

# Renhong Li

## List of Publications by Year in descending order

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44  
papers

1,219  
citations

394421

19  
h-index

377865

34  
g-index

45  
all docs

45  
docs citations

45  
times ranked

1861  
citing authors

#	ARTICLE	IF	CITATIONS
1	Platinum-nanoparticle-loaded bismuth oxide: an efficient plasmonic photocatalyst active under visible light. <i>Green Chemistry</i> , 2010, 12, 212.	9.0	128
2	The interplay of sulfur doping and surface hydroxyl in band gap engineering: Mesoporous sulfur-doped TiO <sub>2</sub> coupled with magnetite as a recyclable, efficient, visible light active photocatalyst for water purification. <i>Applied Catalysis B: Environmental</i> , 2017, 218, 20-31.	20.2	113
3	Au/BiOCl heterojunction within mesoporous silica shell as stable plasmonic photocatalyst for efficient organic pollutants decomposition under visible light. <i>Journal of Hazardous Materials</i> , 2016, 303, 1-9.	12.4	84
4	Oxygen-Controlled Hydrogen Evolution Reaction: Molecular Oxygen Promotes Hydrogen Production from Formaldehyde Solution Using Ag/MgO Nanocatalyst. <i>ACS Catalysis</i> , 2017, 7, 1478-1484.	11.2	74
5	TiO <sub>2</sub> nanoparticles with increased surface hydroxyl groups and their improved photocatalytic activity. <i>Catalysis Communications</i> , 2012, 19, 96-99.	3.3	66
6	Directional oxygen activation by oxygen-vacancy-rich WO <sub>2</sub> nanorods for superb hydrogen evolution <i>via</i> formaldehyde reforming. <i>Journal of Materials Chemistry A</i> , 2019, 7, 14592-14601.	10.3	55
7	Unusual Loading-Dependent Sintering-Resistant Properties of Gold Nanoparticles Supported within Extra-large Mesopores. <i>Chemistry of Materials</i> , 2013, 25, 1556-1563.	6.7	54
8	Strong Metal-Support Interaction for 2D Materials: Application in Noble Metal/TiB <sub>2</sub> Heterointerfaces and their Enhanced Catalytic Performance for Formic Acid Dehydrogenation. <i>Advanced Materials</i> , 2021, 33, e2101536.	21.0	47
9	Visible-Light Induced High-Yielding Benzyl Alcohol-to-Benzaldehyde Transformation over Mesoporous Crystalline TiO <sub>2</sub> : A Self-Adjustable Photo-oxidation System with Controllable Hole-Generation. <i>Journal of Physical Chemistry C</i> , 2011, 115, 23408-23416.	3.1	46
10	Radical-Involved Photosynthesis of AuCN Oligomers from Au Nanoparticles and Acetonitrile. <i>Journal of the American Chemical Society</i> , 2012, 134, 18286-18294.	13.7	39
11	Platinum nanoparticles supported on Ca(Mg)-zeolites for efficient room-temperature alcohol oxidation under aqueous conditions. <i>Chemical Communications</i> , 2014, 50, 9679.	4.1	39
12	Interface engineering of palladium and zinc oxide nanorods with strong metal-support interactions for enhanced hydrogen production from base-free formaldehyde solution. <i>Journal of Materials Chemistry A</i> , 2019, 7, 8855-8864.	10.3	38
13	Visible-light-driven surface reconstruction of mesoporous TiO <sub>2</sub> : toward visible-light absorption and enhanced photocatalytic activities. <i>Chemical Communications</i> , 2011, 47, 8584.	4.1	35
14	Sub-10 nm Au-Pt-Pd alloy trimetallic nanoparticles with a high oxidation-resistant property as efficient and durable VOC oxidation catalysts. <i>Chemical Communications</i> , 2014, 50, 11713-11716.	4.1	35
15	The coupling of hemin with persistent free radicals induces a nonradical mechanism for oxidation of pollutants. <i>Chemical Communications</i> , 2016, 52, 9566-9569.	4.1	30
16	Elucidating the Strain-Vacancy-Activity Relationship on Structurally Deformed Co@CoO Nanosheets for Aqueous Phase Reforming of Formaldehyde. <i>Small</i> , 2021, 17, e2102970.	10.0	29
17	Ligand-regulated ORR activity of Au nanoparticles in alkaline medium: the importance of surface coverage of ligands. <i>Catalysis Science and Technology</i> , 2018, 8, 746-754.	4.1	28
18	Ultras-small Silver Clusters Stabilized on MgO for Robust Oxygen-Promoted Hydrogen Production from Formaldehyde Reforming. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 33946-33954.	8.0	26

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19	Cyanide Radical Chemisorbed Pt Electrocatalyst for Enhanced Methanol-Tolerant Oxygen Reduction Reactions. <i>Journal of Physical Chemistry C</i> , 2016, 120, 11572-11580.	3.1	22
20	Ligand-mediated bifunctional catalysis for enhanced oxygen reduction and methanol oxidation tolerance in fuel cells. <i>Journal of Materials Chemistry A</i> , 2018, 6, 18884-18890.	10.3	22
21	<i>In situ</i> generated electron-deficient metallic copper as the catalytically active site for enhanced hydrogen production from alkaline formaldehyde solution. <i>Catalysis Science and Technology</i> , 2019, 9, 5292-5300.	4.1	21
22	Photo-assisted cyanation of transition metal nitrates coupled with room temperature C—C bond cleavage of acetonitrile. <i>Chemical Communications</i> , 2013, 49, 1906.	4.1	17
23	Solid phase metallurgy strategy to sub-5 nm Au—Pd and Ni—Pd bimetallic nanoparticles with controlled redox properties. <i>Chemical Communications</i> , 2014, 50, 213-215.	4.1	16
24	Boosting Hydrogen Evolution Activities by Strong Interfacial Electronic Interaction in ZnO@Bi(NO <sub>3</sub> ) <sub>3</sub> Core—Shell Structures. <i>Journal of Physical Chemistry C</i> , 2017, 121, 4343-4351.	3.1	16
25	All-solid-state magnesium oxide supported Group VIII and IB metal catalysts for selective catalytic reforming of aqueous aldehydes into hydrogen. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 10834-10843.	7.1	15
26	Oxygen-mediated water splitting on metal-free heterogeneous photocatalyst under visible light. <i>Applied Catalysis B: Environmental</i> , 2020, 279, 119378.	20.2	14
27	Ordered, extra-large mesopores with highly loaded gold nanoparticles: a new sintering- and coking-resistant catalyst system. <i>Chemical Communications</i> , 2013, 49, 7274.	4.1	13
28	Single component gold on protonated titanate nanotubes for surface-charge-mediated, additive-free dehydrogenation of formic acid into hydrogen. <i>RSC Advances</i> , 2016, 6, 100103-100107.	3.6	12
29	Gold nanoparticles confined in ordered mesopores: Size effect and enhanced stability during gas-phase selective oxidation of cyclohexanol. <i>Catalysis Today</i> , 2017, 298, 269-275.	4.4	11
30	Gold nanoparticle stabilization within tailored cubic mesoporous silica: Optimizing alcohol oxidation activity. <i>Chinese Journal of Catalysis</i> , 2017, 38, 545-553.	14.0	9
31	The interplay of Au nanoparticles and ZnO nanorods for oxygen-promoted, base-free, complete formaldehyde reforming into H <sub>2</sub> and CO <sub>2</sub> . <i>Catalysis Communications</i> , 2018, 117, 5-8.	3.3	9
32	Magnetoswitchable controlled photocatalytic system using ferromagnetic FeO-doped titania nanorods photocatalysts with enhanced photoactivity. <i>Separation and Purification Technology</i> , 2009, 66, 171-176.	7.9	8
33	A new application of the traditional Fenton process to gold cyanide synthesis using acetonitrile as a cyanide source. <i>RSC Advances</i> , 2016, 6, 16448-16451.	3.6	7
34	Adsorption driven formate reforming into hydride and tandem hydrogenation of nitrophenol to amine over PdO <sub>x</sub> catalysts. <i>Catalysis Science and Technology</i> , 2020, 10, 8332-8338.	4.1	7
35	A strong Jahn—Teller distortion in Mn <sub>3</sub> O <sub>4</sub> —MnO heterointerfaces for enhanced silver catalyzed formaldehyde reforming into hydrogen. <i>Sustainable Energy and Fuels</i> , 2022, 6, 3068-3077.	4.9	7
36	Dioxygen activation at room temperature during controllable and highly efficient acetaldehyde-to-acetic acid oxidation using a simple iron(III)—acetonitrile complex. <i>Catalysis Today</i> , 2014, 233, 140-146.	4.4	5

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37	Tandem catalysis induced by hollow PdO: highly efficient H <sub>2</sub> generation coupled with organic dye degradation via sodium formate reforming. <i>Catalysis Science and Technology</i> , 2018, 8, 6217-6227.	4.1	5
38	Boosting Electrocatalytic Hydrogen Evolution with Anodic Oxidative Upgrading of Formaldehyde over Trimetallic Carbides. <i>ACS Sustainable Chemistry and Engineering</i> , 2022, 10, 7108-7116.	6.7	5
39	Carbon-catalyzed oxygen-mediated dehydrogenation of formaldehyde in alkaline solution for efficient hydrogen production. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 27877-27886.	7.1	5
40	The interparticle coupling effect of gold nanoparticles in confined ordered mesopores enhances high temperature catalytic oxidation. <i>RSC Advances</i> , 2016, 6, 88486-88489.	3.6	3
41	Biomimetic polydopamine catalyst with redox activity for oxygen-promoted H <sub>2</sub> production via aqueous formaldehyde reforming. <i>Sustainable Energy and Fuels</i> , 2021, 5, 4575-4579.	4.9	2
42	High Density Gold Nanoparticles Within Three-Dimensionally Mesoporous SBA-15: Adsorption Behavior and Optical Properties. <i>Journal of Nanoscience and Nanotechnology</i> , 2015, 15, 7060-7067.	0.9	1
43	Rationally tuning the active sites of copper-based catalysts towards formaldehyde reforming into hydrogen. <i>Sustainable Energy and Fuels</i> , 2021, 5, 6470-6477.	4.9	1
44	Novel Route to Erucamide: Highly Selective Synthesis from Acetonitrile at Room Temperature via a Photo-Fenton Process. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 11380-11385.	6.7	0