

Qian Liu

List of Publications by Year in descending order

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81
papers

4,306
citations

186209

28
h-index

114418

63
g-index

86
all docs

86
docs citations

86
times ranked

4885
citing authors

#	ARTICLE	IF	CITATIONS
1	The OsSPL16-GW7 regulatory module determines grain shape and simultaneously improves rice yield and grain quality. <i>Nature Genetics</i> , 2015, 47, 949-954.	9.4	555
2	Modulating plant growthâ€“metabolism coordination for sustainable agriculture. <i>Nature</i> , 2018, 560, 595-600.	13.7	412
3	Heterotrimeric G proteins regulate nitrogen-use efficiency in rice. <i>Nature Genetics</i> , 2014, 46, 652-656.	9.4	338
4	Enhanced sustainable green revolution yield via nitrogen-responsive chromatin modulation in rice. <i>Science</i> , 2020, 367, .	6.0	242
5	Organic field-effect transistor-based flexible sensors. <i>Chemical Society Reviews</i> , 2020, 49, 3423-3460.	18.7	230
6	G-protein γ subunits determine grain size through interaction with MADS-domain transcription factors in rice. <i>Nature Communications</i> , 2018, 9, 852.	5.8	219
7	Developments of Diketopyrrolopyrroleâ€“Based Organic Semiconductors for a Wide Range of Applications in Electronics. <i>Advanced Materials</i> , 2020, 32, e1903882.	11.1	212
8	Biodegradable Materials and Green Processing for Green Electronics. <i>Advanced Materials</i> , 2020, 32, e2001591.	11.1	168
9	Tin oxide for optoelectronic, photovoltaic and energy storage devices: a review. <i>Journal of Materials Chemistry A</i> , 2021, 9, 16621-16684.	5.2	146
10	Transgenic expression of plastidic glutamine synthetase increases nitrogen uptake and yield in wheat. <i>Plant Biotechnology Journal</i> , 2018, 16, 1858-1867.	4.1	101
11	Non-canonical regulation of SPL transcription factors by a human OTUB1-like deubiquitinase defines a new plant type rice associated with higher grain yield. <i>Cell Research</i> , 2017, 27, 1142-1156.	5.7	98
12	Shedding light on integrative GA signaling. <i>Current Opinion in Plant Biology</i> , 2014, 21, 89-95.	3.5	94
13	Organic Electrochemical Transistors for In Vivo Bioelectronics. <i>Advanced Materials</i> , 2021, 33, e2101874.	11.1	78
14	DNA Replication Factor C1 Mediates Genomic Stability and Transcriptional Gene Silencing in <i>Arabidopsis</i> . <i>Plant Cell</i> , 2010, 22, 2336-2352.	3.1	72
15	CEF1/OsMYB103L is involved in GA-mediated regulation of secondary wall biosynthesis in rice. <i>Plant Molecular Biology</i> , 2015, 89, 385-401.	2.0	71
16	Photoelectrochemical Synthesis of Ammonia with Black Phosphorus. <i>Advanced Functional Materials</i> , 2020, 30, 2002731.	7.8	69
17	Improving Crop Nitrogen Use Efficiency Toward Sustainable Green Revolution. <i>Annual Review of Plant Biology</i> , 2022, 73, 523-551.	8.6	65
18	Crystalline Red Phosphorus Nanoribbons: Largeâ€“Scale Synthesis and Electrochemical Nitrogen Fixation. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 14383-14387.	7.2	58

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19	Diatom ecological response to altered hydrological forcing of a shallow lake on the Yangtze floodplain, SE China. <i>Ecohydrology</i> , 2012, 5, 316-325.	1.1	50
20	Nitrogen signaling and use efficiency in plants: what's new?. <i>Current Opinion in Plant Biology</i> , 2015, 27, 192-198.	3.5	50
21	OsSND2, a NAC family transcription factor, is involved in secondary cell wall biosynthesis through regulating MYBs expression in rice. <i>Rice</i> , 2018, 11, 36.	1.7	47
22	Tuning the Charge Carrier Polarity of Organic Transistors by Varying the Electron Affinity of the Flanked Units in Diketopyrrolopyrrole-Based Copolymers. <i>Advanced Functional Materials</i> , 2020, 30, 1907452.	7.8	45
23	Synergistic Use of Pyridine and Selenophene in a Diketopyrrolopyrrole-Based Conjugated Polymer Enhances the Electron Mobility in Organic Transistors. <i>Advanced Functional Materials</i> , 2020, 30, 2000489.	7.8	43
24	Benzo[1,2-b:4,5-b']dithiophene and benzotriazole based small molecule for solution-processed organic solar cells. <i>Organic Electronics</i> , 2014, 15, 405-413.	1.4	42
25	Two-dimensional benzodithiophene and benzothiadiazole based solution-processed small molecular organic field-effect transistors & solar cells. <i>Journal of Materials Chemistry C</i> , 2014, 2, 3921.	2.7	41
26	Hyperconjugated side chained benzodithiophene and 4,7-di-2-thienyl-2,1,3-benzothiadiazole based polymer for solar cells. <i>Polymer Chemistry</i> , 2014, 5, 2076.	1.9	39
27	Enhancing the Electrochemical Doping Efficiency in Diketopyrrolopyrrole-Based Polymer for Organic Electrochemical Transistors. <i>Advanced Electronic Materials</i> , 2021, 7, .	2.6	39
28	Genome-wide mapping reveals R-loops associated with centromeric repeats in maize. <i>Genome Research</i> , 2021, 31, 1409-1418.	2.4	37
29	Novel Donor-Acceptor Polymer Containing 4,7-Bis(thiophen-2-yl)benzo[c][1,2,5]thiadiazole for Polymer Solar Cells with Power Conversion Efficiency of 6.21%. <i>Macromolecular Rapid Communications</i> , 2014, 35, 1153-1157.	2.0	33
30	Naphthalene flanked diketopyrrolopyrrole based organic semiconductors for high performance organic field effect transistors. <i>New Journal of Chemistry</i> , 2018, 42, 12374-12385.	1.4	29
31	Simultaneous Tuning of Alkyl Chains and End Groups in Non-fused Ring Electron Acceptors for Efficient and Stable Organic Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 24374-24385.	4.0	28
32	Emerging insights into heterotrimeric G protein signaling in plants. <i>Journal of Genetics and Genomics</i> , 2016, 43, 495-502.	1.7	26
33	Low HOMO isoindigo based small molecule for high open-circuit voltage 1.0V solution processed organic solar cells. <i>Synthetic Metals</i> , 2013, 178, 38-43.	2.1	25
34	The electrical, thermal, and thermoelectric properties of black phosphorus. <i>APL Materials</i> , 2020, 8, .	2.2	25
35	Improved open-circuit voltage of benzodithiophene based polymer solar cells using bulky terthiophene side group. <i>Solar Energy Materials and Solar Cells</i> , 2015, 138, 26-34.	3.0	23
36	SQUAMOSA Promoter Binding Protein-like Transcription Factors: Targets for Improving Cereal Grain Yield. <i>Molecular Plant</i> , 2016, 9, 765-767.	3.9	23

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37	New small molecules with thiazolothiazole and benzothiadiazole acceptors for solution-processed organic solar cells. <i>New Journal of Chemistry</i> , 2014, 38, 1559.	1.4	21
38	Diketopyrrolopyrrole-Based Dual-Acceptor Copolymers to Realize Tunable Charge Carrier Polarity of Organic Field-Effect Transistors and High-Performance Nonvolatile Ambipolar Flash Memories. <i>ACS Applied Electronic Materials</i> , 2020, 2, 1609-1618.	2.0	21
39	Near-infrared response thienoindigo-based small molecule for solution-processed bulk-heterojunction solar cells. <i>Synthetic Metals</i> , 2014, 187, 24-29.	2.1	20
40	Improving coordination of plant growth and nitrogen metabolism for sustainable agriculture. <i>ABIOTECH</i> , 2020, 1, 255-275.	1.8	20
41	Triethylene Glycol Substituted Diketopyrrolopyrrole and Isoindigo Dye Based Donor-Acceptor Copolymers for Organic Light-Emitting Electrochemical Cells and Transistors. <i>Advanced Electronic Materials</i> , 2020, 6, 1901414.	2.6	20
42	Diketopyrrolopyrrole based organic semiconductors with different numbers of thiophene units: symmetry tuning effect on electronic devices. <i>New Journal of Chemistry</i> , 2018, 42, 4017-4028.	1.4	19
43	Energy-Level Manipulation in Novel Indacenodithiophene-Based Donor-Acceptor Polymers for Near-Infrared Organic Photodetectors. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 29866-29875.	4.0	19
44	Regulation of OsmiR156h through Alternative Polyadenylation Improves Grain Yield in Rice. <i>PLoS ONE</i> , 2015, 10, e0126154.	1.1	19
45	New Benzo[1,2-b:4,5-b']dithiophene-Based Small Molecules Containing Alkoxyphenyl Side Chains for High Efficiency Solution-Processed Organic Solar Cells. <i>ChemSusChem</i> , 2014, 7, 3319-3327.	3.6	18
46	Short Alkyl Chain Engineering Modulation on Naphthalene Flanked Diketopyrrolopyrrole toward High-Performance Single Crystal Transistors and Organic Thin Film Displays. <i>Advanced Electronic Materials</i> , 2021, 7, 2000804.	2.6	18
47	Development of New Two-Dimensional Small Molecules Based on Benzodifuran for Efficient Organic Solar Cells. <i>Chemistry - an Asian Journal</i> , 2014, 9, 2621-2627.	1.7	16
48	Naphthalene flanked diketopyrrolopyrrole: a new conjugated building block with hexyl or octyl alkyl side chains for electropolymerization studies and its biosensor applications. <i>Polymer Chemistry</i> , 2019, 10, 3722-3739.	1.9	16
49	Novel Co-Doped Y ₂ GeO ₅ :Pr ³⁺ , Tb ³⁺ : Deep Trap Level Formation and Analog Binary Optical Storage with Submicron Information Points. <i>Advanced Optical Materials</i> , 2021, 9, 2002090.	3.6	16
50	Green Revolution DELLAs: From translational reinitiation to future sustainable agriculture. <i>Molecular Plant</i> , 2021, 14, 547-549.	3.9	16
51	Modulating the C-terminus of DEP1 synergistically enhances grain quality and yield in rice. <i>Journal of Genetics and Genomics</i> , 2022, 49, 506-509.	1.7	13
52	Aromatic Heterocycle 1,3,4-Oxadiazole-Substituted Thieno[3,4-b]thiophene to Build Low-Bandgap Polymer for Photovoltaic Application. <i>Macromolecular Rapid Communications</i> , 2015, 36, 2065-2069.	2.0	12
53	High-Performance Semitransparent Organic Solar Cells Enabled by Improved Charge Transport and Optical Engineering of Ternary Blend Active Layer. <i>Solar Rrl</i> , 2022, 6, 2100785.	3.1	12
54	From Octahedron Crystals to 2D Silicon Nanosheets: Facet-Selective Cleavage and Biophotonic Applications. <i>Small</i> , 2020, 16, e2003594.	5.2	11

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55	Emerging roles of centromeric RNAs in centromere formation and function. <i>Genes and Genomics</i> , 2021, 43, 217-226.	0.5	11
56	Topochemical Synthesis of Copper Phosphide Nanoribbons for Flexible Optoelectronic Memristors. <i>Advanced Functional Materials</i> , 0, , 2110900.	7.8	11
57	Directional Carrier Polarity Tunability in Ambipolar Organic Transistors Based on Diketopyrrolopyrrole and Bithiophene Imide Dual-Acceptor Semiconducting Polymers. <i>Chemistry of Materials</i> , 2022, 34, 3140-3151.	3.2	10
58	Novel pendent thiophene side-chained benzodithiophene for polymer solar cells. <i>Journal of Polymer Science Part A</i> , 2015, 53, 1558-1566.	2.5	9
59	Naphthalene flanked diketopyrrolopyrrole: A new DPP family member and its comparative optoelectronic properties with thiophene- and furan- flanked DPP counterparts. <i>Organic Electronics</i> , 2019, 74, 290-298.	1.4	9
60	Crystalline Red Phosphorus Nanoribbons: Large-Scale Synthesis and Electrochemical Nitrogen Fixation. <i>Angewandte Chemie</i> , 2020, 132, 14489-14493.	1.6	9
61	Versatile nature of anthanthrone based polymers as active multifunctional semiconductors for various organic electronic devices. <i>Materials Advances</i> , 2020, 1, 3428-3438.	2.6	9
62	Naphthalene Flanked Diketopyrrolopyrrole: A New Functional Dye Based Optical Sensors for Monitoring Cyanide Ions in Water. <i>Advanced Materials Technologies</i> , 0, , 2100170.	3.0	6
63	Synthesis and Optical-electronic Properties of a Novel Star-shaped Benzodithiophene Molecule. <i>Chemistry Letters</i> , 2015, 44, 291-293.	0.7	5
64	A multicolor-emitted phosphor for temperature sensing and multimode dynamic anti-counterfeiting. <i>Journal of the American Ceramic Society</i> , 2022, 105, 6241-6251.	1.9	5
65	An electrochemically prepared sky-blue light emitting ether functionalized polyfluorene as chemosensor for metal ions. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2013, 31, 1579-1589.	2.0	4
66	Novel Panchromatic Absorption Material, Isoindigo-based A Small Molecule. <i>Chemistry Letters</i> , 2014, 43, 1870-1872.	0.7	4
67	Hydrophilic poly-ether side-chained benzodithiophene-based homopolymer for solar cells and field-effect transistors. <i>Journal of Materials Science</i> , 2015, 50, 2263-2271.	1.7	4
68	Thiophene π -bridge effect on bulky side-chained benzodithiophene-based photovoltaic polymers. <i>Journal of Polymer Science Part A</i> , 2016, 54, 1615-1622.	2.5	4
69	Structural Geometry Variation of 1,4-Naphthalene-Based Co-Polymers to Tune the Device Performance of PVK-Host-Based OLEDs. <i>Polymers</i> , 2021, 13, 2914.	2.0	4
70	A Hybrid Deep Learning Model for Recognizing Actions of Distracted Drivers. <i>Sensors</i> , 2021, 21, 7424.	2.1	4
71	A triple bond side-chained 2D-conjugated benzodithiophene based photovoltaic polymer. <i>RSC Advances</i> , 2014, 4, 58426-58431.	1.7	3
72	Black Phosphorus-Diketopyrrolopyrrole Polymer Semiconductor Hybrid for Enhanced Charge Transfer and Photodetection. <i>Advanced Photonics Research</i> , 2021, 2, 2100150.	1.7	3

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73	Synthesis and solar cells applications of EOâ€PFâ€DTBT polymer. Journal of Applied Polymer Science, 2014, 131, .	1.3	2
74	Green Electronics: Biodegradable Materials and Green Processing for Green Electronics (Adv. Mater.) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	11.1	2
75	Influence of cyanate ester modifier on the thermal, mechanical, and corrosive properties of epoxy composite coating. Materials and Corrosion - Werkstoffe Und Korrosion, 0, , .	0.8	2
76	Beyond the Green Revolution: Improving crop productivity and sustainability by modulating plant growth-metabolic coordination. Molecular Plant, 2022, 15, 573-576.	3.9	2
77	Lightâ€Emitting Electrochemical Cells: Triethylene Glycol Substituted Diketopyrrolopyrroleâ€and Isoindigoâ€Dye Based Donorâ€Acceptor Copolymers for Organic Lightâ€Emitting Electrochemical Cells and Transistors (Adv. Electron. Mater. 5/2020). Advanced Electronic Materials, 2020, 6, 2070025.	2.6	1
78	Photoelectrochemical Ammonia Synthesis: Photoelectrochemical Synthesis of Ammonia with Black Phosphorus (Adv. Funct. Mater. 24/2020). Advanced Functional Materials, 2020, 30, 2070156.	7.8	1
79	Organic Electrochemical Transistors for In Vivo Bioelectronics (Adv. Mater. 49/2021). Advanced Materials, 2021, 33, .	11.1	1
80	Effect of alfalfa substituted with ramie on the expression of apoptotic genes in the gastrointestinal tracts of goats. Food Science and Nutrition, 2022, 10, 2400-2407.	1.5	0
81	Topochemical Synthesis of Copper Phosphide Nanoribbons for Flexible Optoelectronic Memristors (Adv. Funct. Mater. 14/2022). Advanced Functional Materials, 2022, 32, .	7.8	0