

# Tonghui Wang

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4802320/publications.pdf>

Version: 2024-02-01

19  
papers

1,386  
citations

516710

16  
h-index

839539

18  
g-index

19  
all docs

19  
docs citations

19  
times ranked

1813  
citing authors

#	ARTICLE	IF	CITATIONS
1	Quantitative relations between interaction parameter, miscibility and function in organic solar cells. <i>Nature Materials</i> , 2018, 17, 253-260.	27.5	556
2	Charge-transfer electronic states in Åorganic solar cells. <i>Nature Reviews Materials</i> , 2019, 4, 689-707.	48.7	229
3	Asymmetric electron acceptor enables highly luminescent organic solar cells with certified efficiency over 18%. <i>Nature Communications</i> , 2022, 13, 2598.	12.8	113
4	Computational Methodologies for Developing Structureâ€“Morphologyâ€“Performance Relationships in Organic Solar Cells: A Protocol Review. <i>Chemistry of Materials</i> , 2017, 29, 346-354.	6.7	61
5	Chargeâ€“Transfer States at Organicâ€“Organic Interfaces: Impact of Static and Dynamic Disorders. <i>Advanced Energy Materials</i> , 2019, 9, 1803926.	19.5	54
6	Impact of the Nature of the Sideâ€“Chains on the Polymerâ€“Fullerene Packing in the Mixed Regions of Bulk Heterojunction Solar Cells. <i>Advanced Functional Materials</i> , 2016, 26, 5913-5921.	14.9	45
7	Organic Photovoltaics: Relating Chemical Structure, Local Morphology, and Electronic Properties. <i>Trends in Chemistry</i> , 2020, 2, 535-554.	8.5	43
8	Organic Photovoltaics: Understanding the Preaggregation of Polymer Donors in Solution and Its Morphological Impact. <i>Journal of the American Chemical Society</i> , 2021, 143, 1822-1835.	13.7	39
9	Resolving Atomicâ€“Scale Interactions in Nonfullerene Acceptor Organic Solar Cells with Solidâ€“State NMR Spectroscopy, Crystallographic Modelling, and Molecular Dynamics Simulations. <i>Advanced Materials</i> , 2022, 34, e2105943.	21.0	36
10	Nature of the Binding Interactions between Conjugated Polymer Chains and Fullerenes in Bulk Heterojunction Organic Solar Cells. <i>Chemistry of Materials</i> , 2016, 28, 8181-8189.	6.7	34
11	Organic Solar Cells Based on Non-fullerene Small-Molecule Acceptors: Impact of Substituent Position. <i>Matter</i> , 2020, 2, 119-135.	10.0	32
12	Bulk Heterojunction Solar Cells: Impact of Minor Structural Modifications to the Polymer Backbone on the Polymerâ€“Fullerene Mixing and Packing and on the Fullereneâ€“Fullerene Connecting Network. <i>Advanced Functional Materials</i> , 2018, 28, 1705868.	14.9	30
13	Suppressing Energy Loss due to Triplet Exciton Formation in Organic Solar Cells: The Role of Chemical Structures and Molecular Packing. <i>Advanced Energy Materials</i> , 2017, 7, 1602713.	19.5	28
14	All-Polymer Solar Cells: Impact of the Length of the Branched Alkyl Side Chains on the Polymer Acceptors on the Interchain Packing and Electronic Properties in Amorphous Blends. <i>Chemistry of Materials</i> , 2019, 31, 6239-6248.	6.7	26
15	Impact of solution temperature-dependent aggregation on the solid-state packing and electronic properties of polymers for organic photovoltaics. <i>Journal of Materials Chemistry C</i> , 2018, 6, 13162-13170.	5.5	25
16	Nonfullerene Smallâ€“Molecule Acceptors for Organic Photovoltaics: Understanding the Impact of Methoxy Substitution Position on Molecular Packing and Electronâ€“Transfer Properties. <i>Advanced Functional Materials</i> , 2019, 29, 1806845.	14.9	22
17	Quantumâ€“Chemical Evaluation of Impact of Chlorination versus Fluorination on the Electronic Properties of Donors and Acceptors for Organic Solar Cells. <i>Advanced Theory and Simulations</i> , 2019, 2, 1900136.	2.8	10
18	Bulk Heterojunction Solar Cells: Insight into Ternary Blends from a Characterization of the Intermolecular Packing and Electronic Properties in the Corresponding Binary Blends. <i>Advanced Theory and Simulations</i> , 2020, 3, 2000049.	2.8	3

#	ARTICLE	IF	CITATIONS
19	Resolving atomic-scale interactions in non-fullerene acceptor organic solar cells by high-field NMR crystallography. , 0, , .		0