

Yen-Hsun Su

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.

82
papers

1,257
citations

17
h-index

33
g-index

91
ext. papers

1,597
ext. citations

5
avg, IF

4.87
L-index

#	Paper	IF	Citations
82	Double Perovskite LaFeNiO Coated with Sea Urchin-like Gold Nanoparticles Using Electrophoresis as the Photoelectrochemical Electrode to Enhance H Production via Surface Plasmon Resonance Effect.. <i>Nanomaterials</i> , 2022 , 12,	5.4	2
81	Ultrafast chiral peptides purification via surface plasmon enhanced spin selectivity.. <i>Biosensors and Bioelectronics</i> , 2022 , 211, 114339	11.8	
80	Catalytic hydrogen evolution reaction on surfaces of metal-nanoparticle-coated zinc-based oxides by first-principles calculations. <i>International Journal of Hydrogen Energy</i> , 2021 ,	6.7	1
79	Edge-Trimmed Nanogaps in 2D Materials for Robust, Scalable, and Tunable Lateral Tunnel Junctions. <i>Nanomaterials</i> , 2021 , 11,	5.4	1
78	Solution-based fabrication of high-entropy Ba(Ti,Hf,Zr,Fe,Sn)O ₃ films on fluorine-doped tin oxide substrates and their piezoelectric responses. <i>Ceramics International</i> , 2021 , 47, 11451-11458	5.1	11
77	Advanced High Entropy Perovskite Oxide Electrocatalyst for Oxygen Evolution Reaction. <i>Advanced Functional Materials</i> , 2021 , 31, 2101632	15.6	54
76	Self-organization of ferroelectric polymer crystals and enhanced dielectric responses. <i>Applied Surface Science</i> , 2021 , 555, 149659	6.7	0
75	Surface Plasmon Resonance of Gold Nano-Sea-Urchins Controlled by Machine-Learning-Based Regulation in Seed-Mediated Growth. <i>Advanced Photonics Research</i> , 2021 , 2, 2100052	1.9	3
74	Spintronic Population Modulation via a Small Polaron Antiphase Filter. <i>Energy & Fuels</i> , 2021 , 35, 1779-1785	4.1	1
73	Entangled spintronic modulated high-performance Ce ₂ O ₃ small polaron surface state-based water splitting cells. <i>International Journal of Energy Research</i> , 2021 , 45, 8848-8856	4.5	2
72	Hydrogen Evolution Driven by Photoexcited Entangled Skyrmion on Perovskite CaNaNbO Nanosheet. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 6244-6251	6.4	
71	Stepwise Evolution of Photocatalytic Spinel-Structured (Co,Cr,Fe,Mn,Ni) ₃ O ₄ High Entropy Oxides from First-Principles Calculations to Machine Learning. <i>Crystals</i> , 2021 , 11, 1035	2.3	2
70	Surface Plasmon Resonance of Gold Nano-Sea-Urchins Controlled by Machine-Learning-Based Regulation in Seed-Mediated Growth. <i>Advanced Photonics Research</i> , 2021 , 2, 2170031	1.9	0
69	Photo-activated titanium surface confers time dependent bactericidal activity towards Gram positive and negative bacteria. <i>Colloids and Surfaces B: Biointerfaces</i> , 2021 , 206, 111940	6	5
68	Efficacious CO Photoconversion to C ₂ and C ₃ Hydrocarbons on Upright SnS-SnS Heterojunction Nanosheet Frameworks. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 4984-4992	9.5	5
67	A New High Entropy Glycerate for High Performance Oxygen Evolution Reaction. <i>Advanced Science</i> , 2021 , 8, 2002446	13.6	36
66	Cobalt Nitrate Metal-Organic-Framework UTSA-16 on TiO ₂ Nanoparticles. <i>IOP Conference Series: Materials Science and Engineering</i> , 2020 , 720, 012008	0.4	1

65	Dion-Jacobson Phase Perovskite $\text{Ca}_2\text{NaNb}_n\text{Nb}_{n-1}\text{O}_{3n+1}$ ($n = 4\text{B}$) Nanosheets as High- η Photovoltaic Electrode Materials in a Solar Water-Splitting Cell. <i>ACS Applied Nano Materials</i> , 2020 , 3, 6367-6375	5.6	4
64	Decorating a WSe ₂ monolayer with Au nanoparticles: A study combined first-principles calculation with material genome approach. <i>Surface and Coatings Technology</i> , 2020 , 388, 125563	4.4	2
63	Interfacial effects on leakage currents in Cu/Cristobalite/Cu junctions. <i>Scientific Reports</i> , 2020 , 10, 5303	4.9	
62	Materials genome evolution of surface plasmon resonance characteristics of Au nanoparticles decorated ZnO nanorods. <i>APL Materials</i> , 2020 , 8, 091109	5.7	2
61	Exploring the First High-Entropy Thin Film Libraries: Composition Spread-Controlled Crystalline Structure. <i>ACS Combinatorial Science</i> , 2020 , 22, 858-866	3.9	6
60	Gold Nanoparticles on TM:ZnO (TM: Fe, Co) as Spinplasmon-Assisted Electro-Optic Reaction Modulator in Solar-to-Hydrogen Water Splitting Cell. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 14743-14751	8.3	2
59	Energy-Yielding Mini Heat Thermocells with WS ₂ Water-Splitting Dual System to Recycle Wasted Heat. <i>ACS Applied Energy Materials</i> , 2019 , 2, 7092-7103	6.1	5
58	Solid-diffusion-facilitated cleaning of copper foil improves the quality of CVD graphene. <i>Scientific Reports</i> , 2019 , 9, 257	4.9	3
57	Emergent Upconversion Sustainable Micro-Optical Trapping Device. <i>Particle and Particle Systems Characterization</i> , 2019 , 36, 1900077	3.1	1
56	Photon-Induced Spintronic Polaron Channel Modulator of CeO _{2-x} NP Thin Films Hydrogen Evolution Cells. <i>Advanced Electronic Materials</i> , 2019 , 5, 1800570	6.4	6
55	Photonic Fano Resonance of Multishaped Cu ₂ O Nanoparticles on ZnO Nanowires Modulating Efficiency of Hydrogen Generation in Water Splitting Cell. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 6590-6598	8.3	18
54	Firefly-like Water Splitting Cells Based on FRET Phenomena with Ultrahigh Performance over 12. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 5007-5013	9.5	6
53	Sr ₄ Al ₁₄ O ₂₅ : Eu ²⁺ , Dy ³⁺ /silica core-shell particles synthesized via urea combustion method for carbon dioxide reduction in plants. <i>Optical and Quantum Electronics</i> , 2018 , 50, 1	2.4	
52	Conductance Switching in Single-Peptide Molecules through Interferer Binding. <i>ACS Omega</i> , 2018 , 3, 9191-9195	3.9	1
51	Electrostatic Control over the Electrochemical Reactivity of Graphene. <i>Chemistry of Materials</i> , 2018 , 30, 7178-7182	9.6	8
50	Enhancing up conversion luminescence effect of $\text{NaYF}_4: \text{Yb}^{3+}$ and Tm^{3+} by Li^+ ion doped approach. <i>Optical and Quantum Electronics</i> , 2017 , 49, 1	2.4	3
49	Increasing the doping efficiency by surface energy control for ultra-transparent graphene conductors. <i>Scientific Reports</i> , 2017 , 7, 9052	4.9	7
48	Inclusions properties at 1673 K and room temperature with Ce addition in SS400 steel. <i>Scientific Reports</i> , 2017 , 7, 2564	4.9	7

47	Optimizing after-glow luminescent parameters of Sr ₄ Al ₁₄ O ₂₅ :Eu ²⁺ , Dy ³⁺ , by sol-gel method and combustion process. <i>Optical and Quantum Electronics</i> , 2017 , 49, 1	2.4	1
46	High-Efficiency Water-Splitting Solar Cells with Low Diffusion Resistance Corresponding to Halochromic Pigments Interfacing with ZrO ₂ . <i>ACS Sustainable Chemistry and Engineering</i> , 2017 , 5, 7716-7722	8.3	11
45	Surface plasmon of gold nanoparticle on diatom template as Light Scattering Center for local field enhancer. <i>Optical and Quantum Electronics</i> , 2017 , 49, 1	2.4	3
44	Thermodynamic Calculation among Cerium, Oxygen, and Sulfur in Liquid Iron. <i>Scientific Reports</i> , 2016 , 6, 35843	4.9	17
43	Nanophotonic perovskite solar cell architecture with a three-dimensional TiO ₂ nanodendrite scaffold for light trapping and electron collection. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 1119-1125	13	26
42	Optoelectronic properties of morning glory as dye on TiO ₂ thin film. <i>Optical and Quantum Electronics</i> , 2016 , 48, 1	2.4	6
41	Near infrared quantum cutting by cooperative energy transfer from Tb ³⁺ to Yb ³⁺ in YPO ₄ . <i>Optical and Quantum Electronics</i> , 2016 , 48, 1	2.4	8
40	The electronic structure of organic-inorganic hybrid perovskite solar cell: A first-principles analysis. <i>Computational Materials Science</i> , 2016 , 117, 573-578	3.2	16
39	Effects of Rare Earth Metals on Steel Microstructures. <i>Materials</i> , 2016 , 9,	3.5	69
38	Effect of annealing temperature on the optoelectronic characteristic of Al and Ga co-doping ZnO thin films. <i>Optical and Quantum Electronics</i> , 2016 , 48, 1	2.4	3
37	The effect of silver nanoparticles/graphene-coupled TiO ₂ beads photocatalyst on the photoconversion efficiency of photoelectrochemical hydrogen production. <i>Nanotechnology</i> , 2016 , 27, 435405	3.4	14
36	The effects of UV curing on silicon oxycarbide films. <i>Optical and Quantum Electronics</i> , 2016 , 48, 1	2.4	3
35	Charge collection enhancement by incorporation of gold-silica core-shell nanoparticles into P3HT:PCBM/ZnO nanorod array hybrid solar cells. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 19854-61	3.6	3
34	Hydrogen Generation of Cu ₂ O Nanoparticles/MnO/MnO ₂ Nanorods Heterojunction Supported on Sonochemical-Assisted Synthesized Few-Layer Graphene in Water-Splitting Photocathode. <i>ACS Sustainable Chemistry and Engineering</i> , 2015 , 3, 1965-1973	8.3	20
33	Down-conversion photoluminescence sensitizing plasmonic silver nanoparticles on ZnO nanorods to generate hydrogen by water splitting photochemistry. <i>Applied Physics Letters</i> , 2015 , 106, 023114	3.4	14
32	Photochemical water splitting performance of fluorescein, rhodamine B, and chlorophyll-Cu supported on ZrO ₂ nanoparticles layer anode. <i>Dyes and Pigments</i> , 2014 , 103, 76-81	4.6	19
31	P3HT-based nanoarchitectural Fano solar cells. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 17993-8009	9.9	10
30	Effect of Calcination on Crystallinity for Nanostructured Development of Wormhole-Like Mesoporous Tungsten Oxide 2014 , 137-139		

29	Photochemical water splitting of WO ₃ nanoparticles layers on indium tin oxide glass substance after absorbing chlorophyll. <i>Materials Research Innovations</i> , 2014 , 18, S3-72-S3-75	1.9	4
28	Investigation of the optical and the electrical characteristics of thin titanium dioxide films. <i>Materials Research Innovations</i> , 2014 , 18, S3-26-S3-30	1.9	
27	Performance enhancement of natural pigments on a high light transmission ZrO ₂ nanoparticle layer in a water-based dye-sensitized solar cell. <i>International Journal of Energy Research</i> , 2014 , 38, 436-443	4.5	9
26	Ultra-thin titanium nanolayers for plasmon-assisted enhancement of bioluminescence of chloroplast in biological light emitting devices. <i>Applied Physics Letters</i> , 2013 , 103, 063703	3.4	8
25	Photoluminescence of Cu:ZnS, Ag:ZnS, and Au:ZnS nanoparticles applied in Bio-LED. <i>Applied Physics B: Lasers and Optics</i> , 2013 , 113, 351-359	1.9	30
24	Surface plasmon resonance of Au-Cu bimetallic nanoparticles predicted by a quasi-chemical model. <i>Nanoscale Research Letters</i> , 2013 , 8, 408	5	18
23	Photo-Electronic Properties of Titanium Dioxide Nano Thin Films. <i>Applied Mechanics and Materials</i> , 2013 , 479-480, 50-54	0.3	
22	Nanoantenna-like properties of sea-urchin shaped ZnO as a nanolight filter. <i>Applied Physics Letters</i> , 2012 , 101, 133101	3.4	5
21	Surface plasmon resonance of layer-by-layer gold nanoparticles induced photoelectric current in environmentally-friendly plasmon-sensitized solar cell. <i>Light: Science and Applications</i> , 2012 , 1, e14-e14	16.7	253
20	Electrostatic studies of π -Interaction for benzene stacking on a graphene layer. <i>Applied Physics Letters</i> , 2011 , 99, 163102	3.4	37
19	Influence of surface plasmon resonance on the emission intermittency of photoluminescence from gold nano-sea-urchins. <i>Nanoscale</i> , 2010 , 2, 2639-46	7.7	33
18	Wave-Like Energy Resonance Transfer of Plasmonic Absorption Gap in Plasmon-Sensitized Solar Cell, Plasmonic Solar Cells, and Plasmonic Photovoltaics. <i>Journal of the Chinese Chemical Society</i> , 2010 , 57, 1191-1196	1.5	
17	Electronic Structure of Anthocyanidins Adsorbed on Buckminsterfullerene: First Principles Studies. <i>Journal of the Chinese Chemical Society</i> , 2010 , 57, 1212-1216	1.5	2
16	Effect of Thickness Affecting Optical Properties of Ge Thin Film Preparing by Ultra Vacuum Ion Beam Sputtering. <i>Journal of the Chinese Chemical Society</i> , 2010 , 57, 1197-1199	1.5	2
15	Ellipsometric studies of optical properties of local surface plasmon resonance for Au nanoparticles on the substrate. <i>Journal of Nanoscience and Nanotechnology</i> , 2009 , 9, 1181-4	1.3	5
14	Plasmons: Chemical Bonding Coupling Induced Surface Plasmon Resonance Splitting in Self-Assembled Gold Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 3923-3928	3.8	14
13	Photoelectric characteristics of natural pigments self-assembly fabricated on TiO ₂ /FTO substrate. <i>Journal of Nanoscience and Nanotechnology</i> , 2009 , 9, 960-4	1.3	12
12	Field-Emission Performance of Wormhole-Like Mesoporous Tungsten Oxide Nanowires. <i>Journal of Electronic Materials</i> , 2008 , 37, 1082-1087	1.9	12

11	Commercial and natural dyes as photosensitizers for a water-based dye-sensitized solar cell loaded with gold nanoparticles. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2008 , 195, 307-313	4.7	129
10	Effect of Calcination on Crystallinity for Nanostructured Development of Wormhole-Like Mesoporous Tungsten Oxide. <i>Journal of the American Ceramic Society</i> , 2007 , 90, 070929025416004-???	3.8	1
9	Layer-by-layer Au nanoparticles as a Schottky barrier in a water-based dye-sensitized solar cell. <i>Applied Physics A: Materials Science and Processing</i> , 2007 , 88, 173-178	2.6	46
8	Surface plasmon resonance of gold nano-sea-urchin. <i>Applied Physics Letters</i> , 2007 , 90, 181905	3.4	20
7	Synthesis of Tungsten Oxide Particles by Chemical Deposition Method. <i>Materials Transactions</i> , 2007 , 48, 1575-1577	1.3	11
6	Surfactants-aided syntheses of different sizes and triangular shape of gold nanoparticles using trisodium citrate in environmentally friendly and photoinduced methods. <i>Journal of Nanoscience and Nanotechnology</i> , 2007 , 7, 3146-51	1.3	8
5	Ellipsometric advances for local surface plasmon resonance to determine chitosan adsorption on layer-by-layer gold nanoparticles. <i>Applied Spectroscopy</i> , 2007 , 61, 1007-14	3.1	8
4	Hydrolysis reaction on the characterization of wormhole-like mesoporous tungsten oxide. <i>Journal of Alloys and Compounds</i> , 2007 , 438, 247-252	5.7	11
3	ZnO:Al Thin Film Gas Sensor for Detection of Ethanol Vapor. <i>Sensors</i> , 2006 , 6, 1420-1427	3.8	103
2	Spintronic Hydrogen Evolution Induced by Surface Plasmon of Silver Nanoparticles Loaded on Fe and Co doping ZnO Nanorods. <i>Journal of Materials Chemistry A</i> ,	13	2
1	Self-Reconstruction of Sulfate-Containing High Entropy Sulfide for Exceptionally High-Performance Oxygen Evolution Reaction Electrocatalyst. <i>Advanced Functional Materials</i> , 2106229	15.6	23