

Qiang Sun

List of Publications by Year in descending order

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77
papers

2,405
citations

185998

28
h-index

223531

46
g-index

80
all docs

80
docs citations

80
times ranked

2063
citing authors

#	ARTICLE	IF	CITATIONS
1	On-Surface Formation of One-Dimensional Polyphenylene through Bergman Cyclization. <i>Journal of the American Chemical Society</i> , 2013, 135, 8448-8451.	6.6	154
2	Dehalogenative Homocoupling of Terminal Alkynyl Bromides on Au(111): Incorporation of Acetylenic Scaffolding into Surface Nanostructures. <i>ACS Nano</i> , 2016, 10, 7023-7030.	7.3	150
3	On-Surface Synthesis of Carbon Nanostructures. <i>Advanced Materials</i> , 2018, 30, e1705630.	11.1	121
4	On-surface aryl-aryl coupling via selective C-H activation. <i>Chemical Communications</i> , 2014, 50, 11825-11828.	2.2	106
5	Bottom-Up Synthesis of Metalated Carbyne. <i>Journal of the American Chemical Society</i> , 2016, 138, 1106-1109.	6.6	104
6	CO ₂ Electroreduction Performance of Phthalocyanine Sheet with Mn Dimer: A Theoretical Study. <i>Journal of Physical Chemistry C</i> , 2017, 121, 3963-3969.	1.5	95
7	On-surface construction of a metal-organic Sierpinski triangle. <i>Chemical Communications</i> , 2015, 51, 14164-14166.	2.2	75
8	On-surface synthesis and characterization of individual polyacetylene chains. <i>Nature Chemistry</i> , 2019, 11, 924-930.	6.6	67
9	Dehydrogenative Homocoupling of Terminal Alkenes on Copper Surfaces: A Route to Dienes. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 4549-4552.	7.2	66
10	Coupled Spin States in Armchair Graphene Nanoribbons with Asymmetric Zigzag Edge Extensions. <i>Nano Letters</i> , 2020, 20, 6429-6436.	4.5	64
11	Competition between Hydrogen Bonds and Coordination Bonds Steered by the Surface Molecular Coverage. <i>ACS Nano</i> , 2017, 11, 3727-3732.	7.3	60
12	Formation of polyphenyl chains through hierarchical reactions: Ullmann coupling followed by cross-dehydrogenative coupling. <i>Chemical Communications</i> , 2015, 51, 495-498.	2.2	58
13	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
14	On-Surface Formation of Cumulene by Dehalogenative Homocoupling of Alkenyl <i>gem</i> -Dibromides. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 12165-12169.	7.2	52
15	Direct Formation of C ¹³ C Triple-Bonded Structural Motifs by On-Surface Dehalogenative Homocouplings of Tribromomethyl-Substituted Arenes. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 4035-4038.	7.2	50
16	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
17	On-surface formation of two-dimensional polymer via direct C-H activation of metal phthalocyanine. <i>Chemical Communications</i> , 2015, 51, 2836-2839.	2.2	46
18	Controlled Quantum Dot Formation in Atomically Engineered Graphene Nanoribbon Field-Effect Transistors. <i>ACS Nano</i> , 2020, 14, 5754-5762.	7.3	46

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19	Massive Dirac Fermion Behavior in a Low Bandgap Graphene Nanoribbon Near a Topological Phase Boundary. <i>Advanced Materials</i> , 2020, 32, e1906054.	11.1	44
20	Inducing Open-Shell Character in Porphyrins through Surface-Assisted Phenalenyl π -Extension. <i>Journal of the American Chemical Society</i> , 2020, 142, 18109-18117.	6.6	41
21	Ni-induced supramolecular structural transformation of cytosine on Au(111): from one-dimensional chains to zero-dimensional clusters. <i>Chemical Communications</i> , 2014, 50, 3242.	2.2	39
22	Atomic-Scale Investigation on the Facilitation and Inhibition of Guanine Tautomerization at Au(111) Surface. <i>ACS Nano</i> , 2014, 8, 1804-1808.	7.3	38
23	A Universal Length-Dependent Vibrational Mode in Graphene Nanoribbons. <i>ACS Nano</i> , 2019, 13, 13083-13091.	7.3	36
24	Formation of a G-Quartet-Fe Complex and Modulation of Electronic and Magnetic Properties of the Fe Center. <i>ACS Nano</i> , 2014, 8, 11799-11805.	7.3	35
25	Single-molecule insight into Wurtz reactions on metal surfaces. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 2730-2735.	1.3	31
26	Evolution of the Topological Energy Band in Graphene Nanoribbons. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 8679-8684.	2.1	30
27	Optimized graphene electrodes for contacting graphene nanoribbons. <i>Carbon</i> , 2021, 184, 331-339.	5.4	30
28	Lightwave-driven scanning tunnelling spectroscopy of atomically precise graphene nanoribbons. <i>Nature Communications</i> , 2021, 12, 6794.	5.8	29
29	Solventless Formation of G-Quartet Complexes Based on Alkali and Alkaline Earth Salts on Au(111). <i>ChemPhysChem</i> , 2015, 16, 2099-2105.	1.0	28
30	Controllable Scission and Seamless Stitching of Metal-Organic Clusters by STM Manipulation. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 6526-6530.	7.2	28
31	On-surface synthesis of singly and doubly porphyrin-capped graphene nanoribbon segments. <i>Chemical Science</i> , 2021, 12, 247-252.	3.7	27
32	Atomic-scale structures and interactions between the guanine quartet and potassium. <i>Chemical Communications</i> , 2013, 49, 7210.	2.2	26
33	The stereoselective synthesis of dienes through dehalogenative homocoupling of terminal alkenyl bromides on Cu(110). <i>Chemical Communications</i> , 2016, 52, 6009-6012.	2.2	26
34	Bottom-up Fabrication and Atomic-Scale Characterization of Triply Linked, Laterally π -Extended Porphyrin Nanotapes**. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 16208-16214.	7.2	25
35	Direct Formation of C-C Double-Bonded Structural Motifs by On-Surface Dehalogenative Homocoupling of <i>gem</i> -Dibromomethyl Molecules. <i>ACS Nano</i> , 2018, 12, 7959-7966.	7.3	24
36	Scanning tunneling microscopy and Raman spectroscopy of polymeric sp^2 carbon atomic wires synthesized on the Au(111) surface. <i>Nanoscale</i> , 2019, 11, 18191-18200.	2.8	24

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37	Real-Space Evidence of Rare Guanine Tautomer Induced by Water. ACS Nano, 2016, 10, 3776-3782.	7.3	23
38	On-surface synthesis of polyazulene with 2,6-connectivity. Chemical Communications, 2019, 55, 13466-13469.	2.2	23
39	On-Surface Synthesis of Cumulene-Containing Polymers via Two-Step Dehalogenative Homocoupling of Dibromomethylene-Functionalized Tribenzoazulene. Angewandte Chemie - International Edition, 2020, 59, 13281-13287.	7.2	23
40	On-surface synthesis of graphyne nanowires through stepwise reactions. Chemical Communications, 2020, 56, 1685-1688.	2.2	19
41	Identification of Molecular Adsorption Geometries and Intermolecular Hydrogen Bonding Configurations by In Situ STM Manipulation. Angewandte Chemie - International Edition, 2013, 52, 7442-7445.	7.2	18
42	On-Surface Formation of Cumulene by Dehalogenative Homocoupling of Alkenyl <i>gem</i> -Dibromides. Angewandte Chemie, 2017, 129, 12333-12337.	1.6	18
43	Growth Optimization and Device Integration of Narrow-Bandgap Graphene Nanoribbons. Small, 2022, 18, .	5.2	17
44	A self-assembled molecular nanostructure for trapping the native adatoms on Cu(110). Chemical Communications, 2013, 49, 1735.	2.2	15
45	Dehydrogenative Homocoupling of Alkyl Chains on Cu(110). Chemistry - A European Journal, 2016, 22, 1918-1921.	1.7	15
46	On-Surface Synthesis of Cumulene-Containing Polymers via Two-Step Dehalogenative Homocoupling of Dibromomethylene-Functionalized Tribenzoazulene. Angewandte Chemie, 2020, 132, 13383-13389.	1.6	15
47	Reversible Dehalogenation in On-Surface Aryl-Aryl Coupling. Angewandte Chemie - International Edition, 2020, 59, 14106-14110.	7.2	15
48	Nickel Adatoms Induced Tautomeric Dehydrogenation of Thymine Molecules on Au(111). ACS Nano, 2018, 12, 9033-9039.	7.3	14
49	Structural, Electronic, and Vibrational Properties of a Two-Dimensional Graphdiyne-like Carbon Nanonetwork Synthesized on Au(111): Implications for the Engineering of sp^2 Carbon Nanostructures. ACS Applied Nano Materials, 2020, 3, 12178-12187.	2.4	14
50	Surface-assisted <i>cis</i> - <i>trans</i> isomerization of an alkene molecule on Cu(110). Chemical Communications, 2014, 50, 1728-1730.	2.2	13
51	Steering On-Surface Supramolecular Nanostructures by <i>tert</i> -Butyl Group. Journal of Physical Chemistry C, 2014, 118, 3088-3092.	1.5	11
52	On-Surface Synthesis and Characterization of Triply Fused Porphyrin-Graphene Nanoribbon Hybrids. Angewandte Chemie, 2020, 132, 1350-1355.	1.6	11
53	Lattice-Directed Selective Synthesis of Acetylenic and Diacetylenic Organometallic Polyynes. Chemistry of Materials, 2022, 34, 1770-1777.	3.2	11
54	On-surface synthesis of organometallic complex via metal-alkene interactions. Chemical Communications, 2014, 50, 15924-15927.	2.2	10

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55	Self-assembly of melem on Au(111) and Ag(111): the origin of two different hydrogen bonding configurations. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 18704-18708.	1.3	10
56	Direct Formation of C≡C Triple-Bonded Structural Motifs by On-Surface Dehalogenative Homocouplings of Tribromomethyl-Substituted Arenes. <i>Angewandte Chemie</i> , 2018, 130, 4099-4102.	1.6	10
57	Magnetic two-dimensional organic topological insulator: Au-1,3,5-triethynylbenzene framework. <i>Journal of Chemical Physics</i> , 2017, 147, 104704.	1.2	9
58	Asymmetric Elimination Reaction on Chiral Metal Surfaces. <i>Advanced Materials</i> , 2022, 34, e2104481.	11.1	9
59	Magnetic Interplay between <i>d</i> -Electrons of Open-Shell Porphyrins and <i>d</i> -Electrons of Their Central Transition Metal Ions. <i>Advanced Science</i> , 2022, 9, e2105906.	5.6	9
60	Controlling on-surface molecular diffusion behaviors by functionalizing the organic molecules with tert-butyl groups. <i>Applied Physics Letters</i> , 2013, 103, 013103.	1.5	8
61	Oxygen-induced self-assembly of quaterphenyl molecules on metal surfaces. <i>Chemical Communications</i> , 2014, 50, 12112-12115.	2.2	8
62	Molecular heterostructure by fusing graphene nanoribbons of different lengths through a pentagon ring junction. <i>Nano Research</i> , 0, , .	5.8	8
63	Regulating the Interactions of Adsorbates on Surfaces by Scanning Tunneling Microscopy Manipulation. <i>ChemPhysChem</i> , 2014, 15, 2657-2663.	1.0	6
64	Exploring the Self-Assembly Behaviors of an Organic Molecule Functionalized by Terminal Alkyne and Aldehyde Groups on Au(111). <i>Journal of Physical Chemistry C</i> , 2015, 119, 12935-12940.	1.5	6
65	A molecular conformational change induced self-assembly: from randomness to order. <i>Chemical Communications</i> , 2013, 49, 5207.	2.2	5
66	Tailoring on-surface supramolecular architectures based on adenine directed self-assembly. <i>Chemical Communications</i> , 2014, 50, 356-358.	2.2	5
67	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
68	The Stereoselective Formation of trans -Cumulene through Dehalogenative Homocoupling of Alkenyl gem -Dibromides on Cu(110). <i>ChemCatChem</i> , 2019, 11, 5417-5420.	1.8	4
69	Adsorption-geometry induced transformation of self-assembled nanostructures of an aldehyde molecule on Cu(110). <i>Nanoscale</i> , 2014, 6, 11062-11065.	2.8	3
70	On-Surface Construction of Network Structures by the <i>tert</i> -Butyl-Substituted Organic Molecules. <i>Journal of Physical Chemistry C</i> , 2015, 119, 8155-8159.	1.5	3
71	Exploring Intramolecular Methyl-Methyl Coupling on a Metal Surface for Edge-Extended Graphene Nanoribbons. <i>Organic Materials</i> , 2021, 03, 128-133.	1.0	3
72	Reversible Dehalogenation in On-Surface Aryl-Aryl Coupling. <i>Angewandte Chemie</i> , 2020, 132, 14210-14214.	1.6	2

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73	On-surface synthesis of organocopper metallacycles through activation of inner diacetylene moieties. <i>Chemical Science</i> , 2021, 12, 12806-12811.	3.7	2
74	Self-assembled nanostructures of a di-carbonitrile molecule on copper single-crystal surfaces. <i>RSC Advances</i> , 2017, 7, 1771-1775.	1.7	0
75	On-surface stereoconvergent synthesis, dimerization and hybridization of organocopper complexes. <i>Science China Chemistry</i> , 2019, 62, 126-132.	4.2	0
76	Dehydrogenative and Dehalogenative Homocoupling Reactions of C ₆₀ Groups on Metal Surfaces. <i>Advances in Atom and Single Molecule Machines</i> , 2018, , 63-81.	0.0	0
77	THz-STM of Atomically Precise Graphene Nanoribbons. , 2020, , .		0