

# Xiang Gao

## List of Publications by Year in descending order

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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	Non-fullerene small molecule acceptors based on perylene diimides. <i>Journal of Materials Chemistry A</i> , 2016, 4, 17604-17622.	10.3	281
2	Fluorinated Low-Dimensional Ruddlesden-Popper Perovskite Solar Cells with over 17% Power Conversion Efficiency and Improved Stability. <i>Advanced Materials</i> , 2019, 31, e1901673.	21.0	197
3	The dual temperature/pH-sensitive multiphase behavior of poly(N-isopropylacrylamide-co-acrylic acid) microgels for potential application in in situ gelling system. <i>Colloids and Surfaces B: Biointerfaces</i> , 2011, 84, 103-110.	5.0	72
4	Chlorinated Wide-Bandgap Donor Polymer Enabling Annealing Free Nonfullerene Solar Cells with the Efficiency of 11.5%. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 6955-6962.	4.6	70
5	Fine-Tuning the Quasi-3D Geometry: Enabling Efficient Nonfullerene Organic Solar Cells Based on Perylene Diimides. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 762-768.	8.0	65
6	Non-fullerene polymer acceptors based on perylene diimides in all-polymer solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2019, 189, 103-117.	6.2	54
7	Preparation and performances of novel waterborne intumescent fire retardant coatings. <i>Progress in Organic Coatings</i> , 2016, 95, 100-106.	3.9	52
8	Recent development of efficient A-D-A type fused-ring electron acceptors for organic solar. <i>Solar Energy</i> , 2018, 174, 171-188.	6.1	50
9	Fine-Tuning the Dipole Moment of Asymmetric Non-Fullerene Acceptors Enabling Efficient and Stable Organic Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 23983-23992.	8.0	41
10	Enhancement of the thermoelectric performance of DPP based polymers by introducing one 3,4-ethylenedioxythiophene electron-rich building block. <i>Journal of Materials Chemistry C</i> , 2020, 8, 10859-10867.	5.5	37
11	Effect of microencapsulated ammonium polyphosphate on the durability and fire resistance of waterborne intumescent fire-retardant coatings. <i>Journal of Coatings Technology Research</i> , 2019, 16, 135-145.	2.5	31
12	Non-conjugated diketone as a linkage for enhancing the rate performance of poly(perylenediimides). <i>Journal of Materials Chemistry A</i> , 2020, 8, 19283-19289.	10.3	28
13	High Performance Soluble Polyimides from Ladder-Type Fluorinated Dianhydride with Polymorphism. <i>Polymers</i> , 2018, 10, 546.	4.5	25
14	Highly selective palladium-catalyzed Stille coupling reaction toward chlorine-containing NIR electroluminescent polymers. <i>Journal of Materials Chemistry C</i> , 2015, 3, 7463-7468.	5.5	24
15	Ternary copolymers containing 3,4-dicyanothiophene for efficient organic solar cells with reduced energy loss. <i>Journal of Materials Chemistry A</i> , 2021, 9, 13522-13530.	10.3	23
16	Highly efficient green PLED based on triphenylaminesilole-carbazole-fluorene copolymers with TPBI as the hole blocking layer. <i>Dyes and Pigments</i> , 2016, 127, 155-160.	3.7	22
17	A new fluorinated pyran-bridged A-D-A type small molecular acceptor for organic solar cells. <i>Dyes and Pigments</i> , 2020, 175, 108165.	3.7	18
18	A Straightforward Synthesis of Chlorine-Bearing Donor-Acceptor Alternating Copolymers with Deep Frontier Orbital Levels. <i>Macromolecular Chemistry and Physics</i> , 2014, 215, 1388-1395.	2.2	17

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19	Adsorption and Micellization of Gemini Surfactants with Diethylammonium Headgroups: Effect of the Spacer Rigidity. <i>Journal of Surfactants and Detergents</i> , 2017, 20, 765-775.	2.1	16
20	Efficient deep-red electroluminescent donor-acceptor copolymers based on 6,7-dichloroquinoxaline. <i>Organic Electronics</i> , 2017, 46, 276-282.	2.6	16
21	Pyran-bridged A-D-A type small molecular acceptors for organic solar cells. <i>Solar Energy</i> , 2019, 183, 463-468.	6.1	15
22	Straight forward synthesis of conjugated polymers for deep red to NIR PLED containing chlorine atoms on the backbone. <i>Organic Electronics</i> , 2014, 15, 1440-1447.	2.6	14
23	Highly selective Palladium-catalyzed Suzuki coupling reaction toward chlorine-containing electroluminescence polymers. <i>Dyes and Pigments</i> , 2015, 120, 112-117.	3.7	14
24	Novel Third Components with (Thio)barbituric Acid as the End Groups Improving the Efficiency of Ternary Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 23701-23708.	8.0	13
25	A new nonfullerene acceptor based on perylene diimides for organic solar cells. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 10362-10368.	2.2	12
26	Comparison Study of the Chlorination Positions in Wide Band Gap Donor Polymers. <i>Journal of Physical Chemistry C</i> , 2020, 124, 24592-24600.	3.1	12
27	Fluorinated Perylene Diimide Dimer for Organic Solar Cells as Nonfullerene Acceptor. <i>Asian Journal of Organic Chemistry</i> , 2021, 10, 3374-3379.	2.7	11
28	Effects of subtle change in side chains on the photovoltaic performance of small molecular donors for solar cells. <i>Chinese Chemical Letters</i> , 2022, 33, 4659-4663.	9.0	11
29	An effective approach to obtain high efficiency red light-emitting polymers via incorporating benzodithiazole units. <i>Dyes and Pigments</i> , 2018, 156, 39-44.	3.7	10
30	Voltage loss analysis of novel non-fullerene acceptors with chlorinated non-conjugated thienyl chains. <i>Dyes and Pigments</i> , 2021, 188, 109162.	3.7	10
31	Deep-red organic light-emitting diodes with stable electroluminescent spectra based on zinc complex host material. <i>RSC Advances</i> , 2017, 7, 40533-40538.	3.6	9
32	Synthesis and characterization of conjugated polymers containing bromide side chain. <i>Journal of Materials Science: Materials in Electronics</i> , 2017, 28, 18049-18056.	2.2	9
33	Synthesis and characterization of novel red-emitting conjugated polymers based on triphenylaminesilole-carbazole-fluorene. <i>Materials Chemistry and Physics</i> , 2018, 212, 208-213.	4.0	9
34	Influence of CaCO <sub>3</sub> /glass fiber hybrid fillers on the mechanical and thermal properties of polytetrafluoroethylene. <i>Advances in Polymer Technology</i> , 2018, 37, 2811-2819.	1.7	8
35	Structural regulation of polypyrrole nanospheres guided by hydrophobic chain length of surfactants. <i>Journal of Materials Science</i> , 2019, 54, 14309-14319.	3.7	8
36	Enhancement of thermoelectric properties of D $\pi$ A conjugated polymer through constructing random copolymers with more electronic donors. <i>Journal of Polymer Science</i> , 2022, 60, 1002-1012.	3.8	8

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37	Progress of Monomeric Perylene Diimide Derivatives As Non-Fullerene Acceptors for Organic Solar Cells. <i>Journal of Electronic Materials</i> , 2022, 51, 4224-4237.	2.2	7
38	Synthesis and characterization of novel polymers containing aminophenylsilole. <i>Polymer Journal</i> , 2016, 48, 723-728.	2.7	5
39	Highly stretchable All-polymer solar cells enabled by Siloxane-terminated side chains and molecular weight control. <i>Chemical Engineering Journal</i> , 2022, 440, 135829.	12.7	5
40	A diketopyrrolopyrrole-based nonfullerene acceptor for organic solar cells with a high open-circuit voltage of 1.17 V. <i>Polymer Journal</i> , 2019, 51, 895-904.	2.7	4
41	The fabrication of nanostructures with a large range of dimensions and the potential application for light outcoupling in organic light-emitting diodes. <i>Journal of Micromechanics and Microengineering</i> , 2019, 29, 035007.	2.6	4
42	Chlorination converting one efficient polymeric donor to an effective electron acceptor in organic solar cells. <i>Nano Select</i> , 0, , .	3.7	3
43	A facile strategy for preparing Gemini surfactant-modified montmorillonite and its effect on the morphology and mechanical properties of polyethylene/polystyrene. <i>Polymer Composites</i> , 2019, 40, 3254-3263.	4.6	2