Wei Chen

List of Publications by Year
in descending order

60 papers	5,421 citations	168829 31 h-index	156644 58 g-index
60 all docs	60 docs citations	60 times ranked	9469 citing authors

#	Article	IF	Citations
1	Electrocatalysis enabled transformation of earth-abundant water, nitrogen and carbon dioxide for a sustainable future. Materials Advances, 2022, 3, 1359-1400.	2.6	17
2	Additiveâ€Assisted Growth of Scaled and Quality 2D Materials. Small, 2022, 18, e2107241.	5.2	11
3	One-step in-situ sprouting high-performance NiCoSxSey bifunctional catalysts for water electrolysis at low cell voltages and high current densities. Chemical Engineering Journal, 2022, 435, 134859.	6.6	24
4	Compositional and crystallographic design of Ni-Co phosphide heterointerfaced nanowires for high-rate, stable hydrogen generation at industry-relevant electrolysis current densities. Nano Energy, 2022, 95, 106989.	8.2	36
5	Oxygen-Assisted Anisotropic Chemical Etching of MoSe₂ for Enhanced Phototransistors. Chemistry of Materials, 2022, 34, 4212-4223.	3.2	10
6	Heterostructured Palladiumâ€“Nickel Sulfide on Plasma-Activated Nickel Foil for Robust Hydrogen Evolution. ACS Sustainable Chemistry and Engineering, 2022, 10, 8064-8074.	3.2	7
7	In-situ engineered heterostructured nickel tellur-selenide nanosheets for robust overall water splitting. Chemical Engineering Journal, 2022, 446, 137297.	6.6	22
8	High-efficiency oxygen evolution catalyzed by Snâ€“Coâ€“Ni phosphide with oriented crystal phases. Journal of Materials Chemistry A, 2022, 10, 13448-13455.	5.2	15
9	Feâ€“Niâ€“Co trimetallic oxide hierarchical nanospheres as high-performance bifunctional electrocatalysts for water electrolysis. New Journal of Chemistry, 2022, 46, 13296-13302.	1.4	6
10	High-performance CoNb phosphide water splitting electrocatalyst on plasma-defect-engineered carbon cloth. Chemical Engineering Journal, 2022, 446, 137419.	6.6	19
11	Multiphase nanosheet-nanowire cerium oxide and nickel-cobalt phosphide for highly-efficient electrocatalytic overall water splitting. Applied Catalysis B: Environmental, 2022, 316, 121678.	10.8	67
12	Nb-doped layered FeNi phosphide nanosheets for highly efficient overall water splitting under high current densities. Journal of Materials Chemistry A, 2021, 9, 9918-9926.	5.2	47
13	W-Doped MoP Nanospheres as Electrocatalysts for pH-Universal Hydrogen Evolution Reaction. ACS Applied Nano Materials, 2021, 4, 5992-6001.	2.4	28
14	Trimetallic Octahedral Niâ€“Coâ€“W Phosphoxide Sprouted from Plasma-Defect-Engineered Niâ€“Co Support for Ultrahigh-Performance Electrocatalytic Hydrogen Evolution. ACS Sustainable Chemistry and Engineering, 2021, 9, 7454-7465.	3.2	21
15	A half-bridge IGBT drive and protection circuit in dielectric barrier discharge power supply. Circuit World, 2021, ahead-of-print, .	0.7	1
16	Focused Plasma- and Pure Water-Enabled, Electrode-Emerged Nanointerfaced NiCo Hydroxideâ€“Oxide for Robust Overall Water Splitting. ACS Applied Materials & Interfaces, 2021, 13, 45566-45577.	4.0	15
17	Bi-metallic nitroxide nanodot-decorated tri-metallic sulphide nanosheets by on-electrode plasma-hydrothermal sprouting for overall water splitting. Applied Catalysis B: Environmental, 2020, 261, 118254.	10.8	72
18	Plasma-heteroatom-doped Ni-V-Fe trimetallic phospho-nitride as high-performance bifunctional electrocatalyst. Applied Catalysis B: Environmental, 2020, 268, 118440.	10.8	60

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19	Mulberryâ€Inspired Nickelâ€Niobium Phosphide on Plasmaâ€Defectâ€Engineered Carbon Support for Highâ€Performance Hydrogen Evolution. Small, 2020, 16, e2004843.	5.2	30
20	Water-sprouted, plasma-enhanced Ni-Co phospho-nitride nanosheets boost electrocatalytic hydrogen and oxygen evolution. Chemical Engineering Journal, 2020, 402, 126257.	6.6	60
21	In-Situ-Engineered 3D Cu₃Se₂@CoSe₂â€“NiSe₂ Nanostructures for Highly Efficient Electrocatalytic Water Splitting. ACS Sustainable Chemistry and Engineering, 2020, 8, 17215-17224.	3.2	30
22	Just add water to split water: ultrahigh-performance bifunctional electrocatalysts fabricated using eco-friendly heterointerfacing of NiCo diselenides. Journal of Materials Chemistry A, 2020, 8, 12035-12044.	5.2	38
23	Multiphase Ni-Fe-selenide nanosheets for highly-efficient and ultra-stable water electrolysis. Applied Catalysis B: Environmental, 2020, 277, 119220.	10.8	52
24	Bimetallic iron-iridium alloy nanoparticles supported on nickel foam as highly efficient and stable catalyst for overall water splitting at large current density. Applied Catalysis B: Environmental, 2020, 278, 119327.	10.8	125
25	Trimetallic Moâ€“Niâ€“Co selenides nanorod electrocatalysts for highly-efficient and ultra-stable hydrogen evolution. Nano Energy, 2020, 71, 104637.	8.2	100
26	Wafer-scale and deterministic patterned growth of monolayer MoS₂<i>via</i> vaporâ€“liquidâ€“solid method. Nanoscale, 2019, 11, 16122-16129.	2.8	76
27	In situ engineering bi-metallic phospho-nitride bi-functional electrocatalysts for overall water splitting. Applied Catalysis B: Environmental, 2019, 254, 414-423.	10.8	107
28	Boundary activated hydrogen evolution reaction on monolayer MoS2. Nature Communications, 2019, 10, 1348.	5.8	263
29	Plasma-doping-enhanced overall water splitting: case study of NiCo hydroxide electrocatalyst. Catalysis Today, 2019, 337, 147-154.	2.2	41
30	Degradation of high-concentration simulated organic wastewater by DBD plasma. Water Science and Technology, 2019, 80, 1413-1420.	1.2	8
31	Holey Ni-Cu phosphide nanosheets as a highly efficient and stable electrocatalyst for hydrogen evolution. Applied Catalysis B: Environmental, 2019, 243, 537-545.	10.8	128
32	Hollow Niâ€“Vâ€“Mo Chalcogenide Nanopetals as Bifunctional Electrocatalyst for Overall Water Splitting. ACS Sustainable Chemistry and Engineering, 2019, 7, 1622-1632.	3.2	36
33	Modulating Electronic Structures of Inorganic Nanomaterials for Efficient Electrocatalytic Water Splitting. Angewandte Chemie - International Edition, 2019, 58, 4484-4502.	7.2	340
34	Cross-linked trimetallic nanopetals for electrocatalytic water splitting. Journal of Power Sources, 2018, 390, 224-233.	4.0	47
35	Sterilization of mycete attached on the unearthed silk fabrics by an atmospheric pressure plasma jet. Chinese Physics B, 2018, 27, 055207.	0.7	6
36	Precisely Aligned Monolayer MoS₂ Epitaxially Grown on hâ€BN basal Plane. Small, 2017, 13, 1603005.	5.2	91

#	ARTICLE	IF	CITATIONS
37	Wafer-Scale Growth and Transfer of Highly-Oriented Monolayer MoS₂ Continuous Films. ACS Nano, 2017, 11, 12001-12007.	7.3	397
38	Rolling Up a Monolayer MoS₂Sheet. Small, 2016, 12, 3770-3774.	5.2	60
39	Non-equilibrium plasma prevention of Schistosoma japonicum transmission. Scientific Reports, 2016, 6, 35353.	1.6	17
40	Observation of Strong Interlayer Coupling in MoS₂/WS₂ Heterostructures. Advanced Materials, 2016, 28, 1950-1956.	11.1	225
41	Patterned Peeling 2D MoS₂ off the Substrate. ACS Applied Materials & Interfaces, 2016, 8, 16546-16550.	4.0	30
42	Integrated Flexible and Highâ€Quality Thin Film Transistors Based on Monolayer MoS₂. Advanced Electronic Materials, 2016, 2, 1500379.	2.6	40
43	Electrochemical tuning of olivine-type lithium transition-metal phosphates as efficient water oxidation catalysts. Energy and Environmental Science, 2015, 8, 1719-1724.	15.6	167
44	High-Index Faceted Ni₃S₂ Nanosheet Arrays as Highly Active and Ultrastable Electrocatalysts for Water Splitting. Journal of the American Chemical Society, 2015, 137, 14023-14026.	6.6	1,622
45	Oxygen-Assisted Chemical Vapor Deposition Growth of Large Single-Crystal and High-Quality Monolayer MoS₂. Journal of the American Chemical Society, 2015, 137, 15632-15635.	6.6	301
46	Scalable Growth of High-Quality Polycrystalline MoS₂ Monolayers on SiO₂ with Tunable Grain Sizes. ACS Nano, 2014, 8, 6024-6030.	7.3	263
47	Effect of pulsed bias on the properties of ZrN/TiZrN films deposited by a cathodic vacuum arc. Chinese Physics B, 2013, 22, 035204.	0.7	3
48	A Temperature-Measurable Dielectric Barrier Discharge Plasma Cooperating with the Catalysis Device for Nitric Oxides Removal. Advanced Materials Research, 2013, 718-720, 196-201.	0.3	0
49	Inactivation of Hela cancer cells by an atmospheric pressure cold plasma jet. Wuli Xuebao/Acta Physica Sinica, 2013, 62, 065201.	0.2	5
50	Deactivation of Enterococcus Faecalis Bacteria by an Atmospheric Cold Plasma Brush. Chinese Physics Letters, 2012, 29, 075203.	1.3	8
51	Treatment of <i>enterococcus faecalis</i> bacteria by a helium atmospheric cold plasma brush with oxygen addition. Journal of Applied Physics, 2012, 112, .	1.1	47
52	Characterization of Zrâ€"Siâ€"N films deposited by cathodic vacuum arc with different N2/SiH4 flow rates. Applied Surface Science, 2012, 258, 3674-3678.	3.1	8
53	Inactivation of A549 cancer cells by a helium-oxygen plasma needle. Wuli Xuebao/Acta Physica Sinica, 2012, 61, 185203.	0.2	0
54	Surface modification of polytetrafluoroethylene film using single liquid electrode atmospheric-pressure glow discharge. Chinese Physics B, 2011, 20, 065206.	0.7	6

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55	Deactivation of A549 cancer cells in vitro by a dielectric barrier discharge plasma needle. Journal of Applied Physics, 2011, 109, .	1.1	38
56	Dielectric barrier discharge plasma in Ar/O2 promoting apoptosis behavior in A549 cancer cells. Applied Physics Letters, 2011, 99, .	1.5	49
57	Characteristics of NO_x Removal Combining Dielectric Barrier Discharge Plasma with Selective Catalytic Reduction by C₃H₆. Japanese Journal of Applied Physics, 2010, 49, 086201.	0.8	11
58	Characteristics of NOx removal combining dielectric barrier discharge plasma with selective catalytic reduction by C2H5OH. Journal of Applied Physics, 2009, 106, .	1.1	12
59	Treatment of <i>Streptococcus mutans</i> bacteria by a plasma needle. Journal of Applied Physics, 2009, 105, .	1.1	48
60	Treatment of Enterococcus faecalis bacteria using a plasma needle at atmospheric pressure. Wuli Xuebao/Acta Physica Sinica, 2009, 58, 1595.	0.2	8