

Wei Chen

List of Publications by Year in descending order

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60
papers

5,421
citations

147801

31
h-index

138484

58
g-index

60
all docs

60
docs citations

60
times ranked

8189
citing authors

#	ARTICLE	IF	CITATIONS
1	High-Index Faceted Ni ₃ S ₂ Nanosheet Arrays as Highly Active and Ultrastable Electrocatalysts for Water Splitting. <i>Journal of the American Chemical Society</i> , 2015, 137, 14023-14026.	13.7	1,622
2	Wafer-Scale Growth and Transfer of Highly-Oriented Monolayer MoS ₂ Continuous Films. <i>ACS Nano</i> , 2017, 11, 12001-12007.	14.6	397
3	Modulating Electronic Structures of Inorganic Nanomaterials for Efficient Electrocatalytic Water Splitting. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 4484-4502.	13.8	340
4	Oxygen-Assisted Chemical Vapor Deposition Growth of Large Single-Crystal and High-Quality Monolayer MoS ₂ . <i>Journal of the American Chemical Society</i> , 2015, 137, 15632-15635.	13.7	301
5	Scalable Growth of High-Quality Polycrystalline MoS ₂ Monolayers on SiO ₂ with Tunable Grain Sizes. <i>ACS Nano</i> , 2014, 8, 6024-6030.	14.6	263
6	Boundary activated hydrogen evolution reaction on monolayer MoS ₂ . <i>Nature Communications</i> , 2019, 10, 1348.	12.8	263
7	Observation of Strong Interlayer Coupling in MoS ₂ /WS ₂ Heterostructures. <i>Advanced Materials</i> , 2016, 28, 1950-1956.	21.0	225
8	Electrochemical tuning of olivine-type lithium transition-metal phosphates as efficient water oxidation catalysts. <i>Energy and Environmental Science</i> , 2015, 8, 1719-1724.	30.8	167
9	Holey Ni-Cu phosphide nanosheets as a highly efficient and stable electrocatalyst for hydrogen evolution. <i>Applied Catalysis B: Environmental</i> , 2019, 243, 537-545.	20.2	128
10	Bimetallic iron-iridium alloy nanoparticles supported on nickel foam as highly efficient and stable catalyst for overall water splitting at large current density. <i>Applied Catalysis B: Environmental</i> , 2020, 278, 119327.	20.2	125
11	In situ engineering bi-metallic phospho-nitride bi-functional electrocatalysts for overall water splitting. <i>Applied Catalysis B: Environmental</i> , 2019, 254, 414-423.	20.2	107
12	Trimetallic Mo-Ni-Co selenides nanorod electrocatalysts for highly-efficient and ultra-stable hydrogen evolution. <i>Nano Energy</i> , 2020, 71, 104637.	16.0	100
13	Precisely Aligned Monolayer MoS ₂ Epitaxially Grown on hBN basal Plane. <i>Small</i> , 2017, 13, 1603005.	10.0	91
14	Wafer-scale and deterministic patterned growth of monolayer MoS ₂ via liquid-solid method. <i>Nanoscale</i> , 2019, 11, 16122-16129.	5.6	76
15	Bi-metallic nitroxide nanodot-decorated tri-metallic sulphide nanosheets by on-electrode plasma-hydrothermal sprouting for overall water splitting. <i>Applied Catalysis B: Environmental</i> , 2020, 261, 118254.	20.2	72
16	Multiphase nanosheet-nanowire cerium oxide and nickel-cobalt phosphide for highly-efficient electrocatalytic overall water splitting. <i>Applied Catalysis B: Environmental</i> , 2022, 316, 121678.	20.2	67
17	Rolling Up a Monolayer MoS ₂ Sheet. <i>Small</i> , 2016, 12, 3770-3774.	10.0	60
18	Plasma-heteroatom-doped Ni-V-Fe trimetallic phospho-nitride as high-performance bifunctional electrocatalyst. <i>Applied Catalysis B: Environmental</i> , 2020, 268, 118440.	20.2	60

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19	Water-sprouted, plasma-enhanced Ni-Co phospho-nitride nanosheets boost electrocatalytic hydrogen and oxygen evolution. <i>Chemical Engineering Journal</i> , 2020, 402, 126257.	12.7	60
20	Multiphase Ni-Fe-selenide nanosheets for highly-efficient and ultra-stable water electrolysis. <i>Applied Catalysis B: Environmental</i> , 2020, 277, 119220.	20.2	52
21	Dielectric barrier discharge plasma in Ar/O ₂ promoting apoptosis behavior in A549 cancer cells. <i>Applied Physics Letters</i> , 2011, 99, .	3.3	49
22	Treatment of <i>Streptococcus mutans</i> bacteria by a plasma needle. <i>Journal of Applied Physics</i> , 2009, 105, .	2.5	48
23	Treatment of <i>enterococcus faecalis</i> bacteria by a helium atmospheric cold plasma brush with oxygen addition. <i>Journal of Applied Physics</i> , 2012, 112, .	2.5	47
24	Cross-linked trimetallic nanopetals for electrocatalytic water splitting. <i>Journal of Power Sources</i> , 2018, 390, 224-233.	7.8	47
25	Nb-doped layered FeNi phosphide nanosheets for highly efficient overall water splitting under high current densities. <i>Journal of Materials Chemistry A</i> , 2021, 9, 9918-9926.	10.3	47
26	Plasma-doping-enhanced overall water splitting: case study of NiCo hydroxide electrocatalyst. <i>Catalysis Today</i> , 2019, 337, 147-154.	4.4	41
27	Integrated Flexible and High-Quality Thin Film Transistors Based on Monolayer MoS ₂ . <i>Advanced Electronic Materials</i> , 2016, 2, 1500379.	5.1	40
28	Deactivation of A549 cancer cells in vitro by a dielectric barrier discharge plasma needle. <i>Journal of Applied Physics</i> , 2011, 109, .	2.5	38
29	Just add water to split water: ultrahigh-performance bifunctional electrocatalysts fabricated using eco-friendly heterointerfacing of NiCo diselenides. <i>Journal of Materials Chemistry A</i> , 2020, 8, 12035-12044.	10.3	38
30	Hollow Ni ²⁺ /V ⁵⁺ Mo Chalcogenide Nanopetals as Bifunctional Electrocatalyst for Overall Water Splitting. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 1622-1632.	6.7	36
31	Compositional and crystallographic design of Ni-Co phosphide heterointerfaced nanowires for high-rate, stable hydrogen generation at industry-relevant electrolysis current densities. <i>Nano Energy</i> , 2022, 95, 106989.	16.0	36
32	Patterned Peeling 2D MoS ₂ off the Substrate. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 16546-16550.	8.0	30
33	Mulberry-Inspired Nickel-Niobium Phosphide on Plasma-Defect-Engineered Carbon Support for High-Performance Hydrogen Evolution. <i>Small</i> , 2020, 16, e2004843.	10.0	30
34	In-Situ-Engineered 3D Cu ₃ Se ₂ @CoSe ₂ -NiSe ₂ Nanostructures for Highly Efficient Electrocatalytic Water Splitting. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 17215-17224.	6.7	30
35	W-Doped MoP Nanospheres as Electrocatalysts for pH-Universal Hydrogen Evolution Reaction. <i>ACS Applied Nano Materials</i> , 2021, 4, 5992-6001.	5.0	28
36	One-step in-situ sprouting high-performance NiCoS _x Se _y bifunctional catalysts for water electrolysis at low cell voltages and high current densities. <i>Chemical Engineering Journal</i> , 2022, 435, 134859.	12.7	24

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37	In-situ engineered heterostructured nickel tellur-selenide nanosheets for robust overall water splitting. <i>Chemical Engineering Journal</i> , 2022, 446, 137297.	12.7	22
38	Trimetallic Octahedral Ni ²⁺ /Co ²⁺ /W Phosphoxide Sprouted from Plasma-Defect-Engineered Ni ²⁺ /Co Support for Ultrahigh-Performance Electrocatalytic Hydrogen Evolution. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 7454-7465.	6.7	21
39	High-performance CoNb phosphide water splitting electrocatalyst on plasma-defect-engineered carbon cloth. <i>Chemical Engineering Journal</i> , 2022, 446, 137419.	12.7	19
40	Non-equilibrium plasma prevention of <i>Schistosoma japonicum</i> transmission. <i>Scientific Reports</i> , 2016, 6, 35353.	3.3	17
41	Electrocatalysis enabled transformation of earth-abundant water, nitrogen and carbon dioxide for a sustainable future. <i>Materials Advances</i> , 2022, 3, 1359-1400.	5.4	17
42	Focused Plasma- and Pure Water-Enabled, Electrode-Emerged Nanointerfaced NiCo Hydroxide ²⁺ Oxide for Robust Overall Water Splitting. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 45566-45577.	8.0	15
43	High-efficiency oxygen evolution catalyzed by Sn ²⁺ /Co ²⁺ /Ni phosphide with oriented crystal phases. <i>Journal of Materials Chemistry A</i> , 2022, 10, 13448-13455.	10.3	15
44	Characteristics of NO _x removal combining dielectric barrier discharge plasma with selective catalytic reduction by C ₂ H ₅ OH. <i>Journal of Applied Physics</i> , 2009, 106, .	2.5	12
45	Characteristics of NO _x Removal Combining Dielectric Barrier Discharge Plasma with Selective Catalytic Reduction by C ₃ H ₆ . <i>Japanese Journal of Applied Physics</i> , 2010, 49, 086201.	1.5	11
46	Additive-Assisted Growth of Scaled and Quality 2D Materials. <i>Small</i> , 2022, 18, e2107241.	10.0	11
47	Oxygen-Assisted Anisotropic Chemical Etching of MoSe ₂ for Enhanced Phototransistors. <i>Chemistry of Materials</i> , 2022, 34, 4212-4223.	6.7	10
48	Deactivation of <i>Enterococcus Faecalis</i> Bacteria by an Atmospheric Cold Plasma Brush. <i>Chinese Physics Letters</i> , 2012, 29, 075203.	3.3	8
49	Characterization of Zr ²⁺ /Si ⁴⁺ /N films deposited by cathodic vacuum arc with different N ₂ /SiH ₄ flow rates. <i>Applied Surface Science</i> , 2012, 258, 3674-3678.	6.1	8
50	Degradation of high-concentration simulated organic wastewater by DBD plasma. <i>Water Science and Technology</i> , 2019, 80, 1413-1420.	2.5	8
51	Treatment of <i>Enterococcus faecalis</i> bacteria using a plasma needle at atmospheric pressure. <i>Wuli Xuebao/Acta Physica Sinica</i> , 2009, 58, 1595.	0.5	8
52	Heterostructured Palladium ²⁺ /Nickel Sulfide on Plasma-Activated Nickel Foil for Robust Hydrogen Evolution. <i>ACS Sustainable Chemistry and Engineering</i> , 2022, 10, 8064-8074.	6.7	7
53	Surface modification of polytetrafluoroethylene film using single liquid electrode atmospheric-pressure glow discharge. <i>Chinese Physics B</i> , 2011, 20, 065206.	1.4	6
54	Sterilization of mycete attached on the unearthed silk fabrics by an atmospheric pressure plasma jet. <i>Chinese Physics B</i> , 2018, 27, 055207.	1.4	6

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55	Fe-Ni-Co trimetallic oxide hierarchical nanospheres as high-performance bifunctional electrocatalysts for water electrolysis. <i>New Journal of Chemistry</i> , 2022, 46, 13296-13302.	2.8	6
56	Inactivation of Hela cancer cells by an atmospheric pressure cold plasma jet. <i>Wuli Xuebao/Acta Physica Sinica</i> , 2013, 62, 065201.	0.5	5
57	Effect of pulsed bias on the properties of ZrN/TiZrN films deposited by a cathodic vacuum arc. <i>Chinese Physics B</i> , 2013, 22, 035204.	1.4	3
58	A half-bridge IGBT drive and protection circuit in dielectric barrier discharge power supply. <i>Circuit World</i> , 2021, ahead-of-print, .	0.9	1
59	A Temperature-Measurable Dielectric Barrier Discharge Plasma Cooperating with the Catalysis Device for Nitric Oxides Removal. <i>Advanced Materials Research</i> , 2013, 718-720, 196-201.	0.3	0
60	Inactivation of A549 cancer cells by a helium-oxygen plasma needle. <i>Wuli Xuebao/Acta Physica Sinica</i> , 2012, 61, 185203.	0.5	0