

# Yuan-Yuan Hu

## List of Publications by Citations

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98  
papers

2,348  
citations

26  
h-index

45  
g-index

107  
ext. papers

2,892  
ext. citations

9.2  
avg, IF

5.53  
L-index

#	Paper	IF	Citations
98	Ultrathin film organic transistors: precise control of semiconductor thickness via spin-coating. <i>Advanced Materials</i> , <b>2013</b> , 25, 1401-7	24	187
97	Inert C-H Bond Transformations Enabled by Organometallic Manganese Catalysis. <i>Accounts of Chemical Research</i> , <b>2018</b> , 51, 816-827	24.3	181
96	Impact of Monovalent Cation Halide Additives on the Structural and Optoelectronic Properties of CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> Perovskite. <i>Advanced Energy Materials</i> , <b>2016</b> , 6, 1502472	21.8	171
95	Manganese-Catalyzed Direct Nucleophilic C(sp <sup>2</sup> )-H Addition to Aldehydes and Nitriles. <i>Angewandte Chemie - International Edition</i> , <b>2015</b> , 54, 13659-63	16.4	164
94	Remarkable enhancement of charge carrier mobility of conjugated polymer field-effect transistors upon incorporating an ionic additive. <i>Science Advances</i> , <b>2016</b> , 2, e1600076	14.3	115
93	Bottom-up growth of n-type monolayer molecular crystals on polymeric substrate for optoelectronic device applications. <i>Nature Communications</i> , <b>2018</b> , 9, 2933	17.4	88
92	Aromatic C-H addition of ketones to imines enabled by manganese catalysis. <i>Nature Communications</i> , <b>2017</b> , 8, 1169	17.4	72
91	Manganese-catalyzed bicyclic annulations of imines and $\alpha$ -unsaturated esters via C-H activation. <i>Science China Chemistry</i> , <b>2016</b> , 59, 1301-1305	7.9	71
90	Liver Toxicity of Cadmium Telluride Quantum Dots (CdTe QDs) Due to Oxidative Stress in Vitro and in Vivo. <i>International Journal of Molecular Sciences</i> , <b>2015</b> , 16, 23279-99	6.3	70
89	Manganese-Catalyzed Direct Nucleophilic C(sp <sup>2</sup> )-H Addition to Aldehydes and Nitriles. <i>Angewandte Chemie</i> , <b>2015</b> , 127, 13863-13867	3.6	66
88	Investigation of Electrode Electrochemical Reactions in CH <sub>3</sub> NH <sub>3</sub> PbBr Perovskite Single-Crystal Field-Effect Transistors. <i>Advanced Materials</i> , <b>2019</b> , 31, e1902618	24	48
87	Manganese-Catalyzed Redox-Neutral C-H Olefination of Ketones with Unactivated Alkenes. <i>Angewandte Chemie - International Edition</i> , <b>2018</b> , 57, 12071-12075	16.4	44
86	Doping Polymer Semiconductors by Organic Salts: Toward High-Performance Solution-Processed Organic Field-Effect Transistors. <i>ACS Nano</i> , <b>2018</b> , 12, 3938-3946	16.7	40
85	Self-powered high-sensitivity sensory memory actuated by triboelectric sensory receptor for real-time neuromorphic computing. <i>Nano Energy</i> , <b>2020</b> , 75, 104930	17.1	38
84	Relieving the Photosensitivity of Organic Field-Effect Transistors. <i>Advanced Materials</i> , <b>2020</b> , 32, e19061224	24	34
83	Self-powered artificial auditory pathway for intelligent neuromorphic computing and sound detection. <i>Nano Energy</i> , <b>2020</b> , 78, 105403	17.1	34
82	Artificial multisensory integration nervous system with haptic and iconic perception behaviors. <i>Nano Energy</i> , <b>2021</b> , 85, 106000	17.1	31

81	Scanning Kelvin Probe Microscopy Investigation of the Role of Minority Carriers on the Switching Characteristics of Organic Field-Effect Transistors. <i>Advanced Materials</i> , <b>2016</b> , 28, 4713-9	24	30
80	Controllable growth of C8-BTBT single crystalline microribbon arrays by a limited solvent vapor-assisted crystallization (LSVC) method. <i>Journal of Materials Chemistry C</i> , <b>2018</b> , 6, 2419-2423	7.1	29
79	Influence of different dielectrics on the first layer grain sizes and its effect on the mobility of pentacene-based thin-film transistors. <i>Applied Physics Letters</i> , <b>2010</b> , 96, 133311	3.4	29
78	Rational Design of a Narrow-Bandgap Conjugated Polymer Using the Quinoidal Thieno[3,2-b]thiophene-Based Building Block for Organic Field-Effect Transistor Applications. <i>Macromolecules</i> , <b>2019</b> , 52, 4749-4756	5.5	28
77	2D Ruddlesden-Popper Perovskite Single Crystal Field-Effect Transistors. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2005662	15.6	28
76	Selective 1,2-Aryl-Aminoalkylation of Alkenes Enabled by Metallaphotoredox Catalysis. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 17910-17916	16.4	27
75	Systemic and immunotoxicity of pristine and PEGylated multi-walled carbon nanotubes in an intravenous 28 days repeated dose toxicity study. <i>International Journal of Nanomedicine</i> , <b>2017</b> , 12, 1539-1554	7.3	27
74	Fabrication of ultra-flexible, ultra-thin organic field-effect transistors and circuits by a peeling-off method. <i>Journal of Materials Chemistry C</i> , <b>2014</b> , 2, 1260-1263	7.1	26
73	Nanoscale channel organic ferroelectric synaptic transistor array for high recognition accuracy neuromorphic computing. <i>Nano Energy</i> , <b>2021</b> , 85, 106010	17.1	26
72	Hydrogelation and Crystallization of Sodium Deoxycholate Controlled by Organic Acids. <i>Langmuir</i> , <b>2016</b> , 32, 1502-9	4	25
71	Doping High-Mobility Donor-Acceptor Copolymer Semiconductors with an Organic Salt for High-Performance Thermoelectric Materials. <i>Advanced Electronic Materials</i> , <b>2020</b> , 6, 1900945	6.4	22
70	Realizing low-voltage operating crystalline monolayer organic field-effect transistors with a low contact resistance. <i>Journal of Materials Chemistry C</i> , <b>2019</b> , 7, 3436-3442	7.1	21
69	Association between BMP4 rs17563 polymorphism and NSCL/P risk: a meta-analysis. <i>Disease Markers</i> , <b>2015</b> , 2015, 763090	3.2	20
68	Sub-5 nm single crystalline organic p-n heterojunctions. <i>Nature Communications</i> , <b>2021</b> , 12, 2774	17.4	20
67	Hydrogels Based on Ag <sup>+</sup> -Modulated Assembly of 5Radenosine Monophosphate for Enriching Biomolecules. <i>Chemistry - A European Journal</i> , <b>2017</b> , 23, 15721-15728	4.8	19
66	Narrow-Bandgap Single-Component Polymer Solar Cells with Approaching 9% Efficiency. <i>Advanced Materials</i> , <b>2021</b> , 33, e2101295	24	19
65	Fine-tuning the diradical character of molecular systems via the heteroatom effect. <i>Chemical Communications</i> , <b>2020</b> , 56, 1405-1408	5.8	18
64	Comparing the Gate Dependence of Contact Resistance and Channel Resistance in Organic Field-Effect Transistors for Understanding the Mobility Overestimation Issue. <i>IEEE Electron Device Letters</i> , <b>2018</b> , 39, 421-423	4.4	17

63	Recent developments in fabrication and performance of metal halide perovskite field-effect transistors. <i>Journal of Materials Chemistry C</i> , <b>2020</b> , 8, 16691-16715	7.1	17
62	Nitrogen analogues of Chichibabin $\beta$ and Miller $\beta$ hydrocarbons with small singlet-triplet energy gaps. <i>Chemical Communications</i> , <b>2019</b> , 55, 7812-7815	5.8	16
61	A new V-shaped triphenylamine/diketopyrrolopyrrole containing donor material for small molecule organic solar cells. <i>RSC Advances</i> , <b>2015</b> , 5, 68192-68199	3.7	16
60	Manganese-Catalyzed Redox-Neutral C $\equiv$ C Olefination of Ketones with Unactivated Alkenes. <i>Angewandte Chemie</i> , <b>2018</b> , 130, 12247-12251	3.6	16
59	Single Crystal Microwires of p-DTS(FBTTh $_2$ ) $_2$ and Their Use in the Fabrication of Field-Effect Transistors and Photodetectors. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1702073	15.6	16
58	Effect of molecular asymmetry on the charge transport physics of high mobility n-type molecular semiconductors investigated by scanning Kelvin probe microscopy. <i>ACS Nano</i> , <b>2014</b> , 8, 6778-87	16.7	15
57	Flexible Monolayer Molecular Crystal-Field Effect Transistors for Ultrasensitive and Selective Detection of Dimethoate. <i>Advanced Electronic Materials</i> , <b>2020</b> , 6, 2000579	6.4	15
56	Pt complex-based terpolymer acceptors linked through ancillary ligand for all-polymer solar cells. <i>Journal of Materials Chemistry C</i> , <b>2018</b> , 6, 9903-9913	7.1	14
55	Traps in metal halide perovskites: characterization and passivation. <i>Nanoscale</i> , <b>2020</b> , 12, 22425-22451	7.7	14
54	Effect of Alkyl-Chain Length on Charge Transport Properties of Organic Semiconductors and Organic Field-Effect Transistors. <i>Advanced Electronic Materials</i> , <b>2018</b> , 4, 1800175	6.4	14
53	Ultrafine Au and Ag Nanoparticles Synthesized from Self-Assembled Peptide Fibers and Their Excellent Catalytic Activity. <i>ChemPhysChem</i> , <b>2016</b> , 17, 2157-63	3.2	13
52	Vesicle transition of catanionic redox-switchable surfactants controlled by DNA with different chain lengths. <i>Journal of Colloid and Interface Science</i> , <b>2019</b> , 549, 89-97	9.3	12
51	Effect of Backbone Fluorine and Chlorine Substitution on Charge-Transport Properties of Naphthalenediimide-Based Polymer Semiconductors. <i>Advanced Electronic Materials</i> , <b>2020</b> , 6, 1901241	6.4	12
50	Surfactant-regulated fabrication of gold nanostars in magnetic core/shell hybrid nanoparticles for controlled release of drug. <i>Journal of Colloid and Interface Science</i> , <b>2018</b> , 529, 547-555	9.3	12
49	Charge Transport Model Based on Single-Layered Grains and Grain Boundaries for Polycrystalline Pentacene Thin-Film Transistors. <i>Journal of Physical Chemistry C</i> , <b>2011</b> , 115, 23568-23573	3.8	12
48	Direct Observation of the Dipole-Induced Energetic Disorder in Rubrene Single-Crystal Transistors by Scanning Kelvin Probe Microscopy. <i>Journal of Physical Chemistry Letters</i> , <b>2018</b> , 9, 2869-2873	6.4	12
47	Understanding the Device Physics in Polymer-Based Ionic-Organic Ratchets. <i>Advanced Materials</i> , <b>2017</b> , 29, 1606464	24	11
46	Aggregation Behavior and Antioxidant Properties of Amphiphilic Fullerene C Derivatives Cofunctionalized with Cationic and Nonionic Hydrophilic Groups. <i>Langmuir</i> , <b>2019</b> , 35, 6939-6949	4	11

45	Low Bandgap Donor-Acceptor $\pi$ -Conjugated Polymers From Diarylcyclopentadienone-Fused Naphthalimides. <i>Frontiers in Chemistry</i> , <b>2019</b> , 7, 362	5	10
44	An ultra-low bandgap diketopyrrolopyrrole (DPP)-based polymer with balanced ambipolar charge transport for organic field-effect transistors. <i>RSC Advances</i> , <b>2016</b> , 6, 78720-78726	3.7	10
43	Understanding the enhancement of responsivity in perovskite/organic semiconductor bilayer-structured photodetectors. <i>Organic Electronics</i> , <b>2019</b> , 75, 105372	3.5	10
42	Comparing the individual effects of metformin and rosiglitazone and their combination in obese women with polycystic ovary syndrome: a randomized controlled trial. <i>Fertility and Sterility</i> , <b>2020</b> , 113, 197-204	4.8	10
41	Low-Cost Nucleophilic Organic Bases as n-Dopants for Organic Field-Effect Transistors and Thermoelectric Devices. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2102768	15.6	10
40	Chitosan gel incorporated peptide-modified AuNPs for sustained drug delivery with smart pH responsiveness. <i>Journal of Materials Chemistry B</i> , <b>2017</b> , 5, 1174-1181	7.3	9
39	Microfluidic solution-processed organic and perovskite nanowires fabricated for field-effect transistors and photodetectors. <i>Journal of Materials Chemistry C</i> , <b>2020</b> , 8, 2353-2362	7.1	9
38	Direct C-H arylation for various Ar-cored diketopyrrolopyrrole containing small molecules in solution-processed field-effect transistors. <i>RSC Advances</i> , <b>2016</b> , 6, 57163-57173	3.7	9
37	Magnetic networks of carbon quantum dots and Ag particles. <i>Journal of Colloid and Interface Science</i> , <b>2019</b> , 539, 203-213	9.3	9
36	The Importance of Contact Resistance in High-Mobility Organic Field-Effect Transistors Studied by Scanning Kelvin Probe Microscopy. <i>IEEE Electron Device Letters</i> , <b>2018</b> , 39, 276-279	4.4	8
35	Solution-Processed Ion-Free Organic Ratchets with Asymmetric Contacts. <i>Advanced Materials</i> , <b>2018</b> , 30, e1804794	24	8
34	Selective 1,2-Aryl-Aminoalkylation of Alkenes Enabled by Metallaphotoredox Catalysis. <i>Angewandte Chemie</i> , <b>2020</b> , 132, 18066-18072	3.6	7
33	Copper-catalyzed three-component cascade reaction of alkynes, sulfonyl azides and simple aldehydes/ketones. <i>Organic and Biomolecular Chemistry</i> , <b>2016</b> , 14, 3022-6	3.9	6
32	Effect of contact resistance in organic field-effect transistors. <i>Nano Select</i> , <b>2021</b> , 2, 1661-1681	3.1	6
31	Diagonally $\pi$ -Extended Perylene-Based Bis(heteroacene) for Chiroptical Activity and Integrating Luminescence with Carrier-Transporting Capability. <i>Organic Letters</i> , <b>2019</b> , 21, 1417-1421	6.2	6
30	Correlation of Molecular Structure and Charge Transport Properties: A Case Study in Naphthalenediimide-Based Copolymer Semiconductors. <i>Advanced Electronic Materials</i> , <b>2018</b> , 4, 1800203	6.4	6
29	Study of Total-Ionizing-Dose Effects on a Single-Event-Hardened Phase-Locked Loop. <i>IEEE Transactions on Nuclear Science</i> , <b>2018</b> , 65, 997-1004	1.7	5
28	Bi-mode electrolyte-gated synaptic transistor additional ion doping and its application to artificial nociceptors. <i>Materials Horizons</i> , <b>2021</b> , 8, 2797-2807	14.4	5

27	Dry Exfoliation of Large-Area 2D Monolayer and Heterostructure Arrays. <i>ACS Nano</i> , <b>2021</b> ,	16.7	5
26	Effect of Cationic Surfactants with Different Counterions on the Growth of Au Nanoclusters. <i>Langmuir</i> , <b>2018</b> , 34, 6138-6146	4	4
25	Realization of uniform large-area pentacene thin film transistor arrays by roller vacuum thermal evaporation. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , <b>2011</b> , 29, 041510	2.9	4
24	Pursuing High-Performance Organic Field-Effect Transistors through Organic Salt Doping. <i>Advanced Functional Materials</i> , 2111285	15.6	4
23	Manganese-Catalyzed Deoxygenative [3+2] Annulations of Ketones and Aldehydes via C <sub>H</sub> Activation. <i>CCS Chemistry</i> , <b>2021</b> , 3, 749-757	7.2	4
22	Solution-Processed CsPbBr Quantum Dots/Organic Semiconductor Planar Heterojunctions for High-Performance Photodetectors.. <i>Advanced Science</i> , <b>2022</b> , e2105856	13.6	4
21	Direct C-H arylation for small molecules composed of diketopyrrolopyrrole and benzothiadiazole as organic semiconductor materials. <i>Synthetic Metals</i> , <b>2019</b> , 250, 94-98	3.6	3
20	n-Type Ionic-Organic Electronic Ratchets for Energy Harvesting. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 1081-1087	9.5	3
19	An organic synaptic transistor with integration of memory and neuromorphic computing. <i>Journal of Materials Chemistry C</i> , <b>2021</b> , 9, 9972-9981	7.1	3
18	Ring-expansion approach towards extended asymmetric benzopentafulvalenes: overcrowded olefinic structure and chain length-dependent properties. <i>Organic Chemistry Frontiers</i> , <b>2020</b> , 7, 2247-2254	5.2	2
17	Design, Synthesis, and Properties of Conjugated Molecules with Isatin-Fused Acenaphthenequinone Imide Moieties. <i>Chinese Journal of Organic Chemistry</i> , <b>2020</b> , 40, 2919	3	2
16	Revealing Charge Transport and Device Operations of Organic Ambipolar Transistors and Inverters by Four-Probe Measurement. <i>Advanced Electronic Materials</i> , <b>2021</b> , 7, 2001134	6.4	2
15	Doped Vertical Organic Field-Effect Transistors Demonstrating Superior Bias-Stress Stability. <i>Small</i> , <b>2021</b> , 17, e2101325	11	2
14	Doping of Sn-based two-dimensional perovskite semiconductor for high-performance field-effect transistors and thermoelectric devices.. <i>IScience</i> , <b>2022</b> , 25, 104109	6.1	2
13	Tuning the Electrical Performance of 2D Perovskite Field-Effect Transistors by Forming Organic Semiconductor/Perovskite van der Waals Heterojunctions. <i>Advanced Electronic Materials</i> , 2200148	6.4	2
12	Low-voltage solution-processed artificial optoelectronic hybrid-integrated neuron based on 2D MXene for multi-task spiking neural network. <i>Nano Energy</i> , <b>2022</b> , 99, 107418	17.1	2
11	A compact LDMOS DDSCR for HV ESD protections with high robustness and reliability. <i>Solid-State Electronics</i> , <b>2019</b> , 161, 107640	1.7	1
10	NADPH oxidases regulate endothelial inflammatory injury induced by PM via AKT/eNOS/NO axis. <i>Journal of Applied Toxicology</i> , <b>2021</b> ,	4.1	1

9	Nonideal double-slope effect in organic field-effect transistors. <i>Frontiers of Physics</i> , <b>2021</b> , 16, 1	3.7	1
8	A facile reaction to access novel structural sulfonyl-hybridized imidazolyl ethanols as potential DNA-targeting antibacterial agents. <i>Bioorganic and Medicinal Chemistry Letters</i> , <b>2021</b> , 47, 128198	2.9	1
7	Self-assembled structural transition in L-Arg/H-AOT mixtures driven by double hydrogen bonding. <i>RSC Advances</i> , <b>2016</b> , 6, 47919-47925	3.7	0
6	Copper-Catalysed Electrophilic Amination of Aryl(alkenyl) Boronic Acids with Nitrogen-Containing Hypervalent Iodine (III) Reagent. <i>Advanced Synthesis and Catalysis</i> , <b>2021</b> , 363, 4701	5.6	0
5	Efficient p-doping of P3HT for hole transporting materials in perovskite solar cells. <i>Rare Metals</i> ,	5.5	0
4	Innenrücktitelbild: Manganese-Catalyzed Direct Nucleophilic C(sp <sup>2</sup> ) <sup>2</sup> H Addition to Aldehydes and Nitriles (Angew. Chem. 46/2015). <i>Angewandte Chemie</i> , <b>2015</b> , 127, 14027-14027	3.6	
3	Feasible organic thin-film deposition architecture for large-area organic electronics by roller vacuum thermal evaporation. <i>Applied Physics Letters</i> , <b>2011</b> , 99, 183304	3.4	
2	36.2: Invited Paper: Doing Organic Semiconductors for High-Performance Organic Field-Effect Transistors. <i>Digest of Technical Papers SID International Symposium</i> , <b>2019</b> , 50, 401-401	0.5	
1	36.2: Invited Paper: Efficient Doping of Organic Semiconductors for High-Performance Devices. <i>Digest of Technical Papers SID International Symposium</i> , <b>2021</b> , 52, 471-471	0.5	