

# Dong Wang

## List of Publications by Year in Descending Order

**Source:** <https://exaly.com/author-pdf/2679072/dong-wang-publications-by-year.pdf>

**Version:** 2024-04-10

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

91 papers	5,445 citations	41 h-index	73 g-index
96 ext. papers	6,377 ext. citations	7.5 avg, IF	6.01 L-index

#	Paper	IF	Citations
91	Temperature-Responsive Self-Assembly of Single Polyoxometalates Clusters Driven by Hydrogen Bonds. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2103561	15.6	4
90	Aggregation-Induced Emission: A Rising Star in Chemistry and Materials Science. <i>Chinese Journal of Chemistry</i> , <b>2021</b> , 39, 677-689	4.9	24
89	Ferroelectricity in 2D metal phosphorus trichalcogenides and van der Waals heterostructures for photocatalytic water splitting. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 9, 2734-2741	13	8
88	Efficient fabrication of MoS <sub>2</sub> nanocomposites by water-assisted exfoliation for nonvolatile memories. <i>Green Chemistry</i> , <b>2021</b> , 23, 3642-3648	10	8
87	Janus luminogens with bended intramolecular charge transfer: Toward molecular transistor and brain imaging. <i>Matter</i> , <b>2021</b> ,	12.7	3
86	Metal-Free Magnetism in Chemically Doped Covalent Organic Frameworks. <i>Journal of the American Chemical Society</i> , <b>2020</b> , 142, 11013-11021	16.4	15
85	Fuller-Rylenes: Cross-Dimensional Molecular Carbons. <i>CCS Chemistry</i> , <b>2020</b> , 2, 271-279	7.2	14
84	Anticancer Polymers via the Biginelli Reaction. <i>ACS Macro Letters</i> , <b>2020</b> , 9, 1249-1254	6.6	8
83	Visible-light-switched electron transfer over single porphyrin-metal atom center for highly selective electroreduction of carbon dioxide. <i>Nature Communications</i> , <b>2019</b> , 10, 3844	17.4	66
82	High-Performance Organic Thermoelectric Materials: Theoretical Insights and Computational Design. <i>Advanced Electronic Materials</i> , <b>2019</b> , 5, 1800882	6.4	24
81	Reducing Lattice Thermal Conductivity of the Thermoelectric SnSe Monolayer: Role of Phonon-Electron Coupling. <i>Journal of Physical Chemistry C</i> , <b>2019</b> , 123, 12001-12006	3.8	11
80	Boosting the Seebeck Coefficient for Organic Coordination Polymers: Role of Doping-Induced Polaron Band Formation. <i>Journal of Physical Chemistry Letters</i> , <b>2019</b> , 10, 2493-2499	6.4	9
79	Unveiling the Layer-Dependent Catalytic Activity of PtSe Atomic Crystals for the Hydrogen Evolution Reaction. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 6977-6981	16.4	50
78	Unveiling the Layer-Dependent Catalytic Activity of PtSe <sub>2</sub> Atomic Crystals for the Hydrogen Evolution Reaction. <i>Angewandte Chemie</i> , <b>2019</b> , 131, 7051-7055	3.6	27
77	Charge control of fluorescent probes to selectively target the cell membrane or mitochondria: theoretical prediction and experimental validation. <i>Materials Horizons</i> , <b>2019</b> , 6, 2016-2023	14.4	21
76	Single molecule-mediated assembly of polyoxometalate single-cluster rings and their three-dimensional superstructures. <i>Science Advances</i> , <b>2019</b> , 5, eaax1081	14.3	35
75	Hydrogen Bonding-Induced Morphology Dependence of Long-Lived Organic Room-Temperature Phosphorescence: A Computational Study. <i>Journal of Physical Chemistry Letters</i> , <b>2019</b> , 10, 6948-6954	6.4	45

74	Pressure-induced emission enhancement in hexaphenylsilole: a computational study. <i>Journal of Materials Chemistry C</i> , <b>2019</b> , 7, 1388-1398	7.1	19
73	cis-C≡C Bond and Amide Regulated Oriented Supramolecular Assembly on Two-Dimensional Atomic Crystals. <i>Journal of Physical Chemistry C</i> , <b>2019</b> , 123, 30996-31002	3.8	1
72	Continuous synthesis of carbon dots with full spectrum fluorescence and the mechanism of their multiple color emission. <i>Lab on A Chip</i> , <b>2019</b> , 19, 3974-3978	7.2	16
71	MOlecular MAterials Property Prediction Package (MOMAP) 1.0: a software package for predicting the luminescent properties and mobility of organic functional materials. <i>Molecular Physics</i> , <b>2018</b> , 116, 1078-1090	1.7	110
70	Lattice thermal conductivity of monolayer AsP from first-principles molecular dynamics. <i>Physical Chemistry Chemical Physics</i> , <b>2018</b> , 20, 14024-14030	3.6	20
69	CsPbI <sub>3</sub> , All-Inorganic Two-Dimensional Ruddlesden-Popper Mixed Halide Perovskite with Optoelectronic Response. <i>Journal of the American Chemical Society</i> , <b>2018</b> , 140, 11085-11090	16.4	110
68	Theoretical Studies on the Deformation Potential, Electron-Phonon Coupling, and Carrier Transports of Layered Systems. <i>Wuli Huaxue Xuebao/Acta Physico-Chimica Sinica</i> , <b>2018</b> , 34, 961-976	3.8	13
67	Janus monolayer of WSeTe, a new structural phase transition material driven by electrostatic gating. <i>Nanoscale</i> , <b>2018</b> , 10, 21629-21633	7.7	41
66	Layer-Dependent Chemically Induced Phase Transition of Two-Dimensional MoS <sub>2</sub> . <i>Nano Letters</i> , <b>2018</b> , 18, 3435-3440	11.5	50
65	Doping optimization of organic-inorganic hybrid perovskite CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> for high thermoelectric efficiency. <i>Synthetic Metals</i> , <b>2017</b> , 225, 108-114	3.6	27
64	Theoretical Study of Conversion and Decay Processes of Excited Triplet and Singlet States in a Thermally Activated Delayed Fluorescence Molecule. <i>Journal of Physical Chemistry C</i> , <b>2017</b> , 121, 13448-13456	3.8	91
63	Suppression of the Charge Density Wave State in Two-Dimensional 1T-TiSe by Atmospheric Oxidation. <i>Angewandte Chemie - International Edition</i> , <b>2017</b> , 56, 8981-8985	16.4	27
62	Kinetics-Controlled Amphiphile Self-Assembly Processes. <i>Journal of Physical Chemistry Letters</i> , <b>2017</b> , 8, 1798-1803	6.4	14
61	Supramolecular catalyst functions in catalytic amount: cucurbit[8]uril accelerates the photodimerization of Brooker's merocyanine. <i>Chemical Science</i> , <b>2017</b> , 8, 8357-8361	9.4	60
60	Intrinsic Charge Transport in Stanene: Roles of Bucklings and Electron-Phonon Couplings. <i>Advanced Electronic Materials</i> , <b>2017</b> , 3, 1700143	6.4	38
59	Tuning Thermal Transport in Chain-Oriented Conducting Polymers for Enhanced Thermoelectric Efficiency: A Computational Study. <i>Advanced Functional Materials</i> , <b>2017</b> , 27, 1702847	15.6	41
58	Probing the crystallographic orientation of two-dimensional atomic crystals with supramolecular self-assembly. <i>Nature Communications</i> , <b>2017</b> , 8, 377	17.4	25
57	Puckered Arsenene: A Promising Room-Temperature Thermoelectric Material from First-Principles Prediction. <i>Journal of Physical Chemistry C</i> , <b>2017</b> , 121, 19080-19086	3.8	42

56	GeAs <sub>2</sub> : A IV-V Group Two-Dimensional Semiconductor with Ultralow Thermal Conductivity and High Thermoelectric Efficiency. <i>Chemistry of Materials</i> , <b>2017</b> , 29, 6261-6268	9.6	57
55	Strain induced polymorphism and band structure modulation in low-temperature 2,7-dioctyl[1]benzothieno[3,2-b][1]benzothiophene single crystal. <i>Science China Chemistry</i> , <b>2017</b> , 60, 275-283	7.9	3
54	Supramolecular organic nanofibers with highly efficient and stable visible light photooxidation performance. <i>Applied Catalysis B: Environmental</i> , <b>2017</b> , 202, 289-297	21.8	124
53	Intrinsic and Extrinsic Charge Transport in CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> Perovskites Predicted from First-Principles. <i>Scientific Reports</i> , <b>2016</b> , 7, 19968	4.9	103
52	Controlled orientation of perovskite films through mixed cations toward high performance perovskite solar cells. <i>Nano Energy</i> , <b>2016</b> , 27, 87-94	17.1	102
51	High thermoelectric performance from optimization of hole-doped CuInTe <sub>2</sub> . <i>Physical Chemistry Chemical Physics</i> , <b>2016</b> , 18, 5925-31	3.6	27
50	Influence of alkyl side-chain length on the carrier mobility in organic semiconductors: herringbone vs. $\pi$ - $\pi$ stacking. <i>Journal of Materials Chemistry C</i> , <b>2016</b> , 4, 4546-4555	7.1	64
49	Indirect-to-Direct Band Gap Crossover in Few-Layer Transition Metal Dichalcogenides: A Theoretical Prediction. <i>Journal of Physical Chemistry C</i> , <b>2016</b> , 120, 21866-21870	3.8	66
48	Self-assembling 1D core/shell microrods by the introduction of additives: a one-pot and shell-tunable method. <i>Chemical Science</i> , <b>2015</b> , 6, 4907-4911	9.4	8
47	Unravelling Doping Effects on PEDOT at the Molecular Level: From Geometry to Thermoelectric Transport Properties. <i>Journal of the American Chemical Society</i> , <b>2015</b> , 137, 12929-38	16.4	129
46	Electronic properties and charge carrier mobilities of graphynes and graphdiynes from first principles. <i>Wiley Interdisciplinary Reviews: Computational Molecular Science</i> , <b>2015</b> , 5, 215-227	7.9	34
45	Spectroscopic Signature of the Aggregation-Induced Emission Phenomena Caused by Restricted Nonradiative Decay: A Theoretical Proposal. <i>Journal of Physical Chemistry C</i> , <b>2015</b> , 119, 5040-5047	3.8	59
44	Few-quintuple BiTe <sub>2</sub> nanofilms as potential thermoelectric materials. <i>Scientific Reports</i> , <b>2015</b> , 5, 8099	4.9	41
43	Tunable Electronic Properties of Two-Dimensional Transition Metal Dichalcogenide Alloys: A First-Principles Prediction. <i>Journal of Physical Chemistry Letters</i> , <b>2014</b> , 5, 285-91	6.4	77
42	Aggregation induced blue-shifted emission--the molecular picture from a QM/MM study. <i>Physical Chemistry Chemical Physics</i> , <b>2014</b> , 16, 5545-52	3.6	138
41	Nonadiabatic Molecular Dynamics Modeling of the Intrachain Charge Transport in Conjugated Diketopyrrolo-pyrrole Polymers. <i>Journal of Physical Chemistry C</i> , <b>2014</b> , 118, 6631-6640	3.8	26
40	Electron-phonon couplings and carrier mobility in graphynes sheet calculated using the Wannier-interpolation approach. <i>Journal of Chemical Physics</i> , <b>2014</b> , 141, 034704	3.9	52
39	Aggregation effects on the optical emission of 1,1,2,3,4,5-hexaphenylsilole (HPS): a QM/MM study. <i>Journal of Physical Chemistry A</i> , <b>2014</b> , 118, 9094-104	2.8	92

38	Systematic analysis of reactivities and fragmentation of glutathione and its isomer GluCysGly. <i>Journal of Physical Chemistry A</i> , <b>2014</b> , 118, 8222-8	2.8	5
37	Search for Organic Thermoelectric Materials with High Mobility: The Case of 2,7-Dialkyl[1]benzothieno[3,2-b][1]benzothiophene Derivatives. <i>Chemistry of Materials</i> , <b>2014</b> , 26, 2669-2677	2.6	66
36	Understanding Lattice Strain-Controlled Charge Transport in Organic Semiconductors: A Computational Study. <i>Advanced Functional Materials</i> , <b>2014</b> , 24, 5531-5540	15.6	25
35	Computational evaluation of optoelectronic properties for organic/carbon materials. <i>Accounts of Chemical Research</i> , <b>2014</b> , 47, 3301-9	24.3	54
34	Substitution effects on the electrical transporting properties of tetrathia[22]annulene[2,1,2,1]: experimental and theoretical investigations. <i>Journal of Materials Chemistry C</i> , <b>2013</b> , 1, 5765	7.1	14
33	Tunable band gap photoluminescence from atomically thin transition-metal dichalcogenide alloys. <i>ACS Nano</i> , <b>2013</b> , 7, 4610-6	16.7	442
32	Carrier Mobility in Graphyne Should Be Even Larger than That in Graphene: A Theoretical Prediction. <i>Journal of Physical Chemistry Letters</i> , <b>2013</b> , 4, 1443-8	6.4	254
31	Coarse-grained molecular dynamics simulations of photoswitchable assembly and disassembly. <i>Nanoscale</i> , <b>2013</b> , 5, 3681-9	7.7	21
30	Anion-binding properties of $\pi$ -electron deficient cavities in bis(tetraoxacalix[2]arene[2]triazine): a theoretical study. <i>Journal of Physical Chemistry A</i> , <b>2013</b> , 117, 3844-51	2.8	12
29	Stretching single polymer chains of donor-acceptor foldamers: toward the quantitative study on the extent of folding. <i>Langmuir</i> , <b>2013</b> , 29, 14438-43	4	13
28	First-Principles Predictions of Thermoelectric Figure of Merit for Organic Materials: Deformation Potential Approximation. <i>Journal of Chemical Theory and Computation</i> , <b>2012</b> , 8, 3338-47	6.4	48
27	Modeling thermoelectric transport in organic materials. <i>Physical Chemistry Chemical Physics</i> , <b>2012</b> , 14, 16505-20	3.6	75
26	Theoretical insight into the aggregation induced emission phenomena of diphenyldibenzofulvene: a nonadiabatic molecular dynamics study. <i>Physical Chemistry Chemical Physics</i> , <b>2012</b> , 14, 14207-16	3.6	49
25	Molecular dynamics simulations of the supramolecular assembly between an azobenzene-containing surfactant and $\beta$ -cyclodextrin: role of photoisomerization. <i>Journal of Physical Chemistry B</i> , <b>2012</b> , 116, 823-32	3.4	40
24	First-principles prediction of charge mobility in carbon and organic nanomaterials. <i>Nanoscale</i> , <b>2012</b> , 4, 4348-69	7.7	412
23	Anisotropic Thermal Transport in Organic Molecular Crystals from Nonequilibrium Molecular Dynamics Simulations. <i>Journal of Physical Chemistry C</i> , <b>2011</b> , 115, 5940-5946	3.8	39
22	An improved dynamic Monte Carlo model coupled with Poisson equation to simulate the performance of organic photovoltaic devices. <i>Journal of Chemical Physics</i> , <b>2011</b> , 134, 124102	3.9	58
21	Electronic structure and carrier mobility in graphdiyne sheet and nanoribbons: theoretical predictions. <i>ACS Nano</i> , <b>2011</b> , 5, 2593-600	16.7	697

20	Computational characterization of organic photovoltaic devices. <i>Theoretical Chemistry Accounts</i> , <b>2011</b> , 129, 291-301	1.9	37
19	Water transport and purification in nanochannels controlled by asymmetric wettability. <i>Small</i> , <b>2011</b> , 7, 2225-31	11	61
18	Device simulation of low-band gap polymer solar cells: Influence of electron-hole pair dissociation and decay rates on open-circuit voltage. <i>Applied Physics Letters</i> , <b>2010</b> , 97, 143511	3.4	17
17	Communications: A nonperturbative quantum master equation approach to charge carrier transport in organic molecular crystals. <i>Journal of Chemical Physics</i> , <b>2010</b> , 132, 081101	3.9	35
16	Pyrolytic hydrocarbon growth from cyclopentadiene. <i>Journal of Physical Chemistry A</i> , <b>2010</b> , 114, 12411-62.8		41
15	The role of acoustic phonon scattering in charge transport in organic semiconductors: a first-principles deformation-potential study. <i>Science in China Series B: Chemistry</i> , <b>2009</b> , 52, 1646-1652		53
14	Proton transport pathway in the CLC Cl-/H+ antiporter. <i>Biophysical Journal</i> , <b>2009</b> , 97, 121-31	2.9	43
13	First-principles investigation of organic semiconductors for thermoelectric applications. <i>Journal of Chemical Physics</i> , <b>2009</b> , 131, 224704	3.9	58
12	Theoretical predictions of size-dependent carrier mobility and polarity in graphene. <i>Journal of the American Chemical Society</i> , <b>2009</b> , 131, 17728-9	16.4	247
11	Formation of naphthalene, indene, and benzene from cyclopentadiene pyrolysis: a DFT study. <i>Journal of Physical Chemistry A</i> , <b>2006</b> , 110, 4719-25	2.8	76
10	Radical-molecule reactions for aromatic growth: a case study for cyclopentadienyl and acenaphthylene. <i>Journal of Organic Chemistry</i> , <b>2006</b> , 71, 8365-71	4.2	24
9	Protein structure and dynamics from single-molecule fluorescence resonance energy transfer. <i>Journal of Physical Chemistry B</i> , <b>2005</b> , 109, 1626-34	3.4	17
8	High-resolution Fourier transform spectrum of the (4000) local mode overtone of GeH <sub>4</sub> : local mode effect. <i>Journal of Molecular Structure</i> , <b>2000</b> , 517-518, 41-51	3.4	17
7	Coriolis interaction in the local mode (n <sub>100</sub> ;F <sub>2</sub> ) combination states of GeH <sub>4</sub> . <i>Molecular Physics</i> , <b>2000</b> , 98, 1409-1413	1.7	2
6	An ab initio quartic force field of PH <sub>3</sub> . <i>Journal of Chemical Physics</i> , <b>2000</b> , 112, 9624-9631	3.9	39
5	Nonlinearity of the Dipole Moment Surface and Intensities Anomaly of CHCl <sub>3</sub> . <i>Chinese Physics Letters</i> , <b>2000</b> , 17, 13-15	1.8	7
4	High resolution spectroscopic study of CH <sub>3</sub> D in the region 5900-100 cm <sup>-1</sup> . <i>Molecular Physics</i> , <b>1999</b> , 97, 787-795	1.7	13
3	High-Resolution Infrared Spectrum of H <sub>3</sub> SiI in the ν <sub>1</sub> /ν <sub>4</sub> Region near 2200 cm <sup>-1</sup> . <i>Journal of Molecular Spectroscopy</i> , <b>1998</b> , 190, 240-7	1.3	4

- |   |  |       |
|---|--|-------|
| 2 | High resolution vibration-rotation spectra of the arsine local mode (110 A <sub>1</sub> /E) band. <i>Journal of the Chemical Society, Faraday Transactions</i> , <b>1998</b> , 94, 1397-1401 | 5     |
| 1 | Understanding the Temperature Dependence of the Seebeck Coefficient from First-Principles Band Structure Calculations for Organic Thermoelectric Materials. <i>CCS Chemistry</i> , 1477-1483 | 7.2 4 |