

Shengqiang Xiao

List of Publications by Year in descending order

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70
papers

3,290
citations

159585

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144013

57
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70
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docs citations

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times ranked

4672
citing authors

#	ARTICLE	IF	CITATIONS
1	Interface Engineering of Hierarchical Branched MoS ₂ /Ni ₃ S ₂ /Ni ₃ P ₂ S ₆ Hollow Heterostructure Nanorods for Efficient Overall Water Splitting. <i>Advanced Energy Materials</i> , 2020, 10, 1903891.	19.5	443
2	Plastic Near-Infrared Photodetectors Utilizing Low Band Gap Polymer. <i>Advanced Materials</i> , 2007, 19, 3979-3983.	21.0	281
3	Imaging As-Grown [60]Fullerene Nanotubes by Template Technique. <i>Journal of the American Chemical Society</i> , 2002, 124, 13370-13371.	13.7	210
4	Donor-Acceptor Polymers Incorporating Alkylated Dithienylbenzothiadiazole for Bulk Heterojunction Solar Cells: Pronounced Effect of Positioning Alkyl Chains. <i>Macromolecules</i> , 2010, 43, 811-820.	4.8	175
5	Synthesis of Organic One-Dimensional Nanomaterials by Solid-Phase Reaction. <i>Journal of the American Chemical Society</i> , 2003, 125, 10794-10795.	13.7	163
6	Interfacial sp ³ -Mo Hybridization Originated High-Current Density Hydrogen Evolution. <i>Journal of the American Chemical Society</i> , 2021, 143, 8720-8730.	13.7	152
7	Molecular Engineering of Conjugated Polymers for Solar Cells: An Updated Report. <i>Advanced Materials</i> , 2017, 29, 1601391.	21.0	139
8	BiOX (X=Cl, Br, I) nanostructures: Mannitol-mediated microwave synthesis, visible light photocatalytic performance, and Cr(VI) removal capacity. <i>Journal of Colloid and Interface Science</i> , 2013, 409, 43-51.	9.4	112
9	Olefin metathesis ruthenium catalysts bearing unsymmetrical heterocyclic carbenes. <i>Coordination Chemistry Reviews</i> , 2013, 257, 2274-2292.	18.8	101
10	Conjugated Polymer Based on Polycyclic Aromatics for Bulk Heterojunction Organic Solar Cells: A Case Study of Quadrathienonaphthalene Polymers with 2% Efficiency. <i>Advanced Functional Materials</i> , 2010, 20, 635-643.	14.9	73
11	Self-Assembly and Characterization of A Novel Hydrogen-Bonded Nanostructure. <i>Journal of Physical Chemistry B</i> , 2004, 108, 6256-6260.	2.6	69
12	Conjugated Polymers of Fused Bithiophenes with Enhanced π -Electron Delocalization for Photovoltaic Applications. <i>Macromolecules</i> , 2008, 41, 5688-5696.	4.8	69
13	Neighboring sp-Hybridized Carbon Participated Molecular Oxygen Activation on the Interface of Sub-nanocluster CuO/Graphdiyne. <i>Journal of the American Chemical Society</i> , 2022, 144, 4942-4951.	13.7	67
14	[60]Fullerene-Based Molecular Triads with Expanded Absorptions in the Visible Region: Synthesis and Photovoltaic Properties. <i>Journal of Physical Chemistry B</i> , 2004, 108, 16677-16685.	2.6	62
15	Control in Energy Levels of Conjugated Polymers for Photovoltaic Application. <i>Journal of Physical Chemistry C</i> , 2008, 112, 7866-7871.	3.1	62
16	A method for controlling the synthesis of stable twisted two-dimensional conjugated molecules. <i>Nature Communications</i> , 2016, 7, 11637.	12.8	60
17	Dyads and Triads Containing Perylenetetracarboxylic Diimide and Porphyrin: Efficient Photoinduced Electron Transfer Elicited via Both Excited Singlet States. <i>Journal of Physical Chemistry B</i> , 2005, 109, 3658-3667.	2.6	57
18	Photocurrent Generation in Multilayer Self-Assembly Films Fabricated from Water-Soluble Poly(phenylene vinylene). <i>Chemistry - A European Journal</i> , 2003, 9, 6031-6038.	3.3	53

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19	Taking the place of perylene diimide: perylene tetracarboxylic tetraester as a building block for polymeric acceptors to achieve higher open circuit voltage in all-polymer bulk heterojunction solar cells. <i>Polymer Chemistry</i> , 2013, 4, 5612.	3.9	52
20	Dynamics of Photoinduced Electron Transfer in a Molecular Donor-Acceptor Quartet. <i>Journal of Physical Chemistry B</i> , 2006, 110, 11730-11738.	2.6	48
21	Hierarchical TiO ₂ Submicrorods Improve the Photovoltaic Performance of Dye-Sensitized Solar Cells. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 1315-1321.	6.7	48
22	Tuning optical and electronic properties of star-shaped conjugated molecules with enlarged π -delocalization for organic solar cell application. <i>Journal of Materials Chemistry A</i> , 2013, 1, 8270.	10.3	45
23	Mannitol-assisted solvothermal synthesis of BiOCl hierarchical nanostructures and their mixed organic dye adsorption capacities. <i>CrystEngComm</i> , 2014, 16, 4298-4305.	2.6	42
24	Conjugated Polymers Based on Benzo[2,1- <i>b</i> :3,4- <i>b'</i>]dithiophene with Low-Lying Highest Occupied Molecular Orbital Energy Levels for Organic Photovoltaics. <i>ACS Applied Materials & Interfaces</i> , 2009, 1, 1613-1621.	8.0	40
25	Three-Point Hydrogen Bonding Assembly between a Conjugated PPV and a Functionalized Fullerene. <i>Chemistry of Materials</i> , 2003, 15, 1593-1597.	6.7	38
26	Synthesis and Chemical Properties of Conjugated Polyacetylenes Having Pendant Fullerene and/or Porphyrin Units. <i>Macromolecules</i> , 2004, 37, 7444-7450.	4.8	37
27	Enhancement of Photovoltaic Performance by Utilizing Readily Accessible Hole Transporting Layer of Vanadium(V) Oxide Hydrate in a Polymer-Fullerene Blend Solar Cell. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 11658-11666.	8.0	37
28	Self-Assembly and Characterization of Supramolecular [60]Fullerene-Containing 2,6-Diacylamidopyridine with Uracil Derivative by Hydrogen-Bonding Interaction. <i>Organic Letters</i> , 2002, 4, 1179-1182.	4.6	36
29	Synthesis and Photovoltaic Properties of Novel Monoadducts and Bisadducts Based on Amide Methanofullerene. <i>ACS Applied Materials & Interfaces</i> , 2012, 4, 1065-1071.	8.0	36
30	Citrate/Urea/Solvent Mediated Self-Assembly of (BiO) ₂ CO ₃ Hierarchical Nanostructures and Their Associated Photocatalytic Performance. <i>Industrial & Engineering Chemistry Research</i> , 2013, 52, 12604-12612.	3.7	33
31	Easy access to N-alkylation of N-unsubstituted [60]fulleropyrrolidines: reductive amination using sodium triacetoxymethylborohydride. <i>Tetrahedron Letters</i> , 2004, 45, 3975-3978.	1.4	29
32	Ladder-Type Nonacyclic Arene Bis(thieno[3,2- <i>b</i>]thieno)cyclopentafluorene as a Promising Building Block for Non-Fullerene Acceptors. <i>Chemistry - an Asian Journal</i> , 2019, 14, 1814-1822.	3.3	29
33	Synthesis and Characterization of Three Novel [60]Fullerene Derivatives toward Self-Assembled Nanoparticles through Interaction of Hydrogen Bonding. <i>Organic Letters</i> , 2002, 4, 3063-3066.	4.6	28
34	Improved Performance of Planar Perovskite Solar Cells Using an Amino-Terminated Multifunctional Fullerene Derivative as the Passivation Layer. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 27145-27152.	8.0	28
35	Control Growth of One-Dimensional Nanostructures of Organic Materials. <i>Journal of Physical Chemistry B</i> , 2004, 108, 7744-7747.	2.6	25
36	Distinction between PTB7-Th samples prepared from Pd(PPh ₃) ₄ and Pd ₂ (dba) ₃ /P(<i>i</i> -o-tol) ₃ catalysed stille coupling polymerization and the resultant photovoltaic performance. <i>Journal of Materials Chemistry A</i> , 2018, 6, 179-188.	10.3	24

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37	Fullerene-functionalized gold core-shell nanoparticles: preparation and optical limiting properties. <i>Inorganic Chemistry Communication</i> , 2004, 7, 960-962.	3.9	19
38	Fabrication and nonlinear optical properties of ultrathin films containing sulfonate functionalized fullerenes. <i>Chemical Physics Letters</i> , 2004, 383, 230-234.	2.6	19
39	Chemical synthesis and enhanced electrical properties of bulk poly(3,4-ethylenedioxythiophene)/reduced graphene oxide nanocomposites. <i>Synthetic Metals</i> , 2017, 229, 65-71.	3.9	19
40	Low-Cost Fullerene Derivative as an Efficient Electron Transport Layer for Planar Perovskite Solar Cells. <i>Wuli Huaxue Xuebao/ Acta Physico - Chimica Sinica</i> , 2019, 35, 401-407.	4.9	19
41	A new class of approach for hybrid inorganic/organic materials containing semiconductor ZnO. <i>Synthetic Metals</i> , 2005, 148, 313-319.	3.9	18
42	Controllable synthesis of hierarchical Bi ₂ CuO ₄ microspheres in aqueous solution and their highly efficient visible-light-driven photocatalytic activities. <i>CrystEngComm</i> , 2013, 15, 8159.	2.6	18
43	Enhanced electrochemical energy storage performance of reduced graphene oxide by incorporating oxygen-rich in-plane pores. <i>Journal of Materials Chemistry A</i> , 2014, 2, 1802-1808.	10.3	18
44	Synthesis and optoelectronic properties of a novel molecular semiconductor of dithieno[5,6-b:11,12-b']coronene-2,3,8,9-tetracarboxylic tetraester. <i>Chinese Chemical Letters</i> , 2014, 25, 65-68.	9.0	17
45	A novel donor-acceptor alternating copolymer based on angular-shaped benzo[2,1-b:3,4-b']diselenophene for bulk heterojunction solar cells. <i>Polymer Chemistry</i> , 2015, 6, 1383-1392.	3.9	13
46	Fine-tuning the solid-state ordering and thermoelectric performance of regioregular P3HT analogues by sequential oxygen-substitution of carbon atoms along the alkyl side chains. <i>Journal of Materials Chemistry C</i> , 2019, 7, 2333-2344.	5.5	13
47	Recent Progress on Highly Efficient Bulk Heterojunction Polymer Solar Cells. <i>ACS Symposium Series</i> , 2010, , 71-80.	0.5	11
48	A Ladder-type Heteroheptacene Dithieno[2,3:4,5]thieno[3,2-b:6,5]fluorene Based D-A Copolymer with Strong Intermolecular Interactions toward Efficient Polymer Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 35159-35168.	8.0	11
49	Effect of Replacing Alkyl Side Chains with Triethylene Glycols on Photovoltaic Properties of Easily Accessible Fluorene-Based Non-Fullerene Molecular Acceptors: Improve or Deteriorate?. <i>ACS Applied Energy Materials</i> , 2018, 1, 1276-1285.	5.1	11
50	Sensitivity of Molecular Packing and Photovoltaic Performance to Subtle Fluctuation of Steric Distortions within A Copolymer Backbones. <i>ACS Applied Energy Materials</i> , 2018, 1, 4332-4340.	5.1	11
51	Bis(thieno[3,2-b:6,5]thieno)cyclopentafluorene-Based Acceptor with Efficient and Comparable Photovoltaic Performance under Various Processing Conditions. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 49876-49885.	8.0	11
52	Synthesis and Characterization of A Novel Water-Soluble Cationic Poly (Phenylene vinylene). <i>Synthetic Metals</i> , 2003, 135-136, 483-484.	3.9	10
53	Self-assembly of a derivated PPV and a functionalized fullerene by hydrogen bonding. <i>Synthetic Metals</i> , 2003, 135-136, 843-844.	3.9	10
54	Sifting 1,4-dithiophene-2-yl)alkanes as solvent additives to boost the photovoltaic performance of the PTB7-Th:PCBM blend. <i>Journal of Materials Chemistry A</i> , 2018, 6, 20788-20794.	10.3	7

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55	Solvothermal Synthesis of Layered BiOCl Nanosheets and Their Efficient VisibleLight-Induced Photocatalytic Activities. <i>Science of Advanced Materials</i> , 2013, 5, 1024-1031.	0.7	6
56	Simple synthesis of CdS nanorods by sulfur powders. <i>Synthetic Metals</i> , 2003, 135-136, 841-842.	3.9	4
57	Self-ordered monolayers of fullerene derivatives assembled via bimolecular building block. <i>Applied Surface Science</i> , 2006, 252, 2119-2125.	6.1	4
58	Synthesis and Characterization of a C60 Covalently Linked Poly(phenylenevinylene) Derivative Containing Trimethylsilyl Pendant. <i>Synthetic Metals</i> , 2003, 135-136, 837-838.	3.9	3
59	Synthesis and characterization of two [5,6]-open and [6,6]-closed [60]fullerene isomers. <i>Synthetic Metals</i> , 2003, 135-136, 839-840.	3.9	3
60	5H-Fluoreno [3,2- b:6,7- b TM] Dithiophene Based Non-fullerene Small Molecular Acceptors for Polymer Solar Cell Application. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2019, 34, 1220-1227.	1.0	3
61	Donor-acceptor conjugated copolymer with high thermoelectric performance: A case study of the oxidation process within chemical doping. <i>Chinese Physics B</i> , 2022, 31, 028507.	1.4	3
62	Self-assembled lead nanowires with [60] fullerene-substituted oligopyridines. <i>Synthetic Metals</i> , 2003, 135-136, 845-846.	3.9	2
63	Transforming the molecular orientation of crystalline lamellae by the degree of multi-fluorination within D ^A copolymers and its effect on photovoltaic performance. <i>Journal of Materials Chemistry C</i> , 2018, 6, 10513-10523.	5.5	2
64	Self-assembly and characterization of a hydrogen-bonded supramolecular system between an oligo-2-aminopyridine derivative and 1-dodecyluracil. <i>Synthetic Metals</i> , 2005, 155, 643-647.	3.9	1
65	Isomeric Fluorene-based Heteroundecenes with Different Side Chains Anchoring Positions for Small Molecule Acceptors. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2022, 37, 136-147.	1.0	1
66	Easy Access to N-Alkylation of N-Unsubstituted [60]Fulleropyrrolidines: Reductive Amination Using Sodium Triacetoxyborohydride.. <i>ChemInform</i> , 2004, 35, no.	0.0	0
67	Novel Nanoscale Organic Materials for Optimal Photovoltaic Functions. <i>Materials Research Society Symposia Proceedings</i> , 2006, 974, 1.	0.1	0
68	Synthesis and Photovoltaic Properties of A Dithieno[6,5-b:10,11-b ²]-8H-Cyclopentyl[1,2-b:4,3-b ²]Diphenanthrene based Donor-Acceptor Alternating Copolymer. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2018, 33, 288-295.	1.0	0
69	Positional isomeric effect of monobrominated ending groups within small molecule acceptors on photovoltaic performance. <i>RSC Advances</i> , 2021, 11, 31992-31999.	3.6	0
70	Synthesis and properties of a novel decacyclic <i>S</i>,<i>N</i>-heteroacene. <i>Acta Crystallographica Section C, Structural Chemistry</i> , 2022, 78, 250-256.	0.5	0