Xiangnan Sun

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Ternary NiCo ₂ P <i>_x</i> Nanowires as pHâ€Universal Electrocatalysts for Highly Efficient Hydrogen Evolution Reaction. Advanced Materials, 2017, 29, 1605502.	11.1	544
2	Multibit Storage of Organic Thinâ€Film Fieldâ€Effect Transistors. Advanced Materials, 2009, 21, 1954-1959.	11.1	178
3	Inkjet Printing Highâ€Resolution, Largeâ€Area Graphene Patterns by Coffeeâ€Ring Lithography. Advanced Materials, 2012, 24, 436-440.	11.1	154
4	Engineering of the dielectric–semiconductor interface in organic field-effect transistors. Journal of Materials Chemistry, 2010, 20, 2599.	6.7	153
5	A molecular spin-photovoltaic device. Science, 2017, 357, 677-680.	6.0	147
6	Recent advances in PM6:Y6-based organic solar cells. Materials Chemistry Frontiers, 2021, 5, 3257-3280.	3.2	138
7	Recent Advances in Molecular Spintronics: Multifunctional Spintronic Devices. Advanced Materials, 2019, 31, e1805355.	11.1	96
8	Large-area, flexible imaging arrays constructed by light-charge organic memories. Scientific Reports, 2013, 3, 1080.	1.6	92
9	"dâ€Electron Complementationâ€Induced V o Phosphide for Efficient Overall Water Splitting. Advanced Energy Materials, 2021, 11, 2101758.	10.2	92
10	Improvements in Stability and Performance of <i>N,N′</i> â€Ðialkyl Perylene Diimideâ€Based nâ€Type Thinâ€F Transistors. Advanced Materials, 2009, 21, 1631-1635.	ilm 11.1	90
11	Diketopyrrolopyrrole-Based π-Conjugated Copolymer Containing β-Unsubstituted Quintetthiophene Unit: A Promising Material Exhibiting High Hole-Mobility for Organic Thin-Film Transistors. Chemistry of Materials, 2012, 24, 4350-4356.	3.2	85
12	Molecular Engineering of Dâ^'ï€â€"A Copolymers Based on 4,8-Bis(4-chlorothiophen-2-yl)benzo[1,2- <i>b</i> :4,5- <i>b</i> à€²]dithiophene (BDT-T-Cl) for High-Performance Fullerene-Free Organic Solar Cells. Macromolecules, 2019, 52, 6227-6233.	2.2	83
13	Active Morphology Control for Concomitant Long Distance Spin Transport and Photoresponse in a Single Organic Device. Advanced Materials, 2016, 28, 2609-2615.	11.1	77
14	Room-temperature air-stable spin transport in bathocuproine-based spin valves. Nature Communications, 2013, 4, .	5.8	74
15	Interfacial Heterogeneity of Surface Energy in Organic Fieldâ€Effect Transistors. Advanced Materials, 2011, 23, 1009-1014.	11.1	60
16	Quinoxaline-Containing Nonfullerene Small-Molecule Acceptors with a Linear A ₂ -A ₁ -D-A ₁ -A ₂ Skeleton for Poly(3-hexylthiophene)-Based Organic Solar Cells. ACS Applied Materials & Interfaces, 2018, 10, 10254-10261	4.0	60
17	Singleâ€Crystal Microribbons of an Indolo[3,2â€≺i>b]carbazole Derivative by Solutionâ€Phase Selfâ€Assembly with Novel Mechanical, Electrical, and Optical Properties. Advanced Materials, 2008, 20, 4835-4839.	11.1	58
18	Gateâ€Controlled Energy Barrier at a Graphene/Molecular Semiconductor Junction. Advanced Functional Materials, 2015, 25, 2972-2979.	7.8	58

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19	Morphology Optimization for the Fabrication of High Mobility Thinâ€Film Transistors. Advanced Materials, 2011, 23, 3128-3133.	11.1	55
20	Solventâ€Assisted Reâ€annealing of Polymer Films for Solutionâ€Processable Organic Fieldâ€Effect Transistors. Advanced Materials, 2010, 22, 1273-1277.	11.1	54
21	Field dependent and high light sensitive organic phototransistors based on linear asymmetric organic semiconductor. Applied Physics Letters, 2009, 94, 143303.	1.5	48
22	Topâ€Gate Organic Thinâ€Film Transistors Constructed by a General Lamination Approach. Advanced Materials, 2010, 22, 3537-3541.	11.1	47
23	18.4% efficiency achieved by the cathode interface engineering in non-fullerene polymer solar cells. Nano Today, 2021, 41, 101289.	6.2	47
24	Spin Transport in Organic Molecules. Frontiers in Chemistry, 2019, 7, 428.	1.8	44
25	How reliable are Hanle measurements in metals in a three-terminal geometry?. Applied Physics Letters, 2013, 102, .	1.5	43
26	Side chain engineering of quinoxaline-based small molecular nonfullerene acceptors for high-performance poly(3-hexylthiophene)-based organic solar cells. Science China Chemistry, 2020, 63, 254-264.	4.2	42
27	Determination of energy level alignment at metal/molecule interfaces by in-device electrical spectroscopy. Nature Communications, 2014, 5, 4161.	5.8	40
28	Effects of Oxygen Atoms Introduced at Different Positions of Non-Fullerene Acceptors in the Performance of Organic Solar Cells with Poly(3-hexylthiophene). ACS Applied Materials & Interfaces, 2020, 12, 1094-1102.	4.0	39
29	Energy Level Alignment at Metal/Solutionâ€Processed Organic Semiconductor Interfaces. Advanced Materials, 2017, 29, 1606901.	11.1	37
30	Constructing Highâ€Performance All‣mallâ€Molecule Ternary Solar Cells with the Same Third Component but Different Mechanisms for Fullerene and Nonâ€fullerene Systems. Advanced Energy Materials, 2019, 9, 1900190.	10.2	37
31	Effect of dielectric layers on device stability of pentacene-based field-effect transistors. Physical Chemistry Chemical Physics, 2009, 11, 7268.	1.3	34
32	Flexible semi-transparent organic spin valve based on bathocuproine. Applied Physics Letters, 2014, 105,	1.5	33
33	A Fe–Ni ₅ P ₄ /Fe–Ni ₂ P heterojunction electrocatalyst for highly efficient solar-to-hydrogen generation. Journal of Materials Chemistry A, 2021, 9, 1221-1229.	5.2	33
34	Novel Butterfly-Shaped Fused Heteroacenes: Synthesis, Properties, and Device Performance of Solution-Processed Field-Effect Transistors. Organic Letters, 2012, 14, 4382-4385.	2.4	32
35	Regioregular narrow bandgap copolymer with strong aggregation ability for high-performance semitransparent photovoltaics. Nano Energy, 2021, 86, 106098.	8.2	31
36	Spin doping using transition metal phthalocyanine molecules. Nature Communications, 2016, 7, 13751.	5.8	30

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37	Modulating the Symmetry of Benzodithiophene by Molecular Tailoring for the Application in Naphthalene Diimideâ€Based Nâ€Type Photovoltaic Polymers. Solar Rrl, 2018, 2, 1700230.	3.1	28
38	The effect of alkyl chain branching positions on the electron mobility and photovoltaic performance of naphthodithiophene diimide (NDTI)-based polymers. Science China Chemistry, 2019, 62, 1649-1655.	4.2	28
39	The Application of Organic Semiconductor Materials in Spintronics. Frontiers in Chemistry, 2020, 8, 589207.	1.8	28
40	An electron-conducting pyrene-fused phenazinothiadiazole. Chemical Communications, 2015, 51, 10754-10757.	2.2	27
41	Nitrogen-doping induces tunable magnetism in ReS2. Npj 2D Materials and Applications, 2018, 2, .	3.9	27
42	"Carbohydrate-Universal―electrolyzer for energy-saving hydrogen production with Co3FePx@NF as bifunctional electrocatalysts. Applied Catalysis B: Environmental, 2020, 263, 118109.	10.8	27
43	Hexathienoacene: Synthesis, Characterization, and Thinâ€Film Transistors. Chemistry - an Asian Journal, 2010, 5, 1550-1554.	1.7	24
44	Bisthiadiazole-Fused Tetraazapentacenequinone: An Air-Stable Solution-Processable n-Type Organic Semiconductor. Organic Letters, 2015, 17, 5902-5905.	2.4	24
45	Organic solar cells based on small molecule donor and polymer acceptor. Chinese Chemical Letters, 2022, 33, 123-132.	4.8	20
46	Synthesis and characterization of phenanthrocarbazole–diketopyrrolopyrrole copolymer for highâ€performance fieldâ€effect transistors. Journal of Polymer Science Part A, 2013, 51, 2208-2215.	2.5	18
47	Bis(triisopropylsilylethynyl)-substituted pyrene-fused tetraazaheptacene: synthesis and properties. Physical Chemistry Chemical Physics, 2016, 18, 11616-11619.	1.3	18
48	Selective Crystallization of Organic Semiconductors for High Performance Organic Field-Effect Transistors. Chemistry of Materials, 2009, 21, 4873-4879.	3.2	16
49	The prospects of organic semiconductor single crystals for spintronic applications. Journal of Materials Chemistry C, 2022, 10, 2507-2515.	2.7	14
50	Novel nanofiber-enhanced SPEEK proton-exchange membranes with high conductivity and stability. Polymer, 2020, 210, 123016.	1.8	12
51	Linking polythiophene chains with vinyleneâ€bridges: A way to improve charge transport in polymer fieldâ€effect transistors. Journal of Polymer Science Part A, 2009, 47, 1381-1392.	2.5	11
52	Flexible semi-transparent organic transistors and circuits based on easily prepared polyphenyleneoxide dielectric. Organic Electronics, 2019, 69, 308-312.	1.4	11
53	Frequency driven inversion of tunnel magnetoimpedance and observation of positive tunnel magnetocapacitance in magnetic tunnel junctions. Applied Physics Letters, 2016, 109, 052401.	1.5	10
54	Enhancing the performances of all-small-molecule ternary organic solar cells via achieving optimized morphology and 3D charge pathways. Chinese Chemical Letters, 2021, 32, 2904-2908.	4.8	10

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55	Preparation and assessment of reliable organic spin valves. Organic Electronics, 2021, 99, 106311.	1.4	9
56	Reliable determination of the Cu/n-Si Schottky barrier height by using in-device hot-electron spectroscopy. Applied Physics Letters, 2015, 107, .	1.5	8
57	Advantage of arch-shaped structure on transistor performances over linear-shaped structure in dibenzothienopyrrole semiconductors. Organic Electronics, 2018, 61, 78-86.	1.4	8
58	Organic Semiconductors for Room-Temperature Spin Valves. , 2022, 4, 805-814.		8
59	Quantitative Analysis of the Role of the First Layer in p―and nâ€Type Organic Fieldâ€Effect Transistors with Graphene Electrodes. Advanced Materials, 2012, 24, 1471-1475.	11.1	7
60	Charge carrier mobility and electronic properties of Al(Op)3: impact of excimer formation. Beilstein Journal of Nanotechnology, 2015, 6, 1107-1115.	1.5	7
61	Synthesis and Characterization of a 2,4,6â€Tri(2â€thienyl)pyridineâ€Based Conjugated Polymer for OFET Applications. Macromolecular Chemistry and Physics, 2012, 213, 917-923.	1.1	4

62 "dâ€Electron Complementationâ€Induced Vâ€Co Phosphide for Efficient Overall Water Splitting (Adv.) Tj ETQq000 rgBT/Overlock

63	Hot electron spectroscopy: A novel method to study molecular semiconductor. Organic Electronics, 2021, 94, 106164.	1.4	3
64	Electron-deficient TVT unit-based D–A polymer donor for high-efficiency thick-film OSCs. Nanotechnology, 2022, 33, 065401.	1.3	3
65	A novel energy level detector for molecular semiconductors. Physical Chemistry Chemical Physics, 2022, 24, 2717-2728.	1.3	2
66	Spintronic study based on molecular spin valves. Chinese Science Bulletin, 2018, 63, 3689-3696.	0.4	1
67	Ethylenediamine-Functionalized Carbon Nanotubes and Nylon-6 Composites. Advanced Materials Research, 2011, 287-290, 462-466.	0.3	0
68	Organic Thin-Film Transistors: Interfacial Heterogeneity of Surface Energy in Organic Field-Effect Transistors (Adv. Mater. 8/2011). Advanced Materials, 2011, 23, 1008-1008.	11.1	0