

Wei Xu

List of Publications by Year in descending order

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111
papers

3,843
citations

117625

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138484

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116
all docs

116
docs citations

116
times ranked

3128
citing authors

#	ARTICLE	IF	CITATIONS
1	Hydration of iodine adsorbed on the Au(111) surface. <i>Fundamental Research</i> , 2022, 2, 546-549.	3.3	5
2	Lattice-Directed Selective Synthesis of Acetylenic and Diacetylenic Organometallic Polyyenes. <i>Chemistry of Materials</i> , 2022, 34, 1770-1777.	6.7	11
3	Interconversion between guanine quartets and triads on the Au(111) surface. <i>Chemical Communications</i> , 2022, 58, 3198-3201.	4.1	2
4	Interactions between water and organic molecules or inorganic salts on surfaces. <i>Aggregate</i> , 2022, 3, .	9.9	2
5	Local Chiral Inversion of Thymine Dimers by Manipulating Single Water Molecules. <i>Journal of the American Chemical Society</i> , 2022, 144, 5023-5028.	13.7	13
6	On-Surface Debromination of C ₆ Br ₆ : C ₆ Ring versus C ₆ Chain. <i>ACS Nano</i> , 2022, 16, 6578-6584.	14.6	14
7	On-Surface Synthesis of sp-Carbon Nanostructures. <i>Nanomaterials</i> , 2022, 12, 137.	4.1	3
8	On-Surface Fabrication of Complex Hybrid Nanostructures. <i>Journal of Physical Chemistry C</i> , 2021, 125, 354-357.	3.1	2
9	ON-SURFACE MOLECULAR REACTIONS. <i>Surface Review and Letters</i> , 2021, 28, 2140006.	1.1	0
10	On-Surface Fabrication of Bimetallic Metal-Organic Frameworks through the Synergy and Competition among Noncovalent Interactions. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 5228-5232.	4.6	6
11	Selective On-Surface Reactions of the Alkenyl <i>gem</i> -Dibromide Group Directed by Substrate Lattices. <i>Journal of Physical Chemistry C</i> , 2021, 125, 23840-23847.	3.1	3
12	Water-Induced Chiral Separation on a Au(111) Surface. <i>ACS Nano</i> , 2021, 15, 16896-16903.	14.6	20
13	On-surface synthesis of graphyne nanowires through stepwise reactions. <i>Chemical Communications</i> , 2020, 56, 1685-1688.	4.1	19
14	Selectively Scissoring Hydrogen-Bonded Cytosine Dimer Structures Catalyzed by Water Molecules. <i>ACS Nano</i> , 2020, 14, 10680-10687.	14.6	10
15	Real-Space Evidence of Trimeric, Tetrameric, and Pentameric Uracil Clusters Induced by Alkali Metals. <i>Journal of Physical Chemistry C</i> , 2020, 124, 5257-5262.	3.1	5
16	Dissymmetric On-Surface Dehalogenation Reaction Steered by Preformed Self-Assembled Structure. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 1867-1872.	4.6	15
17	Bond-Scission-Induced Structural Transformation from Cumulene to Diyne Moiety and Formation of Semiconducting Organometallic Polyyne. <i>Journal of the American Chemical Society</i> , 2020, 142, 8085-8089.	13.7	14
18	Tunable Thiolate Coordination Networks on Metal Surfaces. <i>ChemNanoMat</i> , 2020, 6, 1479-1484.	2.8	14

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19	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.	5.0	14
20	Switching the Spin on a Ni Trimer within a Metal-Organic Motif by Controlling the On-Top Bromine Atom. ACS Nano, 2019, 13, 9936-9943.	14.6	14
21	The Stereoselective Formation of trans α -Cumulene through Dehalogenative Homocoupling of Alkenyl gem α -Dibromides on Cu(110). ChemCatChem, 2019, 11, 5417-5420.	3.7	4
22	On-surface synthesis and characterization of individual polyacetylene chains. Nature Chemistry, 2019, 11, 924-930.	13.6	67
23	Linear array of cesium atoms assisted by uracil molecules on Au(111). Chemical Communications, 2019, 55, 12064-12067.	4.1	3
24	On-Surface Synthesis of One-Dimensional Carbon-Based Nanostructures via $C-X$ and $C-H$ Activation Reactions. ChemPhysChem, 2019, 20, 2251-2261.	2.1	15
25	Dissolution of Sodium Halides by Confined Water on Au(111) <i>via</i> Langmuir-Hinshelwood Process. ACS Nano, 2019, 13, 6025-6032.	14.6	7
26	Chlorine-assisted fabrication of hybrid supramolecular structures <i>via</i> electrostatic interactions. Physical Chemistry Chemical Physics, 2019, 21, 9357-9361.	2.8	9
27	On-Surface Intramolecular Dehalogenation of Vicinal Dibromides for the Direct Formation of $C=C$ Double Bonds. Journal of Physical Chemistry C, 2019, 123, 30467-30472.	3.1	1
28	Scanning tunneling microscopy and Raman spectroscopy of polymeric sp^2 carbon atomic wires synthesized on the Au(111) surface. Nanoscale, 2019, 11, 18191-18200.	5.6	24
29	On-surface stereoconvergent synthesis, dimerization and hybridization of organocopper complexes. Science China Chemistry, 2019, 62, 126-132.	8.2	0
30	Direct Formation of $C-C$ Triple-Bonded Structural Motifs by On-Surface Dehalogenative Homocouplings of Tribromomethyl-Substituted Arenes. Angewandte Chemie - International Edition, 2018, 57, 4035-4038.	13.8	50
31	On-Surface Synthesis of Carbon Nanostructures. Advanced Materials, 2018, 30, e1705630.	21.0	121
32	Direct Formation of $C-C$ Triple-Bonded Structural Motifs by On-Surface Dehalogenative Homocouplings of Tribromomethyl-Substituted Arenes. Angewandte Chemie, 2018, 130, 4099-4102.	2.0	10
33	Hierarchical formation of Fe-9eG supramolecular networks <i>via</i> flexible coordination bonds. Physical Chemistry Chemical Physics, 2018, 20, 3694-3698.	2.8	1
34	Scission and stitching of adenine structures by water molecules. Chemical Communications, 2018, 54, 771-774.	4.1	14
35	Real-space evidence of Watson-Crick and Hoogsteen adenine-uracil base pairs on Au(111). Chemical Communications, 2018, 54, 3715-3718.	4.1	4
36	Iodine-Induced Structural Transformations of Co-Phthalocyanine on Au(111). Journal of Physical Chemistry C, 2018, 122, 22959-22964.	3.1	9

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37	Three-dimensional hydrogen bonding between Landers and planar molecules facilitated by electrostatic interactions with Ni adatoms. <i>Chemical Communications</i> , 2018, 54, 8845-8848.	4.1	1
38	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.	14.6	24
39	Two-dimensional self-assembled nanostructures of nucleobases and their related derivatives on Au(111). <i>Chemical Communications</i> , 2018, 54, 9259-9269.	4.1	13
40	Nickel Adatoms Induced Tautomeric Dehydrogenation of Thymine Molecules on Au(111). <i>ACS Nano</i> , 2018, 12, 9033-9039.	14.6	14
41	Interactions between Bases and Metals on Au(111) under Ultrahigh Vacuum Conditions. <i>Wuli Huaxue Xuebao/ Acta Physico - Chimica Sinica</i> , 2018, 34, 1321-1333.	4.9	2
42	Dehydrogenative and Dehalogenative Homocoupling Reactions of C-X Groups on Metal Surfaces. <i>Advances in Atom and Single Molecule Machines</i> , 2018, , 63-81.	0.0	0
43	Structural Transformation and Stabilization of Metal-Organic Motifs Induced by Halogen Doping. <i>Angewandte Chemie</i> , 2017, 129, 5159-5163.	2.0	7
44	Structural Transformation and Stabilization of Metal-Organic Motifs Induced by Halogen Doping. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 5077-5081.	13.8	21
45	Competition between Hydrogen Bonds and Coordination Bonds Steered by the Surface Molecular Coverage. <i>ACS Nano</i> , 2017, 11, 3727-3732.	14.6	60
46	On-Surface Dual-Response Structural Transformations of Guanine Molecules and Fe Atoms. <i>Chemistry - A European Journal</i> , 2017, 23, 2356-2362.	3.3	16
47	On-Surface Synthesis of Adenine Oligomers via Ullmann Reaction. <i>ChemPhysChem</i> , 2017, 18, 3544-3547.	2.1	2
48	On-Surface Formation of Cumulene by Dehalogenative Homocoupling of Alkenyl <i>gem</i> -Dibromides. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 12165-12169.	13.8	52
49	On-Surface Formation of Cumulene by Dehalogenative Homocoupling of Alkenyl <i>gem</i> -Dibromides. <i>Angewandte Chemie</i> , 2017, 129, 12333-12337.	2.0	18
50	Real-space evidence of the formation of the GCGC tetrad and its competition with the G-quartet on the Au(111) surface. <i>Chemical Communications</i> , 2017, 53, 9846-9849.	4.1	4
51	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.	2.8	10
52	Structural diversity of metal-organic self-assembly assisted by chlorine. <i>Chemical Communications</i> , 2017, 53, 8767-8769.	4.1	8
53	Constitutional Dynamics of Metal-Organic Motifs on a Au(111) Surface. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 7157-7160.	13.8	17
54	Dehydrogenative Homocoupling of Alkyl Chains on Cu(110). <i>Chemistry - A European Journal</i> , 2016, 22, 1918-1921.	3.3	15

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55	The stereoselective synthesis of dienes through dehalogenative homocoupling of terminal alkenyl bromides on Cu(110). <i>Chemical Communications</i> , 2016, 52, 6009-6012.	4.1	26
56	Constitutional Dynamics of Metal-Organic Motifs on a Au(111) Surface. <i>Angewandte Chemie</i> , 2016, 128, 7273-7276.	2.0	4
57	Dehalogenative Homocoupling of Terminal Alkynyl Bromides on Au(111): Incorporation of Acetylenic Scaffolding into Surface Nanostructures. <i>ACS Nano</i> , 2016, 10, 7023-7030.	14.6	150
58	Bottom-Up Synthesis of Metalated Carbyne. <i>Journal of the American Chemical Society</i> , 2016, 138, 1106-1109.	13.7	104
59	Single-molecule insight into Wurtz reactions on metal surfaces. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 2730-2735.	2.8	31
60	Real-Space Evidence of Rare Guanine Tautomer Induced by Water. <i>ACS Nano</i> , 2016, 10, 3776-3782.	14.6	23
61	Solventless Formation of G-Quartet Complexes Based on Alkali and Alkaline Earth Salts on Au(111). <i>ChemPhysChem</i> , 2015, 16, 2099-2105.	2.1	28
62	Controllable Scission and Seamless Stitching of Metal-Organic Clusters by STM Manipulation. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 6526-6530.	13.8	28
63	Dehydrogenative Homocoupling of Terminal Alkenes on Copper Surfaces: A Route to Dienes. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 4549-4552.	13.8	66
64	Formation of polyphenyl chains through hierarchical reactions: Ullmann coupling followed by cross-dehydrogenative coupling. <i>Chemical Communications</i> , 2015, 51, 495-498.	4.1	58
65	On-surface construction of a metal-organic Sierpinski triangle. <i>Chemical Communications</i> , 2015, 51, 14164-14166.	4.1	75
66	Atomic-Scale Insight into Tautomeric Recognition, Separation, and Interconversion of Guanine Molecular Networks on Au(111). <i>Journal of the American Chemical Society</i> , 2015, 137, 11795-11800.	13.7	41
67	On-surface formation of two-dimensional polymer via direct C-H activation of metal phthalocyanine. <i>Chemical Communications</i> , 2015, 51, 2836-2839.	4.1	46
68	Surface-assisted cis-trans isomerization of an alkene molecule on Cu(110). <i>Chemical Communications</i> , 2014, 50, 1728-1730.	4.1	13
69	On-surface aryl-aryl coupling via selective C-H activation. <i>Chemical Communications</i> , 2014, 50, 11825-11828.	4.1	106
70	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.	4.1	39
71	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.	14.6	35
72	On-surface synthesis of organometallic complex via metal-alkene interactions. <i>Chemical Communications</i> , 2014, 50, 15924-15927.	4.1	10

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73	Tailoring on-surface supramolecular architectures based on adenine directed self-assembly. <i>Chemical Communications</i> , 2014, 50, 356-358.	4.1	5
74	Oxygen-induced self-assembly of quaterphenyl molecules on metal surfaces. <i>Chemical Communications</i> , 2014, 50, 12112-12115.	4.1	8
75	Adsorption-geometry induced transformation of self-assembled nanostructures of an aldehyde molecule on Cu(110). <i>Nanoscale</i> , 2014, 6, 11062-11065.	5.6	3
76	Atomic-Scale Investigation on the Facilitation and Inhibition of Guanine Tautomerization at Au(111) Surface. <i>ACS Nano</i> , 2014, 8, 1804-1808.	14.6	38
77	Regulating the Interactions of Adsorbates on Surfaces by Scanning Tunneling Microscopy Manipulation. <i>ChemPhysChem</i> , 2014, 15, 2657-2663.	2.1	6
78	Atomic-scale structures and interactions between the guanine quartet and potassium. <i>Chemical Communications</i> , 2013, 49, 7210.	4.1	26
79	A self-assembled molecular nanostructure for trapping the native adatoms on Cu(110). <i>Chemical Communications</i> , 2013, 49, 1735.	4.1	15
80	On-Surface Formation of One-Dimensional Polyphenylene through Bergman Cyclization. <i>Journal of the American Chemical Society</i> , 2013, 135, 8448-8451.	13.7	154
81	Identification of Molecular Adsorption Geometries and Intermolecular Hydrogen Bonding Configurations by In Situ STM Manipulation. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 7442-7445.	13.8	18
82	A molecular conformational change induced self-assembly: from randomness to order. <i>Chemical Communications</i> , 2013, 49, 5207.	4.1	5
83	Atomic-Scale Probing the Priority of Oxidation Sites of an Organic Molecule Adsorbed at the Cu ₂ O/Cu(110) Interface. <i>ChemCatChem</i> , 2013, 5, 2662-2666.	3.7	0
84	Controlling on-surface molecular diffusion behaviors by functionalizing the organic molecules with tert-butyl groups. <i>Applied Physics Letters</i> , 2013, 103, 013103.	3.3	8
85	From zero to two dimensions: supramolecular nanostructures formed from perylene-3,4,9,10-tetracarboxylic diimide (PTCDI) and Ni on the Au(111) surface through the interplay between hydrogen-bonding and electrostatic metal-organic interactions. <i>Nano Research</i> , 2012, 5, 903-916.	10.4	31
86	Linear hydrogen adsorbate structures on graphite induced by self-assembled molecular monolayers. <i>Carbon</i> , 2012, 50, 2052-2056.	10.3	12
87	Homochiral Xanthine Quintet Networks Self-Assembled on Au(111) Surfaces. <i>ACS Nano</i> , 2011, 5, 6651-6660.	14.6	18
88	Interplay of adsorbate-adsorbate and adsorbate-substrate interactions in self-assembled molecular surface nanostructures. <i>Nano Research</i> , 2010, 3, 459-471.	10.4	29
89	Supramolecular Porous Network Formed by Molecular Recognition between Chemically Modified Nucleobases Guanine and Cytosine. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 9373-9377.	13.8	45
90	Unzipping of Functionalized Multiwall Carbon Nanotubes Induced by STM. <i>Nano Letters</i> , 2010, 10, 1764-1768.	9.1	50

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91	Controlled Functionalization of Carbon Nanotubes by a Solvent-free Multicomponent Approach. ACS Nano, 2010, 4, 7379-7386.	14.6	57
92	Guanine- and Potassium-Based Two-Dimensional Coordination Network Self-Assembled on Au(111). Journal of the American Chemical Society, 2010, 132, 15927-15929.	13.7	49
93	Supramolecular Architectures on Surfaces Formed through Hydrogen Bonding Optimized in Three Dimensions. ACS Nano, 2010, 4, 4097-4109.	14.6	48
94	STM manipulation of molecular moulds on metal surfaces. Nano Research, 2009, 2, 254-259.	10.4	29
95	Exploring the transferability of large supramolecular assemblies to the vacuum-solid interface. Nano Research, 2009, 2, 535-542.	10.4	11
96	Hydrogen-Bonded Molecular Networks of Melamine and Cyanuric Acid on Thin Films of NaCl on Au(111). Small, 2009, 5, 2177-2182.	10.0	36
97	Prochiral Guanine Adsorption on Au(111): An Entropy-Stabilized Intermixed Guanine-Quartet Chiral Structure. Small, 2009, 5, 1952-1956.	10.0	65
98	Adenine monolayers on the Au(111) surface: Structure identification by scanning tunneling microscopy experiment and <i>ab initio</i> calculations. Journal of Chemical Physics, 2009, 130, 024705.	3.0	68
99	An Investigation into the Interactions Between Self-Assembled Adenine Molecules and a Au(111) Surface. Small, 2008, 4, 1494-1500.	10.0	98
100	Influence of Alkyl Side Chains on Hydrogen-Bonded Molecular Surface Nanostructures. Small, 2008, 4, 1620-1623.	10.0	26
101	Specificity of Watson-Crick Base Pairing on a Solid Surface Studied at the Atomic Scale. Angewandte Chemie - International Edition, 2008, 47, 9673-9676.	13.8	71
102	Understanding the disorder of the DNA base cytosine on the Au(111) surface. Journal of Chemical Physics, 2008, 129, 184707.	3.0	57
103	Elementary Structural Motifs in a Random Network of Cytosine Adsorbed on a Gold(111) Surface. Science, 2008, 319, 312-315.	12.6	157
104	Self-Organization of Gold-Containing Hydrogen-Bonded Rosette Assemblies on Graphite Surface. Langmuir, 2007, 23, 10294-10298.	3.5	13
105	Enhanced Stability of Large Molecules Vacuum-Sublimated onto Au(111) Achieved by Incorporation of Coordinated Au-Atoms. Journal of the American Chemical Society, 2007, 129, 10624-10625.	13.7	9
106	Long range orientation of meta-stable atomic hydrogen adsorbate clusters on the graphite(0 0 0 1) surface. Chemical Physics Letters, 2007, 446, 237-242.	2.6	47
107	Cyanuric Acid and Melamine on Au(111): Structure and Energetics of Hydrogen-Bonded Networks. Small, 2007, 3, 854-858.	10.0	109
108	Probing the Hierarchy of Thymine-Thymine Interactions in Self-Assembled Structures by Manipulation with Scanning Tunneling Microscopy. Small, 2007, 3, 2011-2014.	10.0	101

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109	Metastable Structures and Recombination Pathways for Atomic Hydrogen on the Graphite (0001) Surface. Physical Review Letters, 2006, 96, 156104.	7.8	296
110	Clustering of Chemisorbed H(D) Atoms on the Graphite (0001) Surface due to Preferential Sticking. Physical Review Letters, 2006, 97, 186102.	7.8	260
111	Dissociation of iridium(III) phosphorescent emitters upon adsorption on Cu(110) revealed by scanning tunneling microscopy. Applied Physics Letters, 2006, 89, 264102.	3.3	10