Xingyuan Liu

List of Publications by Citations

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	A biocompatible fluorescent ink based on water-soluble luminescent carbon nanodots. *Angewandte Chemie - International Edition*, **2012**, 51, 12215-8	16.4	879
117	A Biocompatible Fluorescent Ink Based on Water-Soluble Luminescent Carbon Nanodots. *Angewandte Chemie*, **2012**, 124, 12381-12384	3.6	230
116	Three Colors Emission from S,N Co-doped Graphene Quantum Dots for Visible Light H2 Production and Bioimaging. *Advanced Optical Materials*, **2015**, 3, 360-367	8.1	221
115	Ratiometric fluorescent nanosensor based on water soluble carbon nanodots with multiple sensing capacities. *Nanoscale*, **2013**, 5, 5514-8	7.7	188
114	Amplified Spontaneous Green Emission and Lasing Emission From Carbon Nanoparticles. *Advanced Functional Materials*, **2014**, 24, 2689-2695	15.6	171
113	One-step microwave synthesis of N-doped hydroxyl-functionalized carbon dots with ultra-high fluorescence quantum yields. *Nanoscale*, **2016**, 8, 15281-7	7.7	155
112	Blue Quantum Dot Light-Emitting Diodes with High Electroluminescent Efficiency. *ACS Applied Materials & Interfaces*, **2017**, 9, 38755-38760	9.5	149
111	Solution-phase synthesis and characterization of single-crystalline SnSe nanowires. *Angewandte Chemie - International Edition*, **2011**, 50, 12050-3	16.4	122
110	Efficient Inorganic Perovskite Light-Emitting Diodes with Polyethylene Glycol Passivated Ultrathin CsPbBr Films. *Journal of Physical Chemistry Letters*, **2017**, 8, 4148-4154	6.4	115
109	Solid-State Fluorescent Carbon Dots with Aggregation-Induced Yellow Emission for White Light-Emitting Diodes with High Luminous Efficiencies. *ACS Applied Materials & Interfaces*, **2019**, 11, 24395-24403	9.5	87
108	Toward Highly Luminescent and Stabilized Silica-Coated Perovskite Quantum Dots through Simply Mixing and Stirring under Room Temperature in Air. *ACS Applied Materials & Interfaces*, **2018**, 10, 13053-13061	9.5	81
107	High-performance NiO/Ag/NiO transparent electrodes for flexible organic photovoltaic cells. *ACS Applied Materials & Interfaces*, **2014**, 6, 16403-8	9.5	76
106	Interference Effect of Alcohol on Nessler□ Reagent in Photocatalytic Nitrogen Fixation. *ACS Sustainable Chemistry and Engineering*, **2018**, 6, 5342-5348	8.3	68
105	Brightly fluorescent red organic solids bearing boron-bridged □onjugated skeletons. *Journal of Materials Chemistry*, **2011**, 21, 15298		65
104	Highly conductive transparent organic electrodes with multilayer structures for rigid and flexible optoelectronics. *Scientific Reports*, **2015**, 5, 10569	4.9	63
103	Enhanced photocatalytic N2 fixation by promoting N2 adsorption with a co-catalyst. *Science Bulletin*, **2019**, 64, 918-925	10.6	57
102	Tailoring C for Efficient Inorganic CsPbI Br Perovskite Solar Cells and Modules. *Advanced Materials*, **2020**, 32, e1907361	24	54

101	Excitation Wavelength Independence: Toward Low-Threshold Amplified Spontaneous Emission from Carbon Nanodots. *ACS Applied Materials & Interfaces*, **2016**, 8, 25454-60	9.5	54
100	High-performance ITO-free electrochromic films based on bi-functional stacked WO3/Ag/WO3 structures. *Solar Energy Materials and Solar Cells*, **2015**, 136, 86-91	6.4	54
99	Structure defects assisted photocatalytic H2 production for polythiophene nanofibers. *Applied Catalysis B: Environmental*, **2017**, 211, 98-105	21.8	51
98	White light emitting organic electroluminescent devices using lanthanide dinuclear complexes. *Journal of Luminescence*, **1999**, 82, 105-109	3.8	51
97	Spectrally-narrow blue light-emitting organic electroluminescent devices utilizing thulium complexes. *Synthetic Metals*, **1999**, 104, 165-168	3.6	50
96	Fully Integrated Organic Nanocrystal Diode as High Performance Room Temperature NO2 Sensor. *Advanced Materials*, **2016**, 28, 2971-7	24	49
95	Fabrication Strategy for Efficient 2D/3D Perovskite Solar Cells Enabled by Diffusion Passivation and Strain Compensation. *Advanced Energy Materials*, **2020**, 10, 2002004	21.8	47
94	Dual-Functional WO Nanocolumns with Broadband Antireflective and High-Performance Flexible Electrochromic Properties. *ACS Applied Materials & Interfaces*, **2016**, 8, 27107-27114	9.5	46
93	Phase shift and penetration depth of metal mirrors in a microcavity structure. *Applied Optics*, **2007**, 46, 6247-50	1.7	45
92	Enhanced electroluminescence of europium(III) complex by terbium(III) substitution in organic light emitting diodes. *Thin Solid Films*, **2000**, 363, 208-210	2.2	43
91	Inverted CdSe/CdS/ZnS quantum dot light emitting devices with titanium dioxide as an electron-injection contact. *Nanoscale*, **2013**, 5, 3474-80	7.7	41
90	Highly Luminescent Carbon-Nanoparticle-Based Materials: Factors Influencing Photoluminescence Quantum Yield. *Particle and Particle Systems Characterization*, **2014**, 31, 1175-1182	3.1	39
89	Bifunctional MoO-WO/Ag/MoO-WO Films for Efficient ITO-Free Electrochromic Devices. *ACS Applied Materials & Interfaces*, **2016**, 8, 33842-33847	9.5	38
88	Harvesting Triplet Excitons with Exciplex Thermally Activated Delayed Fluorescence Emitters toward High Performance Heterostructured Organic Light-Emitting Field Effect Transistors. *ACS Applied Materials & Interfaces*, **2017**, 9, 2711-2719	9.5	37
87	Evolution from lyotropic liquid crystal to helical fibrous organogel of an achiral fluorescent twin-tapered bi-1,3,4-oxadiazole derivative. *Chemistry - A European Journal*, **2011**, 17, 3512-8	4.8	36
86	High Brightness and Enhanced Stability of CsPbBr3-Based Perovskite Light-Emitting Diodes by Morphology and Interface Engineering. *Advanced Optical Materials*, **2018**, 6, 1801245	8.1	36
85	Transparent organic thin film transistors with WO3/Ag/WO3 source-drain electrodes fabricated by thermal evaporation. *Applied Physics Letters*, **2013**, 103, 033301	3.4	33
84	Microcavity organic laser device under electrical pumping. *Optics Letters*, **2009**, 34, 503-5	3	33

83	Carbon Dots Exhibiting Concentration-Dependent Full-Visible-Spectrum Emission for Light-Emitting Diode Applications. *ACS Applied Materials & Interfaces*, **2019**, 11, 46054-46061	9.5	32
82	White light emission from OEL devices based on organic dysprosium-complex. *Synthetic Metals*, **2000**, 111-112, 43-45	3.6	32
81	High-efficiency inverted quantum dot light-emitting diodes with enhanced hole injection. *Nanoscale*, **2017**, 9, 6748-6754	7.7	31
80	Trifunctional NiO/Ag/NiO electrodes for ITO-free electrochromic supercapacitors. *Journal of Materials Chemistry C*, **2017**, 5, 8408-8414	7.1	31
79	Efficient and Stable Red Emissive Carbon Nanoparticles with a Hollow Sphere Structure for White Light-Emitting Diodes. *ACS Applied Materials & Interfaces*, **2016**, 8, 31863-31870	9.5	30
78	SbO/Ag/SbO Multilayer Transparent Conducting Films For Ultraviolet Organic Light-emitting Diode. *Scientific Reports*, **2017**, 7, 41250	4.9	29
77	Novel host materials based on phenanthroimidazole derivatives for highly efficient green phosphorescent OLEDs. *Journal of Photochemistry and Photobiology A: Chemistry*, **2013**, 268, 37-43	4.7	26
76	Improved Performance of Organic Light-Emitting Field-Effect Transistors by Interfacial Modification of Hole-Transport Layer/Emission Layer: Incorporating Organic Heterojunctions. *ACS Applied Materials & Interfaces*, **2016**, 8, 14063-70	9.5	26
75	A self-quenching-resistant carbon nanodot powder with multicolored solid-state fluorescence for ultra-fast staining of various representative bacterial species within one minute. *Nanoscale*, **2016**, 8, 19744-19753	7.7	25
74	Improved performance of CsPbBr perovskite light-emitting devices by both boundary and interface defects passivation. *Nanoscale*, **2018**, 10, 18315-18322	7.7	25
73	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. *Journal of Materials Chemistry*, **2012**, 22, 24605		24
72	Near-Infrared to Visible Organic Upconversion Devices Based on Organic Light-Emitting Field Effect Transistors. *ACS Applied Materials & Interfaces*, **2017**, 9, 36103-36110	9.5	23
71	Highly stable and flexible ITO-free electrochromic films with bi-functional stacked MoO 3 /Ag/MoO 3 structures. *Electrochimica Acta*, **2016**, 189, 184-189	6.7	23
70	Ultrathin and efficient flexible polymer photovoltaic cells based on stable indium-free multilayer transparent electrodes. *Journal of Materials Chemistry*, **2012**, 22, 17176		23
69	Optical and electrical properties of Vanadium doped Indium oxide thin films. *Optics Express*, **2008**, 16, 194-9	3.3	23
68	Silver nanowire/polyimide composite transparent electrodes for reliable flexible polymer solar cells operating at high and ultra-low temperature. *RSC Advances*, **2015**, 5, 24953-24959	3.7	22
67	WO3-Based Electrochromic Distributed Bragg Reflector: Toward Electrically Tunable Microcavity Luminescent Device. *Advanced Optical Materials*, **2018**, 6, 1700791	8.1	22
66	Investigating underlying mechanism in spectral narrowing phenomenon induced by microcavity in organic light emitting diodes. *Nature Communications*, **2019**, 10, 1614	17.4	21

65	Efficient perovskite light-emitting diodes by film annealing temperature control. *RSC Advances*, **2016**, 6, 71070-71075	3.7	21
64	Low-Work-Function, ITO-Free Transparent Cathodes for Inverted Polymer Solar Cells. *ACS Applied Materials & Interfaces*, **2015**, 7, 19960-5	9.5	20
63	Triphenylamine-cored tetramethyl-BODIPY dyes: synthesis, photophysics and lasing properties in organic media. *RSC Advances*, **2013**, 3, 14993	3.7	20
62	Enhanced Performance and Flexibility of Perovskite Solar Cells Based on Microstructured Multilayer Transparent Electrodes. *ACS Applied Materials & Interfaces*, **2018**, 10, 18141-18148	9.5	19
61	Simultaneous harvesting of triplet excitons in OLEDs by both guest and host materials with an intramolecular charge-transfer feature via triplet□triplet annihilation. *Journal of Materials Chemistry C*, **2015**, 3, 6970-6978	7.1	19
60	Crystal structure and luminescence properties of (Ca2.94□LuxCe0.06)(Sc2□yMgy)Si3O12phosphors for white LEDs with excellent colour rendering and high luminous efficiency. *Journal Physics D: Applied Physics*, **2011**, 44, 075402	3	19
59	Novel 1,8-naphthalimide derivatives for standard-red organic light-emitting device applications. *Journal of Materials Chemistry C*, **2015**, 3, 5259-5267	7.1	17
58	Improved Performance for Thermally Evaporated Perovskite Light-Emitting Devices via Defect Passivation and Carrier Regulation. *ACS Applied Materials & Interfaces*, **2020**, 12, 15928-15933	9.5	17
57	Pyrene-based BODIPY: synthesis, photophysics and lasing properties under UV-pumping radiation. *RSC Advances*, **2014**, 4, 38119	3.7	17
56	Toward highly fluorescence and ultralow-threshold amplified spontaneous emission in ordered solid state from twin-tapered bi-1,3,4-oxadiazole derivatives. *Journal of Materials Chemistry*, **2012**, 22, 3875		17
55	Mg-Doped ZnO Nanoparticle Films as the Interlayer between the ZnO Electron Transport Layer and InP Quantum Dot Layer for Light-Emitting Diodes. *Journal of Physical Chemistry C*, **2020**, 124, 8758-8765	3.8	15
54	Observation of a red Ce center in SrLuO:Ce phosphor and its potential application in temperature sensing. *Dalton Transactions*, **2019**, 48, 5263-5270	4.3	14
53	Pixeled Electroluminescence from Multilayer Heterostructure Organic Light-Emitting Transistors. *Journal of Physical Chemistry C*, **2015**, 119, 20237-20243	3.8	14
52	Ca3Al2(SiO4)3□l4□Eu2+, Mn2+: A potential phosphor with energy transfer for near-UV pumped white-LEDs. *Optical Materials*, **2011**, 33, 1262-1265	3.3	14
51	Ultraviolet luminescent, high-effective-work-function LaTiO3-doped indium oxide and its effects in organic optoelectronics. *Advanced Materials*, **2010**, 22, 2211-5	24	14
50	High-Work-Function Transparent Conductive Oxides with Multilayer Films. *Applied Physics Express*, **2012**, 5, 041102	2.4	13
49	High performance, top-emitting, quantum dot light-emitting diodes with all solution-processed functional layers. *Journal of Materials Chemistry C*, **2017**, 5, 9138-9145	7.1	12
48	Pr and F co-doped SnO□transparent conductive films with high work function deposited by ion-assisted electron beam evaporation. *Optics Express*, **2014**, 22, 4731-7	3.3	12

47	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. *Chemical Communications*, **2011**, 47, 4207-9	5.8	12
46	Eu and F co-doped ZnO-based transparent electrodes for organic and quantum dot light-emitting diodes. *Journal of Materials Chemistry C*, **2018**, 6, 5542-5551	7.1	11
45	Vertical Microcavity Organic Light-emitting Field-effect Transistors. *Scientific Reports*, **2016**, 6, 23210	4.9	11
44	Eu[sup 2+]-Activated Ca[sub 8]Zn(SiO[sub 4])[sub 4]Cl[sub 2]: An Intense Green Emitting Phosphor for Blue Light Emitting Diodes. *Journal of the Electrochemical Society*, **2011**, 158, H124	3.9	11
43	Highly Efficient Microcavity Organic Light-Emitting Devices with Narrow-Band Pure UV Emission. *ACS Applied Materials & Interfaces*, **2020**, 12, 10717-10726	9.5	10
42	Efficient Perovskite Solar Cells Based on Multilayer Transparent Electrodes through Morphology Control. *Journal of Physical Chemistry C*, **2016**, 120, 26703-26709	3.8	10
41	Light gain amplification in microcavity organic semiconductor laser diodes under electrical pumping. *Science Bulletin*, **2017**, 62, 1637-1638	10.6	10
40	Ultrathin Metal Fluoride Interfacial Layers for Use in Organic Photovoltaic Cells. *Advanced Functional Materials*, **2015**, 25, 6906-6912	15.6	10
39	Solution-Phase Synthesis and Characterization of Single-Crystalline SnSe Nanowires. *Angewandte Chemie*, **2011**, 123, 12256-12259	3.6	10
38	Manganese-doped indium oxide and its application in organic light-emitting diodes. *Applied Physics Letters*, **2011**, 99, 023302	3.4	10
37	Model and simulation on the efficiencies of microcavity OLEDs. *Optics Communications*, **2012**, 285, 3100-3103	2	8
36	Highly efficient organic light-emitting devices beyond theoretical prediction under high current density. *Optics Express*, **2009**, 17, 21370-5	3.3	8
35	Boosting the Efficiency and Stability of Perovskite Light-Emitting Devices by a 3-Amino-1-propanol-Tailored PEDOT:PSS Hole Transport Layer. *ACS Applied Materials & Interfaces*, **2020**, 12, 43331-43338	9.5	8
34	In-plane electroluminescence from microcavity organic light-emitting transistors. *Organic Electronics*, **2015**, 26, 92-98	3.5	7
33	Red, Green, and Blue Microcavity Quantum Dot Light-Emitting Devices with Narrow Line Widths. *ACS Applied Nano Materials*, **2020**, 3, 5301-5310	5.6	7
32	Ultrahigh near infrared photoresponsive organic field-effect transistors with lead phthalocyanine/C60 heterojunction on poly(vinyl alcohol) gate dielectric. *Nanotechnology*, **2015**, 26, 185301	3.4	7
31	N-channel transparent organic thin-film transistors with Ag/LiF bilayer transparent source–drain electrodes fabricated by thermal evaporation. *Applied Physics Express*, **2014**, 7, 021601	2.4	7
30	Improvements of Bilayer Ambipolar Organic Field-Effect Transistors Based on Pentacene andN,N$ '$-Ditridecylperylene-3,4,9,10-tetracarboxylic Di-imide by Changing Growth Rate Method. *Applied Physics Express*, **2012**, 5, 095601	2.4	7

29	Improving the Efficiency of Multilayer Organic Light-Emitting Transistors by Exploring the Hole Blocking Effect. *Advanced Materials Interfaces*, **2020**, 7, 2000657	4.6	7
28	Surface organic ligand-passivated quantum dots: toward high-performance light-emitting diodes with long lifetimes. *Journal of Materials Chemistry C*, **2021**, 9, 2483-2490	7.1	7
27	Correlating optimal electrode buffer layer thickness with the surface roughness of the active layer in organic phototransistors. *Synthetic Metals*, **2014**, 193, 35-40	3.6	6
26	Y-branched TiO2 Nanotube Arrays Made by a Simplified Two-step Electrochemical Anodic Oxidation Method. *Chemistry Letters*, **2012**, 41, 389-391	1.7	6
25	Microcavity-Enhanced Blue Organic Light-Emitting Diode for High-Quality Monochromatic Light Source with Nonquarterwave Structural Design. *Advanced Optical Materials*, **2020**, 8, 1901421	8.1	5
24	Toward Ultrahigh Red Light Responsive Organic FETs Utilizing Neodymium Phthalocyanine as Light Sensitive Material. *IEEE Transactions on Electron Devices*, **2016**, 63, 452-458	2.9	5
23	Y-branched TiO2 nanotube arrays synthesized by anodic oxidation. *Science China: Physics, Mechanics and Astronomy*, **2012**, 55, 14-18	3.6	5
22	Transparent perovskite light-emitting diodes by employing organic-inorganic multilayer transparent top electrodes. *Applied Physics Letters*, **2017**, 111, 213301	3.4	5
21	Low-Voltage, High-Mobility Air-Stable Ambipolar Organic Field-Effect Transistors with a Voltage-Dependent Off-Current State and Modest Operational Stability. *Applied Physics Express*, **2013**, 6, 051602	2.4	5
20	High performance planar microcavity organic semiconductor lasers based on thermally evaporated top distributed Bragg reflector. *Applied Physics Letters*, **2020**, 117, 153301	3.4	5
19	Transparent ambipolar organic thin film transistors based on multilayer transparent source-drain electrodes. *Applied Physics Letters*, **2016**, 109, 063301	3.4	5
18	Photoluminescence: Three Colors Emission from S,N Co-doped Graphene Quantum Dots for Visible Light H2 Production and Bioimaging (Advanced Optical Materials 3/2015). *Advanced Optical Materials*, **2015**, 3, 359-359	8.1	4
17	Lasing behavior in DCM-doped PVK microcavity. *Synthetic Metals*, **2000**, 111-112, 563-565	3.6	4
16	Synergistic morphology control and non-radiative defect passivation using a crown ether for efficient perovskite light-emitting devices. *Journal of Materials Chemistry C*, **2020**, 8, 9986-9992	7.1	3
15	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. *RSC Advances*, **2013**, 3, 19104	3.7	3
14	Inverted structural quantum dot light-emitting diodes based on Al-doped ZnO electrode. *Nanotechnology*, **2017**, 28, 365201	3.4	3
13	Enhanced efficiency of organic light-emitting devices by employing a periodically corrugated conductive photoresist. *Applied Physics Express*, **2015**, 8, 022102	2.4	3
12	Enhanced Performance of Organic Light Emitting Device by Dual Doping of LiF in ETL and HTL. *Journal of the Electrochemical Society*, **2010**, 157, H759	3.9	3

11	White microcavity organic light-emitting diode based on one emitting material. *Journal of Luminescence*, **2007**, 122-123, 590-592	3.8	3
10	Ampholytic interface induced in situ growth of CsPbBr3 for highly efficient perovskite light-emitting diodes. *Journal of Materials Chemistry C*, **2021**, 9, 1025-1033	7.1	3
9	Microcavity OLEDs: Microcavity-Enhanced Blue Organic Light-Emitting Diode for High-Quality Monochromatic Light Source with Nonquarterwave Structural Design (Advanced Optical Materials 7/2020). *Advanced Optical Materials*, **2020**, 8, 2070030	8.1	2
8	Efficient inverted polymer solar cells employing an aqueous processing RbF cathode interfacial layer. *RSC Advances*, **2016**, 6, 47454-47458	3.7	1
7	Study on the Photoresponse Characteristics of Organic Light-Emitting Field-Effect Transistors. *Journal of Physical Chemistry C*, **2018**, 122, 15190-15197	3.8	1
6	Photoluminescent properties of dye-doped poly(N-vinyleabzole) (PVK) in microcavity. *Thin Solid Films*, **2000**, 363, 198-200	2.2	1
5	Stimulated emission in the film of polymer/dye blend. *Thin Solid Films*, **2000**, 363, 201-203	2.2	1
4	Controlling the Chain Orientation and Crystal Form of Poly(9,9-dioctylfluorene) Films for Low-Threshold Light-Pumped Lasers. *Macromolecules*, **2021**, 54, 4342-4350	5.5	1
3	Oxidation kinetics of nanocrystalline Al thin films. *Anti-Corrosion Methods and Materials*, **2019**, 66, 638-643	0.8	0
2	Using a mixed emitting layer of hole and electron transporting molecules to improve the performance of MOLED **2004**, 5280, 491		
1	Narrowing and enhancing effect of PL in PPV-film microcavity vessel **2000**, 4086, 745		