Xiang Gao

List of Publications by Year in descending order

43 papers	1,343 citations	516710 16 h-index	345221 36 g-index
45 all docs	45 docs citations	45 times ranked	1851 citing authors

#	Article	IF	Citations
1	Enhancement of thermoelectric properties of <scp>Dâ€A</scp> conjugated polymer through constructing random copolymers with more electronic donors. Journal of Polymer Science, 2022, 60, 1002-1012.	3.8	8
2	Highly stretchable All-polymer solar cells enabled by Siloxane-terminated side chains and molecular weight control. Chemical Engineering Journal, 2022, 440, 135829.	12.7	5
3	Effects of subtle change in side chains on the photovoltaic performance of small molecular donors for solar cells. Chinese Chemical Letters, 2022, 33, 4659-4663.	9.0	11
4	Novel Third Components with (Thio)barbituric Acid as the End Groups Improving the Efficiency of Ternary Solar Cells. ACS Applied Materials & Interfaces, 2022, 14, 23701-23708.	8.0	13
5	Progress of Monomeric Perylene Diimide Derivatives As Non-Fullerene Acceptors for Organic Solar Cells. Journal of Electronic Materials, 2022, 51, 4224-4237.	2.2	7
6	Ternary copolymers containing 3,4-dicyanothiophene for efficient organic solar cells with reduced energy loss. Journal of Materials Chemistry A, 2021, 9, 13522-13530.	10.3	23
7	Voltage loss analysis of novel non-fullerene acceptors with chlorinated non-conjugated thienyl chains. Dyes and Pigments, 2021, 188, 109162.	3.7	10
8	Fine-Tuning the Dipole Moment of Asymmetric Non-Fullerene Acceptors Enabling Efficient and Stable Organic Solar Cells. ACS Applied Materials & Interfaces, 2021, 13, 23983-23992.	8.0	41
9	Fluorinated Perylene Diimide Dimer for Organic Solar Cells as Nonâ€fullerene Acceptor. Asian Journal of Organic Chemistry, 2021, 10, 3374-3379.	2.7	11
10	A new fluorinated pyran-bridged A-D-A type small molecular acceptor for organic solar cells. Dyes and Pigments, 2020, 175, 108165.	3.7	18
11	Non-conjugated diketone as a linkage for enhancing the rate performance of poly(perylenediimides). Journal of Materials Chemistry A, 2020, 8, 19283-19289.	10.3	28
12	Comparison Study of the Chlorination Positions in Wide Band Gap Donor Polymers. Journal of Physical Chemistry C, 2020, 124, 24592-24600.	3.1	12
13	Enhancement of the thermoelectric performance of DPP based polymers by introducing one 3,4-ethylenedioxythiophene electron-rich building block. Journal of Materials Chemistry C, 2020, 8, 10859-10867.	5.5	37
14	Effect of microencapsulated ammonium polyphosphate on the durability and fire resistance of waterborne intumescent fire-retardant coatings. Journal of Coatings Technology Research, 2019, 16, 135-145.	2.5	31
15	Structural regulation of polypyrrole nanospheres guided by hydrophobic chain length of surfactants. Journal of Materials Science, 2019, 54, 14309-14319.	3.7	8
16	Fluorinated Lowâ€Đimensional Ruddlesdenâ€“Popper Perovskite Solar Cells with over 17% Power Conversion Efficiency and Improved Stability. Advanced Materials, 2019, 31, e1901673.	21.0	197
17	A diketopyrrolopyrrole-based nonfullerene acceptor for organic solar cells with a high open-circuit voltage of 1.17â€‰V. Polymer Journal, 2019, 51, 895-904.	2.7	4
18	Pyran-bridged A-D-A type small molecular acceptors for organic solar cells. Solar Energy, 2019, 183, 463-468.	6.1	15

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19	The fabrication of nanostructures with a large range of dimensions and the potential application for light outcoupling in organic light-emitting diodes. Journal of Micromechanics and Microengineering, 2019, 29, 035007.	2.6	4
20	A facile strategy for preparing Gemini surfactantâ€modified montmorillonite and its effect on the morphology and mechanical properties of polyethylene/polystyrene. Polymer Composites, 2019, 40, 3254-3263.	4.6	2
21	Non-fullerene polymer acceptors based on perylene diimides in all-polymer solar cells. Solar Energy Materials and Solar Cells, 2019, 189, 103-117.	6.2	54
22	A new nonfullerene acceptor based on perylene diimides for organic solar cells. Journal of Materials Science: Materials in Electronics, 2018, 29, 10362-10368.	2.2	12
23	Synthesis and characterization of novel red-emitting conjugated polymers based on triphenylaminesilole-carbazole-fluorene. Materials Chemistry and Physics, 2018, 212, 208-213.	4.0	9
24	Fine-Tuning the Quasi-3D Geometry: Enabling Efficient Nonfullerene Organic Solar Cells Based on Perylene Diimides. ACS Applied Materials & Interfaces, 2018, 10, 762-768.	8.0	65
25	An effective approach to obtain high efficiency red light-emitting polymers via incorporating benzodithiazole units. Dyes and Pigments, 2018, 156, 39-44.	3.7	10
26	Influence of Ca<scp>CO</scp>₃/glass fiber hybrid fillers on the mechanical and thermal properties of polytetrafluoroethylene. Advances in Polymer Technology, 2018, 37, 2811-2819.	1.7	8
27	Chlorinated Wide-Bandgap Donor Polymer Enabling Annealing Free Nonfullerene Solar Cells with the Efficiency of 11.5%. Journal of Physical Chemistry Letters, 2018, 9, 6955-6962.	4.6	70
28	Recent development of efficient A-D-A type fused-ring electron acceptors for organic solar. Solar Energy, 2018, 174, 171-188.	6.1	50
29	High Performance Soluble Polyimides from Ladder-Type Fluorinated Dianhydride with Polymorphism. Polymers, 2018, 10, 546.	4.5	25
30	Adsorption and Micellization of Gemini Surfactants with Diethylammonium Headgroups: Effect of the Spacer Rigidity. Journal of Surfactants and Detergents, 2017, 20, 765-775.	2.1	16
31	Efficient deep-red electroluminescent donor-acceptor copolymers based on 6,7-dichloroquinoxaline. Organic Electronics, 2017, 46, 276-282.	2.6	16
32	Deep-red organic light-emitting diodes with stable electroluminescent spectra based on zinc complex host material. RSC Advances, 2017, 7, 40533-40538.	3.6	9
33	Synthesis and characterization of conjugated polymers containing bromide side chain. Journal of Materials Science: Materials in Electronics, 2017, 28, 18049-18056.	2.2	9
34	Preparation and performances of novel waterborne intumescent fire retardant coatings. Progress in Organic Coatings, 2016, 95, 100-106.	3.9	52
35	Non-fullerene small molecule acceptors based on perylene diimides. Journal of Materials Chemistry A, 2016, 4, 17604-17622.	10.3	281
36	Highly efficient green PLED based on triphenlyaminesilole-carbazole-fluorene copolymers with TPBI as the hole blocking layer. Dyes and Pigments, 2016, 127, 155-160.	3.7	22

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37	Synthesis and characterization of novel polymers containing aminophenylsilole. Polymer Journal, 2016, 48, 723-728.	2.7	5
38	Highly selective palladium-catalyzed Stille coupling reaction toward chlorine-containing NIR electroluminescent polymers. Journal of Materials Chemistry C, 2015, 3, 7463-7468.	5.5	24
39	Highly selective Palladium-catalyzed Suzuki coupling reaction toward chlorine-containing electroluminescence polymers. Dyes and Pigments, 2015, 120, 112-117.	3.7	14
40	A Straightforward Synthesis of Chlorineâ€Bearing Donorâ€“Acceptor Alternating Copolymers with Deep Frontier Orbital Levels. Macromolecular Chemistry and Physics, 2014, 215, 1388-1395.	2.2	17
41	Straight forward synthesis of conjugated polymers for deep red to NIR PLED containing chlorine atoms on the backbone. Organic Electronics, 2014, 15, 1440-1447.	2.6	14
42	The dual temperature/pH-sensitive multiphase behavior of poly(N-isopropylacrylamide-co-acrylic acid) microgels for potential application in in situ gelling system. Colloids and Surfaces B: Biointerfaces, 2011, 84, 103-110.	5.0	72
43	Chlorination converting one efficient polymeric donor to an effective electron acceptor in organic solar cells. Nano Select, 0, , .	3.7	3