

# Ali Han

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

32  
papers

1,998  
citations

21  
h-index

37  
g-index

37  
ext. papers

2,551  
ext. citations

10.1  
avg, IF

5.01  
L-index

#	Paper	IF	Citations
32	An Adjacent Atomic Platinum Site Enables Single-Atom Iron with High Oxygen Reduction Reaction Performance. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 19262-19271	16.4	81
31	One-step synthesis of single-site vanadium substitution in 1T-WS monolayers for enhanced hydrogen evolution catalysis. <i>Nature Communications</i> , <b>2021</b> , 12, 709	17.4	42
30	An Adjacent Atomic Platinum Site Enables Single-Atom Iron with High Oxygen Reduction Reaction Performance. <i>Angewandte Chemie</i> , <b>2021</b> , 133, 19411-19420	3.6	11
29	Carbon-Supported Single-Atom Catalysts for Formic Acid Oxidation and Oxygen Reduction Reactions. <i>Small</i> , <b>2021</b> , 17, e2004500	11	19
28	Unveiling defect-mediated carrier dynamics in monolayer semiconductors by spatiotemporal microwave imaging. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2020</b> , 117, 13908-13913	11.5	16
27	Atomic Thickness Catalysts: Synthesis and Applications. <i>Small Methods</i> , <b>2020</b> , 4, 2000248	12.8	21
26	Mobility-Fluctuation-Controlled Linear Positive Magnetoresistance in 2D Semiconductor BiOSe Nanoplates. <i>ACS Nano</i> , <b>2020</b> , 14, 11319-11326	16.7	10
25	Demonstration of the key substrate-dependent charge transfer mechanisms between monolayer MoS <sub>2</sub> and molecular dopants. <i>Communications Physics</i> , <b>2019</b> , 2,	5.4	21
24	Gate-Tunable and Multidirection-Switchable Memristive Phenomena in a Van Der Waals Ferroelectric. <i>Advanced Materials</i> , <b>2019</b> , 31, e1901300	24	67
23	Growth of 2H stacked WSe <sub>2</sub> bilayers on sapphire. <i>Nanoscale Horizons</i> , <b>2019</b> , 4, 1434-1442	10.8	11
22	Quasi-Two-Dimensional Se-Terminated Bismuth Oxychalcogenide (BiOSe). <i>ACS Nano</i> , <b>2019</b> , 13, 13439-13444	16.7	27
21	Cobalt Phosphide Nanowire Arrays on Conductive Substrate as an Efficient Bifunctional Catalyst for Overall Water Splitting. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2019</b> , 7, 2360-2369	8.3	22
20	Multidirection Piezoelectricity in Mono- and Multilayered Hexagonal HnSe. <i>ACS Nano</i> , <b>2018</b> , 12, 4976-4983	16.7	133
19	Energy-Resolved Photoconductivity Mapping in a Monolayer-Bilayer WSe Lateral Heterostructure. <i>Nano Letters</i> , <b>2018</b> , 18, 7200-7206	11.5	19
18	Room-Temperature Ferroelectricity in Hexagonally Layered Hn2Se3 Nanoflakes down to the Monolayer Limit. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1803738	15.6	127
17	Crystalline Copper Phosphide Nanosheets as an Efficient Janus Catalyst for Overall Water Splitting. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 2240-2248	9.5	175
16	Heptanuclear Co, Ni and mixed Co-Ni clusters as high-performance water oxidation electrocatalysts. <i>Electrochimica Acta</i> , <b>2017</b> , 249, 343-352	6.7	20

15	Ternary metal phosphide nanosheets as a highly efficient electrocatalyst for water reduction to hydrogen over a wide pH range from 0 to 14. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 10195-10202	13	93
14	Atomic scale analysis of the enhanced electro- and photo-catalytic activity in high-index faceted porous NiO nanowires. <i>Scientific Reports</i> , <b>2015</b> , 5, 8557	4.9	11
13	High catalytic activity for water oxidation based on nanostructured nickel phosphide precursors. <i>Chemical Communications</i> , <b>2015</b> , 51, 11626-9	5.8	151
12	Cobalt Salen Complexes as Catalyst Precursors for Electrocatalytic Water Oxidation at Low Overpotential. <i>Journal of Physical Chemistry C</i> , <b>2015</b> , 119, 8998-9004	3.8	52
11	A robust hydrogen evolution catalyst based on crystalline nickel phosphide nanoflakes on three-dimensional graphene/nickel foam: high performance for electrocatalytic hydrogen production from pH 0-14. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 1941-1946	13	123
10	Synthesis and enhanced electrochemical catalytic performance of monolayer WS <sub>2</sub> (1-x) Se <sub>2x</sub> with a tunable band gap. <i>Advanced Materials</i> , <b>2015</b> , 27, 4732-8	24	173
9	Earth-Abundant Copper-Based Bifunctional Electrocatalyst for Both Catalytic Hydrogen Production and Water Oxidation. <i>ACS Catalysis</i> , <b>2015</b> , 5, 1530-1538	13.1	127
8	Oxanion induced variations in domain structure for amorphous cobalt oxide oxygen evolving catalysts, resolved by X-ray pair distribution function analysis. <i>Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials</i> , <b>2015</b> , 71, 713-21	1.8	12
7	Cobalt porphyrin electrode films for electrocatalytic water oxidation. <i>Physical Chemistry Chemical Physics</i> , <b>2014</b> , 16, 11209-17	3.6	53
6	Electrochemical, spectroscopic and theoretical studies of a simple bifunctional cobalt corrole catalyst for oxygen evolution and hydrogen production. <i>Physical Chemistry Chemical Physics</i> , <b>2014</b> , 16, 1883-93	3.6	158
5	Structural, spectroscopic and theoretical studies of a vapochromic platinum(II) terpyridyl complex. <i>CrystEngComm</i> , <b>2014</b> , 16, 5531-5542	3.3	29
4	Reversible mechanochromic luminescence at room temperature in cationic platinum(II) terpyridyl complexes. <i>Inorganic Chemistry</i> , <b>2014</b> , 53, 3338-44	5.1	68
3	Green cobalt oxide (CoOx) film with nanoribbon structures electrodeposited from the BF <sub>4</sub> <sup>-</sup> annulated cobaloxime precursor for efficient water oxidation. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2014</b> , 6, 10929-34	9.5	42
2	Multi-walled carbon nanotubes supported porous nickel oxide as noble metal-free electrocatalysts for efficient water oxidation. <i>International Journal of Hydrogen Energy</i> , <b>2014</b> , 39, 10467-10475	6.7	31
1	Facile deposition of nanostructured cobalt oxide catalysts from molecular cobaloximes for efficient water oxidation. <i>Physical Chemistry Chemical Physics</i> , <b>2013</b> , 15, 12534-8	3.6	37