Yin Xiao

List of Publications by Year
in descending order

78	3,265	172457 29	155660 55
papers	citations	h-index	g-index

78	78	78	4256
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Coreâ€“Shell Three-Dimensional Perovskite Nanocrystals with Chiral-Induced Spin Selectivity for Room-Temperature Spin Light-Emitting Diodes. Journal of the American Chemical Society, 2022, 144, 9707-9714.	13.7	47
2	Negatively charged cyclodextrins: Synthesis and applications in chiral analysis-A review. Carbohydrate Polymers, 2021, 256, 117517.	10.2	25
3	Advances of enantioselective solid membranes. New Journal of Chemistry, 2021, 45, 6586-6599.	2.8	14
4	Click preparation of multiple-thioether bridged cyclodextrin chiral materials for efficient enantioseparation in high-performance liquid chromatography. Analyst, The, 2021, 146, 3025-3033.	3.5	16
5	Recent Advances of Molecularly Imprinted Polymers Based on Cyclodextrin. Macromolecular Rapid Communications, 2021, 42, e2100004.	3.9	23
6	Non-Doped Deep-Blue OLEDs Based on Carbazole-Ï€-Imidazole Derivatives. Materials, 2021, 14, 2349.	2.9	9
7	Construction and Application of Graphene Oxide-Bovine Serum Albumin Modified Extended Gate Field Effect Transistor Chiral Sensor. Sensors, 2021, 21, 3921.	3.8	4
8	Chirality in polythiophenes: A review. Chirality, 2021, 33, 424-446.	2.6	11
9	Highly sensitive gas sensing platforms based on field effect Transistor-A review. Analytica Chimica Acta, 2021, 1172, 338575.	5.4	26
10	Nacre-like ultra-robust supramolecular-functionalized graphene oxide membrane for bifunctional separation. Carbon, 2021, 184, 618-626.	10.3	13
11	A Bio-inspired Extended-Gate Metal-Oxide-Semiconductor Field-Effect-Transistor for Highly Sensitive Amino Acid Enantiodiscrimination. Analytical Chemistry, 2021, 93, 14425-14431.	6.5	7
12	Engineering a cationic supramolecular charge switch for facile amino acids enantiodiscrimination based on extended-gate field effect transistors. Chinese Chemical Letters, 2021, , .	9.0	7
13	Cyclodextrin derivatives functionalized highly sensitive chiral sensor based on organic field-effect transistor. Chinese Chemical Letters, 2020, 31, 99-102.	9.0	20
14	Mixed-ligand engineering of quasi-2D perovskites for efficient sky-blue light-emitting diodes. Journal of Materials Chemistry C, 2020, 8, 1319-1325.	5.5	39
15	Determination of Kynurenine Enantiomers by Alpha-Cyclodextrin, Cationic-Î²eta-Cyclodextrin and Their Synergy Complemented with Stacking Enrichment in Capillary Electrophoresis. Journal of Chromatography A, 2020, 1622, 461128.	3.7	12
16	Surface Regulation of CsPbBr₃ Quantum Dots for Standard Blueâ€Emission with Boosted PLQY. Advanced Optical Materials, 2020, 8, 2000167.	7.3	30
17	Recent Advances in Immobilization Strategies for Biomolecules in Sensors Using Organic Field-Effect Transistors. Transactions of Tianjin University, 2020, 26, 424-440.	6.4	18
18	Chirality Discrimination at the Single Molecule Level by Using a Cationic Supermolecule Quasi-Gated Organic Field Effect Transistor. ACS Sensors, 2019, 4, 2009-2017.	7.8	14

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19	Recent advances in cyclodextrins-based chiral-recognizing platforms. TrAC - Trends in Analytical Chemistry, 2019, 121, 115691.	11.4	41
20	From inorganic precipitation to organic aggregation: solubility product constant-mediated specific metal-ion lighting-up using a triazolium iodide organic fluorescence tag. Analyst, The, 2019, 144, 1654-1659.	3.5	6
21	Polymorph-induced photosensitivity change in titanylphthalocyanine revealed by the charge transfer integral. Nanophotonics, 2019, 8, 787-797.	6.0	7
22	A highly sensitive and versatile chiral sensor based on a top-gate organic field effect transistor functionalized with thiolated Î²-cyclodextrin. Analyst, The, 2019, 144, 2611-2617.	3.5	21
23	Surface modification of magnesium hydroxide by wet process and effect on the thermal stability of silicone rubber. Applied Surface Science, 2019, 465, 740-746.	6.1	41
24	Suppressing defects through thiadiazole derivatives that modulate CH₃NH₃PbI₃ crystal growth for highly stable perovskite solar cells under dark conditions. Journal of Materials Chemistry A, 2018, 6, 4971-4980.	10.3	95
25	Impact of Peripheral Groups on Phenothiazine-Based Hole-Transporting Materials for Perovskite Solar Cells. ACS Energy Letters, 2018, 3, 1145-1152.	17.4	125
26	Alcoholâ€Soluble Electronâ€Transport Materials for Fully Solutionâ€Processed Green PhOLEDs. Chemistry - an Asian Journal, 2018, 13, 1335-1341.	3.3	10
27	A Novel <i>trans</i>â€1â€(9â€Anthryl)â€2â€phenylethene Derivative Containing a Phenanthroimidazole Unit for Application in Organic Lightâ€Emitting Diodes. Chemistry - an Asian Journal, 2018, 13, 81-88.	3.3	14
28	Smartly designed AIE triazoliums as unique targeting fluorescence tags for sulfonic biomacromolecule recognition <i>via</i> â€˜electrostatic lockingâ€™. Journal of Materials Chemistry C, 2018, 6, 12529-12536.	5.5	10
29	Boosting the Stability of Perovskite Solar Cells through a Dopantâ€Free Tetraphenylbenzidineâ€Based Hole Transporting Material. ChemistrySelect, 2018, 3, 13032-13037.	1.5	6
30	A Chiral Organic Field-Effect Transistor with a Cyclodextrin Modulated Copper Hexadecafluorophthalocyanine Semiconductive Layer as the Sensing Unit. Analytical Chemistry, 2018, 90, 9264-9271.	6.5	20
31	Enhanced stability and optoelectronic properties of MAPbI₃ films by a cationic surface-active agent for perovskite solar cells. Journal of Materials Chemistry A, 2018, 6, 10825-10834.	10.3	81
32	Organic Singleâ€Crystalline Donorâ€“Acceptor Heterojunctions with Ambipolar Bandâ€Like Charge Transport for Photovoltaics. Advanced Materials Interfaces, 2018, 5, 1800336.	3.7	18
33	Thiolâ€ene click derived structurally wellâ€defined per(3,5â€dimethyl)phenylcarbamoylated cationic cyclodextrin separation material for achiral and chiral chromatography. Journal of Separation Science, 2018, 41, 2710-2718.	2.5	24
34	Stable Perovskite Solar Cells based on Hydrophobic Triphenylamine Holeâ€Transport Materials. Energy Technology, 2017, 5, 312-320.	3.8	31
35	2,9,16,23-Tetrakis(7-coumarinoxy-4-methyl)- metallophthalocyanines -based hole transporting material for mixed-perovskite solar cells. Synthetic Metals, 2017, 226, 1-6.	3.9	20
36	Isomerâ€Pure Bisâ€PCBMâ€Assisted Crystal Engineering of Perovskite Solar Cells Showing Excellent Efficiency and Stability. Advanced Materials, 2017, 29, 1606806.	21.0	320

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37	The modulation of opto-electronic properties of CH3NH3PbBr3 crystal. Journal of Materials Science: Materials in Electronics, 2017, 28, 11053-11058.	2.2	12
38	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. Journal of Materials Chemistry A, 2017, 5, 13448-13456.	10.3	96
39	Dopantâ€Free Holeâ€Transport Material with a Tetraphenylethene Core for Efficient Perovskite Solar Cells. Energy Technology, 2017, 5, 1257-1264.	3.8	19
40	A Novel Spiro[acridineâ€9,9â€²â€fluorene] Derivatives Containing Phenanthroimidazole Moiety for Deepâ€Blue OLED Application. Chemistry - an Asian Journal, 2017, 12, 3069-3076.	3.3	30
41	Dopant-free and low-cost molecular â€œbeeâ€• hole-transporting materials for efficient and stable perovskite solar cells. Journal of Materials Chemistry C, 2017, 5, 11429-11435.	5.5	40
42	Over 20% PCE perovskite solar cells with superior stability achieved by novel and low-cost hole-transporting materials. Nano Energy, 2017, 41, 469-475.	16.0	232
43	Enantioseparation of single layer native cyclodextrin chiral stationary phases: Effect of cyclodextrin orientation and a modeling study. Analytica Chimica Acta, 2017, 990, 174-184.	5.4	32
44	Efficient, Stable, Dopantâ€Free Holeâ€Transport Material with a Triphenylamine Core for CH₃NH₃PbI₃ Perovskite Solar Cells. Energy Technology, 2017, 5, 1173-1178.	3.8	25
45	Small molecular hole-transporting and emitting materials for hole-only green organic light-emitting devices. Dyes and Pigments, 2016, 131, 41-48.	3.7	22
46	A trap-assisted ultrasensitive near-infrared organic photomultiple photodetector based on Y-type titanylphthalocyanine nanoparticles. Journal of Materials Chemistry C, 2016, 4, 5584-5592.	5.5	27
47	Engineering Thiolâ€“Ene Click Chemistry for the Fabrication of Novel Structurally Well-Defined Multifunctional Cyclodextrin Separation Materials for Enhanced Enantioseparation. Analytical Chemistry, 2016, 88, 4955-4964.	6.5	67
48	Dopantâ€Free Donor (D)â€“Ï€â€“Dâ€“Ï€â€“D Conjugated Holeâ€Transport Materials for Efficient and Stable Perovskite Solar Cells. ChemSusChem, 2016, 9, 2578-2585.	6.8	83
49	Studies on the dispersity of polymethacrylate-grafted carbon black in a non-aqueous medium: the influence of monomer structure. Journal of Materials Science: Materials in Electronics, 2016, 27, 2022-2030.	2.2	4
50	Single component p-, ambipolar and n-type OTFTs based on fluorinated copper phthalocyanines. Dyes and Pigments, 2016, 132, 378-386.	3.7	37
51	Improvement in photovoltaic performance of perovskite solar cells by interface modification and co-sensitization with novel asymmetry 7-coumarinoxy-4-methyltetrasubstituted metallophthalocyanines. Synthetic Metals, 2016, 220, 187-193.	3.9	21
52	A Novel Dopantâ€Free Triphenylamine Based Molecular â€œButterflyâ€• Holeâ€Transport Material for Highly Efficient and Stable Perovskite Solar Cells. Advanced Energy Materials, 2016, 6, 1600401.	19.5	161
53	Molecular design and photovoltaic performance of a novel thiocyanate-based layered organometal perovskite material. Synthetic Metals, 2016, 215, 56-63.	3.9	31
54	Studies on the charging behaviors of copper chromite black in nonpolar media with nonionic surfactants for electrophoretic displays. Journal of Materials Chemistry C, 2016, 4, 323-330.	5.5	7

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55	Film-forming hole transporting materials for high brightness flexible organic light-emitting diodes. Dyes and Pigments, 2016, 125, 36-43.	3.7	13
56	Recent Progress of Perovskite Solar Cells. Current Nanoscience, 2016, 12, 137-156.	1.2	39
57	Preparation of titanium dioxide nanoparticles modified with methacrylate and their electrophoretic properties. Journal of Materials Science: Materials in Electronics, 2015, 26, 5263-5269.	2.2	2
58	Synthesis of novel s-triazine/carbazole based bipolar molecules and their application in phosphorescent OLEDs. Journal of Materials Science: Materials in Electronics, 2015, 26, 6563-6571.	2.2	4
59	Simple Triphenylamine-Based Hole-Transporting Materials for Perovskite Solar Cells. Electrochimica Acta, 2015, 182, 733-741.	5.2	57
60	Charging behavior of carbon black in a low-permittivity medium based on acidâ€"base charging theory. Journal of Materials Chemistry C, 2015, 3, 3980-3988.	5.5	9
61	Titanylphthalocyanine as hole transporting material for perovskite solar cells. Journal of Energy Chemistry, 2015, 24, 756-761.	12.9	28
62	Efficient CH3NH3PbI3 perovskite solar cells with 2TPA-n-DP hole-transporting layers. Nano Research, 2015, 8, 1116-1127.	10.4	65
63	Preparation of titanium dioxide nano-particles modified with poly (methyl methacrylate) and its electrorheological characteristics in Isopar L. Colloid and Polymer Science, 2015, 293, 473-479.	2.1	7
64	Thermally induced crystallization behavior and film microstructure alteration of N,N,Nâ€²,Nâ€²-tetraphenylbenzidine (TPB) and N,N,Nâ€²,Nâ€²-tetra-p-tolyl-benzidine (TTB). Organic Electronics, 2014, 15, 1876-1883.	2.6	9
65	Novel hole transporting materials with a linear Ï€-conjugated structure for highly efficient perovskite solar cells. Chemical Communications, 2014, 50, 5829.	4.1	132
66	Simple Way to Engineer Metalâ€"Semiconductor Interface for Enhanced Performance of Perovskite Organic Lead Iodide Solar Cells. ACS Applied Materials & Interfaces, 2014, 6, 5651-5656.	8.0	93
67	Energy level tuning of TPB-based hole-transporting materials for highly efficient perovskite solar cells. Chemical Communications, 2014, 50, 15239-15242.	4.1	134
68	Preparation and properties of red inorganic hollow nanospheres for electrophoretic display. Applied Surface Science, 2014, 317, 319-324.	6.1	14
69	Novel photochromic and electrochromic diarylethenes bearing triphenylamine units. RSC Advances, 2014, 4, 16839-16848.	3.6	15
70	A thin pristine non-triarylamine hole-transporting material layer for efficient CH₃NH₃PbI₃perovskite solar cells. RSC Advances, 2014, 4, 32918.	3.6	35
71	Study on synthesis and properties of novel luminescent hole transporting materials based on N,Nâ€²-di(p-tolyl)-N,Nâ€²-diphenyl-1,1â€²-biphenyl-4,4â€²-diamine core. Dyes and Pigments, 2013, 97, 92-99.	3.7	16
72	Synthesis and properties of new luminescent hole transporting materials containing triphenylamine and carbazole units. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2012, 98, 215-221.	3.9	11

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73	Recent development of cyclodextrin chiral stationary phases and their applications in chromatography. Journal of Chromatography A, 2012, 1269, 52-68.	3.7	213
74	Enantioseparation of dansyl amino acids by ultra-high pressure liquid chromatography using cationic Î²-cyclodextrins as chiral additives. Analyst, The, 2011, 136, 1433.	3.5	26
75	Chiral capillary electrophoresis with cationic pyrrolidiniumâ€Î²â€cyclodextrin derivatives as chiral selectors. Journal of Separation Science, 2010, 33, 1797-1805.	2.5	38
76	Application of Clickâ€chemistryâ€based perphenylcarbamated Î²â€CD chiral stationary phase in CEC. Electrophoresis, 2009, 30, 705-711.	2.4	33
77	Synthesis and application of a novel single-isomer mono-6-deoxy-6-(3R,4R-dihydroxypyrrolidine)-Î²-cyclodextrin chloride as a chiral selector in capillary electrophoresis. Journal of Chromatography A, 2009, 1216, 994-999.	3.7	27
78	Click chemistry for facile immobilization of cyclodextrin derivatives onto silica as chiral stationary phases. Tetrahedron Letters, 2008, 49, 5190-5191.	1.4	74