

Jiangbin Xia

List of Publications by Year in descending order

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58
papers

5,533
citations

331538

21
h-index

155592

55
g-index

58
all docs

58
docs citations

58
times ranked

7181
citing authors

#	ARTICLE	IF	CITATIONS
1	For the Bright Future—Bulk Heterojunction Polymer Solar Cells with Power Conversion Efficiency of 7.4%. <i>Advanced Materials</i> , 2010, 22, E135-8.	11.1	3,509
2	Influence of Doped Anions on Poly(3,4-ethylenedioxythiophene) as Hole Conductors for Iodine-Free Solid-State Dye-Sensitized Solar Cells. <i>Journal of the American Chemical Society</i> , 2008, 130, 1258-1263.	6.6	263
3	Application of polypyrrole as a counter electrode for a dye-sensitized solar cell. <i>Journal of Materials Chemistry</i> , 2011, 21, 4644.	6.7	201
4	The influence of doping ions on poly(3,4-ethylenedioxythiophene) as a counter electrode of a dye-sensitized solar cell. <i>Journal of Materials Chemistry</i> , 2007, 17, 2845.	6.7	200
5	Sputtered Nb ₂ O ₅ as a Novel Blocking Layer at Conducting Glass/TiO ₂ Interfaces in Dye-Sensitized Ionic Liquid Solar Cells. <i>Journal of Physical Chemistry C</i> , 2007, 111, 8092-8097.	1.5	143
6	Deposition of a Thin Film of TiO _x from a Titanium Metal Target as Novel Blocking Layers at Conducting Glass/TiO ₂ Interfaces in Ionic Liquid Mesoscopic TiO ₂ Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry B</i> , 2006, 110, 25222-25228.	1.2	116
7	Nanoporous Polyporphyrin as Adsorbent for Hydrogen Storage. <i>Macromolecules</i> , 2010, 43, 3325-3330.	2.2	84
8	Sputtered Nb ₂ O ₅ as an effective blocking layer at conducting glass and TiO ₂ interfaces in ionic liquid-based dye-sensitized solar cells. <i>Chemical Communications</i> , 2007, , 138-140.	2.2	78
9	Fabrication and characterization of thin Nb ₂ O ₅ blocking layers for ionic liquid-based dye-sensitized solar cells. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2007, 188, 120-127.	2.0	78
10	Improved stability quasi-solid-state dye-sensitized solar cell based on polyether framework gel electrolytes. <i>Solar Energy Materials and Solar Cells</i> , 2006, 90, 944-952.	3.0	74
11	Novel Counter Electrode V ₂ O ₅ /Al for Solid Dye-Sensitized Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2010, 2, 2136-2139.	4.0	68
12	Strategy to improve the performance of dye-sensitized solar cells: Interface engineering principle. <i>Solar Energy</i> , 2011, 85, 3143-3159.	2.9	65
13	Importance of Blocking Layers at Conducting Glass/TiO ₂ Interfaces in Dye-sensitized Ionic-liquid Solar Cells. <i>Chemistry Letters</i> , 2006, 35, 252-253.	0.7	64
14	Iodine-free quasi solid-state dye-sensitized solar cells based on ionic liquid and alkali salt. <i>Journal of Materials Chemistry</i> , 2011, 21, 16448.	6.7	41
15	Facile synthesis of poly(3,4-ethylenedioxythiophene) by acid-assisted polycondensation of 5-bromo-2,3-dihydro-thieno[3,4-b][1,4]dioxine. <i>Synthetic Metals</i> , 2013, 175, 97-102.	2.1	31
16	Solid-state dye-sensitized solar cells fabricated by coupling photoelectrochemically deposited poly(3,4-ethylenedioxythiophene) (PEDOT) with silver-paint on cathode. <i>Chemical Communications</i> , 2011, 47, 3120.	2.2	28
17	Solid state synthesis of poly(3,4-ethylenedioxythiophene) as counter electrode for dye-sensitized solar cell. <i>Journal of Power Sources</i> , 2014, 248, 1234-1240.	4.0	28
18	Effect of Doping Anions™ Structures on Poly(3,4-ethylenedioxythiophene) as Hole Conductors in Solid-State Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , 2008, 112, 11569-11574.	1.5	26

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19	Hydrophilic ultrafiltration membranes with surface-bound eosin Y for an integrated synthesis-separation system of aqueous RAFT photopolymerization. <i>Journal of Materials Chemistry A</i> , 2020, 8, 9825-9831.	5.2	25
20	A novel preparation of small TiO ₂ nanoparticle and its application to dye-sensitized solar cells with binder-free paste at low temperature. <i>Nanoscale</i> , 2011, 3, 3900.	2.8	24
21	Worldwide outdoor round robin study of organic photovoltaic devices and modules. <i>Solar Energy Materials and Solar Cells</i> , 2014, 130, 281-290.	3.0	23
22	The facile modification of PEDOT:PSS buffer layer by polyethyleneglycol and their effects on inverted perovskite solar cell. <i>Solar Energy</i> , 2019, 186, 398-403.	2.9	22
23	Synthesis and investigation of novel thiophene derivatives containing heteroatom linkers for solid state polymerization. <i>RSC Advances</i> , 2014, 4, 8011.	1.7	20
24	Influence of Sheet Resistance Effect on Poly(3,4-ethylenedioxythiophene) Counter Electrode for Dye-Sensitized Solar Cell. <i>Electrochimica Acta</i> , 2017, 242, 219-226.	2.6	20
25	Low-temperature solution-combustion-processed Zn-Doped Nb ₂ O ₅ as an electron transport layer for efficient and stable perovskite solar cells. <i>Journal of Power Sources</i> , 2020, 448, 227419.	4.0	19
26	Development of highly efficient chemosensors for Cu ²⁺ and N ₂ H ₄ detection based on 2D polyaniline derivatives by template-free chemical polymerization method. <i>Journal of Hazardous Materials</i> , 2020, 389, 121902.	6.5	18
27	Optimization of plastic crystal ionic liquid electrolyte for solid-state dye-sensitized solar cell. <i>Electrochimica Acta</i> , 2013, 94, 1-6.	2.6	16
28	A novel CuI-based iodine-free gel electrolyte for dye-sensitized solar cells. <i>Electrochimica Acta</i> , 2011, 56, 5554-5560.	2.6	15
29	An efficient binary ionic liquid based quasi solid-state electrolyte for dye-sensitized solar cells. <i>Electrochimica Acta</i> , 2013, 107, 231-237.	2.6	15
30	Carbazole and fluorene polyaniline derivatives: Synthesis, properties and application as multiple stimuli-responsive fluorescent chemosensor. <i>Talanta</i> , 2019, 204, 592-601.	2.9	15
31	Nitrogen atom free polythiophene derivative as an efficient chemosensor for highly selective and sensitive Cu ²⁺ and Ag ⁺ detection. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2019, 218, 76-84.	2.0	15
32	Functionalization of poly(bis(3,4-ethylenedioxythiophene)s via facile C-C bulk polymerization and their application as chemosensors for acid detection. <i>Journal of Polymer Science Part A</i> , 2018, 56, 1676-1683.	2.5	14
33	Methyl functionalization on conjugated side chains for polymer solar cells processed from non-chlorinated solvents. <i>Journal of Materials Chemistry C</i> , 2020, 8, 11532-11539.	2.7	14
34	Facile synthesis of poly(3,4-ethylenedioxythiophene) and poly(bis-3,4-ethylenedioxythiophene) via UV-irradiation polymerization and their reduction/iodine oxidation post-treatment for the application as counter electrodes for dye-sensitized solar cells. <i>Electrochimica Acta</i> , 2019, 313, 505-512.	2.6	12
35	A novel D-A-D-typed rod-like fluorescent material for efficient Fe(III) and Cr(VI) detection: Synthesis, structure and properties. <i>Sensors and Actuators B: Chemical</i> , 2020, 320, 128377.	4.0	12
36	High-performance and stable inverted perovskite solar cells using low-temperature solution-processed CuNbO _x hole transport layer. <i>Journal of Power Sources</i> , 2021, 483, 229194.	4.0	12

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37	Investigation of benzo(1,2-b:4,5-b'')dithiophene as a spacer in organic dyes for high efficient dye-sensitized solar cell. <i>Organic Electronics</i> , 2015, 25, 245-253.	1.4	11
38	Effect of monomers' structure on self-acid-assisted polycondensation for the synthesis of poly(3,4-ethylenedioxythiophene) and homopolythiophene. <i>Polymer Chemistry</i> , 2015, 6, 1014-1022.	1.9	11
39	In-situ synthesis of organic-inorganic hybrid thin film of PEDOT/V2O5 as hole transport layer for polymer solar cells. <i>Solar Energy</i> , 2019, 190, 63-68.	2.9	11
40	Synthesis of Conjugated Main-Chain Ferrocene-Containing Polymers through Melt-State Polymerization. <i>Organometallics</i> , 2019, 38, 2972-2978.	1.1	9
41	Exploring functionalized polythiophene derivatives based on thiophene-linker-thiophene platform, analysis of prototype monomer crystal for C Br/C H bulk polycondensation and its application for acid detection. <i>Polymer</i> , 2019, 168, 70-76.	1.8	9
42	Parallel design strategy and rational study of crystal engineering of novel 3,4-ethylenedioxythiophene derivatives for solid state polymerization. <i>RSC Advances</i> , 2014, 4, 29032.	1.7	8
43	Effect of flexible linker length in 3,4-ethylenedioxythiophene derivatives for solid state polymerization. <i>RSC Advances</i> , 2015, 5, 16292-16301.	1.7	8
44	Synthesis of Metal-Containing Poly(thiophene methines) via Solid- and Melt-State Polymerization and Their Related Applications as Highly Sensitive Ni ²⁺ Chemosensors. <i>Organometallics</i> , 2019, 38, 647-653.	1.1	7
45	Controllable Synthesis of Sc ₃ N@C ₇₈ Microspindles with Excellent Electrophotonic Properties. <i>ACS Applied Energy Materials</i> , 2019, 2, 1489-1493.	2.5	7
46	Developing strong NIR absorption materials through linear planar π -conjugated cyclopalladated complex dimers. <i>Dalton Transactions</i> , 2021, 50, 1344-1348.	1.6	7
47	Investigation of the substitution effect on poly(bis-3,4-ethylenedioxythiophene methine)s through solid state polymerization. <i>RSC Advances</i> , 2015, 5, 103841-103851.	1.7	6
48	Two-dimensional nano-layered materials as multi-responsive chemosensors constructed by carbazole- and fluorene-based polyaniline-like derivatives. <i>Journal of Hazardous Materials</i> , 2021, 410, 124544.	6.5	6
49	Exploring novel poly(thiophene- ϵ -amine) through facile self acid assisted polycondensation. <i>Journal of Polymer Science Part A</i> , 2017, 55, 4003-4012.	2.5	5
50	UV-irradiation polymerization of bis-EDOT methane derivatives and their application for Br ₂ detection. <i>Polymer</i> , 2021, 226, 123808.	1.8	5
51	Synthesis and application of poly(bis-3,4-ethylenedioxythiophene methine)s as novel counter electrodes in dye-sensitized solar cells. <i>Solar Energy</i> , 2018, 173, 1189-1196.	2.9	4
52	Influence of benzene ring number attached on non-conjugated 3,4-ethylenedioxythiophene derivatives for solid-state polymerization. <i>RSC Advances</i> , 2015, 5, 70417-70423.	1.7	3
53	Fabrication of three-dimensional triarylmethane polymers derivatives as efficient counter electrodes for dye-sensitized solar cells. <i>Electrochimica Acta</i> , 2022, 408, 139917.	2.6	3
54	An integrative method to prepare low-platinum/fluorine doped tin oxide counter electrode for cost-effective dye-sensitized solar cells. <i>Solar Energy</i> , 2017, 155, 593-600.	2.9	2

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55	Facile synthesis of poly(BODIPY)s via solid state polymerization and application in temperature sensor. <i>Polymer</i> , 2022, 241, 124514.	1.8	2
56	Developing versatile and highly selective chemosensor for amines detection based on bis-thiophene methane containing cyclopalladated compounds. <i>Sensors and Actuators B: Chemical</i> , 2022, 359, 131561.	4.0	1
57	FTO-free and low-Pt-loading counter electrodes for dye-sensitized solar cells based on chemical bath deposited microstructured nickel layer. <i>Electrochimica Acta</i> , 2021, 369, 137641.	2.6	0
58	Novel synthesis of poly(3,4-dinitro-thiophen-2-yl arylamine) derivatives via facile $\text{C}^{\text{Br}}/\text{N}^{\text{H}}$ bulk polycondensation and its application of thermalsensor. <i>Polymer</i> , 2020, 201, 122550.	1.8	0