

# Controlling a Chemical Coupling Reaction on a Surface: On-Surface Synthesis

Chemical Reviews

119, 4717-4776

DOI: [10.1021/acs.chemrev.8b00601](https://doi.org/10.1021/acs.chemrev.8b00601)

Citation Report

#	ARTICLE	IF	CITATIONS
1	On-Surface Synthesis of Porous Carbon Nanoribbons on Silver: Reaction Kinetics and the Influence of the Surface Structure. <i>ChemPhysChem</i> , 2019, 20, 2333-2339.	1.0	13
2	Synthesis of Nanographenes, Starphenes, and Sterically Congested Polyarenes by Aryne Cyclotrimerization. <i>Accounts of Chemical Research</i> , 2019, 52, 2472-2481.	7.6	109
3	Two-Sidedness of Surface Reaction Mediation. <i>Advanced Materials</i> , 2019, 31, e1902080.	11.1	12
4	Controlling the stereospecific bonding motif of Au-thiolate links. <i>Nanoscale</i> , 2019, 11, 15567-15575.	2.8	7
5	On-Surface Synthesis of Antiaromatic and Open-Shell Indeno[2,1- <i>b</i> ]fluorene Polymers and Their Lateral Fusion into Porous Ribbons. <i>Journal of the American Chemical Society</i> , 2019, 141, 12346-12354.	6.6	71
6	Electric-Field-Mediated Reversible Transformation between Supramolecular Networks and Covalent Organic Frameworks. <i>Journal of the American Chemical Society</i> , 2019, 141, 11404-11408.	6.6	69
7	Hierarchy in the Halogen Activation During Surface-Promoted Ullmann Coupling. <i>ChemPhysChem</i> , 2019, 20, 2305-2310.	1.0	11
8	From Palladium to Gold Catalysis for the Synthesis of Crushed Fullerenes and Acenes. <i>Accounts of Chemical Research</i> , 2019, 52, 1812-1823.	7.6	27
9	One-Dimensional Double Wires and Two-Dimensional Mobile Grids: Cobalt/Bipyridine Coordination Networks at the Solid/Liquid Interface. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 4164-4169.	2.1	16
10	Electronic Structure of Heavy Halogen Atoms Adsorbed on the Cu(111) Surface: A Combined ARPES and First Principles Calculations Study. <i>Journal of Physical Chemistry C</i> , 2019, 123, 26309-26314.	1.5	3
11	Engineered electronic states in atomically precise artificial lattices and graphene nanoribbons. <i>Advances in Physics: X</i> , 2019, 4, 1651672.	1.5	33
12	Strain-Induced Isomerization in One-Dimensional Metal-Organic Chains. <i>Angewandte Chemie</i> , 2019, 131, 18764-18770.	1.6	19
13	Strain-Induced Isomerization in One-Dimensional Metal-Organic Chains. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 18591-18597.	7.2	37
14	Intermolecular coupling and intramolecular cyclization of aryl nitriles on Au(111). <i>Chemical Communications</i> , 2019, 55, 11611-11614.	2.2	6
15	Reaction selectivity of homochiral versus heterochiral intermolecular reactions of prochiral terminal alkynes on surfaces. <i>Nature Communications</i> , 2019, 10, 4122.	5.8	27
16	Step edge-mediated assembly of periodic arrays of long graphene nanoribbons on Au(111). <i>Chemical Communications</i> , 2019, 55, 11848-11851.	2.2	14
17	Influence of the molecular geometry on the formation of the self-assembled structures. <i>Journal of Molecular Liquids</i> , 2019, 294, 111627.	2.3	6
18	Persistent Homology to Quantify the Quality of Surface-Supported Covalent Networks. <i>ChemPhysChem</i> , 2019, 20, 2286-2291.	1.0	2

#	ARTICLE	IF	CITATIONS
19	On-Surface Photochemistry of Pre-Ordered 1-Methyl-2-phenylacetylenes: C-H Bond Activation and Intermolecular Coupling on Highly Oriented Pyrolytic Graphite. <i>ChemPhysChem</i> , 2019, 20, 2317-2321.	1.0	1
20	High-Resolution Scanning Probe Nanolithography of 2D Materials: Novel Nanostructures. <i>Advanced Materials Technologies</i> , 2019, 4, 1900181.	3.0	15
21	Kinetically Controlled Synthesis of Four- and Six-Member Cyclic Products via Sequential Aryl-Aryl Coupling on a Au(111) Surface. <i>ChemPhysChem</i> , 2019, 20, 2292-2296.	1.0	6
22	Covalent organic frameworks from a monomer with reduced symmetry: polymorphism and Sierpiński triangles. <i>Chemical Communications</i> , 2019, 55, 13586-13589.	2.2	17
23	Hydrogen bond guided synthesis of close-packed one-dimensional graphdiyne on the Ag(111) surface. <i>Chemical Science</i> , 2019, 10, 10849-10852.	3.7	10
24	Design and construction of on-surface molecular nanoarchitectures: lessons and trends from trimesic acid and other small carboxylated building blocks. <i>Journal Physics D: Applied Physics</i> , 2020, 53, 043002.	1.3	32
25	On-Surface Synthesis and Characterization of Triply Fused Porphyrin-Graphene Nanoribbon Hybrids. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 1334-1339.	7.2	47
26	Direct observation of the geometric isomer selectivity of a reaction controlled <i>via</i> adsorbed bromine. <i>Nanoscale</i> , 2020, 12, 2726-2731.	2.8	11
27	Triangulenes: From Precursor Design to On-Surface Synthesis and Characterization. <i>Angewandte Chemie</i> , 2020, 132, 7730-7740.	1.6	18
28	Triangulenes: From Precursor Design to On-Surface Synthesis and Characterization. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 7658-7668.	7.2	53
29	On-Surface Synthesis and Characterization of Triply Fused Porphyrin-Graphene Nanoribbon Hybrids. <i>Angewandte Chemie</i> , 2020, 132, 1350-1355.	1.6	11
30	Molecular engineering in 2D surface covalent organic frameworks: Towards next generation of molecular tectons - A mini review. <i>Synthetic Metals</i> , 2020, 260, 116265.	2.1	7
31	Bow in awe to the new nanographene. <i>Nature Nanotechnology</i> , 2020, 15, 8-9.	15.6	5
32	Magnetic Polymer Chains of Iron and Zwitterionic Quinoidal Ligands on the Ag(111) Surface. <i>Journal of Physical Chemistry C</i> , 2020, 124, 1346-1351.	1.5	7
33	On-Surface Synthesis and Characterization of Polythiophene Chains. <i>Journal of Physical Chemistry C</i> , 2020, 124, 764-768.	1.5	6
34	Stable self-assembly of dipolar molecules on an Au(111) surface under UHV and an inert-atmosphere. <i>Nanotechnology</i> , 2020, 31, 105601.	1.3	0
35	Theoretical Modeling of the Surface-Guided Self-Assembly of Functional Molecules. <i>ChemPhysChem</i> , 2020, 21, 643-650.	1.0	4
36	Inducing Open-Shell Character in Porphyrins through Surface-Assisted Phenalenyl $\pi$ -Extension. <i>Journal of the American Chemical Society</i> , 2020, 142, 18109-18117.	6.6	41

#	ARTICLE	IF	CITATIONS
37	Bottom-Up, On-Surface-Synthesized Armchair Graphene Nanoribbons for Ultra-High-Power Micro-Supercapacitors. <i>Journal of the American Chemical Society</i> , 2020, 142, 17881-17886.	6.6	51
38	Large-extended 2D supramolecular network of dipoles with parallel arrangement on a Si(111)â€B surface. <i>Nanoscale</i> , 2020, 12, 17399-17404.	2.8	2
39	On-Surface Synthesis of Chlorinated Narrow Graphene Nanoribbon Organometallic Hybrids. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 10290-10297.	2.1	14
40	Oxygenâ€Induced 1D to 2D Transformation of Onâ€Surface Organometallic Structures. <i>Small</i> , 2020, 16, 2002393.	5.2	6
41	Aryl Triflates in Onâ€Surface Chemistry. <i>Chemistry - A European Journal</i> , 2020, 26, 16727-16732.	1.7	1
42	Coupled Spin States in Armchair Graphene Nanoribbons with Asymmetric Zigzag Edge Extensions. <i>Nano Letters</i> , 2020, 20, 6429-6436.	4.5	64
43	Dimensionality Concept in Solidâ€State Reactions: A Way to Control Synthesis of Functional Materials at the Nanoscale. <i>Advanced Functional Materials</i> , 2020, 30, 2002691.	7.8	8
44	On-Surface Growth of Single-Layered Homochiral 2D Covalent Organic Frameworks by Steric Hindrance Strategy. <i>Journal of the American Chemical Society</i> , 2020, 142, 14350-14356.	6.6	30
45	Role of the Metal Surface on the Room Temperature Activation of the Alcohol and Amino Groups of <i>i</i> -Aminophenol. <i>Journal of Physical Chemistry C</i> , 2020, 124, 19655-19665.	1.5	2
46	On-surface synthesis of goldâ€coronene molecular wires. <i>Chemical Communications</i> , 2020, 56, 11239-11242.	2.2	3
47	Templating Effect of Different Low-Miller-Index Gold Surfaces on the Bottom-Up Growth of Graphene Nanoribbons. <i>ACS Applied Nano Materials</i> , 2020, 3, 11497-11509.	2.4	2
48	Kohlenstoffâ€Kohlenstoffâ€Kupplung auf inerten OberflÃchen durch die Abscheidung von en route erzeugten Aryl Radikalen. <i>Angewandte Chemie</i> , 2020, 132, 22976-22981.	1.6	0
49	Manipulable Metal Catalyst for Nanographene Synthesis. <i>Nano Letters</i> , 2020, 20, 8339-8345.	4.5	6
50	Electronic decoupling of polyacenes from the underlying metal substrate by sp <sup>3</sup> carbon atoms. <i>Communications Physics</i> , 2020, 3, .	2.0	9
51	Metallic bands in chevron-type polyacenes. <i>RSC Advances</i> , 2020, 10, 33844-33850.	1.7	4
52	Onâ€surface Synthesis of a Chiral Graphene Nanoribbon with Mixed Edge Structure. <i>Chemistry - an Asian Journal</i> , 2020, 15, 3807-3811.	1.7	17
53	Surface-Confined Metalâ€Organic Precursors Comprising Naphthalene-Like Derivatives with Differently Distributed Halogen Substituents: A Monte Carlo Model. <i>Journal of Physical Chemistry C</i> , 2020, 124, 20280-20293.	1.5	19
54	Intramolecular Coupling of Terminal Alkynes by Atom Manipulation. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 22989-22993.	7.2	15

#	ARTICLE	IF	CITATIONS
55	Carbon-Carbon Coupling on Inert Surfaces by Deposition of En Route Generated Aryl Radicals. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 22785-22789.	7.2	14
56	Edge-On Self-Assembly of Tetra-bromoanthracenyl-porphyrin on Silver Surfaces. <i>Journal of Physical Chemistry C</i> , 2020, 124, 22137-22142.	1.5	3
57	Atomic-Level Electronic Properties of Carbon Nitride Monolayers. <i>ACS Nano</i> , 2020, 14, 14008-14016.	7.3	22
58	Tailoring $\pi$ -conjugation and vibrational modes to steer on-surface synthesis of pentalene-bridged ladder polymers. <i>Nature Communications</i> , 2020, 11, 4567.	5.8	36
59	Intramolecular Coupling of Terminal Alkynes by Atom Manipulation. <i>Angewandte Chemie</i> , 2020, 132, 23189-23193.	1.6	0
60	On-Surface Synthesis with Atomic Hydrogen. <i>ACS Nano</i> , 2020, 14, 13316-13323.	7.3	32
61	Stabilizing Edge Fluorination in Graphene Nanoribbons. <i>ACS Nano</i> , 2020, 14, 11120-11129.	7.3	23
62	Archimedean Tessellation Found by the Variation of Building Blocks <sup>TM</sup> and Linkers <sup>TM</sup> Geometry: In Silico Investigations. <i>Journal of Physical Chemistry C</i> , 2020, 124, 20101-20108.	1.5	6
63	Selective Intramolecular Dehydrocyclization of Co-Porphyrin on Au(111). <i>Molecules</i> , 2020, 25, 3766.	1.7	7
64	Noncontact atomic force microscopy: Bond imaging and beyond. <i>Surface Science Reports</i> , 2020, 75, 100509.	3.8	23
65	Synthesis of mesoscale ordered two-dimensional $\pi$ -conjugated polymers with semiconducting properties. <i>Nature Materials</i> , 2020, 19, 874-880.	13.3	158
66	On-Surface Synthesis of Unsaturated Carbon Nanostructures with Regularly Fused Pentagon-Heptagon Pairs. <i>Journal of the American Chemical Society</i> , 2020, 142, 10291-10296.	6.6	53
67	Resolving Quinoid Structure in Poly( <i>para</i> -phenylene) Chains. <i>Journal of the American Chemical Society</i> , 2020, 142, 10034-10041.	6.6	20
68	Thermally induced intra-molecular transformation and metalation of free-base porphyrin on Au(111) surface steered by surface confinement and ad-atoms. <i>Nanoscale Advances</i> , 2020, 2, 2986-2991.	2.2	8
69	Supramolecular chemistry based on 4-acetylbiphenyl on Au(111). <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 15208-15213.	1.3	5
70	On-Surface Cascade Reaction Based on Successive Debromination via Metal-Organic Coordination Template. <i>Langmuir</i> , 2020, 36, 6286-6291.	1.6	10
71	On-surface synthesis of super-heptazethrene. <i>Chemical Communications</i> , 2020, 56, 7467-7470.	2.2	21
72	Construction of cell-plastics as neo-plastics consisted of cell-layer provided green alga <i>Chlamydomonas reinhardtii</i> covered by two-dimensional polymer. <i>AMB Express</i> , 2020, 10, 112.	1.4	8

#	ARTICLE	IF	CITATIONS
73	Broadband-absorbing polycyclic aromatic hydrocarbon composite films on topologically complex substrates. <i>Organic Electronics</i> , 2020, 85, 105862.	1.4	0
74	Experimental Realization of One-Dimensional Metal-Inorganic Chain: Gold-Phosphorus Chain. , 2020, 2, 873-879.		9
75	Steering alkyne homocoupling with on-surface synthesized metal-organic complexes. <i>Chemical Communications</i> , 2020, 56, 8659-8662.	2.2	6
76	Graphene-Like Covalent Organic Framework with a Wide Band Gap Synthesized On Surface via Stepwise Reactions. <i>Angewandte Chemie</i> , 2020, 132, 16092-16096.	1.6	1
77	Graphene-Like Covalent Organic Framework with a Wide Band Gap Synthesized On Surface via Stepwise Reactions. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 15958-15962.	7.2	10
78	On-surface chemical reactions characterised by ultra-high resolution scanning probe microscopy. <i>Chemical Society Reviews</i> , 2020, 49, 4189-4202.	18.7	26
79	Substrate induced strain for on-surface transformation and synthesis. <i>Nanoscale</i> , 2020, 12, 7500-7508.	2.8	7
80	Quality control of on-surface-synthesised seven-atom wide armchair graphene nanoribbons. <i>Nanoscale</i> , 2020, 12, 6651-6657.	2.8	13
81	Real-Time Molecular-Scale Imaging of Dynamic Network Switching between Covalent Organic Frameworks. <i>Journal of the American Chemical Society</i> , 2020, 142, 5964-5968.	6.6	44
82	On-surface synthesis of planar acenes <i>via</i> regioselective aryl-aryl coupling. <i>Chemical Communications</i> , 2020, 56, 4890-4893.	2.2	9
83	Interfacial Synthesis of a Monolayered Fluorescent Two-Dimensional Polymer through Dynamic Imine Chemistry. <i>ChemistryOpen</i> , 2020, 9, 381-385.	0.9	7
84	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.	2.1	5
85	Rational synthesis of atomically precise graphene nanoribbons directly on metal oxide surfaces. <i>Science</i> , 2020, 369, 571-575.	6.0	105
86	Large-Cavity Coronoids with Different Inner and Outer Edge Structures. <i>Journal of the American Chemical Society</i> , 2020, 142, 12046-12050.	6.6	38
87	Stepwise Synthesis of Na-Ag-N and Ca-Ag-C Organometallic Structures on a Ag(111) Surface. <i>Journal of Physical Chemistry C</i> , 2020, 124, 16415-16422.	1.5	10
88	Epitaxial growth of single tellurium atomic wires on a Cu <sub>2</sub> Sb surface alloy. <i>Applied Physics Letters</i> , 2020, 116, .	1.5	10
89	Ullmann coupling of 2,7-dibromopyrene on Au(111) assisted by surface adatoms. <i>Applied Surface Science</i> , 2020, 513, 145797.	3.1	19
90	Directionality in van der Waals Interactions: The Case of 4-Acetylbiphenyl Adsorbed on Au(111). <i>Journal of Physical Chemistry C</i> , 2020, 124, 4545-4551.	1.5	5

#	ARTICLE	IF	CITATIONS
91	Retro-Diels-Alder Reaction on Surface: Generating Energy-Prohibited Structures in Bulk Film Condition through Surface-Adsorbing Neutralization Effect. <i>Journal of Physical Chemistry C</i> , 2020, 124, 5723-5733.	1.5	1
92	Covalent C-N Bond Formation through a Surface Catalyzed Thermal Cyclodehydrogenation. <i>Journal of the American Chemical Society</i> , 2020, 142, 3696-3700.	6.6	27
93	Enhancing Hydrogen Evolution Activity of Au(111) in Alkaline Media through Molecular Engineering of a 2D Polymer. <i>Angewandte Chemie</i> , 2020, 132, 8489-8493.	1.6	1
94	On-Surface Dehydro-Diels-Alder Reaction of Dibromo-bis(phenylethynyl)benzene. <i>Journal of the American Chemical Society</i> , 2020, 142, 1721-1725.	6.6	15
95	Band Depopulation of Graphene Nanoribbons Induced by Chemical Gating with Amino Groups. <i>ACS Nano</i> , 2020, 14, 1895-1901.	7.3	23
96	Highly Selective Gas Sensors Based on Graphene Nanoribbons Grown by Chemical Vapor Deposition. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 7392-7402.	4.0	59
97	Enhancing Hydrogen Evolution Activity of Au(111) in Alkaline Media through Molecular Engineering of a 2D Polymer. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 8411-8415.	7.2	15
98	The Macrocyclic versus Chain Competition in On-Surface Polymerization: Insights from Reactions of 1,3-dibromoazulene on Cu(111). <i>Chemistry - A European Journal</i> , 2020, 26, 7647-7656.	1.7	19
99	Transferring axial molecular chirality through a sequence of on-surface reactions. <i>Chemical Science</i> , 2020, 11, 5441-5446.	3.7	22
100	Reversible Dehalogenation in On-Surface Aryl-Aryl Coupling. <i>Angewandte Chemie</i> , 2020, 132, 14210-14214.	1.6	2
101	Reversible Dehalogenation in On-Surface Aryl-Aryl Coupling. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 14106-14110.	7.2	15
102	Uncovering the Triplet Ground State of Triangular Graphene Nanoflakes Engineered with Atomic Precision on a Metal Surface. <i>Physical Review Letters</i> , 2020, 124, 177201.	2.9	113
103	Collective All-Carbon Magnetism in Triangulene Dimers**. <i>Angewandte Chemie</i> , 2020, 132, 12139-12145.	1.6	23
104	Collective All-Carbon Magnetism in Triangulene Dimers**. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 12041-12047.	7.2	96
105	Azo bond formation on metal surfaces. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 1458-1464.	7.2	6
106	Surface modification of graphene by coupling with electron deficient radicals. <i>Journal of Solid State Chemistry</i> , 2021, 294, 121851.	1.4	15
107	Transformation of a graphene nanoribbon into a hybrid 1D nanoobject with alternating double chains and polycyclic regions. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 425-441.	1.3	4
108	Collective radical oligomerisation induced by an STM tip on a silicon surface. <i>Nanoscale</i> , 2021, 13, 349-354.	2.8	7

#	ARTICLE	IF	CITATIONS
109	On-Surface Synthesis and Intermolecular Cycloadditions of Indacenoditetracenes, Antiaromatic Analogues of Undecacene. <i>ACS Nano</i> , 2021, 15, 1548-1554.	7.3	16
110	Azobindungsbildung auf Metalloberflächen. <i>Angewandte Chemie</i> , 2021, 133, 1478-1485.	1.6	0
111	1D Coordination $\pi$ -Conjugated Polymers with Distinct Structures Defined by the Choice of the Transition Metal: Towards a New Class of Antiaromatic Macrocycles. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 439-445.	7.2	23
112	1D Coordination $\pi$ -Conjugated Polymers with Distinct Structures Defined by the Choice of the Transition Metal: Towards a New Class of Antiaromatic Macrocycles. <i>Angewandte Chemie</i> , 2021, 133, 443-449.	1.6	0
113	Synthesis and characterization of [7]triangulene. <i>Nanoscale</i> , 2021, 13, 1624-1628.	2.8	62
114	Ultrahigh-yield on-surface synthesis and assembly of circumcoronene into a chiral electronic Kagome-honeycomb lattice. <i>Science Advances</i> , 2021, 7, .	4.7	43
115	On-surface formation of metal-organic coordination networks with $C\pi$ - $Ag\pi$ - $C$ and $C=O\pi$ - $Ag$ interactions assisted by precursor self-assembly. <i>Journal of Chemical Physics</i> , 2021, 154, 044703.	1.2	9
116	Unravelling the growth mechanism of (3,1) graphene nanoribbons on a Cu(111) surface. <i>Chemical Communications</i> , 2021, 57, 6043-6045.	2.2	6
117	On-surface synthesis of graphene nanostructures with $\pi$ -magnetism. <i>Chemical Society Reviews</i> , 2021, 50, 3238-3262.	18.7	102
118	Manifold dynamic non-covalent interactions for steering molecular assembly and cyclization. <i>Chemical Science</i> , 2021, 12, 11659-11667.	3.7	9
119	Carbocatalysis with pristine graphite: on-surface nanochemistry assists solution-based catalysis. <i>Chemical Society Reviews</i> , 2021, 50, 2280-2296.	18.7	14
120	Synthesis on inert surfaces. <i>Dalton Transactions</i> , 2021, 50, 10020-10027.	1.6	8
121	An intermolecular hydrogen bond plays a determining role in product selection of a surface confined Schiff-base reaction. <i>Chemical Communications</i> , 2021, 57, 6495-6498.	2.2	2
122	Designing 2D covalent networks with lattice Monte Carlo simulations: precursor self-assembly. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 5780-5796.	1.3	10
123	Searching for kagome multi-bands and edge states in a predicted organic topological insulator. <i>Nanoscale</i> , 2021, 13, 5216-5223.	2.8	16
124	Mechanically induced single-molecule helicity switching of graphene-nanoribbon-fused helicene on Au(111). <i>Chemical Science</i> , 2021, 12, 13301-13306.	3.7	6
125	Symmetry-Driven Formation of Chiral Boroxine-Based Organometallic Oligomers on Ag(001). <i>Journal of Physical Chemistry C</i> , 2021, 125, 2015-2021.	1.5	3
126	Nonconventional driving force for selective oxidative $C\pi$ - $C$ coupling reaction due to concurrent and curious formation of Ag <sub>0</sub> . <i>Scientific Reports</i> , 2021, 11, 1568.	1.6	0



#	ARTICLE	IF	CITATIONS
127	On-Surface Synthesis and Molecular Engineering of Carbon-Based Nanoarchitectures. ACS Nano, 2021, 15, 3578-3585.	7.3	15
128	Initiating Ullmann-like coupling of Br2Py by a semimetal surface. Scientific Reports, 2021, 11, 3414.	1.6	9
129	Reassessing Alkyne Coupling Reactions While Studying the Electronic Properties of Diverse Pyrene Linkages at Surfaces. ACS Nano, 2021, 15, 4937-4946.	7.3	19
130	RECENT ADVANCES IN BOND-RESOLVED SCANNING TUNNELING MICROSCOPY. Surface Review and Letters, 2021, 28, 2140007.	0.5	3
131	On-Surface Hydrogen/Deuterium Isotope Exchange in Polycyclic Aromatic Hydrocarbons. Angewandte Chemie, 2021, 133, 8527-8530.	1.6	2
132	Superconducting Scanning Tunneling Microscope Tip to Reveal Sub-millielectronvolt Magnetic Energy Variations on Surfaces. Journal of Physical Chemistry Letters, 2021, 12, 2983-2989.	2.1	7
133	Polymerization of silanes through dehydrogenative Si-Si bond formation on metal surfaces. Nature Chemistry, 2021, 13, 350-357.	6.6	11
134	On-Surface Hydrogen/Deuterium Isotope Exchange in Polycyclic Aromatic Hydrocarbons. Angewandte Chemie - International Edition, 2021, 60, 8446-8449.	7.2	4
135	On-Surface Synthesis of Dibenzohexaceno[6]acene and Dibenzopentaphenoheptaphene. Bulletin of the Chemical Society of Japan, 2021, 94, 997-999.	2.0	27
136	Diamantanethiols on Metal Surfaces: Spatial Configurations, Bond Dissociations, and Polymerization. Journal of Physical Chemistry Letters, 2021, 12, 3468-3475.	2.1	7
137	Open the door to the atomic world by single-molecule atomic force microscopy. Matter, 2021, 4, 1189-1223.	5.0	11
138	Preparation of Tetrabenz[4.4.2]undecastarphene by On-Surface Synthesis. ChemPlusChem, 2021, 86, 991-996.	1.3	0
139	On-surface activation of benzylic C-H bonds for the synthesis of pentagon-fused graphene nanoribbons. Nano Research, 2021, 14, 4754-4759.	5.8	14
140	Exploring Intramolecular Methyl-Methyl Coupling on a Metal Surface for Edge-Extended Graphene Nanoribbons. Organic Materials, 2021, 03, 128-133.	1.0	3
141	Asymmetric azide-alkyne Huisgen cycloaddition on chiral metal surfaces. Communications Chemistry, 2021, 4, .	2.0	7
142	Visualizing and Understanding Ordered Surface Phases during the Ullmann Coupling Reaction. Journal of Physical Chemistry C, 2021, 125, 7675-7685.	1.5	2
143	Identifying the convergent reaction path from pre-designed assembled structures: Dissymmetrical dehalogenation of Br2Py on Ag(111). Nano Research, 0, , 1.	5.8	20
144	Enantioselective SERS sensing of pseudoephedrine in blood plasma biomatrix by hierarchical mesoporous Au films coated with a homochiral MOF. Biosensors and Bioelectronics, 2021, 180, 113109.	5.3	37

#	ARTICLE	IF	CITATIONS
145	On-Surface Synthesis of Giant Conjugated Macrocycles. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 13896-13899.	7.2	14
146	Phase transformations in a complete monolayer of 4,4'-biphenyl-dicarboxylic acid on Ag(001). <i>Applied Surface Science</i> , 2021, 547, 149115.	3.1	6
147	On-Surface Synthesis of Thiophene-Containing Large-Sized Organometallic Macrocycles on the Ag(111) Surface. <i>Journal of Physical Chemistry C</i> , 2021, 125, 11454-11461.	1.5	8
148	On-Surface Synthesis of Giant Conjugated Macrocycles. <i>Angewandte Chemie</i> , 2021, 133, 14015-14018.	1.6	0
149	Biphenylene network: A nonbenzenoid carbon allotrope. <i>Science</i> , 2021, 372, 852-856.	6.0	379
150	Bottom-Up Fabrication and Atomic-Scale Characterization of Triply Linked, Laterally Extended Porphyrin Nanotapes**. <i>Angewandte Chemie</i> , 2021, 133, 16344-16350.	1.6	5
151	Topology and ground state control in open-shell donor-acceptor conjugated polymers. <i>Cell Reports Physical Science</i> , 2021, 2, 100467.	2.8	14
152	Bottom-Up Fabrication and Atomic-Scale Characterization of Triply Linked, Laterally Extended Porphyrin Nanotapes**. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 16208-16214.	7.2	25
153	On-surface photopolymerization of two-dimensional polymers ordered on the mesoscale. <i>Nature Chemistry</i> , 2021, 13, 730-736.	6.6	68
154	Multi-Redox Active Carbons and Hydrocarbons: Control of their Redox Properties and Potential Applications. <i>Chemical Record</i> , 2021, 21, 2411-2429.	2.9	11
156	Water Splitting Induced by Visible Light at a Copper-Based Single-Molecule Junction. <i>Small</i> , 2021, 17, e2008109.	5.2	3
157	Role of the Structure and Reactivity of Cu and Ag Surfaces in the Formation of a 2D Metal-Hexahydroxytriphenylene Network. <i>Journal of Physical Chemistry C</i> , 2021, 125, 17333-17341.	1.5	12
158	Halogenated Anthracenes as Building Blocks for the On-Surface Synthesis of Covalent Polymers: Structure Prediction with the Lattice Monte Carlo Method. <i>Journal of Physical Chemistry C</i> , 2021, 125, 15934-15949.	1.5	14
159	Construction of Heptagon-Containing Molecular Nanocarbons. <i>Angewandte Chemie</i> , 2021, 133, 23700-23724.	1.6	31
160	Surface-assisted fabrication of low-dimensional carbon-based nanoarchitectures. <i>Journal of Physics Condensed Matter</i> , 2021, 33, 343001.	0.7	10
161	Atomic manipulation of in-gap states in the $\text{Cu}_2\text{N}_2\text{S}_2$ surface. <i>Physical Review B</i> , 2021, 104, .	1.0	0
162	Construction of Heptagon-Containing Molecular Nanocarbons. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 23508-23532.	7.2	118
163	Ladder Phenylenes Synthesized on Au(111) Surface via Selective [2+2] Cycloaddition. <i>Journal of the American Chemical Society</i> , 2021, 143, 12955-12960.	6.6	32

#	ARTICLE	IF	CITATIONS
164	On-Surface Synthesis and Characterization of Super-nonazethrene. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 8314-8319.	2.1	22
165	On-Surface Strain-Driven Synthesis of Nonalternant Non-Benzenoid Aromatic Compounds Containing Four- to Eight-Membered Rings. <i>Journal of the American Chemical Society</i> , 2021, 143, 14694-14702.	6.6	31
166	Direct Observation of Knock-on in Surface Reactions at Zero Impact Parameter. <i>Journal of the American Chemical Society</i> , 2021, 143, 12644-12649.	6.6	1
167	Molecular assemblies on surfaces: towards physical and electronic decoupling of organic molecules. <i>Beilstein Journal of Nanotechnology</i> , 2021, 12, 950-956.	1.5	6
168	Chirality of molecular nanostructures on surfaces via molecular assembly and reaction: manifestation and control. <i>Surface Science Reports</i> , 2021, 76, 100531.	3.8	26
169	A single-molecule blueprint for synthesis. <i>Nature Reviews Chemistry</i> , 2021, 5, 695-710.	13.8	24
170	On-Surface Synthesis of Ligands to Elaborate Coordination Polymers on an Au(111) Surface. <i>Nanomaterials</i> , 2021, 11, 2102.	1.9	1
171	Robust and Versatile Coatings Engineered via Simultaneous Covalent and Noncovalent Interactions. <i>Angewandte Chemie</i> , 2021, 133, 20387-20392.	1.6	2
172	Robust and Versatile Coatings Engineered via Simultaneous Covalent and Noncovalent Interactions. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 20225-20230.	7.2	14
173	Evolution of the Topological Energy Band in Graphene Nanoribbons. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 8679-8684.	2.1	30
174	Surface-Mediated Ring-Opening and Porphyrin Deconstruction via Conformational Distortion. <i>Journal of the American Chemical Society</i> , 2021, 143, 15131-15138.	6.6	14
175	Applications of Noncontact Atomic Force Microscopy in Petroleum Characterization: Opportunities and Challenges. <i>Energy &amp; Fuels</i> , 2021, 35, 14422-14444.	2.5	20
176	Identification of Topotactic Surface-Confined Ullmann-Polymerization. <i>Small</i> , 2021, 17, e2103044.	5.2	9
177	Constructing covalent organic nanoarchitectures molecule by molecule via scanning probe manipulation. <i>Nature Chemistry</i> , 2021, 13, 1133-1139.	6.6	42
178	The Current Understanding of how 2D Polymers Grow Photochemically. <i>European Journal of Organic Chemistry</i> , 2021, 2021, 5478-5490.	1.2	10
179	Tunable topologically nontrivial states in newly discovered graphyne allotropes: from Dirac nodal grid to Dirac nodal loop. <i>Nanotechnology</i> , 2021, 32, 485705.	1.3	4
180	Functional supramolecular systems: design and applications. <i>Russian Chemical Reviews</i> , 2021, 90, 895-1107.	2.5	93
181	Atomic Scale Control and Visualization of Topological Quantum Phase Transition in $\pi$ -Conjugated Polymers Driven by Their Length. <i>Advanced Materials</i> , 2021, 33, e2104495.	11.1	15

#	ARTICLE	IF	CITATIONS
182	Topological phase transition in chiral graphene nanoribbons: from edge bands to end states. <i>Nature Communications</i> , 2021, 12, 5538.	5.8	66
183	Digging Ti interstitials at the r-TiO <sub>2</sub> (1 1 0) surface: Mechanism of porphyrin Ti sequestration by iminic N nucleophilic attack. <i>Applied Surface Science</i> , 2021, 564, 150403.	3.1	7
184	Metallic nanoparticles growth on ionic layer grafted onto glassy carbon for hydrogen evolution reaction. <i>Journal of Molecular Liquids</i> , 2021, 341, 117433.	2.3	2
185	Symmetrical dehalogenation of 2, 7-dibromopyrene on Cu(1 1 1) with tunable intermediates and reaction paths. <i>Applied Surface Science</i> , 2021, 566, 150663.	3.1	3
186	From starphenes to non-benzenoid linear conjugated polymers by substrate templating. <i>Nanoscale Advances</i> , 2021, 3, 2351-2358.	2.2	4
187	Atomically precise graphene nanoribbons: interplay of structural and electronic properties. <i>Chemical Society Reviews</i> , 2021, 50, 6541-6568.	18.7	105
188	Challenges in the synthesis of corannulene-based non-planar nanographenes on Au(111) surfaces. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 10845-10851.	1.3	2
189	Direct aryl-aryl coupling of pentacene on Au(110). <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 22155-22159.	1.3	0
190	The Role of Methyl Groups in the Early Stage of Thermal Polymerization of Polycyclic Aromatic Hydrocarbons Revealed by Molecular Imaging. <i>Energy &amp; Fuels</i> , 2021, 35, 2224-2233.	2.5	21
191	Pushing the Limits of Acene Chemistry: The Recent Surge of Large Acenes. <i>Chemistry - A European Journal</i> , 2021, 27, 3193-3212.	1.7	83
192	An Approach to the Synthesis of a Two-Dimensional Polymer Using a Preorganized Host-Guest Network by Self-Assembly at the Liquid/Solid Interface. <i>ChemNanoMat</i> , 2020, 6, 550-559.	1.5	3
193	Using molecular entanglement as a strategy to enhance carbon fiber-epoxy composite interfaces. <i>Composites Science and Technology</i> , 2020, 196, 108225.	3.8	39
194	Creating supramolecular semiregular Archimedean tilings via gas-mediated deprotonation of a terminal alkyne derivative. <i>CrystEngComm</i> , 0, , .	1.3	2
195	An on-surface Diels-Alder reaction. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 26346-26350.	7.2	9
196	Observation of fractional edge excitations in nanographene spin chains. <i>Nature</i> , 2021, 598, 287-292.	13.7	115
197	Light assisted synthesis of poly-para-phenylene on Ag(001). <i>Journal of Physics Condensed Matter</i> , 2022, 34, 055001.	0.7	1
198	Graphdiyne: from Preparation to Biomedical Applications. <i>Chemical Research in Chinese Universities</i> , 2021, 37, 1-19.	1.3	10
199	Self-assembly of a strapped linear porphyrin oligomer on HOPG. <i>Scientific Reports</i> , 2021, 11, 20388.	1.6	4

#	ARTICLE	IF	CITATIONS
200	On-Surface Synthesis and Collective Spin Excitations of a Triangulene-Based Nanostar. <i>Angewandte Chemie</i> , 0, , .	1.6	3
201	On-Surface Formation of Cyano-Vinylene Linked Chains by Knoevenagel Condensation. <i>Chemistry - A European Journal</i> , 2021, 27, 17336-17340.	1.7	4
202	Asymmetric Elimination Reaction on Chiral Metal Surfaces. <i>Advanced Materials</i> , 2022, 34, e2104481.	11.1	9
203	On-Surface Synthesis and Collective Spin Excitations of a Triangulene-Based Nanostar. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 25224-25229.	7.2	66
204	Thermal- vs Light-Induced On-Surface Polymerization. <i>Journal of Physical Chemistry C</i> , 2021, 125, 22554-22561.	1.5	9
205	Dominant contributions to the apparent activation energy in two-dimensional submonolayer growth: comparison between Cu/Ni(111) and Ni/Cu(111). <i>Journal of Physics Condensed Matter</i> , 2020, 32, 445002.	0.7	1
206	Abiotic Formation of an Amide Bond via Surface-Supported Direct Carboxyl-Amine Coupling. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	9
207	Abiotic Formation of Amide Bond via Surface-Supported Direct Carboxyl-Amine Coupling. <i>Angewandte Chemie</i> , 0, , .	1.6	0
208	An on-surface Diels-Alder reaction. <i>Angewandte Chemie</i> , 2021, 133, 26550.	1.6	2
209	Hindered surface diffusion of bonded molecular clusters mediated by surface defects. <i>Physical Review Materials</i> , 2020, 4, .	0.9	1
210	Surface-confined formation of conjugated porphyrin-based nanostructures on Ag(111). <i>Nanoscale</i> , 2021, 13, 19884-19889.	2.8	4
211	Disordered Two-Dimensional Self-Organization of Ethyl Pyruvate Molecules on the Pt(111) Surface. <i>Journal of Physical Chemistry C</i> , 2021, 125, 26167-26179.	1.5	4
212	Exploiting Cooperative Catalysis for the On-surface Synthesis of Linear Heteroaromatic Polymers via Selective C-H Activation. <i>Angewandte Chemie</i> , 0, , .	1.6	2
213	On-Surface Synthesis of Boroxine-Based Molecules. <i>Chemistry</i> , 2021, 3, 1401-1410.	0.9	2
214	Exploiting Cooperative Catalysis for the On-Surface Synthesis of Linear Heteroaromatic Polymers via Selective C-H Activation. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	10
215	Theory for Potential of Zero Charge and Capacitance on Metals with Nanocorrugated Steps. <i>Journal of Physical Chemistry C</i> , 2021, 125, 25774-25783.	1.5	4
216	On-Surface Synthesis of 2D Porphyrin-Based Covalent Organic Frameworks Using Terminal Alkynes. <i>Chemistry of Materials</i> , 2021, 33, 8677-8684.	3.2	2
217	On-Surface Synthesis of Porphyrin-Complex Multi-Block Co-Oligomers by Defluorinative Coupling. <i>Angewandte Chemie - International Edition</i> , 2021, , .	7.2	9

#	ARTICLE	IF	CITATIONS
218	Two-Dimensional Polymers and Polymerizations. <i>Chemical Reviews</i> , 2022, 122, 442-564.	23.0	128
219	On-surface cyclodehydrogenation reaction pathway determined by selective molecular deuterations. <i>Chemical Science</i> , 2021, 12, 15637-15644.	3.7	11
220	On-surface products from de-fluorination of C <sub>60</sub> F <sub>48</sub> on Ag(111): C <sub>60</sub> , C <sub>60</sub> F <sub>x</sub> and silver fluoride formation. <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 2349-2356.	1.3	4
221	Facet-Selective Dissociation and Radical-Mediated Reaction of Dibenzotetrathiafulvalene Molecules on Low-Index Copper Surfaces. <i>Journal of Physical Chemistry C</i> , 2022, 126, 1281-1288.	1.5	0
222	Self-Accommodating Honeycomb Networks from Supramolecular Self-Assembly of s-Indacene-tetrone on Silver Surfaces. <i>Langmuir</i> , 2022, 38, 1067-1071.	1.6	4
223	Halogen and structure sensitivity of halobenzene adsorption on copper surfaces. <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 4485-4492.	1.3	2
224	A Dual-Surface Mechanism of Oxidant-Free Pyrrole Polymerization in the Two-Dimensional Titanium Carbide (MXene) Interlayer Nanospace. <i>Journal of Physical Chemistry C</i> , 2022, 126, 1316-1325.	1.5	5
225	Depositing Molecular Graphene Nanoribbons on Ag(111) by Electro spray Controlled Ion Beam Deposition: Self-Assembly and On-Surface Transformations. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	10
226	Evolution of adsorption heights in the on-surface synthesis and decoupling of covalent organic networks on Ag(111) by normal-incidence X-ray standing wave. <i>Nanoscale Horizons</i> , 2021, 7, 51-62.	4.1	15
227	On-Surface Thermal Stability of a Graphenic Structure Incorporating a Tropone Moiety. <i>Nanomaterials</i> , 2022, 12, 488.	1.9	2
228	Depositing Molecular Graphene Nanoribbons on Ag(111) by Electro spray Controlled Ion Beam Deposition: Self-Assembly and On-Surface Transformations. <i>Angewandte Chemie</i> , 2022, 134, .	1.6	4
229	Synthesis and study of fluorine-functionalized ZnTPPs. <i>Journal of Porphyrins and Phthalocyanines</i> , 2022, 26, 295-307.	0.4	1
230	Theoretical Modeling of the Metal-Organic Precursors of Anthracene-Based Covalent Networks on Surfaces. <i>ChemPhysChem</i> , 2022, 23, .	1.0	8
231	Nonbenzenoid High-Spin Polycyclic Hydrocarbons Generated by Atom Manipulation. <i>ACS Nano</i> , 2022, 16, 3264-3271.	7.3	22
232	Magnetic Interactions Between Radical Pairs in Chiral Graphene Nanoribbons. <i>Nano Letters</i> , 2022, 22, 164-171.	4.5	29
233	Chemical bond imaging using torsional and flexural higher eigenmodes of qPlus sensors. <i>Nanoscale</i> , 2022, 14, 5329-5339.	2.8	4
234	Conjugated Poly(metallaynes). , 2022, , .		0
235	On-surface synthesis of a phenylene analogue of nonacene. <i>Chemical Communications</i> , 2022, 58, 4063-4066.	2.2	6

#	ARTICLE	IF	CITATIONS
236	Advances in detection and regulation of surface-supported molecular quantum states. Wuli Xuebao/Acta Physica Sinica, 2022, 71, 060701.	0.2	0
237	On-Surface Synthesis of [3]Radialenes via [1+1+1] Cycloaddition. Angewandte Chemie - International Edition, 2022, 61, e202117714.	7.2	10
238	On-Surface Synthesis of [3]Radialenes via [1+1+1] Cycloaddition. Angewandte Chemie, 2022, 134, .	1.6	0
239	Sub-Angstrom Imaging of Nondegenerate Kekulé Structures in a Two-Dimensional Halogen-Bonded Supramolecular Network. Journal of Physical Chemistry C, 2022, 126, 4241-4247.	1.5	5
240	Biomimetic and Biological Nanoarchitectonics. International Journal of Molecular Sciences, 2022, 23, 3577.	1.8	9
241	On-Surface Reactivity of Disubstituted-Bianthryl Molecules on Cu(111) and Au(111) Surfaces. ECS Journal of Solid State Science and Technology, 2022, 11, 035006.	0.9	0
242	Magnetic Interplay between $d$ -Electrons of Open-Shell Porphyrins and $d$ -Electrons of Their Central Transition Metal Ions. Advanced Science, 2022, 9, e2105906.	5.6	9
243	Stereoisomer-dependent conversion of dinaphthothienothiophene precursor films. Scientific Reports, 2022, 12, 4448.	1.6	1
244	Dehydrofluorination as a Residue-Free Selective Route to C-C Bond Formation at Metal Surfaces. Journal of Physical Chemistry C, 2022, 126, 6249-6257.	1.5	0
245	Aza-Triangulene: On-Surface Synthesis and Electronic and Magnetic Properties. Journal of the American Chemical Society, 2022, 144, 4522-4529.	6.6	49
246	QUAM-AFM: A Free Database for Molecular Identification by Atomic Force Microscopy. Journal of Chemical Information and Modeling, 2022, 62, 1214-1223.	2.5	8
247	On-surface synthesis and atomic scale characterization of unprotected indenofluorene polymers. Journal of Polymer Science, 2022, 60, 1814-1826.	2.0	9
248	Sequential Activation of Aromatic C-H Bonds on Cu(111). Journal of Physical Chemistry C, 2022, 126, 5541-5549.	1.5	6
249	On-surface synthesis of triangulene trimers via dehydration reaction. Nature Communications, 2022, 13, 1705.	5.8	30
250	3 + 3 makes the ring. , 0, , .		0
251	Synthesis of [2+2] Schiff base macrocycles by a solvent templating strategy and halogen bonding directed assembly. Journal of Inclusion Phenomena and Macrocyclic Chemistry, 0, , 1.	0.9	2
252	On-surface polyarylene synthesis by cycloaromatization of isopropyl substituents. , 2022, 1, 289-296.		31
253	On-Surface Debromination of $C_6Br_6$ : $C_6$ Ring versus $C_6$ Chain. ACS Nano, 2022, 16, 6578-6584.	7.3	14

#	ARTICLE	IF	CITATIONS
254	Tandem Desulfurization/C–C Coupling Reaction of Tetrathienylbenzenes on Cu(111): Synthesis of Pentacene and an Exotic Ladder Polymer. ACS Nano, 2022, 16, 6506-6514.	7.3	7
255	Anchoring and Reacting On-Surface to Achieve Programmability. JACS Au, 2022, 2, 58-65.	3.6	7
256	Chemisorption-Induced Formation of Biphenylene Dimer on Ag(111). Journal of the American Chemical Society, 2022, 144, 723-732.	6.6	20
257	On-water surface synthesis of charged two-dimensional polymer single crystals via the irreversible Katritzky reaction. , 2022, 1, 69-76.		34
259	On-Surface Synthesis of Porphyrin-Complex Multi-Block Co-Oligomers by Defluorinative Coupling. Angewandte Chemie, 2022, 134, .	1.6	3
260	Ordered Patterns of Copper Phthalocyanine Nanoflowers Grown Around Fe Islands on Au(111). Journal of Cluster Science, 0, , 1.	1.7	1
261	A 2D perchlorinated sp <sup>2</sup> -carbon framework. Cell Reports Physical Science, 2022, 3, 100858.	2.8	2
262	[2+2] Cyclo-Addition Reactions for Efficient Polymerization on a HOPG Surface at Ambient Conditions. Nanomaterials, 2022, 12, 1334.	1.9	2
263	Desilylative Coupling Involving C(sp <sup>2</sup> )–Si Bond Cleavage on Metal Surfaces. Journal of the American Chemical Society, 2022, 144, 8789-8796.	6.6	2
264	Monte Carlo simulation of the surface-assisted self-assembly of metal-organic precursors comprising phenanthrene building blocks. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2022, 648, 129177.	2.3	6
265	Application and Development of Selective Catalytic Reduction Technology for Marine Low-Speed Diesel Engine: Trade-Off among High Sulfur Fuel, High Thermal Efficiency, and Low Pollution Emission. Atmosphere, 2022, 13, 731.	1.0	39
266	On-Surface Synthesis of Rigid Benzenoid- and Nonbenzenoid-Coupled Porphyrin-Graphene Nanoribbon Hybrids. Journal of Physical Chemistry C, 0, , .	1.5	2
267	Steric hindrance in the on-surface synthesis of diethynyl-linked anthracene polymers. Physical Chemistry Chemical Physics, 2022, 24, 13616-13624.	1.3	2
268	24 Hours of Toulouse. Nature Nanotechnology, 2022, 17, 433.	15.6	4
269	On-Surface Synthesis of Unsaturated Hydrocarbon Chains through C–S Activation. Chemistry - A European Journal, 2022, 28, .	1.7	6
270	Delocalized magnetism in low-dimensional graphene system. Wuli Xuebao/Acta Physica Sinica, 2022, 71, 188101.	0.2	1
271	Resolving Atomic-Scale Defects in Conjugated Polymers On-Surfaces. Chemistry - A European Journal, 2022, 28, .	1.7	3
272	On-Surface Synthesis of C <sub>144</sub> Hexagonal Coronoid with Zigzag Edges. ACS Nano, 2022, 16, 10600-10607.	7.3	16



#	ARTICLE	IF	CITATIONS
273	1D Coordination Polymers of 1,1- $\text{Dibromoferrocene}$ Following Debromination on $\text{Ag}(111)$ . <i>Journal of Physical Chemistry C</i> , 2022, 126, 11341-11347.	1.5	2
274	Substrate-Selective Intermolecular Interaction and the Molecular Self-Assemblies: 1,3,5-Tris(4-bromophenyl)benzene Molecules on the $\text{Ag}(111)$ and $\text{Si}(111)$ ( $\hat{\sim}3 \text{ \AA} - \hat{\sim}3$ )- $\text{Ag}$ Surfaces. <i>Langmuir</i> , 2022, 38, 8881-8889.	1.6	2
275	Planar $\pi$ -extended cycloparaphenylenes featuring an all-armchair edge topology. <i>Nature Chemistry</i> , 2022, 14, 871-876.	6.6	19
276	On-surface synthesis of one-dimensional carbyne-like nanostructures with <i>sp</i> -carbon. <i>Chinese Physics B</i> , 0, , .	0.7	0
277	2D conjugated polymers: exploiting topological properties for the rational design of metal-free photocatalysts. <i>Trends in Chemistry</i> , 2022, 4, 792-806.	4.4	13
278	Kinetic control of self-assembly using a low-energy electron beam. <i>Applied Surface Science</i> , 2022, 600, 154106.	3.1	5
279	$\text{Pd}/\text{Cu}$ $\times 2$ $\text{O}/\text{CuO}$ as Active Sites on the Cyclometalated $\text{Pd}(\text{II})/\text{Cu}(\text{II})$ Nanosheet: Active Centre Formation, Synergistic and Catalytic Mechanism. <i>ChemistrySelect</i> , 2022, 7, .	0.7	1
280	Aromatic Ring Fusion to Benzoporphyrin <i>via</i> $\hat{\sim}3$ - <i>ortho</i> Cyclodehydrogenation on a $\text{Ag}(111)$ Surface. <i>ACS Nano</i> , 2022, 16, 13092-13100.	7.3	4
281	On-Surface Synthesis toward Two-Dimensional Polymers. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 8062-8077.	2.1	9
282	Carbon-based nanostructures as a versatile platform for tunable $\pi$ -magnetism. <i>Journal of Physics Condensed Matter</i> , 2022, 34, 443001.	0.7	31
283	On-Surface Chemistry on Low-Reactive Surfaces. <i>Chemistry</i> , 2022, 4, 796-810.	0.9	3
284	Scanning probe microscopy in probing low-dimensional carbon-based nanostructures and nanomaterials. <i>Materials Futures</i> , 2022, 1, 032301.	3.1	13
285	Preparation, Supramolecular Organization, and On-Surface Reactivity of Enantiopure Subphthalocyanines: From Bulk to 2D-Polymerization. <i>Journal of the American Chemical Society</i> , 2022, 144, 16579-16587.	6.6	10
286	Synthesis of nanocatalyst $\text{Pd}$ immobilized on ZPD as efficient and reusable for Sonogashira cross-coupling reaction. <i>Journal of Organometallic Chemistry</i> , 2022, 980-981, 122497.	0.8	3
287	Radical-promoted room-temperature terminal alkyne activation on $\text{Au}(111)$ . <i>Surface Science</i> , 2023, 727, 122180.	0.8	1
288	On-surface synthesis of ethers through dehydrative coupling of hydroxymethyl substituents. <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 22122-22128.	1.3	4
289	Interfacial electric fields catalyze Ullmann coupling reactions on gold surfaces. <i>Chemical Science</i> , 2022, 13, 10798-10805.	3.7	4
290	STM-induced ring closure of vinylheptafulvene molecular dipole switches on $\text{Au}(111)$ . <i>Nanoscale Advances</i> , 0, , .	2.2	0

#	ARTICLE	IF	CITATIONS
291	Addressing Electron Spins Embedded in Metallic Graphene Nanoribbons. ACS Nano, 2022, 16, 14819-14826.	7.3	14
292	1-Bromo-4-ethynylbenzene on Cu(100): Adsorption, bonding structures, and reaction mechanisms. Journal of the Chinese Chemical Society, 2022, 69, 1558-1568.	0.8	0
293	Real-Space Identification of Non-Noble Single Atomic Catalytic Sites within Metal-Coordinated Supramolecular Networks. ACS Nano, 2022, 16, 14284-14296.	7.3	6
294	Circumventing the stability problems of graphene nanoribbon zigzag edges. Nature Chemistry, 2022, 14, 1451-1458.	6.6	15
296	Quantum nanomagnets in on-surface metal-free porphyrin chains. Nature Chemistry, 2023, 15, 53-60.	6.6	28
297	Tuning Dehalogenative Coupling of Br <sub>2</sub> Py on Bimetallic Templates. Langmuir, 2022, 38, 13392-13400.	1.6	1
298	The Role of Metal Adatoms in a Surface-Assisted Cyclodehydrogenation Reaction on a Gold Surface. Angewandte Chemie, 0, , .	1.6	2
299	Unusual Scaffold Rearrangement in Polyaromatic Hydrocarbons Driven by Concerted Action of Single Gold Atoms on a Gold Surface. Angewandte Chemie - International Edition, 2022, 61, .	7.2	9
300	The Role of Metal Adatoms in a Surface-Assisted Cyclodehydrogenation Reaction on a Gold Surface. Angewandte Chemie - International Edition, 2022, 61, .	7.2	18
301	Unusual Scaffold Rearrangement in Polyaromatic Hydrocarbons Driven by Concerted Action of Single Gold Atoms on a Gold Surface. Angewandte Chemie, 2022, 134, .	1.6	1
302	Manipulation of C-C coupling pathways using different annealing procedures. Chemical Communications, 2022, 58, 13507-13510.	2.2	1
303	On-surface homocoupling reactivity of a chiral bifunctional bromoindanone molecule on Cu(111). New Journal of Chemistry, 2022, 46, 22869-22876.	1.4	3
304	Assembly, Diffusion and Rotation of Organic Molecules on a Gold Surface. Advances in Atom and Single Molecule Machines, 2023, , 41-58.	0.0	0
305	Synthesis of Dendronized Polymers on the Au(111) Surface. Journal of Physical Chemistry Letters, 2022, 13, 10589-10596.	2.1	2
306	Polymerization of Epoxides via Ring-Opening Coupling on Surfaces. Journal of Physical Chemistry C, 2022, 126, 20049-20056.	1.5	0
307	Selective Activation of Aromatic C-H Bonds Catalyzed by Single Gold Atoms at Room Temperature. Journal of the American Chemical Society, 2022, 144, 21389-21397.	6.6	14
308	Probing dynamic covalent chemistry in a 2D boroxine framework by <i>in situ</i> near-ambient pressure X-ray photoelectron spectroscopy. Nanoscale, 0, , .	2.8	4
309	Molecular insight into on-surface chemistry of an organometallic polymer. Physical Chemistry Chemical Physics, 0, , .	1.3	1

#	ARTICLE	IF	CITATIONS
310	On-surface synthesis of non-benzenoid conjugated polymers by selective atomic rearrangement of ethynylarenes. <i>Chemical Science</i> , 2023, 14, 1403-1412.	3.7	3
311	Synthesis of covalent nanostructures at the solid-liquid interfaces. , 2024, , 351-359.		0
312	Quantum spin chains go organic. <i>Nature Chemistry</i> , 2023, 15, 12-13.	6.6	4
314	Olefin cyclization on Cu(111) driven by subsurface carbon and ultraviolet irradiation. <i>Cell Reports Physical Science</i> , 2022, 3, 101172.	2.8	0
315	On-surface synthesis and spontaneous segregation of conjugated tetraphenylethylene macrocycles. <i>Communications Chemistry</i> , 2022, 5, .	2.0	1
316	On-Surface Synthesis and Evolution of Self-Assembled Poly( <i>p</i> -phenylene) Chains on Ag(111): A Joint Experimental and Theoretical Study. <i>Journal of Physical Chemistry C</i> , 2023, 127, 393-402.	1.5	1
317	High-Yield Production of Quantum Corrals in a Surface Reconstruction Pattern. <i>Nano Letters</i> , 2023, 23, 148-154.	4.5	2
318	Steering on-surface reactions through molecular steric hindrance and molecule-substrate van der Waals interactions. , 2022, 1, .		2
320	On-Surface Synthesis of Self-Assembled Covalently Linked Wavy Chains with Site-Selective Conformational Switching. <i>Journal of the American Chemical Society</i> , 2023, 145, 1660-1667.	6.6	4
321	On-Surface Synthesis of Square-Type Porphyrin Tetramers with Central Antiaromatic Cyclooctatetraene Moiety. <i>Journal of the American Chemical Society</i> , 2023, 145, 967-977.	6.6	7
322	Ultrafast Preparation of Large Area Graphdiyne-Based Membranes via Alkynylated Surface Modification for Nanofiltration. <i>Angewandte Chemie - International Edition</i> , 2023, 62, .	7.2	5
323	Steering Large Magnetic Exchange Coupling in Nanographenes near the Closed-Shell to Open-Shell Transition. <i>Journal of the American Chemical Society</i> , 2023, 145, 2968-2974.	6.6	12
324	Ultra-schnelle Präparation großer Graphdiin-basierter Membranen mittels Alkin-Oberflächenmodifizierung. <i>Angewandte Chemie</i> , 2023, 135, .	1.6	1
325	Room-Temperature C-C Īf-Bond Activation of Biphenylene Derivatives on Cu(111). <i>Journal of Physical Chemistry Letters</i> , 2023, 14, 947-953.	2.1	2
326	Chirality variation from self-assembly on Ullmann coupling for the DBCh adsorbate on Au(111) and Ag(111). <i>Nanoscale Advances</i> , 2023, 5, 1368-1377.	2.2	5
327	Magnetism in Nonplanar Zigzag Edge Termini of Graphene Nanoribbons. <i>Angewandte Chemie</i> , 2023, 135, .	1.6	1
328	Magnetism in Nonplanar Zigzag Edge Termini of Graphene Nanoribbons. <i>Angewandte Chemie - International Edition</i> , 2023, 62, .	7.2	1
329	Highly Selective On-Surface Reactions of Aryl Propiolic Acids via Decarboxylative Coupling. <i>Advanced Materials</i> , 2023, 35, .	11.1	1

#	ARTICLE	IF	CITATIONS
330	On-surface polymerisation and self-assembly of DPP-based molecular wires. <i>Molecular Systems Design and Engineering</i> , 0, , .	1.7	0
331	Ullmann-Like Covalent Bond Coupling without Participation of Metal Atoms. <i>ACS Nano</i> , 2023, 17, 4387-4395.	7.3	0
332	Real-space imaging of a phenyl group migration reaction on metal surfaces. <i>Nature Communications</i> , 2023, 14, .	5.8	2
333	Steering On-Surface Reactions by Kinetic and Thermodynamic Strategies. <i>Journal of Physical Chemistry Letters</i> , 2023, 14, 2251-2262.	2.1	6
334	On-Surface Synthesis of Polyphenylene Wires Comprising Rigid Aliphatic Bicyclo[1.1.1]Pentane Isolator Units. <i>Angewandte Chemie - International Edition</i> , 2023, 62, .	7.2	2
335	On-Surface Synthesis of Polyphenylene Wires Comprising Rigid Aliphatic Bicyclo[1.1.1]Pentane Isolator Units. <i>Angewandte Chemie</i> , 2023, 135, .	1.6	0
336	Highly Stereospecific On-Surface Dimerization into Bishelicenes: Topochemical Ullmann Coupling of Bromohelicene on Au(111). <i>Chemistry - A European Journal</i> , 2023, 29, .	1.7	1
337	Stoichiometry-Directed Two-Level Hierarchical Growth of Lanthanide-Based Supramolecular Nanoarchitectures. <i>Chemistry - A European Journal</i> , 2023, 29, .	1.7	2
338	Insights into the Polymerization Reactions on Solid Surfaces Provided by Scanning Tunneling Microscopy. <i>Journal of Physical Chemistry Letters</i> , 2023, 14, 2463-2472.	2.1	1
339	On-surface synthesis of enetriynes. <i>Nature Communications</i> , 2023, 14, .	5.8	1
340	Innovations in nanosynthesis: emerging techniques for precision, scalability, and spatial control in reactions of organic molecules on solid surfaces. <i>Journal of Physics Condensed Matter</i> , 2023, 35, 183001.	0.7	2
341	Proximity-Induced Superconductivity in Atomically Precise Nanographene on Ag/Nb(110)., 2023, 5, 1083-1090.		2
343	On-Surface Reaction of 1,4-Dibromo-2,5-Diiodobenzene on Au(111) and Ag(100). <i>Journal of Physical Chemistry C</i> , 2023, 127, 5783-5790.	1.5	1
344	Activation, Transportation, and Reaction of Alkyl Radicals on a Si(111)-B Surface by a Scanning Tunneling Microscope Tip. <i>Journal of Physical Chemistry C</i> , 2023, 127, 6002-6009.	1.5	0
345	Coverage Modulated Transformation of the Supramolecular Assembly Structure of Brominated N-Heterocyclic Molecules on Au(111) Surfaces. <i>Journal of Physical Chemistry C</i> , 2023, 127, 5833-5840.	1.5	1
346	Self-assembly of <i>s</i> -indacene-tetrone on Cu(111): molecular trapping and patterning of Cu adatoms. <i>Physical Chemistry Chemical Physics</i> , 2023, 25, 10591-10598.	1.3	0
347	Metal Atoms Participate in the Self-Assembly and On-Surface Reaction Behaviors of 1,4-DBN on Ag(111) Surface. <i>Chemistry - an Asian Journal</i> , 2023, 18, .	1.7	1
348	Pd/Co <sub>3</sub> O <sub>4</sub> —Pd/PdO formed <i>in situ</i> on the surface of the self-assembly ferrocenylimine Pd( <i>scp</i> )/Co( <i>scp</i> ) monolayer for catalyzing the Suzuki cross-coupling reaction—formation, synergistic effect, and catalytic mechanism. <i>New Journal of Chemistry</i> , 0, , .	1.4	0

#	ARTICLE	IF	CITATIONS
349	Topologically localized excitons in single graphene nanoribbons. <i>Science</i> , 2023, 379, 1049-1054.	6.0	8
350	Molecular Bridge Engineering for Tuning Quantum Electronic Transport and Anisotropy in Nanoporous Graphene. <i>Journal of the American Chemical Society</i> , 2023, 145, 8988-8995.	6.6	7
352	Molecular nanoarchitectonics: unification of nanotechnology and molecular/materials science. <i>Beilstein Journal of Nanotechnology</i> , 0, 14, 434-453.	1.5	12
353	Tailoring On-Surface Molecular Reactions and Assembly through Hydrogen-Modified Synthesis: From Triarylamine Monomer to 2D Covalent Organic Framework. <i>ACS Nano</i> , 2023, 17, 7366-7376.	7.3	2
355	Recent advances in magnetism of graphene from 0D to 2D. <i>Chemical Communications</i> , 2023, 59, 6286-6300.	2.2	3
359	On-Surface Cross-Coupling Reactions. <i>Journal of Physical Chemistry Letters</i> , 2023, 14, 4462-4470.	2.1	1
363	Steering on-surface polymerization through coordination with a bidentate ligand. <i>Chemical Communications</i> , 2023, 59, 8067-8070.	2.2	4
364	Structure and Properties of Graphene and Chemically Modified Graphene Materials. , 2023, , 43-75.		0
400	Recent progress in polymer nanosheets for photocatalysis. <i>Journal of Materials Chemistry A</i> , 2023, 11, 23720-23741.	5.2	1
410	On surface synthesis of an eleven-ring sulfur-doped nonacene. <i>Chemical Communications</i> , 0, , .	2.2	0