

# Yin Xiao

## List of Publications by Year in descending order

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78  
papers

3,265  
citations

172457

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155660

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78  
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78  
docs citations

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times ranked

4256  
citing authors

#	ARTICLE	IF	CITATIONS
1	Isomer-Pure Bis-PCBM-Assisted Crystal Engineering of Perovskite Solar Cells Showing Excellent Efficiency and Stability. <i>Advanced Materials</i> , 2017, 29, 1606806.	21.0	320
2	Over 20% PCE perovskite solar cells with superior stability achieved by novel and low-cost hole-transporting materials. <i>Nano Energy</i> , 2017, 41, 469-475.	16.0	232
3	Recent development of cyclodextrin chiral stationary phases and their applications in chromatography. <i>Journal of Chromatography A</i> , 2012, 1269, 52-68.	3.7	213
4	A Novel Dopant-Free Triphenylamine Based Molecular "Butterfly" Hole-Transport Material for Highly Efficient and Stable Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2016, 6, 1600401.	19.5	161
5	Energy level tuning of TPB-based hole-transporting materials for highly efficient perovskite solar cells. <i>Chemical Communications</i> , 2014, 50, 15239-15242.	4.1	134
6	Novel hole transporting materials with a linear $\pi$ -conjugated structure for highly efficient perovskite solar cells. <i>Chemical Communications</i> , 2014, 50, 5829.	4.1	132
7	Impact of Peripheral Groups on Phenothiazine-Based Hole-Transporting Materials for Perovskite Solar Cells. <i>ACS Energy Letters</i> , 2018, 3, 1145-1152.	17.4	125
8	Tuning the crystal growth of perovskite thin-films by adding the 2-pyridylthiourea additive for highly efficient and stable solar cells prepared in ambient air. <i>Journal of Materials Chemistry A</i> , 2017, 5, 13448-13456.	10.3	96
9	Suppressing defects through thiadiazole derivatives that modulate $\text{CH}_3\text{NH}_3\text{PbI}_3$ crystal growth for highly stable perovskite solar cells under dark conditions. <i>Journal of Materials Chemistry A</i> , 2018, 6, 4971-4980.	10.3	95
10	Simple Way to Engineer Metal-Semiconductor Interface for Enhanced Performance of Perovskite Organic Lead Iodide Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 5651-5656.	8.0	93
11	Dopant-Free Donor (D)- $\pi$ -D $\pi$ -D Conjugated Hole-Transport Materials for Efficient and Stable Perovskite Solar Cells. <i>ChemSusChem</i> , 2016, 9, 2578-2585.	6.8	83
12	Enhanced stability and optoelectronic properties of $\text{MAPbI}_3$ films by a cationic surface-active agent for perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2018, 6, 10825-10834.	10.3	81
13	Click chemistry for facile immobilization of cyclodextrin derivatives onto silica as chiral stationary phases. <i>Tetrahedron Letters</i> , 2008, 49, 5190-5191.	1.4	74
14	Engineering Thiolene Click Chemistry for the Fabrication of Novel Structurally Well-Defined Multifunctional Cyclodextrin Separation Materials for Enhanced Enantioseparation. <i>Analytical Chemistry</i> , 2016, 88, 4955-4964.	6.5	67
15	Efficient $\text{CH}_3\text{NH}_3\text{PbI}_3$ perovskite solar cells with 2TPA-n-DP hole-transporting layers. <i>Nano Research</i> , 2015, 8, 1116-1127.	10.4	65
16	Simple Triphenylamine-Based Hole-Transporting Materials for Perovskite Solar Cells. <i>Electrochimica Acta</i> , 2015, 182, 733-741.	5.2	57
17	Core-Shell Three-Dimensional Perovskite Nanocrystals with Chiral-Induced Spin Selectivity for Room-Temperature Spin Light-Emitting Diodes. <i>Journal of the American Chemical Society</i> , 2022, 144, 9707-9714.	13.7	47
18	Recent advances in cyclodextrins-based chiral-recognizing platforms. <i>TrAC - Trends in Analytical Chemistry</i> , 2019, 121, 115691.	11.4	41

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19	Surface modification of magnesium hydroxide by wet process and effect on the thermal stability of silicone rubber. <i>Applied Surface Science</i> , 2019, 465, 740-746.	6.1	41
20	Dopant-free and low-cost molecular hole-transporting materials for efficient and stable perovskite solar cells. <i>Journal of Materials Chemistry C</i> , 2017, 5, 11429-11435.	5.5	40
21	Mixed-ligand engineering of quasi-2D perovskites for efficient sky-blue light-emitting diodes. <i>Journal of Materials Chemistry C</i> , 2020, 8, 1319-1325.	5.5	39
22	Recent Progress of Perovskite Solar Cells. <i>Current Nanoscience</i> , 2016, 12, 137-156.	1.2	39
23	Chiral capillary electrophoresis with cationic pyrrolidinium- $\beta$ -cyclodextrin derivatives as chiral selectors. <i>Journal of Separation Science</i> , 2010, 33, 1797-1805.	2.5	38
24	Single component p-, ambipolar and n-type OTFTs based on fluorinated copper phthalocyanines. <i>Dyes and Pigments</i> , 2016, 132, 378-386.	3.7	37
25	A thin pristine non-triarylamine hole-transporting material layer for efficient CH <sub>3</sub> NH <sub>3</sub> Pb <sub>3</sub> perovskite solar cells. <i>RSC Advances</i> , 2014, 4, 32918.	3.6	35
26	Application of Click chemistry-based perphenylcarbamated $\beta$ -CD chiral stationary phase in CEC. <i>Electrophoresis</i> , 2009, 30, 705-711.	2.4	33
27	Enantioseparation of single layer native cyclodextrin chiral stationary phases: Effect of cyclodextrin orientation and a modeling study. <i>Analytica Chimica Acta</i> , 2017, 990, 174-184.	5.4	32
28	Molecular design and photovoltaic performance of a novel thiocyanate-based layered organometal perovskite material. <i>Synthetic Metals</i> , 2016, 215, 56-63.	3.9	31
29	Stable Perovskite Solar Cells based on Hydrophobic Triphenylamine Hole-Transport Materials. <i>Energy Technology</i> , 2017, 5, 312-320.	3.8	31
30	A Novel Spiro[acridine-9,9-fluorene] Derivatives Containing Phenanthroimidazole Moiety for Deep-Blue OLED Application. <i>Chemistry - an Asian Journal</i> , 2017, 12, 3069-3076.	3.3	30
31	Surface Regulation of CsPbBr <sub>3</sub> Quantum Dots for Standard Blue-Emission with Boosted PLQY. <i>Advanced Optical Materials</i> , 2020, 8, 2000167.	7.3	30
32	Titanylphthalocyanine as hole transporting material for perovskite solar cells. <i>Journal of Energy Chemistry</i> , 2015, 24, 756-761.	12.9	28
33	Synthesis and application of a novel single-isomer mono-6-deoxy-6-(3R,4R-dihydroxypyrrolidine)- $\beta$ -cyclodextrin chloride as a chiral selector in capillary electrophoresis. <i>Journal of Chromatography A</i> , 2009, 1216, 994-999.	3.7	27
34	A trap-assisted ultrasensitive near-infrared organic photomultiple photodetector based on Y-type titanylphthalocyanine nanoparticles. <i>Journal of Materials Chemistry C</i> , 2016, 4, 5584-5592.	5.5	27
35	Enantioseparation of dansyl amino acids by ultra-high pressure liquid chromatography using cationic $\beta$ -cyclodextrins as chiral additives. <i>Analyst</i> , 2011, 136, 1433.	3.5	26
36	Highly sensitive gas sensing platforms based on field effect Transistor-A review. <i>Analytica Chimica Acta</i> , 2021, 1172, 338575.	5.4	26

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37	Efficient, Stable, Dopant-Free Hole-Transport Material with a Triphenylamine Core for CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> Perovskite Solar Cells. <i>Energy Technology</i> , 2017, 5, 1173-1178.	3.8	25
38	Negatively charged cyclodextrins: Synthesis and applications in chiral analysis-A review. <i>Carbohydrate Polymers</i> , 2021, 256, 117517.	10.2	25
39	Thiol-ene click derived structurally well-defined per(3,5-dimethyl)phenylcarbamoyleated cationic cyclodextrin separation material for achiral and chiral chromatography. <i>Journal of Separation Science</i> , 2018, 41, 2710-2718.	2.5	24
40	Recent Advances of Molecularly Imprinted Polymers Based on Cyclodextrin. <i>Macromolecular Rapid Communications</i> , 2021, 42, e2100004.	3.9	23
41	Small molecular hole-transporting and emitting materials for hole-only green organic light-emitting devices. <i>Dyes and Pigments</i> , 2016, 131, 41-48.	3.7	22
42	Improvement in photovoltaic performance of perovskite solar cells by interface modification and co-sensitization with novel asymmetry 7-coumarinoxy-4-methyltetrasubstituted metallophthalocyanines. <i>Synthetic Metals</i> , 2016, 220, 187-193.	3.9	21
43	A highly sensitive and versatile chiral sensor based on a top-gate organic field effect transistor functionalized with thiolated $\beta$ -cyclodextrin. <i>Analyst</i> , 2019, 144, 2611-2617.	3.5	21
44	2,9,16,23-Tetrakis(7-coumarinoxy-4-methyl)- metallophthalocyanines -based hole transporting material for mixed-perovskite solar cells. <i>Synthetic Metals</i> , 2017, 226, 1-6.	3.9	20
45	A Chiral Organic Field-Effect Transistor with a Cyclodextrin Modulated Copper Hexadecafluorophthalocyanine Semiconductive Layer as the Sensing Unit. <i>Analytical Chemistry</i> , 2018, 90, 9264-9271.	6.5	20
46	Cyclodextrin derivatives functionalized highly sensitive chiral sensor based on organic field-effect transistor. <i>Chinese Chemical Letters</i> , 2020, 31, 99-102.	9.0	20
47	Dopant-Free Hole-Transport Material with a Tetraphenylethene Core for Efficient Perovskite Solar Cells. <i>Energy Technology</i> , 2017, 5, 1257-1264.	3.8	19
48	Organic Single-Crystalline Donor-Acceptor Heterojunctions with Ambipolar Band-Like Charge Transport for Photovoltaics. <i>Advanced Materials Interfaces</i> , 2018, 5, 1800336.	3.7	18
49	Recent Advances in Immobilization Strategies for Biomolecules in Sensors Using Organic Field-Effect Transistors. <i>Transactions of Tianjin University</i> , 2020, 26, 424-440.	6.4	18
50	Study on synthesis and properties of novel luminescent hole transporting materials based on N,N'-di(p-tolyl)-N,N'-diphenyl-1,1'-biphenyl-4,4'-diamine core. <i>Dyes and Pigments</i> , 2013, 97, 92-99.	3.7	16
51	Click preparation of multiple-thioether bridged cyclodextrin chiral materials for efficient enantioseparation in high-performance liquid chromatography. <i>Analyst</i> , 2021, 146, 3025-3033.	3.5	16
52	Novel photochromic and electrochromic diarylethenes bearing triphenylamine units. <i>RSC Advances</i> , 2014, 4, 16839-16848.	3.6	15
53	Preparation and properties of red inorganic hollow nanospheres for electrophoretic display. <i>Applied Surface Science</i> , 2014, 317, 319-324.	6.1	14
54	A Novel <i>trans</i> -1-(9-Anthryl)-2-phenylethene Derivative Containing a Phenanthroimidazole Unit for Application in Organic Light-Emitting Diodes. <i>Chemistry - an Asian Journal</i> , 2018, 13, 81-88.	3.3	14

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55	Chirality Discrimination at the Single Molecule Level by Using a Cationic Supramolecule Quasi-Gated Organic Field Effect Transistor. <i>ACS Sensors</i> , 2019, 4, 2009-2017.	7.8	14
56	Advances of enantioselective solid membranes. <i>New Journal of Chemistry</i> , 2021, 45, 6586-6599.	2.8	14
57	Film-forming hole transporting materials for high brightness flexible organic light-emitting diodes. <i>Dyes and Pigments</i> , 2016, 125, 36-43.	3.7	13
58	Nacre-like ultra-robust supramolecular-functionalized graphene oxide membrane for bifunctional separation. <i>Carbon</i> , 2021, 184, 618-626.	10.3	13
59	The modulation of opto-electronic properties of CH <sub>3</sub> NH <sub>3</sub> PbBr <sub>3</sub> crystal. <i>Journal of Materials Science: Materials in Electronics</i> , 2017, 28, 11053-11058.	2.2	12
60	Determination of Kynurenine Enantiomers by Alpha-Cyclodextrin, Cationic-β-Cyclodextrin and Their Synergy Complemented with Stacking Enrichment in Capillary Electrophoresis. <i>Journal of Chromatography A</i> , 2020, 1622, 461128.	3.7	12
61	Synthesis and properties of new luminescent hole transporting materials containing triphenylamine and carbazole units. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2012, 98, 215-221.	3.9	11
62	Chirality in polythiophenes: A review. <i>Chirality</i> , 2021, 33, 424-446.	2.6	11
63	Alcohol-soluble Electron-Transport Materials for Fully Solution-Processed Green PhOLEDs. <i>Chemistry - an Asian Journal</i> , 2018, 13, 1335-1341.	3.3	10
64	Smartly designed AIE triazoliums as unique targeting fluorescence tags for sulfonic biomacromolecule recognition <i>via</i> electrostatic locking <sup>TM</sup> . <i>Journal of Materials Chemistry C</i> , 2018, 6, 12529-12536.	5.5	10
65	Thermally induced crystallization behavior and film microstructure alteration of N,N,N',N'-tetraphenylbenzidine (TPB) and N,N,N',N'-tetra-p-tolyl-benzidine (TTB). <i>Organic Electronics</i> , 2014, 15, 1876-1883.		9
66	Charging behavior of carbon black in a low-permittivity medium based on acid-base charging theory. <i>Journal of Materials Chemistry C</i> , 2015, 3, 3980-3988.	5.5	9
67	Non-Doped Deep-Blue OLEDs Based on Carbazole-Imidazole Derivatives. <i>Materials</i> , 2021, 14, 2349.	2.9	9
68	Preparation of titanium dioxide nano-particles modified with poly (methyl methacrylate) and its electrorheological characteristics in Isopar L. <i>Colloid and Polymer Science</i> , 2015, 293, 473-479.	2.1	7
69	Studies on the charging behaviors of copper chromite black in nonpolar media with nonionic surfactants for electrophoretic displays. <i>Journal of Materials Chemistry C</i> , 2016, 4, 323-330.	5.5	7
70	Polymorph-induced photosensitivity change in titanylphthalocyanine revealed by the charge transfer integral. <i>Nanophotonics</i> , 2019, 8, 787-797.	6.0	7
71	A Bio-inspired Extended-Gate Metal-Oxide-Semiconductor Field-Effect-Transistor for Highly Sensitive Amino Acid Enantiodiscrimination. <i>Analytical Chemistry</i> , 2021, 93, 14425-14431.	6.5	7
72	Engineering a cationic supramolecular charge switch for facile amino acids enantiodiscrimination based on extended-gate field effect transistors. <i>Chinese Chemical Letters</i> , 2021, , .	9.0	7

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73	Boosting the Stability of Perovskite Solar Cells through a Dopant-Free Tetraphenylbenzidine-Based Hole Transporting Material. <i>ChemistrySelect</i> , 2018, 3, 13032-13037.	1.5	6
74	From inorganic precipitation to organic aggregation: solubility product constant-mediated specific metal-ion lighting-up using a triazolium iodide organic fluorescence tag. <i>Analyst</i> , 2019, 144, 1654-1659.	3.5	6
75	Synthesis of novel s-triazine/carbazole based bipolar molecules and their application in phosphorescent OLEDs. <i>Journal of Materials Science: Materials in Electronics</i> , 2015, 26, 6563-6571.	2.2	4
76	Studies on the dispersity of polymethacrylate-grafted carbon black in a non-aqueous medium: the influence of monomer structure. <i>Journal of Materials Science: Materials in Electronics</i> , 2016, 27, 2022-2030.	2.2	4
77	Construction and Application of Graphene Oxide-Bovine Serum Albumin Modified Extended Gate Field Effect Transistor Chiral Sensor. <i>Sensors</i> , 2021, 21, 3921.	3.8	4
78	Preparation of titanium dioxide nanoparticles modified with methacrylate and their electrophoretic properties. <i>Journal of Materials Science: Materials in Electronics</i> , 2015, 26, 5263-5269.	2.2	2