

# Meicheng Wen

## List of Publications by Year in descending order

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Version: 2024-02-01

48  
papers

4,093  
citations

136940

32  
h-index

223791

46  
g-index

49  
all docs

49  
docs citations

49  
times ranked

5308  
citing authors

#	ARTICLE	IF	CITATIONS
1	New insight on electroreduction of nitrate to ammonia driven by oxygen vacancies-induced strong interface interactions. <i>Journal of Catalysis</i> , 2022, 406, 39-47.	6.2	29
2	Complete mineralization of phenolic compounds in visible-light-driven photocatalytic ozonation with single-crystal WO <sub>3</sub> nanosheets: Performance and mechanism investigation. <i>Journal of Hazardous Materials</i> , 2022, 433, 128811.	12.4	18
3	Enhanced catalytic elimination of typical VOCs over ZnCoO <sub>x</sub> catalyst derived from in situ pyrolysis of ZnCo bimetallic zeolitic imidazolate frameworks. <i>Applied Catalysis B: Environmental</i> , 2022, 308, 121212.	20.2	47
4	Preferential removal of aromatics-dominated electronic industrial emissions using the integration of spray tower and photocatalysis technologies. <i>Journal of Cleaner Production</i> , 2022, 364, 132706.	9.3	6
5	Recent advances in VOC elimination by catalytic oxidation technology onto various nanoparticles catalysts: a critical review. <i>Applied Catalysis B: Environmental</i> , 2021, 281, 119447.	20.2	467
6	Manipulation of plasmon-induced hot electron transport in Pd/MoO <sub>3-x</sub> @ZIF-8: Boosting the activity of Pd-catalyzed nitroaromatic hydrogenation under visible-light irradiation. <i>Applied Catalysis B: Environmental</i> , 2021, 282, 119511.	20.2	29
7	Synthesis of Plasmonic Catalyst with Core-Shell Structure for Visible Light Enhanced Catalytic Performance. <i>Nanostructure Science and Technology</i> , 2021, , 233-243.	0.1	0
8	Atomically dispersed Pd sites on Ti-SBA-15 for efficient catalytic combustion of typical gaseous VOCs. <i>Environmental Science: Nano</i> , 2021, 8, 3735-3745.	4.3	11
9	Recent strategies for enhancing the catalytic activity of CO <sub>2</sub> hydrogenation to formate/formic acid over Pd-based catalyst. <i>Journal of CO<sub>2</sub> Utilization</i> , 2021, 54, 101765.	6.8	27
10	Advances in Catalytic Oxidation of Volatile Organic Compounds over Pd-Supported Catalysts: Recent Trends and Challenges. <i>Frontiers in Materials</i> , 2020, 7, .	2.4	36
11	Photocatalytic degradation mechanism of gaseous styrene over Au/TiO <sub>2</sub> @CNTs: Relevance of superficial state with deactivation mechanism. <i>Applied Catalysis B: Environmental</i> , 2020, 272, 118969.	20.2	84
12	In situ growth of well-aligned Ni-MOF nanosheets on nickel foam for enhanced photocatalytic degradation of typical volatile organic compounds. <i>Nanoscale</i> , 2020, 12, 9462-9470.	5.6	66
13	In-situ decoration of metallic Bi on BiOBr with exposed (110) facets and surface oxygen vacancy for enhanced solar light photocatalytic degradation of gaseous n-hexane. <i>Chinese Journal of Catalysis</i> , 2020, 41, 1603-1612.	14.0	78
14	PdAg Nanoparticles within Core-Shell Structured Zeolitic Imidazolate Framework as a Dual Catalyst for Formic Acid-based Hydrogen Storage/Production. <i>Scientific Reports</i> , 2019, 9, 15675.	3.3	43
15	Photocatalytic ozonation mechanism of gaseous n-hexane on MO <sub>x</sub> @TiO <sub>2</sub> foam nickel composite (M = Cu, Mn, Ag): unveiling the role of $\cdot\text{OH}$ and $\cdot\text{O}_2$ . <i>Environmental Science: Nano</i> , 2019, 6, 959-969.	4.3	46
16	Highly efficient visible-light-driven photocatalytic degradation of VOCs by CO <sub>2</sub> -assisted synthesized mesoporous carbon confined mixed-phase TiO <sub>2</sub> nanocomposites derived from MOFs. <i>Applied Catalysis B: Environmental</i> , 2019, 250, 337-346.	20.2	113
17	Metal-organic framework-based nanomaterials for adsorption and photocatalytic degradation of gaseous pollutants: recent progress and challenges. <i>Environmental Science: Nano</i> , 2019, 6, 1006-1025.	4.3	245
18	The synergic degradation mechanism and photothermocatalytic mineralization of typical VOCs over PtCu/CeO <sub>2</sub> ordered porous catalysts under simulated solar irradiation. <i>Journal of Catalysis</i> , 2019, 370, 88-96.	6.2	69

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19	Solid strong base K-Pt/NaY zeolite nano-catalytic system for completed elimination of formaldehyde at room temperature. <i>Applied Surface Science</i> , 2018, 442, 195-203.	6.1	21
20	Design of Single-Site Photocatalysts by Using Metal-Organic Frameworks as a Matrix. <i>Chemistry - an Asian Journal</i> , 2018, 13, 1767-1779.	3.3	49
21	Single-site and nano-confined photocatalysts designed in porous materials for environmental uses and solar fuels. <i>Chemical Society Reviews</i> , 2018, 47, 8072-8096.	38.1	176
22	High-surface-area plasmonic MoO <sub>3</sub> : rational synthesis and enhanced ammonia borane dehydrogenation activity. <i>Journal of Materials Chemistry A</i> , 2017, 5, 8946-8953.	10.3	94
23	Palladium Nanoparticles Supported on Titanium-Doped Graphitic Carbon Nitride for Formic Acid Dehydrogenation. <i>Chemistry - an Asian Journal</i> , 2017, 12, 860-867.	3.3	57
24	Mesoporous single-crystal-like TiO <sub>2</sub> mesocages threaded with carbon nanotubes for high-performance electrochemical energy storage. <i>Nano Energy</i> , 2017, 35, 44-51.	16.0	75
25	Localized Surface Plasmon Resonances in Plasmonic Molybdenum Tungsten Oxide Hybrid for Visible-Light-Enhanced Catalytic Reaction. <i>Journal of Physical Chemistry C</i> , 2017, 121, 23531-23540.	3.1	72
26	Design and architecture of metal organic frameworks for visible light enhanced hydrogen production. <i>Applied Catalysis B: Environmental</i> , 2017, 218, 555-569.	20.2	173
27	Surface plasmon resonance enhancement of production of H <sub>2</sub> from ammonia borane solution with tunable Cu <sub>2</sub> S nanowires decorated by Pd nanoparticles. <i>Nano Energy</i> , 2017, 31, 57-63.	16.0	65
28	Plasmonic Au@Pd Nanoparticles Supported on a Basic Metal-Organic Framework: Synergic Boosting of H <sub>2</sub> Production from Formic Acid. <i>ACS Energy Letters</i> , 2017, 2, 1-7.	17.4	180
29	Hydrogen Doped Metal Oxide Semiconductors with Exceptional and Tunable Localized Surface Plasmon Resonances. <i>Journal of the American Chemical Society</i> , 2016, 138, 9316-9324.	13.7	201
30	Nanometal-Loaded Metal-Organic-Framework Photocatalysts. <i>Nanostructure Science and Technology</i> , 2016, , 507-522.	0.1	0
31	Non-Noble-Metal Nanoparticle Supported on Metal-Organic Framework as an Efficient and Durable Catalyst for Promoting H <sub>2</sub> Production from Ammonia Borane under Visible Light Irradiation. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 21278-21284.	8.0	88
32	Room-Temperature and Aqueous-Phase Synthesis of Plasmonic Molybdenum Oxide Nanoparticles for Visible-Light-Enhanced Hydrogen Generation. <i>Chemistry - an Asian Journal</i> , 2016, 11, 2377-2381.	3.3	33
33	Enhancement of Catalytic Activity Over AuPd Nanoparticles Loaded Metal Organic Framework Under Visible Light Irradiation. <i>Topics in Catalysis</i> , 2016, 59, 1765-1771.	2.8	22
34	Microwave-antenna induced in situ synthesis of Cu nanowire threaded ZIF-8 with enhanced catalytic activity in H <sub>2</sub> production. <i>Nanoscale</i> , 2016, 8, 7749-7754.	5.6	32
35	Size Effect of Carbon-Supported Pd Nanoparticles in the Hydrogen Production from Formic Acid. <i>Bulletin of the Chemical Society of Japan</i> , 2015, 88, 1500-1502.	3.2	26
36	Visible-Light-Responsive Carbon Dioxide Reduction System: Rhenium Complex Intercalated into a Zirconium Phosphate Layered Matrix. <i>ChemCatChem</i> , 2015, 7, 3519-3525.	3.7	26

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37	In situ synthesis of Ti <sup>3+</sup> self-doped mesoporous TiO <sub>2</sub> as a durable photocatalyst for environmental remediation. Chinese Journal of Catalysis, 2015, 36, 2095-2102.	14.0	44
38	Uniform anatase single-crystal cubes with high thermal stability fully enclosed by active {010} and {001} facets. RSC Advances, 2015, 5, 11029-11035.	3.6	12
39	Synthesis of Ce ions doped metal-organic framework for promoting catalytic H <sub>2</sub> production from ammonia borane under visible light irradiation. Journal of Materials Chemistry A, 2015, 3, 14134-14141.	10.3	102
40	Synthesis of highly visible light active TiO <sub>2</sub> -2-naphthol surface complex and its application in photocatalytic chromium(VI) reduction. RSC Advances, 2015, 5, 39752-39759.	3.6	49
41	Hierarchical Nanostructured WO <sub>3</sub> with Biomimetic Proton Channels and Mixed Ionic-Electronic Conductivity for Electrochemical Energy Storage. Nano Letters, 2015, 15, 6802-6808.	9.1	157
42	Enhancement of Pd-catalyzed Suzuki-Miyaura coupling reaction assisted by localized surface plasmon resonance of Au nanorods. Catalysis Today, 2015, 242, 381-385.	4.4	53
43	Amine-functionalized MIL-101(Cr) with imbedded platinum nanoparticles as a durable photocatalyst for hydrogen production from water. Chemical Communications, 2014, 50, 11645-11648.	4.1	199
44	Au nanoparticles enhanced rutile TiO <sub>2</sub> nanorod bundles with high visible-light photocatalytic performance for NO oxidation. Applied Catalysis B: Environmental, 2014, 147, 610-616.	20.2	119
45	Synthesis of Ultralong Copper Nanowires for High-Performance Transparent Electrodes. Journal of the American Chemical Society, 2012, 134, 14283-14286.	13.7	366
46	Microwave-Induced Synthesis of Porous Single-Crystal-Like TiO <sub>2</sub> with Excellent Lithium Storage Properties. Langmuir, 2012, 28, 4543-4547.	3.5	52
47	Microwave-assisted architectural control fabrication of 3D CdS structures. Journal of Sol-Gel Science and Technology, 2012, 62, 140-148.	2.4	10
48	Ionothermal synthesis of hierarchical BiOBr microspheres for water treatment. Journal of Hazardous Materials, 2012, 211-212, 104-111.	12.4	126