

# Dingyong Zhong

## List of Publications by Year in descending order

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88  
papers

4,525  
citations

109321

35  
h-index

102487

66  
g-index

91  
all docs

91  
docs citations

91  
times ranked

6405  
citing authors

#	ARTICLE	IF	CITATIONS
1	Interface passivation using ultrathin polymerâ€‘fullerene films for high-efficiency perovskite solar cells with negligible hysteresis. <i>Energy and Environmental Science</i> , 2017, 10, 1792-1800.	30.8	381
2	Linear Alkane Polymerization on a Gold Surface. <i>Science</i> , 2011, 334, 213-216.	12.6	321
3	Glaser Coupling at Metal Surfaces. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 4024-4028.	13.8	288
4	On-Surface Synthesis of Rylene-Type Graphene Nanoribbons. <i>Journal of the American Chemical Society</i> , 2015, 137, 4022-4025.	13.7	278
5	Electronic Structure of Spatially Aligned Graphene Nanoribbons on Au(788). <i>Physical Review Letters</i> , 2012, 108, 216801.	7.8	212
6	Efficient Indiumâ€‘Doped TiO <sub>2</sub> Electron Transport Layers for High-Performance Perovskite Solar Cells and Perovskiteâ€‘Silicon Tandems. <i>Advanced Energy Materials</i> , 2017, 7, 1601768.	19.5	167
7	Synthesis and Characterization of Hexapole [7]Helicene, A Circularly Twisted Chiral Nanographene. <i>Journal of the American Chemical Society</i> , 2018, 140, 4222-4226.	13.7	153
8	Graphene-like nanoribbons periodically embedded with four- and eight-membered rings. <i>Nature Communications</i> , 2017, 8, 14924.	12.8	139
9	Centimetre-scale perovskite solar cells with fill factors of more than 86 per cent. <i>Nature</i> , 2022, 601, 573-578.	27.8	137
10	Atomic Structures of CH <sub>3</sub> NH <sub>3</sub> Pb <sub>3</sub> (001) Surfaces. <i>ACS Nano</i> , 2016, 10, 1126-1131.	14.6	136
11	Mechanism Responsible for Initiating Carbon Nanotube Vacuum Breakdown. <i>Physical Review Letters</i> , 2004, 93, 075501.	7.8	123
12	Hydrogen storage in carbon nitride nanobells. <i>Applied Physics Letters</i> , 2001, 79, 1552-1554.	3.3	100
13	Universal field-emission model for carbon nanotubes on a metal tip. <i>Applied Physics Letters</i> , 2002, 80, 506-508.	3.3	96
14	Effect of Metal Surfaces in On-Surface Glaser Coupling. <i>Journal of Physical Chemistry C</i> , 2013, 117, 18595-18602.	3.1	95
15	Patterning of Conducting Polymers Based on a Random Copolymer Strategy: Toward the Facile Fabrication of Nanosensors Exclusively Based on Polymers. <i>Advanced Materials</i> , 2005, 17, 2736-2741.	21.0	90
16	Perovskite Solar Cells Employing Copper Phthalocyanine Hole-Transport Material with an Efficiency over 20% and Excellent Thermal Stability. <i>ACS Energy Letters</i> , 2018, 3, 2441-2448.	17.4	90
17	Lithium storage in polymerized carbon nitride nanobells. <i>Applied Physics Letters</i> , 2001, 79, 3500-3502.	3.3	79
18	Polymerized carbon nitride nanobells. <i>Journal of Applied Physics</i> , 2002, 91, 9324-9332.	2.5	75

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19	Photochemical Glaser Coupling at Metal Surfaces. <i>Journal of Physical Chemistry C</i> , 2014, 118, 6272-6277.	3.1	74
20	Large-scale well aligned carbon nitride nanotube films: Low temperature growth and electron field emission. <i>Journal of Applied Physics</i> , 2001, 89, 5939-5943.	2.5	72
21	Synthesis of SiC nanofibers by annealing carbon nanotubes covered with Si. <i>Chemical Physics Letters</i> , 2001, 348, 357-360.	2.6	70
22	Vacuum breakdown of carbon-nanotube field emitters on a silicon tip. <i>Applied Physics Letters</i> , 2003, 83, 2671-2673.	3.3	66
23	Surface Supported Gold-Organic Hybrids: On-Surface Synthesis and Surface Directed Orientation. <i>Small</i> , 2014, 10, 1361-1368.	10.0	62
24	Aqueous Solution Growth of Millimeter-Sized Nongreen-Luminescent Wide Bandgap Cs <sub>4</sub> PbBr <sub>6</sub> Bulk Crystal. <i>Crystal Growth and Design</i> , 2018, 18, 6393-6398.	3.0	59
25	Patterned Nucleation Control in Vacuum Deposition of Organic Molecules. <i>Physical Review Letters</i> , 2007, 98, 225504.	7.8	55
26	Single-layer CrI <sub>3</sub> grown by molecular beam epitaxy. <i>Science Bulletin</i> , 2020, 65, 1064-1071.	9.0	51
27	Atomically Thin 1T-FeCl <sub>2</sub> Grown by Molecular-Beam Epitaxy. <i>Journal of Physical Chemistry C</i> , 2020, 124, 9416-9423.	3.1	50
28	Optical emission spectroscopy study of the influence of nitrogen on carbon nanotube growth. <i>Carbon</i> , 2003, 41, 1827-1831.	10.3	48
29	Fabrication of Embedded Silver Nanowires on Arbitrary Substrates with Enhanced Stability via Chemisorbed Alkanethiolate. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 15130-15138.	8.0	40
30	Oligoethylene Chains Terminated by Ferrocenyl End Groups: Synthesis, Structural Properties, and Two-Dimensional Self-Assembly on Surfaces. <i>Chemistry - A European Journal</i> , 2006, 12, 1618-1628.	3.3	38
31	A Nanosized Molybdenum Oxide Wheel with a Unique Electronic Necklace Structure: STM Study with Submolecular Resolution. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 7018-7021.	13.8	37
32	Interface electronic properties of co-evaporated MAPbI <sub>3</sub> on ZnO(0001): <i>In situ</i> X-ray photoelectron spectroscopy and ultraviolet photoelectron spectroscopy study. <i>Applied Physics Letters</i> , 2016, 108, .	3.3	37
33	Surface-Assisted Alkane Polymerization: Investigation on Structure-Reactivity Relationship. <i>Journal of the American Chemical Society</i> , 2018, 140, 4820-4825.	13.7	37
34	Effect of interfacial recombination, bulk recombination and carrier mobility on the <i>J-V</i> hysteresis behaviors of perovskite solar cells: a drift-diffusion simulation study. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 17836-17845.	2.8	37
35	Surface-Mounted Molecular Rotors with Variable Functional Groups and Rotation Radii. <i>Nano Letters</i> , 2009, 9, 4387-4391.	9.1	36
36	Patterned growth of coiled carbon nanotubes by a template-assisted technique. <i>Applied Physics Letters</i> , 2003, 83, 4423-4425.	3.3	34

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37	On-Surface Synthesis of Linear Polyphenyl Wires Guided by Surface Steric Effect. <i>Journal of Physical Chemistry C</i> , 2016, 120, 6619-6624.	3.1	32
38	Multimorphism and gap opening of charge-density-wave phases in monolayer VTe <sub>2</sub> . <i>Nano Research</i> , 2020, 13, 1733-1738.	10.4	29
39	Tuning CuTCNQ Nanostructures on Patterned Copper Films. <i>Journal of Physical Chemistry C</i> , 2008, 112, 17625-17630.	3.1	28
40	Diverse Structures and Magnetic Properties in Nonlayered Monolayer Chromium Selenide. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 7752-7760.	4.6	28
41	Control over Patterning of Organic Semiconductors: Step-Edge-Induced Area-Selective Growth. <i>Advanced Materials</i> , 2009, 21, 4721-4725.	21.0	25
42	Investigation of Lithium Storage in Bamboo-like CNTs by HRTEM. <i>Journal of the Electrochemical Society</i> , 2003, 150, A1281.	2.9	24
43	Multilevel Supramolecular Architectures Self-Assembled on Metal Surfaces. <i>ACS Nano</i> , 2010, 4, 1997-2002.	14.6	24
44	Growth and interfacial structure of methylammonium lead iodide thin films on Au(111). <i>Surface Science</i> , 2017, 656, 17-23.	1.9	24
45	Improving the stability of methylammonium lead iodide perovskite solar cells by cesium doping. <i>Thin Solid Films</i> , 2018, 667, 40-47.	1.8	24
46	Anisotropic temperature-dependence of optical phonons in layered $\text{PbI}_2$ . <i>Journal of Raman Spectroscopy</i> , 2018, 49, 775-779.	2.5	23
47	GaN-filled carbon nanotubes: synthesis and photoluminescence. <i>Chemical Physics Letters</i> , 2003, 381, 715-719.	2.6	21
48	Ion-Specific Aggregation of Gold-DNA Nanoparticles Using the dG Quartet Hairpin 5'-d(G4T4G4). <i>Chemistry and Biodiversity</i> , 2005, 2, 84-91.	2.1	19
49	Temperature-tuned organic monolayer growth: N,N'-di(n-butyl)quinacridone on Ag(110). <i>Physical Review B</i> , 2006, 73, .	3.2	18
50	Kinetics of island formation in organic film growth. <i>Physical Review B</i> , 2008, 77, .	3.2	18
51	Manipulating Surface Diffusion Ability of Single Molecules by Scanning Tunneling Microscopy. <i>Nano Letters</i> , 2009, 9, 132-136.	9.1	17
52	Increased Efficiency for Perovskite Photovoltaics Based on Aluminum-Doped Zinc Oxide Transparent Electrodes via Surface Modification. <i>Journal of Physical Chemistry C</i> , 2017, 121, 10282-10288.	3.1	14
53	Thermally Induced Transformation of Nonhexagonal Carbon Rings in Graphene-like Nanoribbons. <i>Journal of Physical Chemistry C</i> , 2018, 122, 9586-9592.	3.1	14
54	Decarboxylation of Fatty Acids on Anisotropic Au(110) Surfaces. <i>Journal of Physical Chemistry C</i> , 2018, 122, 9075-9080.	3.1	14

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55	Towards large-area perovskite solar cells: the influence of compact and mesoporous TiO <sub>2</sub> electron transport layers. <i>Materials Research Express</i> , 2018, 5, 085506.	1.6	14
56	Imaging Vacancy Defects in Single-Layer Chromium Triiodide. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 2199-2205.	4.6	14
57	CNTs grown on the surface of various materials by large volume MP-CVD for VME applications. <i>Applied Surface Science</i> , 2003, 215, 209-213.	6.1	12
58	Oligoethylene-bridged diferrocene on Ag(110): Monolayer structures and adsorbate-induced faceting. <i>Physical Review B</i> , 2007, 76, .	3.2	12
59	Linear Alkane C≡C Bond Chemistry Mediated by Metal Surfaces. <i>ChemPhysChem</i> , 2015, 16, 1356-1360.	2.1	12
60	Structures and Stability of Ferrocene Derivative Monolayers on Ag(110): Scanning Tunneling Microscopy Study. <i>Journal of Physical Chemistry C</i> , 2007, 111, 12139-12144.	3.1	11
61	Band alignment of MAPb(I <sub>1-x</sub> Br <sub>x</sub> ) <sub>3</sub> thin films by vacuum deposition. <i>Applied Physics Letters</i> , 2016, 109, .	3.3	9
62	Scanning tunneling microscopy study of polymerized carbon nanobells: Electronic effect and evidence of nitrogen incorporation. <i>Physical Review B</i> , 2002, 66, .	3.2	8
63	Fabrication of carbon nanotube bundles and measurement of field electron emission properties. <i>Applied Physics A: Materials Science and Processing</i> , 2005, 80, 195-199.	2.3	8
64	Halogen-Free On-Surface Synthesis of Rylene-Type Graphene Nanoribbons. <i>Macromolecular Chemistry and Physics</i> , 2017, 218, 1700155.	2.2	8
65	First-Principles Study of Zinc Phthalocyanine Molecules Adsorbed on Methylammonium Lead Iodide Surfaces. <i>Journal of Physical Chemistry C</i> , 2020, 124, 5167-5173.	3.1	8
66	Sol-gel preparation of Sn doped gallium oxide films for application in solar-blind ultraviolet photodetectors. <i>Journal of Materials Science</i> , 2022, 57, 1186-1197.	3.7	8
67	Thymine and Adenine Tetrads Formed on Anisotropic Metal Surfaces. <i>Small</i> , 2014, 10, 265-270.	10.0	7
68	Building chessboard-like supramolecular structures on Au(111) surfaces. <i>Nanotechnology</i> , 2015, 26, 385601.	2.6	7
69	Linear Alkane Polymerization on Au-Covered Ag(110) Surfaces. <i>Journal of Physical Chemistry C</i> , 2018, 122, 24209-24214.	3.1	7
70	Ordered 1,6-bis(2-hydroxyphenyl) pyridine boron complex films grown on Ag(110): From submonolayer to multilayer. <i>Physical Review B</i> , 2005, 71, .	3.2	6
71	Tuning On-Surface Synthesis of Graphene Nanoribbons by Noncovalent Intermolecular Interactions. <i>Journal of Physical Chemistry C</i> , 2018, 122, 24415-24420.	3.1	6
72	Monolayer methylammonium lead iodide films deposited on Au(111). <i>Surface Science</i> , 2018, 675, 78-82.	1.9	5

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73	Adsorption of k on Au(110) and Ag(110) surfaces: A scanning tunneling microscopy and density functional theory study. <i>Surface Science</i> , 2019, 684, 18-23.	1.9	5
74	Electron- <sup>2</sup> Electron Interaction and Weak Antilocalization Effect in a Transition Metal Dichalcogenide Superconductor. <i>Physica Status Solidi - Rapid Research Letters</i> , 2022, 16, .	2.4	5
75	Epitaxial growth and electronic properties of an antiferromagnetic semiconducting $\text{Vl}_{2\text{I}}$ monolayer. <i>Nanoscale</i> , 2022, 14, 10559-10565.	5.6	5
76	GOLD DNA-CONJUGATES: ION SPECIFIC SELF-ASSEMBLY OF GOLD NANOPARTICLES VIA THE DG-QUARTET. <i>Nucleosides, Nucleotides and Nucleic Acids</i> , 2005, 24, 843-846.	1.1	4
77	Topological phase transition induced by magnetic proximity effect in two dimensions. <i>Journal of Physics Condensed Matter</i> , 2019, 31, 395502.	1.8	4
78	Upconversion single-microbelt photodetector via two-photon absorption simultaneous. <i>Journal Physics D: Applied Physics</i> , 2018, 51, 19LT01.	2.8	3
79	Inverted hysteresis in MAPbI <sub>3</sub> perovskite solar cells induced by presetting bias voltage. <i>Journal Physics D: Applied Physics</i> , 2019, 52, 315103.	2.8	3
80	On-surface synthesis of gold- <sup>2</sup> coronene molecular wires. <i>Chemical Communications</i> , 2020, 56, 11239-11242.	4.1	3
81	On-surface isostructural transformation from a hydrogen-bonded network to a coordination network for tuning the pore size and guest recognition. <i>Chemical Science</i> , 2021, 12, 1272-1277.	7.4	3
82	Quaternary molecules on Ag(111): self-assembly behavior and voltage pulse induced trimer formation. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 12217-12222.	2.8	2
83	Interfacial Electronic Properties and Adjustable Schottky Barrier at Graphene/CsPbI <sub>3</sub> van der Waals Heterostructures. <i>Physica Status Solidi - Rapid Research Letters</i> , 2021, 15, 2000555.	2.4	2
84	On-Surface Synthesis of 2D Porphyrin-Based Covalent Organic Frameworks Using Terminal Alkynes. <i>Chemistry of Materials</i> , 2021, 33, 8677-8684.	6.7	2
85	Linden <sup>2</sup> Reply:. <i>Physical Review Letters</i> , 2012, 109, .	7.8	1
86	Molecular Cloisonn <sup>2</sup> : Multicomponent Organic Alternating Nanostructures at Vicinal Surfaces with Tunable Length Scales. <i>Small</i> , 2012, 8, 535-540.	10.0	1
87	Single and Two-photon Absorption Single-microbelt Photodetector. , 2017, , .		0
88	Direct aryl-aryl coupling of pentacene on Au(110). <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 22155-22159.	2.8	0