

# Xu-Sheng Wang

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/417693/publications.pdf>

Version: 2024-02-01

70  
papers

5,343  
citations

136950

32  
h-index

91884

69  
g-index

72  
all docs

72  
docs citations

72  
times ranked

6849  
citing authors

#	ARTICLE	IF	CITATIONS
1	Multifunctional metal-organic framework catalysts: synergistic catalysis and tandem reactions. <i>Chemical Society Reviews</i> , 2017, 46, 126-157.	38.1	1,554
2	Postsynthetic ionization of an imidazole-containing metal-organic framework for the cycloaddition of carbon dioxide and epoxides. <i>Chemical Science</i> , 2017, 8, 1570-1575.	7.4	346
3	Direct and Selective Photocatalytic Oxidation of CH <sub>4</sub> to Oxygenates with O <sub>2</sub> on Cocatalysts/ZnO at Room Temperature in Water. <i>Journal of the American Chemical Society</i> , 2019, 141, 20507-20515.	13.7	253
4	Toward visible-light-assisted photocatalytic nitrogen fixation: A titanium metal organic framework with functionalized ligands. <i>Applied Catalysis B: Environmental</i> , 2020, 267, 118686.	20.2	149
5	Water-Stable Anionic Metal-Organic Framework for Highly Selective Separation of Methane from Natural Gas and Pyrolysis Gas. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 9777-9781.	8.0	148
6	An imidazolium-functionalized mesoporous cationic metal-organic framework for cooperative CO <sub>2</sub> fixation into cyclic carbonate. <i>Chemical Communications</i> , 2018, 54, 342-345.	4.1	142
7	An Anion Metal-Organic Framework with Lewis Basic Sites-Rich toward Charge-Exclusive Cationic Dyes Separation and Size-Selective Catalytic Reaction. <i>Inorganic Chemistry</i> , 2016, 55, 2641-2649.	4.0	139
8	Soluble Metal-Nanoparticle-Decorated Porous Coordination Polymers for the Homogenization of Heterogeneous Catalysis. <i>Journal of the American Chemical Society</i> , 2016, 138, 10104-10107.	13.7	136
9	Fast, highly selective and sensitive anionic metal-organic framework with nitrogen-rich sites fluorescent chemosensor for nitro explosives detection. <i>Journal of Hazardous Materials</i> , 2018, 344, 283-290.	12.4	129
10	Facile Top-Down Strategy for Direct Metal Atomization and Coordination Achieving a High Turnover Number in CO <sub>2</sub> Photoreduction. <i>Journal of the American Chemical Society</i> , 2020, 142, 19259-19267.	13.7	128
11	Phosphotungstic acid encapsulated in the mesocages of amine-functionalized metal-organic frameworks for catalytic oxidative desulfurization. <i>Dalton Transactions</i> , 2014, 43, 11950-11958.	3.3	124
12	Highly selective sensing of Fe <sup>3+</sup> by an anionic metal-organic framework containing uncoordinated nitrogen and carboxylate oxygen sites. <i>Dalton Transactions</i> , 2018, 47, 3452-3458.	3.3	119
13	Two types of cooperative nitrogen vacancies in polymeric carbon nitride for efficient solar-driven H <sub>2</sub> O <sub>2</sub> evolution. <i>Applied Catalysis B: Environmental</i> , 2020, 265, 118581.	20.2	113
14	A Universal Approach to Aqueous Energy Storage via Ultralow-Cost Electrolyte with Super-Concentrated Sugar as Hydrogen-Bond-Regulated Solute. <i>Advanced Materials</i> , 2020, 32, e2000074.	21.0	110
15	Rhenium-modified porous covalent triazine framework for highly efficient photocatalytic carbon dioxide reduction in a solid-gas system. <i>Catalysis Science and Technology</i> , 2018, 8, 2224-2230.	4.1	104
16	Boosting Oxidative Desulfurization of Model and Real Gasoline over Phosphotungstic Acid Encapsulated in Metal-Organic Frameworks: The Window Size Matters. <i>ChemCatChem</i> , 2017, 9, 971-979.	3.7	103
17	Porous Anionic Indium-Organic Framework with Enhanced Gas and Vapor Adsorption and Separation Ability. <i>ChemSusChem</i> , 2014, 7, 2647-2653.	6.8	101
18	Titanium-Based MOF Materials: From Crystal Engineering to Photocatalysis. <i>Small Methods</i> , 2020, 4, 2000486.	8.6	98

#	ARTICLE	IF	CITATIONS
19	Synthesis and characterization of Zn <sub>2</sub> GeO <sub>4</sub> /Mg-MOF-74 composites with enhanced photocatalytic activity for CO <sub>2</sub> reduction. <i>Catalysis Science and Technology</i> , 2018, 8, 1288-1295.	4.1	86
20	Imidazolium-Based Cationic Covalent Triazine Frameworks for Highly Efficient Cycloaddition of Carbon Dioxide. <i>ChemCatChem</i> , 2018, 10, 2036-2040.	3.7	84
21	Integration of adsorption and photosensitivity capabilities into a cationic multivariate metal-organic framework for enhanced visible-light photoreduction reaction. <i>Applied Catalysis B: Environmental</i> , 2019, 253, 323-330.	20.2	80
22	Bis(trifluoromethanesulfonyl)imide-based ionic liquids grafted on graphene oxide-coated solid-phase microextraction fiber for extraction and enrichment of polycyclic aromatic hydrocarbons in potatoes and phthalate esters in food-wrap. <i>Talanta</i> , 2016, 153, 392-400.	5.5	71
23	Engineering Fast Ion Conduction and Selective Cation Channels for a High-Rate and High-Voltage Hybrid Aqueous Battery. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 7046-7050.	13.8	71
24	Microwave-assisted large scale synthesis of lanthanide metal-organic frameworks (Ln-MOFs), having a preferred conformation and photoluminescence properties. <i>Dalton Transactions</i> , 2015, 44, 11954-11962.	3.3	70
25	Efficient photocatalytic hydrogen evolution under visible light by ternary composite CdS@NU-1000/RGO. <i>Catalysis Science and Technology</i> , 2017, 7, 5113-5119.	4.1	67
26	Water-medium C-H activation over a hydrophobic perfluoroalkane-decorated metal-organic framework platform. <i>Journal of Catalysis</i> , 2016, 333, 1-7.	6.2	58
27	Hierarchically micro- and mesoporous metal-organic framework-supported alloy nanocrystals as bifunctional catalysts: Toward cooperative catalysis. <i>Journal of Catalysis</i> , 2015, 330, 452-457.	6.2	49
28	Size Engineering and Crystallinity Control Enable High-Capacity Aqueous Potassium-Ion Storage of Prussian White Analogues. <i>ChemElectroChem</i> , 2018, 5, 3887-3892.	3.4	48
29	Recent Progress on Exploring Stable Metal-Organic Frameworks for Photocatalytic Solar Fuel Production. <i>Solar Rrl</i> , 2020, 4, 1900547.	5.8	47
30	Patterned growth of luminescent metal-organic framework films: a versatile electrochemically-assisted microwave deposition method. <i>Chemical Communications</i> , 2016, 52, 3951-3954.	4.1	40
31	Creating Giant Secondary Building Layers via Alkali-Etching Exfoliation for Precise Synthesis of Metal-Organic Frameworks. <i>Chemistry of Materials</i> , 2019, 31, 7584-7589.	6.7	35
32	Enhanced Ion Conduction via Epitaxially Polymerized Two-Dimensional Conducting Polymer for High-Performance Cathode in Zinc-Ion Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 9347-9354.	8.0	35
33	Excellent Efficacy of MOF Films for Bronze Artwork Conservation: The Key Role of HKUST-1 Film Nanocontainers in Selectively Positioning and Protecting Inhibitors. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 37529-37534.	8.0	33
34	Recent Research on Strategies to Improve Ion Conduction in Alkali Metal-Ion Batteries. <i>Batteries and Supercaps</i> , 2019, 2, 403-427.	4.7	32
35	<i>In Situ</i> Construction of a Multifunctional Quasi-Gel Layer for Long-Life Aqueous Zinc Metal Anodes. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 29746-29754.	8.0	31
36	Engineering interfacial charge transfer channel for efficient photocatalytic H <sub>2</sub> evolution: The interplay of CoPx and Ca <sup>2+</sup> dopant. <i>Applied Catalysis B: Environmental</i> , 2022, 303, 120887.	20.2	25

#	ARTICLE	IF	CITATIONS
37	Amino-Functionalized Titanium Based Metal-Organic Framework for Photocatalytic Hydrogen Production. <i>Molecules</i> , 2022, 27, 4241.	3.8	25
38	Graphene oxide for solid-phase extraction of bioactive phenolic acids. <i>Analytical and Bioanalytical Chemistry</i> , 2017, 409, 3541-3549.	3.7	24
39	Targeted removal of interfacial adventitious carbon towards directional charge delivery to isolated metal sites for efficient photocatalytic H <sub>2</sub> production. <i>Nano Energy</i> , 2020, 76, 105077.	16.0	24
40	Amino-terminated ionic liquid modified graphene oxide coated silica composite stationary phase for hydrophilic interaction chromatography. <i>RSC Advances</i> , 2014, 4, 37381-37388.	3.6	23
41	Reduced Graphene Oxide-Polypyrrole Aerogel-Based Coaxial Heterogeneous Microfiber Enables Ultrasensitive Pressure Monitoring of Living Organisms. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 5425-5434.	8.0	21
42	Ultrahigh photothermal temperature in a graphene/conducting polymer system enables contact thermochemical reaction. <i>Journal of Materials Chemistry A</i> , 2020, 8, 10891-10897.	10.3	20
43	Defective Pt nanoparticles encapsulated in mesoporous metal-organic frameworks for enhanced catalysis. <i>Chemical Communications</i> , 2018, 54, 8822-8825.	4.1	19
44	Recent Progresses on Applications of Conducting Polymers for Modifying Electrode of Rechargeable Batteries. <i>Advanced Energy and Sustainability Research</i> , 2021, 2, 2100088.	5.8	19
45	Room-Temperature Fabrication of a Liquid NaK Alloy-Based Membrane Electrode for Sodium-Ion Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 20423-20428.	8.0	17
46	Preparation of an Al <sub>2</sub> O <sub>3</sub> /SiO <sub>2</sub> core-shell composite material for solid phase extraction of flavonoids. <i>Analytical Methods</i> , 2015, 7, 3486-3492.	2.7	16
47	Graphene Quantum Dots Supported on Fe-based Metal-Organic Frameworks for Efficient Photocatalytic CO <sub>2</sub> Reduction. <i>Acta Chimica Sinica</i> , 2022, 80, 22.	1.4	16
48	Ultrahigh Sensitive Wearable Pressure Sensors Based on Reduced Graphene Oxide/Polypyrrole Foam for Sign Language Translation. <i>Advanced Materials Technologies</i> , 2021, 6, 2001188.	5.8	15
49	Ab Initio Design of Graphene Block Enables Ultrasensitivity, Multimeter-Like Range Switchable Pressure Sensor. <i>Advanced Materials Technologies</i> , 2019, 4, 1800531.	5.8	13
50	Engineering Fast Ion Conduction and Selective Cation Channels for a High-Rate and High-Voltage Hybrid Aqueous Battery. <i>Angewandte Chemie</i> , 2018, 130, 7164-7168.	2.0	12
51	Cobalt-Based Metal-Organic Cages for Visible-Light-Driven Water Oxidation. <i>Inorganic Chemistry</i> , 2021, 60, 10380-10386.	4.0	12
52	A porous polyaniline nanotube sorbent for solid-phase extraction of the fluorescent reaction product of reactive oxygen species in cells, and its determination by HPLC. <i>Mikrochimica Acta</i> , 2018, 185, 468.	5.0	11
53	Synthesis and Interfacial Activity of Nonyl Phenol Polyoxyethylene Ether Carboxylate. <i>Journal of Dispersion Science and Technology</i> , 2014, 35, 641-646.	2.4	10
54	Double carboxyl silicane modified graphene oxide coated silica composite as sorbent for solid-phase extraction of quarternary alkaloids. <i>Analytical Methods</i> , 2015, 7, 135-142.	2.7	10

#	ARTICLE	IF	CITATIONS
55	Recent Progress on Exploring Stable Metal-Organic Frameworks for Photocatalytic Solar Fuel Production. <i>Solar Rrl</i> , 2020, 4, 2070084.	5.8	9
56	Light-induced electrostatic lithography: selective discharge of electrets by utilizing photothermal conversion of $Ti_3C_2Tx$ MXene. <i>Journal of Materials Chemistry A</i> , 2020, 8, 19022-19027.	10.3	9
57	Effectively Regulating More Robust Amorphous Li Clusters for Ultrastable Dendrite-Free Cycling. <i>Advanced Science</i> , 2021, 8, e2101584.	11.2	9
58	Hierarchical Co@C-N synthesized by the confined pyrolysis of ionic liquid-organic frameworks for the aerobic oxidation of alcohols. <i>New Journal of Chemistry</i> , 2022, 46, 7528-7536.	2.8	9
59	Self-Healing and Shape-Memory Superconducting Devices. <i>Macromolecular Materials and Engineering</i> , 2020, 305, 1900581.	3.6	8
60	Synergy between Confined Cobalt Centers and Oxygen Defects on $Fe_2O_3$ Platelets for Efficient Photocatalytic $CO_2$ Reduction. <i>Solar Rrl</i> , 2022, 6, 2100833.	5.8	6
61	Polyelectrolyte assembled graphene oxide coated silica composite as sorbent for solid-phase extraction of cinnamic acid and its derivatives. <i>RSC Advances</i> , 2015, 5, 4420-4427.	3.6	5
62	The preparation of a core-shell stationary phase by the <i>in situ</i> polymerization of a hydrophilic polymer on the surface of silica and its chromatographic performance. <i>New Journal of Chemistry</i> , 2020, 44, 11704-11709.	2.8	5
63	A graphene-based smart thermal conductive system regulated by a reversible pressure-induced mechanism. <i>Nanoscale</i> , 2019, 11, 11730-11735.	5.6	4
64	Zinc sulfide nanosheets as a novel solid-phase extraction material for flavonoids. <i>Journal of Separation Science</i> , 2017, 40, 1403-1409.	2.5	3
65	Bioinspired Gas-Confined Hollow Microfiber with 2D Conducting Polymer/Graphene Skeleton for Ultrasensitive Liquid Environment Sensor. <i>Advanced Materials Interfaces</i> , 2021, 8, .	3.7	2
66	Hofmann-Type Metal-Organic Framework Based Bimetal/Carbon Nanosheets for Efficient Electrocatalytic Oxygen Evolution. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 0, , .	1.2	2
67	Rapid Sonochemical Synthesis of an Intercalated Superconductor. <i>ChemistrySelect</i> , 2018, 3, 5652-5659.	1.5	1
68	Fluorine-Rich Interphase and Desolvation Regulation for a Long-Life and High-Rate $TiS_2$ -Based Li-Metal Battery. <i>Journal of Physical Chemistry C</i> , 2022, 126, 5122-5130.	3.1	1
69	Noncontact and High-Accuracy Smart Thermosensors Based on the Thermal-Field Resistivity Response of Conducting Polymers. <i>Advanced Materials Technologies</i> , 2018, 3, 1800086.	5.8	0
70	Titelbild: Engineering Fast Ion Conduction and Selective Cation Channels for a High-Rate and High-Voltage Hybrid Aqueous Battery ( <i>Angew. Chem.</i> 24/2018). <i>Angewandte Chemie</i> , 2018, 130, 7065-7065.	2.0	0