2016 , 6, 23210	4.9	11
71	Fully Integrated Organic Nanocrystal Diode as High Performance Room Temperature NO ₂ Sensor. <i>Advanced Materials</i> , 2016 , 28, 2971-7	24	49
70	Efficient inverted polymer solar cells employing an aqueous processing RbF cathode interfacial layer. <i>RSC Advances</i> , 2016 , 6, 47454-47458	3.7	1
69	Toward Ultrahigh Red Light Responsive Organic FETs Utilizing Neodymium Phthalocyanine as Light Sensitive Material. <i>IEEE Transactions on Electron Devices</i> , 2016 , 63, 452-458	2.9	5
68	Highly stable and flexible ITO-free electrochromic films with bi-functional stacked MoO ₃ /Ag/MoO ₃ structures. <i>Electrochimica Acta</i> , 2016 , 189, 184-189	6.7	23
67	Bifunctional MoO ₃ -WO ₃ /Ag/MoO ₃ -WO ₃ Films for Efficient ITO-Free Electrochromic Devices. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 33842-33847	9.5	38
66	Transparent ambipolar organic thin film transistors based on multilayer transparent source-drain electrodes. <i>Applied Physics Letters</i> , 2016 , 109, 063301	3.4	5

65	Improved Performance of Organic Light-Emitting Field-Effect Transistors by Interfacial Modification of Hole-Transport Layer/Emission Layer: Incorporating Organic Heterojunctions. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 14063-70	9.5	26
64	Dual-Functional WO Nanocolumns with Broadband Antireflective and High-Performance Flexible Electrochromic Properties. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 27107-27114	9.5	46
63	One-step microwave synthesis of N-doped hydroxyl-functionalized carbon dots with ultra-high fluorescence quantum yields. <i>Nanoscale</i> , 2016 , 8, 15281-7	7.7	155
62	Novel 1,8-naphthalimide derivatives for standard-red organic light-emitting device applications. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 5259-5267	7.1	17
61	Silver nanowire/polyimide composite transparent electrodes for reliable flexible polymer solar cells operating at high and ultra-low temperature. <i>RSC Advances</i> , 2015 , 5, 24953-24959	3.7	22
60	Photoluminescence: Three Colors Emission from S,N Co-doped Graphene Quantum Dots for Visible Light H ₂ Production and Bioimaging (Advanced Optical Materials 3/2015). <i>Advanced Optical Materials</i> , 2015 , 3, 359-359	8.1	4
59	In-plane electroluminescence from microcavity organic light-emitting transistors. <i>Organic Electronics</i> , 2015 , 26, 92-98	3.5	7
58	Pixeled Electroluminescence from Multilayer Heterostructure Organic Light-Emitting Transistors. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 20237-20243	3.8	14
57	Low-Work-Function, ITO-Free Transparent Cathodes for Inverted Polymer Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 19960-5	9.5	20
56	Ultrathin Metal Fluoride Interfacial Layers for Use in Organic Photovoltaic Cells. <i>Advanced Functional Materials</i> , 2015 , 25, 6906-6912	15.6	10
55	Simultaneous harvesting of triplet excitons in OLEDs by both guest and host materials with an intramolecular charge-transfer feature via triplet-triplet annihilation. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 6970-6978	7.1	19
54	Ultrahigh near infrared photoresponsive organic field-effect transistors with lead phthalocyanine/C ₆₀ heterojunction on poly(vinyl alcohol) gate dielectric. <i>Nanotechnology</i> , 2015 , 26, 185301	3.4	7
53	Highly conductive transparent organic electrodes with multilayer structures for rigid and flexible optoelectronics. <i>Scientific Reports</i> , 2015 , 5, 10569	4.9	63
52	Three Colors Emission from S,N Co-doped Graphene Quantum Dots for Visible Light H ₂ Production and Bioimaging. <i>Advanced Optical Materials</i> , 2015 , 3, 360-367	8.1	221
51	Enhanced efficiency of organic light-emitting devices by employing a periodically corrugated conductive photoresist. <i>Applied Physics Express</i> , 2015 , 8, 022102	2.4	3
50	High-performance ITO-free electrochromic films based on bi-functional stacked WO ₃ /Ag/WO ₃ structures. <i>Solar Energy Materials and Solar Cells</i> , 2015 , 136, 86-91	6.4	54
49	High-performance NiO/Ag/NiO transparent electrodes for flexible organic photovoltaic cells. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 16403-8	9.5	76
48	Highly Luminescent Carbon-Nanoparticle-Based Materials: Factors Influencing Photoluminescence Quantum Yield. <i>Particle and Particle Systems Characterization</i> , 2014 , 31, 1175-1182	3.1	39

47	Pyrene-based BODIPY: synthesis, photophysics and lasing properties under UV-pumping radiation. <i>RSC Advances</i> , 2014 , 4, 38119	3.7	17
46	Correlating optimal electrode buffer layer thickness with the surface roughness of the active layer in organic phototransistors. <i>Synthetic Metals</i> , 2014 , 193, 35-40	3.6	6
45	Pr and F co-doped SnO ₂ transparent conductive films with high work function deposited by ion-assisted electron beam evaporation. <i>Optics Express</i> , 2014 , 22, 4731-7	3.3	12
44	Amplified Spontaneous Green Emission and Lasing Emission From Carbon Nanoparticles. <i>Advanced Functional Materials</i> , 2014 , 24, 2689-2695	15.6	171
43	N-channel transparent organic thin-film transistors with Ag/LiF bilayer transparent source-drain electrodes fabricated by thermal evaporation. <i>Applied Physics Express</i> , 2014 , 7, 021601	2.4	7
42	Triphenylamine-cored tetramethyl-BODIPY dyes: synthesis, photophysics and lasing properties in organic media. <i>RSC Advances</i> , 2013 , 3, 14993	3.7	20
41	Spontaneous formation of a large area, aligned, ordered, π -conjugated film with polarized fluorescence and an amplified spontaneous emission based on a liquid crystalline bi-1,3,4-oxadiazole derivative. <i>RSC Advances</i> , 2013 , 3, 19104	3.7	3
40	Novel host materials based on phenanthroimidazole derivatives for highly efficient green phosphorescent OLEDs. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2013 , 268, 37-43	4.7	26
39	Inverted CdSe/CdS/ZnS quantum dot light emitting devices with titanium dioxide as an electron-injection contact. <i>Nanoscale</i> , 2013 , 5, 3474-80	7.7	41
38	Ratiometric fluorescent nanosensor based on water soluble carbon nanodots with multiple sensing capacities. <i>Nanoscale</i> , 2013 , 5, 5514-8	7.7	188
37	Transparent organic thin film transistors with WO ₃ /Ag/WO ₃ source-drain electrodes fabricated by thermal evaporation. <i>Applied Physics Letters</i> , 2013 , 103, 033301	3.4	33
36	Low-Voltage, High-Mobility Air-Stable Ambipolar Organic Field-Effect Transistors with a Voltage-Dependent Off-Current State and Modest Operational Stability. <i>Applied Physics Express</i> , 2013 , 6, 051602	2.4	5
35	Model and simulation on the efficiencies of microcavity OLEDs. <i>Optics Communications</i> , 2012 , 285, 3100-3103	3	103
34	Y-branched TiO ₂ nanotube arrays synthesized by anodic oxidation. <i>Science China: Physics, Mechanics and Astronomy</i> , 2012 , 55, 14-18	3.6	5
33	A Biocompatible Fluorescent Ink Based on Water-Soluble Luminescent Carbon Nanodots. <i>Angewandte Chemie</i> , 2012 , 124, 12381-12384	3.6	230
32	A biocompatible fluorescent ink based on water-soluble luminescent carbon nanodots. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 12215-8	16.4	879
31	Ultrathin and efficient flexible polymer photovoltaic cells based on stable indium-free multilayer transparent electrodes. <i>Journal of Materials Chemistry</i> , 2012 , 22, 17176		23
30	Two dimensional directed π -interactions in a linear shaped bi-1,3,4-oxadiazole derivative to achieve organic single crystal with highly polarized fluorescence and amplified spontaneous emissions. <i>Journal of Materials Chemistry</i> , 2012 , 22, 24605		24

29	Toward highly fluorescence and ultralow-threshold amplified spontaneous emission in ordered solid state from twin-tapered bi-1,3,4-oxadiazole derivatives. <i>Journal of Materials Chemistry</i> , 2012 , 22, 3875		17
28	High-Work-Function Transparent Conductive Oxides with Multilayer Films. <i>Applied Physics Express</i> , 2012 , 5, 041102	2.4	13
27	Y-branched TiO ₂ Nanotube Arrays Made by a Simplified Two-step Electrochemical Anodic Oxidation Method. <i>Chemistry Letters</i> , 2012 , 41, 389-391	1.7	6
26	Improvements of Bilayer Ambipolar Organic Field-Effect Transistors Based on Pentacene and N,N'-Ditridecylperylene-3,4,9,10-tetracarboxylic Di-imide by Changing Growth Rate Method. <i>Applied Physics Express</i> , 2012 , 5, 095601	2.4	7
25	Brightly fluorescent red organic solids bearing boron-bridged conjugated skeletons. <i>Journal of Materials Chemistry</i> , 2011 , 21, 15298		65
24	Solution-Phase Synthesis and Characterization of Single-Crystalline SnSe Nanowires. <i>Angewandte Chemie</i> , 2011 , 123, 12256-12259	3.6	10
23	Solution-phase synthesis and characterization of single-crystalline SnSe nanowires. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 12050-3	16.4	122
22	Evolution from lyotropic liquid crystal to helical fibrous organogel of an achiral fluorescent twin-tapered bi-1,3,4-oxadiazole derivative. <i>Chemistry - A European Journal</i> , 2011 , 17, 3512-8	4.8	36
21	Waveguide and ultralow-threshold amplified spontaneous emission in an aligned ordered solid state based on a highly fluorescent twin-tapered bi-1,3,4-oxadiazole derivative. <i>Chemical Communications</i> , 2011 , 47, 4207-9	5.8	12
20	Crystal structure and luminescence properties of (Ca _{2.94} Lu _{0.06})(Sc ₂ Mg)Si ₃ O ₁₂ phosphors for white LEDs with excellent colour rendering and high luminous efficiency. <i>Journal Physics D: Applied Physics</i> , 2011 , 44, 075402	3	19
19	Ca ₃ Al ₂ (SiO ₄) ₃ Cl ₄ :Eu ²⁺ , Mn ²⁺ : A potential phosphor with energy transfer for near-UV pumped white-LEDs. <i>Optical Materials</i> , 2011 , 33, 1262-1265	3.3	14
18	Manganese-doped indium oxide and its application in organic light-emitting diodes. <i>Applied Physics Letters</i> , 2011 , 99, 023302	3.4	10
17	Eu ²⁺ -Activated Ca ₈ Zn(SiO ₄) ₄ Cl ₂ : An Intense Green Emitting Phosphor for Blue Light Emitting Diodes. <i>Journal of the Electrochemical Society</i> , 2011 , 158, H124	3.9	11
16	Enhanced Performance of Organic Light Emitting Device by Dual Doping of LiF in ETL and HTL. <i>Journal of the Electrochemical Society</i> , 2010 , 157, H759	3.9	3
15	Ultraviolet luminescent, high-effective-work-function LaTiO ₃ -doped indium oxide and its effects in organic optoelectronics. <i>Advanced Materials</i> , 2010 , 22, 2211-5	24	14
14	Microcavity organic laser device under electrical pumping. <i>Optics Letters</i> , 2009 , 34, 503-5	3	33
13	Highly efficient organic light-emitting devices beyond theoretical prediction under high current density. <i>Optics Express</i> , 2009 , 17, 21370-5	3.3	8
12	Optical and electrical properties of Vanadium doped Indium oxide thin films. <i>Optics Express</i> , 2008 , 16, 194-9	3.3	23

11	White microcavity organic light-emitting diode based on one emitting material. <i>Journal of Luminescence</i> , 2007 , 122-123, 590-592	3.8	3
10	Phase shift and penetration depth of metal mirrors in a microcavity structure. <i>Applied Optics</i> , 2007 , 46, 6247-50	1.7	45
9	Using a mixed emitting layer of hole and electron transporting molecules to improve the performance of MOLED 2004 , 5280, 491		
8	Narrowing and enhancing effect of PL in PPV-film microcavity vessel 2000 , 4086, 745		
7	Photoluminescent properties of dye-doped poly(N-vinylcarbazole) (PVK) in microcavity. <i>Thin Solid Films</i> , 2000 , 363, 198-200	2.2	1
6	Stimulated emission in the film of polymer/dye blend. <i>Thin Solid Films</i> , 2000 , 363, 201-203	2.2	1
5	Enhanced electroluminescence of europium(III) complex by terbium(III) substitution in organic light emitting diodes. <i>Thin Solid Films</i> , 2000 , 363, 208-210	2.2	43
4	Lasing behavior in DCM-doped PVK microcavity. <i>Synthetic Metals</i> , 2000 , 111-112, 563-565	3.6	4
3	White light emission from OEL devices based on organic dysprosium-complex. <i>Synthetic Metals</i> , 2000 , 111-112, 43-45	3.6	32
2	White light emitting organic electroluminescent devices using lanthanide dinuclear complexes. <i>Journal of Luminescence</i> , 1999 , 82, 105-109	3.8	51
1	Spectrally-narrow blue light-emitting organic electroluminescent devices utilizing thulium complexes. <i>Synthetic Metals</i> , 1999 , 104, 165-168	3.6	50