

Tao Wang

List of Publications by Year in descending order

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papers

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430874

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all docs

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times ranked

880
citing authors

#	ARTICLE	IF	CITATIONS
1	On-Surface Pseudo-High-Dilution Synthesis of Macrocycles: Principle and Mechanism. ACS Nano, 2017, 11, 5070-5079.	14.6	83
2	Confined Synthesis of Organometallic Chains and Macrocycles by Cu ⁺ /O Surface Templating. ACS Nano, 2016, 10, 3747-3754.	14.6	73
3	Confined on-surface organic synthesis: Strategies and mechanisms. Surface Science Reports, 2019, 74, 97-140.	7.2	71
4	Kinetic Strategies for the Formation of Graphyne Nanowires via Sonogashira Coupling on Ag(111). Journal of the American Chemical Society, 2018, 140, 13421-13428.	13.7	68
5	Surface Adatom Mediated Structural Transformation in Bromoarene Monolayers: Precursor Phases in Surface Ullmann Reaction. ACS Nano, 2018, 12, 2267-2274.	14.6	49
6	Aza-Triangulene: On-Surface Synthesis and Electronic and Magnetic Properties. Journal of the American Chemical Society, 2022, 144, 4522-4529.	13.7	49
7	Highly Selective Synthesis of <i>cis</i> -Eneidyne on a Ag(111) Surface. Angewandte Chemie - International Edition, 2017, 56, 4762-4766.	13.8	42
8	Tribromobenzene on Cu(111): Temperature-dependent formation of halogen-bonded, organometallic, and covalent nanostructures. Journal of Chemical Physics, 2015, 142, 101906.	3.0	38
9	Chiral Kagome Lattices from On-Surface Synthesized Molecules. ChemPhysChem, 2017, 18, 3329-3333.	2.1	38
10	Unravelling the Mechanism of Glaser Coupling Reaction on Ag(111) and Cu(111) Surfaces: a Case for Halogen Substituted Terminal Alkyne. Journal of Physical Chemistry C, 2018, 122, 14537-14545.	3.1	38
11	The role of the substrate structure in the on-surface synthesis of organometallic and covalent oligophenylene chains. Physical Chemistry Chemical Physics, 2016, 18, 20627-20634.	2.8	32
12	Hungry Porphyrins: Protonation and Self-Metalation of Tetraphenylporphyrin on TiO ₂ (110). ChemistrySelect, 2016, 1, 6103-6105.	1.5	30
13	Magnetic Interactions Between Radical Pairs in Chiral Graphene Nanoribbons. Nano Letters, 2022, 22, 164-171.	9.1	29
14	Supramolecular Tessellations at Surfaces by Vertex Design. ACS Nano, 2019, 13, 10603-10611.	14.6	28
15	Reaction selectivity of homochiral versus heterochiral intermolecular reactions of prochiral terminal alkynes on surfaces. Nature Communications, 2019, 10, 4122.	12.8	27
16	Benzene Ring Knitting Achieved by Ambient-Temperature Dehalogenation via Mechanochemical Ullmann-Type Reductive Coupling. Advanced Materials, 2021, 33, e2008685.	21.0	27
17	On-Surface Synthesis of Armchair-Edged Graphene Nanoribbons with Zigzag Topology. Journal of Physical Chemistry C, 2020, 124, 5248-5256.	3.1	25
18	Chemical Stability of (3,1)-Chiral Graphene Nanoribbons. ACS Nano, 2021, 15, 5610-5617.	14.6	23

#	ARTICLE	IF	CITATIONS
19	Chemisorption-Induced Formation of Biphenylene Dimer on Ag(111). <i>Journal of the American Chemical Society</i> , 2022, 144, 723-732.	13.7	20
20	Selective synthesis of Kagome nanoporous graphene on Ag(111) <i>via</i> an organometallic template. <i>Nanoscale</i> , 2022, 14, 6239-6247.	5.6	16
21	Topology Selectivity in On-Surface Dehydrogenative Coupling Reaction: Dendritic Structure <i>versus</i> Porous Graphene Nanoribbon. <i>ACS Nano</i> , 2021, 15, 4617-4626.	14.6	15
22	Highly Selective Synthesis of <i>cis</i> -Eneidyne on a Ag(111) Surface. <i>Angewandte Chemie</i> , 2017, 129, 4840-4844.	2.0	13
23	Construction of molecular regular tessellations on a Cu(111) surface. <i>Chemical Communications</i> , 2018, 54, 7010-7013.	4.1	13
24	Kinetic Control over Morphology of Nanoporous Graphene on Surface. <i>ChemPhysChem</i> , 2019, 20, 2327-2332.	2.1	12
25	Stepwise Synthesis of N ⁺ -Ag ⁻ N and C ⁺ -Ag ⁻ C Organometallic Structures on a Ag(111) Surface. <i>Journal of Physical Chemistry C</i> , 2020, 124, 16415-16422.	3.1	10
26	On-surface synthesis of planar acenes <i>via</i> regioselective aryl ⁻ aryl coupling. <i>Chemical Communications</i> , 2020, 56, 4890-4893.	4.1	9
27	Chiral nanoporous networks featuring various chiral vertices from an achiral molecule on Ag(100). <i>Nano Research</i> , 2022, 15, 3753-3762.	10.4	7
28	Sequential Activation of Aromatic C ⁺ -H Bonds on Cu(111). <i>Journal of Physical Chemistry C</i> , 2022, 126, 5541-5549.	3.1	6
29	On-Surface Synthesis of a Five-Membered Carbon Ring from a Terminal Alkynyl Bromide: A [4 + 1] Annulation. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 5902-5907.	4.6	5
30	Challenges in the synthesis of corannulene-based non-planar nanographenes on Au(111) surfaces. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 10845-10851.	2.8	2