

# Yan Che

## List of Publications by Year in descending order

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840776

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#	ARTICLE	IF	CITATIONS
1	Recent Advancements and Future Prospects of Noble Metal-Based Heterogeneous Nanocatalysts for Oxygen Reduction and Hydrogen Evolution Reactions. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 7708.	2.5	34
2	Heterogeneous NiO <sub>2</sub> -to-Pd Epitaxial Structure Performs Outstanding Oxygen Reduction Reaction Activity. <i>Journal of Physical Chemistry C</i> , 2020, 124, 2295-2306.	3.1	28
3	Programming ORR Activity of Ni/NiO <sub>x</sub> @Pd Electrocatalysts via Controlling Depth of Surface-Decorated Atomic Pt Clusters. <i>ACS Omega</i> , 2018, 3, 8733-8744.	3.5	27
4	A highly mismatched NiO <sub>2</sub> -to-Pd hetero-structure as an efficient nanocatalyst for the hydrogen evolution reaction. <i>Sustainable Energy and Fuels</i> , 2020, 4, 2541-2550.	4.9	24
5	Ir-oxide mediated surface restructure and corresponding impacts on durability of bimetallic NiO <sub>x</sub> @Pd nanocatalysts in oxygen reduction reaction. <i>Journal of Alloys and Compounds</i> , 2020, 844, 156160.	5.5	21
6	Effects of Pt metal loading on the atomic restructure and oxygen reduction reaction performance of Pt-cluster decorated Cu@Pd electrocatalysts. <i>Sustainable Energy and Fuels</i> , 2019, 3, 1668-1681.	4.9	19
7	Sub-nanometer Pt cluster decoration enhances the oxygen reduction reaction performances of NiO <sub>x</sub> supported Pd nano-islands. <i>Sustainable Energy and Fuels</i> , 2020, 4, 809-823.	4.9	19
8	Submillisecond Laser Annealing Induced Surface and Subsurface Restructuring of Cu@Ni@Pd Trimetallic Nanocatalyst Promotes Thermal CO <sub>2</sub> Reduction. <i>ACS Applied Energy Materials</i> , 2021, 4, 14043-14058.	5.1	19
9	Local synergetic collaboration between Pd and local tetrahedral symmetric Ni oxide enables ultra-high-performance CO <sub>2</sub> thermal methanation. <i>Journal of Materials Chemistry A</i> , 2020, 8, 12744-12756.	10.3	18
10	Heterogeneous assembly of Pt-clusters on hierarchically structured CoO <sub>x</sub> @SnPd <sub>2</sub> @SnO <sub>2</sub> quaternary nanocatalysts manifesting oxygen reduction reaction performance. <i>New Journal of Chemistry</i> , 2020, 44, 9712-9724.	2.8	16
11	H <sub>2</sub> Reduction Annealing Induced Phase Transition and Improvements on Redox Durability of Pt Cluster-Decorated Cu@Pd Electrocatalysts in Oxygen Reduction Reaction. <i>ACS Omega</i> , 2019, 4, 971-982.	3.5	15
12	NiO <sub>x</sub> -supported PtRh nanoalloy enables high-performance hydrogen evolution reaction under universal pH conditions. <i>Sustainable Energy and Fuels</i> , 2021, 5, 5490-5504.	4.9	14
13	Bifunctional Pt@SnO <sub>x</sub> nanorods for enhanced oxygen reduction and hydrogen evolution reactions. <i>Sustainable Energy and Fuels</i> , 2021, 5, 2960-2971.	4.9	10
14	Atomic Pt-Clusters Decoration Triggers a High-Rate Performance on Ni@Pd Bimetallic Nanocatalyst for Hydrogen Evolution Reaction in Both Alkaline and Acidic Medium. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 5155.	2.5	8