Jun Huang

List of Publications by Citations

32 papers	791 citations	17 h-index	28 g-index
36 ext. papers	1,126 ext. citations	10.3 avg, IF	4.31 L-index

#	Paper	IF	Citations
32	Holey Ni-Cu phosphide nanosheets as a highly efficient and stable electrocatalyst for hydrogen evolution. *Applied Catalysis B: Environmental*, **2019**, 243, 537-545	21.8	86
31	In situ engineering bi-metallic phospho-nitride bi-functional electrocatalysts for overall water splitting. *Applied Catalysis B: Environmental*, **2019**, 254, 414-423	21.8	69
30	NiS Nanosheet Flowers Decorated with CdS Quantum Dots as a Highly Active Electrocatalysis Electrode for Synergistic Water Splitting. *ACS Applied Materials & Interfaces*, **2017**, 9, 29660-29668	9.5	63
29	Trimetallic MoNiCo selenides nanorod electrocatalysts for highly-efficient and ultra-stable hydrogen evolution. *Nano Energy*, **2020**, 71, 104637	17.1	49
28	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	21.8	47
27	Dielectric barrier discharge plasma in Ar/O2 promoting apoptosis behavior in A549 cancer cells. *Applied Physics Letters*, **2011**, 99, 253701	3.4	45
26	Treatment of Streptococcus mutans bacteria by a plasma needle. *Journal of Applied Physics*, **2009**, 105, 063302	2.5	42
25	Treatment of enterococcus faecalis bacteria by a helium atmospheric cold plasma brush with oxygen addition. *Journal of Applied Physics*, **2012**, 112, 013304	2.5	40
24	Deactivation of A549 cancer cells in vitro by a dielectric barrier discharge plasma needle. *Journal of Applied Physics*, **2011**, 109, 053305	2.5	36
23	Cross-linked trimetallic nanopetals for electrocatalytic water splitting. *Journal of Power Sources*, **2018**, 390, 224-233	8.9	35
22	Plasma-heteroatom-doped Ni-V-Fe trimetallic phospho-nitride as high-performance bifunctional electrocatalyst. *Applied Catalysis B: Environmental*, **2020**, 268, 118440	21.8	30
21	Quantitative Understanding of the Sluggish Kinetics of Hydrogen Reactions in Alkaline Media Based on a Microscopic Hamiltonian Model for the Volmer Step. *Journal of Physical Chemistry C*, **2019**, 123, 17325-17334	3.8	27
20	Hollow NiVMo Chalcogenide Nanopetals as Bifunctional Electrocatalyst for Overall Water Splitting. *ACS Sustainable Chemistry and Engineering*, **2019**, 7, 1622-1632	8.3	27
19	Water-sprouted, plasma-enhanced Ni-Co phospho-nitride nanosheets boost electrocatalytic hydrogen and oxygen evolution. *Chemical Engineering Journal*, **2020**, 402, 126257	14.7	26
18	Plasma-doping-enhanced overall water splitting: case study of NiCo hydroxide electrocatalyst. *Catalysis Today*, **2019**, 337, 147-154	5.3	25
17	Multiphase Ni-Fe-selenide nanosheets for highly-efficient and ultra-stable water electrolysis. *Applied Catalysis B: Environmental*, **2020**, 277, 119220	21.8	23
16	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	13	18

15	Mulberry-Inspired Nickel-Niobium Phosphide on Plasma-Defect-Engineered Carbon Support for High-Performance Hydrogen Evolution. *Small*, **2020**, 16, e2004843	11	15
14	In-Situ-Engineered 3D Cu3Se2@CoSe2@NiSe2 Nanostructures for Highly Efficient Electrocatalytic Water Splitting. *ACS Sustainable Chemistry and Engineering*, **2020**, 8, 17215-17224	8.3	14
13	Non-equilibrium plasma prevention of Schistosoma japonicum transmission. *Scientific Reports*, **2016**, 6, 35353	4.9	14
12	Characteristics of NOxRemoval Combining Dielectric Barrier Discharge Plasma with Selective Catalytic Reduction by C3H6. *Japanese Journal of Applied Physics*, **2010**, 49, 086201	1.4	10
11	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	13	9
10	Deactivation of Enterococcus Faecalis Bacteria by an Atmospheric Cold Plasma Brush. *Chinese Physics Letters*, **2012**, 29, 075203	1.8	7
9	Trimetallic Octahedral NiCoW Phosphoxide Sprouted from Plasma-Defect-Engineered NiCo Support for Ultrahigh-Performance Electrocatalytic Hydrogen Evolution. *ACS Sustainable Chemistry and Engineering*, **2021**, 9, 7454-7465	8.3	7
8	Degradation of high-concentration simulated organic wastewater by DBD plasma. *Water Science and Technology*, **2019**, 80, 1413-1420	2.2	6
7	Focused Plasma- and Pure Water-Enabled, Electrode-Emerged Nanointerfaced NiCo Hydroxide-Oxide for Robust Overall Water Splitting. *ACS Applied Materials & Interfaces*, **2021**, 13, 45566-45577	9.5	6
6	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	17.1	4
5	Sterilization of mycete attached on the unearthed silk fabrics by an atmospheric pressure plasma jet. *Chinese Physics B*, **2018**, 27, 055207	1.2	3
4	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	14.7	3
3	A half-bridge IGBT drive and protection circuit in dielectric barrier discharge power supply. *Circuit World*, **2021**, ahead-of-print,	0.7	1
2	Synergistic degradation of fluorene in soil by dielectric barrier discharge plasma combined with P25/NH-MIL-125(Ti).. *Chemosphere*, **2022**, 133950	8.4	0
1	In-situ engineered heterostructured nickel tellur-selenide nanosheets for robust overall water splitting. *Chemical Engineering Journal*, **2022**, 446, 137297	14.7	0