

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

Chemical Reviews

119, 4717-4776

DOI: 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.	2.1	13
2	Synthesis of Nanographenes, Starphenes, and Sterically Congested Polyarenes by Aryne Cyclotrimerization. <i>Accounts of Chemical Research</i> , 2019, 52, 2472-2481.	15.6	109
3	Two-Sidedness of Surface Reaction Mediation. <i>Advanced Materials</i> , 2019, 31, e1902080.	21.0	12
4	Controlling the stereospecific bonding motif of Au–thiolate links. <i>Nanoscale</i> , 2019, 11, 15567-15575.	5.6	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.	13.7	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.	13.7	69
7	Hierarchy in the Halogen Activation During Surface-Promoted Ullmann Coupling. <i>ChemPhysChem</i> , 2019, 20, 2305-2310.	2.1	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.	15.6	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.	4.6	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.	3.1	3
11	Engineered electronic states in atomically precise artificial lattices and graphene nanoribbons. <i>Advances in Physics: X</i> , 2019, 4, 1651672.	4.1	33
12	Strain-Induced Isomerization in One-Dimensional Metal–Organic Chains. <i>Angewandte Chemie</i> , 2019, 131, 18764-18770.	2.0	19
13	Strain-Induced Isomerization in One-Dimensional Metal–Organic Chains. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 18591-18597.	13.8	37
14	Intermolecular coupling and intramolecular cyclization of aryl nitriles on Au(111). <i>Chemical Communications</i> , 2019, 55, 11611-11614.	4.1	6
15	Reaction selectivity of homochiral versus heterochiral intermolecular reactions of prochiral terminal alkynes on surfaces. <i>Nature Communications</i> , 2019, 10, 4122.	12.8	27
16	Step edge-mediated assembly of periodic arrays of long graphene nanoribbons on Au(111). <i>Chemical Communications</i> , 2019, 55, 11848-11851.	4.1	14
17	Influence of the molecular geometry on the formation of the self-assembled structures. <i>Journal of Molecular Liquids</i> , 2019, 294, 111627.	4.9	6
18	Persistent Homology to Quantify the Quality of Surface-Supported Covalent Networks. <i>ChemPhysChem</i> , 2019, 20, 2286-2291.	2.1	2

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19	On-Surface Photochemistry of Pre-Ordered 1-Methyl-2-phenylacetylenes: C-H Bond Activation and Intermolecular Coupling on Highly Oriented Pyrolytic Graphite. ChemPhysChem, 2019, 20, 2317-2321.	2.1	1
20	High-Resolution Scanning Probe Nanolithography of 2D Materials: Novel Nanostructures. Advanced Materials Technologies, 2019, 4, 1900181.	5.8	15
21	Kinetically Controlled Synthesis of Four- and Six-Member Cyclic Products via Sequential Aryl-Aryl Coupling on a Au(111) Surface. ChemPhysChem, 2019, 20, 2292-2296.	2.1	6
22	Covalent organic frameworks from a monomer with reduced symmetry: polymorphism and Sierpinski triangles. Chemical Communications, 2019, 55, 13586-13589.	4.1	17
23	Hydrogen bond guided synthesis of close-packed one-dimensional graphdiyne on the Ag(111) surface. Chemical Science, 2019, 10, 10849-10852.	7.4	10
24	Design and construction of on-surface molecular nanoarchitectures: lessons and trends from trimesic acid and other small carboxylated building blocks. Journal Physics D: Applied Physics, 2020, 53, 043002.	2.8	32
25	On-Surface Synthesis and Characterization of Triply Fused Porphyrin-Graphene Nanoribbon Hybrids. Angewandte Chemie - International Edition, 2020, 59, 1334-1339.	13.8	47
26	Direct observation of the geometric isomer selectivity of a reaction controlled <i>via</i> adsorbed bromine. Nanoscale, 2020, 12, 2726-2731.	5.6	11
27	Triangulenes: From Precursor Design to On-Surface Synthesis and Characterization. Angewandte Chemie, 2020, 132, 7730-7740.	2.0	18
28	Triangulenes: From Precursor Design to On-Surface Synthesis and Characterization. Angewandte Chemie - International Edition, 2020, 59, 7658-7668.	13.8	53
29	On-Surface Synthesis and Characterization of Triply Fused Porphyrin-Graphene Nanoribbon Hybrids. Angewandte Chemie, 2020, 132, 1350-1355.	2.0	11
30	Molecular engineering in 2D surface covalent organic frameworks: Towards next generation of molecular tectons - A mini review. Synthetic Metals, 2020, 260, 116265.	3.9	7
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33	On-Surface Synthesis and Characterization of Polythiophene Chains. Journal of Physical Chemistry C, 2020, 124, 764-768.	3.1	6
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36	Inducing Open-Shell Character in Porphyrins through Surface-Assisted Phenalenyl π -Extension. Journal of the American Chemical Society, 2020, 142, 18109-18117.	13.7	41

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38	Large-extended 2D supramolecular network of dipoles with parallel arrangement on a Si(111)â€“B surface. Nanoscale, 2020, 12, 17399-17404.	5.6	2
39	On-Surface Synthesis of Chlorinated Narrow Graphene Nanoribbon Organometallic Hybrids. Journal of Physical Chemistry Letters, 2020, 11, 10290-10297.	4.6	14
40	Oxygenâ€“induced 1D to 2D Transformation of Onâ€“Surface Organometallic Structures. Small, 2020, 16, 2002393.	10.0	6
41	Aryl Triflates in Onâ€“Surface Chemistry. Chemistry - A European Journal, 2020, 26, 16727-16732.	3.3	1
42	Coupled Spin States in Armchair Graphene Nanoribbons with Asymmetric Zigzag Edge Extensions. Nano Letters, 2020, 20, 6429-6436.	9.1	64
43	Dimensionality Concept in Solidâ€“State Reactions: A Way to Control Synthesis of Functional Materials at the Nanoscale. Advanced Functional Materials, 2020, 30, 2002691.	14.9	8
44	On-Surface Growth of Single-Layered Homochiral 2D Covalent Organic Frameworks by Steric Hindrance Strategy. Journal of the American Chemical Society, 2020, 142, 14350-14356.	13.7	30
45	Role of the Metal Surface on the Room Temperature Activation of the Alcohol and Amino Groups of <i>p</i> -Aminophenol. Journal of Physical Chemistry C, 2020, 124, 19655-19665.	3.1	2
46	On-surface synthesis of goldâ€“coronene molecular wires. Chemical Communications, 2020, 56, 11239-11242.	4.1	3
47	Templating Effect of Different Low-Miller-Index Gold Surfaces on the Bottom-Up Growth of Graphene Nanoribbons. ACS Applied Nano Materials, 2020, 3, 11497-11509.	5.0	2
48	Kohlenstoffâ€“Kohlenstoffâ€“Kupplung auf inerten OberflÃ“chen durch die Abscheidung von en route erzeugten Aryl Radikalen. Angewandte Chemie, 2020, 132, 22976-22981.	2.0	0
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50	Electronic decoupling of polyacenes from the underlying metal substrate by sp ³ carbon atoms. Communications Physics, 2020, 3, .	5.3	9
51	Metallic bands in chevron-type polyacenes. RSC Advances, 2020, 10, 33844-33850.	3.6	4
52	Onâ€“surface Synthesis of a Chiral Graphene Nanoribbon with Mixed Edge Structure. Chemistry - an Asian Journal, 2020, 15, 3807-3811.	3.3	17
53	Surface-Confined Metalâ€“Organic Precursors Comprising Naphthalene-Like Derivatives with Differently Distributed Halogen Substituents: A Monte Carlo Model. Journal of Physical Chemistry C, 2020, 124, 20280-20293.	3.1	19
54	Intramolecular Coupling of Terminal Alkynes by Atom Manipulation. Angewandte Chemie - International Edition, 2020, 59, 22989-22993.	13.8	15

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56	Edge-On Self-Assembly of Tetra-bromoanthracenyl-porphyrin on Silver Surfaces. <i>Journal of Physical Chemistry C</i> , 2020, 124, 22137-22142.	3.1	3
57	Atomic-Level Electronic Properties of Carbon Nitride Monolayers. <i>ACS Nano</i> , 2020, 14, 14008-14016.	14.6	22
58	Tailoring π -conjugation and vibrational modes to steer on-surface synthesis of pentalene-bridged ladder polymers. <i>Nature Communications</i> , 2020, 11, 4567.	12.8	36
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60	On-Surface Synthesis with Atomic Hydrogen. <i>ACS Nano</i> , 2020, 14, 13316-13323.	14.6	32
61	Stabilizing Edge Fluorination in Graphene Nanoribbons. <i>ACS Nano</i> , 2020, 14, 11120-11129.	14.6	23
62	Archimedean Tessellation Found by the Variation of Building Blocks TM and Linkers TM Geometry: In Silico Investigations. <i>Journal of Physical Chemistry C</i> , 2020, 124, 20101-20108.	3.1	6
63	Selective Intramolecular Dehydrocyclization of Co-Porphyrin on Au(111). <i>Molecules</i> , 2020, 25, 3766.	3.8	7
64	Noncontact atomic force microscopy: Bond imaging and beyond. <i>Surface Science Reports</i> , 2020, 75, 100509.	7.2	23
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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.	13.7	53
67	Resolving Quinoid Structure in Poly(<i>para</i> -phenylene) Chains. <i>Journal of the American Chemical Society</i> , 2020, 142, 10034-10041.	13.7	20
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70	On-Surface Cascade Reaction Based on Successive Debromination via Metal–Organic Coordination Template. <i>Langmuir</i> , 2020, 36, 6286-6291.	3.5	10
71	On-surface synthesis of super-heptazethrene. <i>Chemical Communications</i> , 2020, 56, 7467-7470.	4.1	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.	3.0	8

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73	Broadband-absorbing polycyclic aromatic hydrocarbon composite films on topologically complex substrates. <i>Organic Electronics</i> , 2020, 85, 105862.	2.6	0
74	Experimental Realization of One-Dimensional Metal-Inorganic Chain: Gold-Phosphorus Chain. , 2020, 2, 873-879.		9
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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.	13.7	44
82	On-surface synthesis of planar acenes <i>via</i> regioselective aryl-aryl coupling. <i>Chemical Communications</i> , 2020, 56, 4890-4893.	4.1	9
83	Interfacial Synthesis of a Monolayered Fluorescent Two-Dimensional Polymer through Dynamic Imine Chemistry. <i>ChemistryOpen</i> , 2020, 9, 381-385.	1.9	7
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86	Large-Cavity Coronoids with Different Inner and Outer Edge Structures. <i>Journal of the American Chemical Society</i> , 2020, 142, 12046-12050.	13.7	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.	3.1	10
88	Epitaxial growth of single tellurium atomic wires on a Cu ₂ Sb surface alloy. <i>Applied Physics Letters</i> , 2020, 116, .	3.3	10
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92	Covalent C-N Bond Formation through a Surface Catalyzed Thermal Cyclodehydrogenation. Journal of the American Chemical Society, 2020, 142, 3696-3700.	13.7	27
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110	Azobindungsbildung auf Metalloberflächen. Angewandte Chemie, 2021, 133, 1478-1485.	2.0	0
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117	On-surface synthesis of graphene nanostructures with π -magnetism. Chemical Society Reviews, 2021, 50, 3238-3262.	38.1	102
118	Manifold dynamic non-covalent interactions for steering molecular assembly and cyclization. Chemical Science, 2021, 12, 11659-11667.	7.4	9
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128	Initiating Ullmann-like coupling of Br2Py by a semimetal surface. Scientific Reports, 2021, 11, 3414.	3.3	9
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150	Bottom-Up Fabrication and Atomic-Scale Characterization of Triply Linked, Laterally Extended Porphyrin Nanotapes**. Angewandte Chemie, 2021, 133, 16344-16350.	2.0	5
151	Topology and ground state control in open-shell donor-acceptor conjugated polymers. Cell Reports Physical Science, 2021, 2, 100467.	5.6	14
152	Bottom-Up Fabrication and Atomic-Scale Characterization of Triply Linked, Laterally Extended Porphyrin Nanotapes**. Angewandte Chemie - International Edition, 2021, 60, 16208-16214.	13.8	25
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