

# Haibo Wang

## List of Publications by Citations

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77  
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h-index

50  
g-index

80  
ext. papers

2,845  
ext. citations

6.9  
avg, IF

4.8  
L-index

#	Paper	IF	Citations
77	Organic heterojunction and its application for double channel field-effect transistors. <i>Applied Physics Letters</i> , <b>2005</b> , 87, 093507	3.4	164
76	Weak Epitaxy Growth Affording High-Mobility Thin Films of Disk-Like Organic Semiconductors. <i>Advanced Materials</i> , <b>2007</b> , 19, 2168-2171	24	152
75	Engineering crystalline structures of two-dimensional MoS <sub>2</sub> sheets for high-performance organic solar cells. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 7727-7733	13	124
74	Organic heterostructures in organic field-effect transistors. <i>NPG Asia Materials</i> , <b>2010</b> , 2, 69-78	10.3	124
73	A high-performance room-temperature NO <sub>2</sub> sensor based on an ultrathin heterojunction film. <i>Advanced Materials</i> , <b>2013</b> , 25, 1755-60	24	116
72	Organic thin-film transistors in sandwich configuration. <i>Applied Physics Letters</i> , <b>2004</b> , 84, 142-144	3.4	115
71	Heterojunction Ambipolar Organic Transistors Fabricated by a Two-Step Vacuum-Deposition Process. <i>Advanced Functional Materials</i> , <b>2006</b> , 16, 824-830	15.6	113
70	High mobility vanadyl-phthalocyanine polycrystalline films for organic field-effect transistors. <i>Applied Physics Letters</i> , <b>2007</b> , 90, 253510	3.4	95
69	Efficient organic solar cells using a high-quality crystalline thin film as a donor layer. <i>Advanced Materials</i> , <b>2010</b> , 22, 1017-20	24	82
68	n-Channel, Ambipolar, and p-Channel Organic Heterojunction Transistors Fabricated with Various Film Morphologies. <i>Advanced Functional Materials</i> , <b>2007</b> , 17, 397-400	15.6	81
67	Organic photovoltaic cells with near infrared absorption spectrum. <i>Applied Physics Letters</i> , <b>2007</b> , 91, 253503	3.4	80
66	Phthalocyanato Tin(IV) Dichloride: An Air-Stable, High-Performance, n-Type Organic Semiconductor with a High Field-Effect Electron Mobility. <i>Advanced Materials</i> , <b>2008</b> , 20, 2142-2144	24	78
65	Organic heterojunction with reverse rectifying characteristics and its application in field-effect transistors. <i>Organic Electronics</i> , <b>2006</b> , 7, 369-374	3.5	78
64	Band-bending in organic semiconductors: the role of alkali-halide interlayers. <i>Advanced Materials</i> , <b>2014</b> , 26, 925-30	24	76
63	Ambipolar organic field-effect transistors with air stability, high mobility, and balanced transport. <i>Applied Physics Letters</i> , <b>2006</b> , 88, 133508	3.4	76
62	Air-stable ambipolar organic field-effect transistors based on phthalocyanine composites heterojunction. <i>Chemical Physics Letters</i> , <b>2005</b> , 407, 87-90	2.5	60
61	Fully Integrated Organic Nanocrystal Diode as High Performance Room Temperature NO <sub>2</sub> Sensor. <i>Advanced Materials</i> , <b>2016</b> , 28, 2971-7	24	49

60	Ultrathin-film growth of para-sexiphenyl (I): submonolayer thin-film growth as a function of the substrate temperature. <i>Journal of Physical Chemistry B</i> , <b>2008</b> , 112, 7816-20	3-4	48
59	Improved n-type organic transistors by introducing organic heterojunction buffer layer under source/drain electrodes. <i>Applied Physics Letters</i> , <b>2006</b> , 89, 053510	3-4	47
58	Electronic structure of interfaces between copper-hexadecafluoro-phthalocyanine and 2,5-bis(4-biphenyl) bithiophene. <i>Applied Physics Letters</i> , <b>2007</b> , 91, 142112	3-4	46
57	Ultrathin-film growth of para-sexiphenyl (II): formation of large-size domain and continuous thin film. <i>Journal of Physical Chemistry B</i> , <b>2008</b> , 112, 7821-5	3-4	42
56	Phthalocyanine Composites as High-Mobility Semiconductors for Organic Thin-Film Transistors. <i>Advanced Materials</i> , <b>2005</b> , 17, 1191-1193	24	39
55	Organic-inorganic heterojunction field-effect transistors. <i>Journal of Applied Physics</i> , <b>2010</b> , 107, 024510	2-5	36
54	Weak epitaxy growth of metal-free phthalocyanine on p-sexiphenyl monolayer and double-layer films. <i>Journal of Physical Chemistry B</i> , <b>2008</b> , 112, 3132-7	3-4	35
53	All-organic tunnel junctions as connecting units in tandem organic solar cell. <i>Journal of Applied Physics</i> , <b>2008</b> , 104, 114503	2-5	34
52	Room temperature nitrogen dioxide chemresistor using ultrathin vanadyl-phthalocyanine film as active layer. <i>Sensors and Actuators B: Chemical</i> , <b>2011</b> , 160, 115-120	8-5	30
51	Charge transport in accumulation layers of organic heterojunctions. <i>Applied Physics Letters</i> , <b>2008</b> , 93, 103308	3-4	30
50	High performance of rubrene thin film transistor by weak epitaxy growth method. <i>Organic Electronics</i> , <b>2015</b> , 20, 43-48	3-5	29
49	Organic photovoltaic cells using hexadecafluorophthalocyaninatocopper (F16CuPc) as electron acceptor material. <i>Chemical Physics Letters</i> , <b>2007</b> , 446, 329-332	2-5	29
48	Controllable organic nanofiber network crystal room temperature NO <sub>2</sub> sensor. <i>Organic Electronics</i> , <b>2013</b> , 14, 821-826	3-5	26
47	Simultaneous enhancement of charge transport and exciton diffusion in single-crystal-like organic semiconductors. <i>Applied Physics Letters</i> , <b>2012</b> , 100, 103305	3-4	26
46	Highly sensitive gas sensor enhanced by tuning the surface potential. <i>Organic Electronics</i> , <b>2011</b> , 12, 2230-2235	3-5	25
45	Surface potential images of polycrystalline organic semiconductors obtained by Kelvin probe force microscopy. <i>Applied Physics A: Materials Science and Processing</i> , <b>2009</b> , 95, 125-130	2-6	25
44	Vacuum-Deposited Submonolayer Thin Films of a Three-Ring Bent-Core Compound. <i>Journal of Physical Chemistry B</i> , <b>2004</b> , 108, 12921-12926	3-4	25
43	Organic tandem solar cell using active inter-connecting layer. <i>Organic Electronics</i> , <b>2012</b> , 13, 1018-1022	3-5	24

42	Heteroepitaxy growth high performance films of perylene diimide derivatives. <i>Organic Electronics</i> , <b>2010</b> , 11, 195-201	3.5	23
41	Ar <sup>+</sup> ArF Self-Assembly of Star-Shaped Second-Order Nonlinear Optical Chromophores Achieving Large Macroscopic Nonlinearities. <i>Advanced Electronic Materials</i> , <b>2017</b> , 3, 1700138	6.4	21
40	An organic quantum well based on high-quality crystalline heteroepitaxy films. <i>Advanced Materials</i> , <b>2014</b> , 26, 4582-7	24	21
39	<b>2010</b> ,		21
38	p-p isotype organic heterojunction and ambipolar field-effect transistors. <i>Applied Physics Letters</i> , <b>2008</b> , 93, 113303	3.4	20
37	Isotype heterojunction between organic crystalline semiconductors. <i>Applied Physics Letters</i> , <b>2008</b> , 93, 103307	3.4	20
36	Organic photovoltaic cell employing organic heterojunction as buffer layer. <i>Thin Solid Films</i> , <b>2008</b> , 516, 3320-3323	2.2	20
35	Effect of the work function of gate electrode on hysteresis characteristics of organic thin-film transistors with Ta <sub>2</sub> O <sub>5</sub> /polymer as gate insulator. <i>Organic Electronics</i> , <b>2009</b> , 10, 948-953	3.5	18
34	Crystalline organic superlattice. <i>Applied Physics Letters</i> , <b>2009</b> , 95, 203106	3.4	17
33	Benzothienobenzothiophene-based conjugated oligomers as semiconductors for stable organic thin-film transistors. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2014</b> , 6, 5255-62	9.5	16
32	Weak epitaxy growth and phase behavior of planar phthalocyanines on p-sexiphenyl monolayer film. <i>Journal of Physical Chemistry B</i> , <b>2008</b> , 112, 6786-92	3.4	16
31	Alternate heteroepitaxial growth of highly oriented organic multilayer films. <i>Journal of Physical Chemistry B</i> , <b>2014</b> , 118, 4212-9	3.4	14
30	Ambipolar organic heterojunction transistors with various p-type semiconductors. <i>Thin Solid Films</i> , <b>2008</b> , 516, 3270-3273	2.2	14
29	Electrical properties in vanadyl-phthalocyanine-based metal-insulator-semiconductor devices. <i>Applied Physics Letters</i> , <b>2007</b> , 91, 153508	3.4	14
28	Highly efficient crystalline organic light-emitting diodes. <i>Journal of Materials Chemistry C</i> , <b>2018</b> , 6, 8879-8884	9.8	13
27	Polymorphism and electronic properties of vanadyl-phthalocyanine films. <i>Organic Electronics</i> , <b>2014</b> , 15, 1586-1591	3.5	12
26	Organic High Electron Mobility Transistors Realized by 2D Electron Gas. <i>Advanced Materials</i> , <b>2017</b> , 29, 1702427	24	12
25	High-performance crystalline organic light-emitting diodes based on multi-layer high-quality crystals. <i>Organic Electronics</i> , <b>2019</b> , 64, 236-240	3.5	10

24	Interfacial electronic structure of copper hexadecafluorophthalocyanine and phthalocyanatotin (IV) dichloride studied by photoemission spectroscopy. <i>Applied Physics Letters</i> , <b>2010</b> , 96, 173303	3.4	9
23	Electron depletion and accumulation regions in n-type copper-hexadecafluoro-phthalocyanine and their effects on electronic properties. <i>Applied Physics Letters</i> , <b>2012</b> , 100, 103302	3.4	9
22	The effect of annealing treatment on performance of interdiffused organic photovoltaic devices. <i>Thin Solid Films</i> , <b>2008</b> , 516, 6487-6491	2.2	9
21	Relation between Interfacial Band-Bending and Electronic Properties in Organic Semiconductor Pentacene. <i>Advanced Electronic Materials</i> , <b>2017</b> , 3, 1700136	6.4	8
20	Switch-on transient behavior of vanadium phthalocyanine based organic transistors. <i>Applied Physics Letters</i> , <b>2007</b> , 91, 063511	3.4	8
19	Efficient organic photovoltaic cells with vertically ordered bulk heterojunctions. <i>Nanotechnology</i> , <b>2013</b> , 24, 484006	3.4	7
18	Highly Crystalline Films of Organic Small Molecules with Alkyl Chains Fabricated by Weak Epitaxy Growth. <i>Journal of Physical Chemistry B</i> , <b>2016</b> , 120, 4310-8	3.4	5
17	Improved One- and Multiple-Photon Excited Photoluminescence from Cd-Doped CsPbBr Perovskite NCs.. <i>Nanomaterials</i> , <b>2022</b> , 12,	5.4	5
16	Molybdenum disulfide loading on a Z-scheme graphitic carbon nitride and lanthanum nickelate heterojunction for enhanced photocatalysis: Interfacial charge transfer and mechanistic insights.. <i>Journal of Colloid and Interface Science</i> , <b>2021</b> , 611, 684-694	9.3	5
15	Solid solution phenomenon in the amorphous conjugated polymer:fullerene bulk heterojunction structure. <i>Organic Electronics</i> , <b>2018</b> , 62, 1-4	3.5	4
14	Organic quantum wells with multiple negative differential resistance peaks and its photoswitch effect. <i>Organic Electronics</i> , <b>2016</b> , 35, 24-32	3.5	2
13	Vertical Phase Separation Structure for High-Performance Organic Thin-Film Transistors: Mechanism, Optimization Strategy, and Large-Area Fabrication toward Flexible and Stretchable Electronics. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 202071	15.6	2
12	Zero drive load inverter with high gain and large noise margin based on organic weak epitaxy growth method. <i>Journal Physics D: Applied Physics</i> , <b>2020</b> , 53, 225101	3	1
11	Improve on/off ratio of organic heterojunction transistors by adopting single-sandwich configuration. <i>Solid-State Electronics</i> , <b>2011</b> , 61, 65-68	1.7	1
10	Dramatically improved electron transport performance by a deep triangular potential well in organic field-effect transistors. <i>Journal Physics D: Applied Physics</i> , <b>2020</b> , 53, 01LT01	3	1
9	High-efficiency ternary polymer solar cells employing the solid solution as the donor phase. <i>Organic Electronics</i> , <b>2018</b> , 63, 109-113	3.5	1
8	Electronic properties and degradation upon VUV irradiation of sodium chloride on Ag(111) studied by photoelectron spectroscopy. <i>Electronic Structure</i> , <b>2021</b> , 3, 034008	2.6	0
7	Organic Heterostructure in Electronic Devices <b>2010</b> , 1-6		

6 Interfacial Electronic Structure in Organic Semiconductor Heterojunctions **2010**, 87-123

5 Charge Transport in Organic Heterojunctions **2010**, 125-153

4 Organic Heterojunction Applications in Electronic Devices **2010**, 155-207

3 Weak Epitaxy Growth of Organic Semiconductor Thin Film **2010**, 7-85

2 Organic Heterojunction Semiconductors **2010**, 209-242

1 Intramolecular charge transfer dynamics in the excited states of diphenylamine substituted 1,3,4-oxadiazole derivatives. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2022**, 267, 120463 4.4