

Yen-Hsun Su

List of Publications by Citations

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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	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
81	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
80	ZnO:Al Thin Film Gas Sensor for Detection of Ethanol Vapor. <i>Sensors</i> , 2006 , 6, 1420-1427	3.8	103
79	Effects of Rare Earth Metals on Steel Microstructures. <i>Materials</i> , 2016 , 9,	3.5	69
78	Advanced High Entropy Perovskite Oxide Electrocatalyst for Oxygen Evolution Reaction. <i>Advanced Functional Materials</i> , 2021 , 31, 2101632	15.6	54
77	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
76	Electrostatic studies of π interaction for benzene stacking on a graphene layer. <i>Applied Physics Letters</i> , 2011 , 99, 163102	3.4	37
75	A New High Entropy Glycerate for High Performance Oxygen Evolution Reaction. <i>Advanced Science</i> , 2021 , 8, 2002446	13.6	36
74	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
73	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
72	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
71	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
70	Hydrogen Generation of Cu ₂ O Nanoparticles/MnO ₂ /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
69	Surface plasmon resonance of gold nano-sea-urchin. <i>Applied Physics Letters</i> , 2007 , 90, 181905	3.4	20
68	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
67	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
66	Surface plasmon resonance of Au-Cu bimetallic nanoparticles predicted by a quasi-chemical model. <i>Nanoscale Research Letters</i> , 2013 , 8, 408	5	18

65	Thermodynamic Calculation among Cerium, Oxygen, and Sulfur in Liquid Iron. <i>Scientific Reports</i> , 2016 , 6, 35843	4.9	17
64	The electronic structure of organic-organic hybrid perovskite solar cell: A first-principles analysis. <i>Computational Materials Science</i> , 2016 , 117, 573-578	3.2	16
63	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
62	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
61	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
60	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
59	Field-Emission Performance of Wormhole-Like Mesoporous Tungsten Oxide Nanowires. <i>Journal of Electronic Materials</i> , 2008 , 37, 1082-1087	1.9	12
58	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
57	Synthesis of Tungsten Oxide Particles by Chemical Deposition Method. <i>Materials Transactions</i> , 2007 , 48, 1575-1577	1.3	11
56	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
55	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
54	P3HT-based nanoarchitectural Fano solar cells. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 17993-8009	3.9	10
53	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
52	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
51	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
50	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
49	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
48	Electrostatic Control over the Electrochemical Reactivity of Graphene. <i>Chemistry of Materials</i> , 2018 , 30, 7178-7182	9.6	8

47	Increasing the doping efficiency by surface energy control for ultra-transparent graphene conductors. <i>Scientific Reports</i> , 2017 , 7, 9052	4.9	7
46	Inclusions properties at 1673 K and room temperature with Ce addition in SS400 steel. <i>Scientific Reports</i> , 2017 , 7, 2564	4.9	7
45	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
44	Optoelectronic properties of morning glory as dye on TiO ₂ thin film. <i>Optical and Quantum Electronics</i> , 2016 , 48, 1	2.4	6
43	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
42	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
41	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
40	Nanoantenna-like properties of sea-urchin shaped ZnO as a nanolight filter. <i>Applied Physics Letters</i> , 2012 , 101, 133101	3.4	5
39	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
38	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
37	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
36	DionJacobson Phase Perovskite Ca ₂ NanBNbnO _{3n+1} (n = 4-8) 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
35	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
34	Enhancing up conversion luminescence effect of NaYF ₄ : Yb ³⁺ and Tm ³⁺ by Li ⁺ ion doped approach. <i>Optical and Quantum Electronics</i> , 2017 , 49, 1	2.4	3
33	Solid-diffusion-facilitated cleaning of copper foil improves the quality of CVD graphene. <i>Scientific Reports</i> , 2019 , 9, 257	4.9	3
32	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 ⁶	3.6	3
31	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
30	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

29	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
28	The effects of UV curing on silicon oxycarbide films. <i>Optical and Quantum Electronics</i> , 2016 , 48, 1	2.4	3
27	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
26	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
25	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
24	Materials genome evolution of surface plasmon resonance characteristics of Au nanoparticles decorated ZnO nanorods. <i>APL Materials</i> , 2020 , 8, 091109	5.7	2
23	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
22	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
21	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
20	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
19	Double Perovskite LaFeNiO Coated with Sea Urchin-like Gold Nanoparticles Using Electrophoresis as the Photoelectrochemical Electrode to Enhance H ₂ Production via Surface Plasmon Resonance Effect.. <i>Nanomaterials</i> , 2022 , 12,	5.4	2
18	Emergent Upconversion Sustainable Micro-Optical Trapping Device. <i>Particle and Particle Systems Characterization</i> , 2019 , 36, 1900077	3.1	1
17	Cobalt Citrate Metal Organic-Framework UTSA-16 on TiO ₂ Nanoparticles. <i>IOP Conference Series: Materials Science and Engineering</i> , 2020 , 720, 012008	0.4	1
16	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
15	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
14	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
13	Edge-Trimmed Nanogaps in 2D Materials for Robust, Scalable, and Tunable Lateral Tunnel Junctions. <i>Nanomaterials</i> , 2021 , 11,	5.4	1
12	Spintronic Population Modulation via a Small Polaron Antiphase Filter. <i>Energy & Fuels</i> , 2021 , 35, 1779-1785	4.1	1

11	Conductance Switching in Single-Peptide Molecules through Interferer Binding. <i>ACS Omega</i> , 2018 , 3, 9191-9195	3.9	1
10	Self-organization of ferroelectric polymer crystals and enhanced dielectric responses. <i>Applied Surface Science</i> , 2021 , 555, 149659	6.7	0
9	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
8	Interfacial effects on leakage currents in Cu/Cristobalite/Cu junctions. <i>Scientific Reports</i> , 2020 , 10, 5303	4.9	
7	Effect of Calcination on Crystallinity for Nanostructured Development of Wormhole-Like Mesoporous Tungsten Oxide 2014 , 137-139		
6	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	
5	Photo-Electronic Properties of Titanium Dioxide Nano Thin Films. <i>Applied Mechanics and Materials</i> , 2013 , 479-480, 50-54	0.3	
4	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	
3	Sr4Al14O25: Eu2+, Dy3+/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	
2	Hydrogen Evolution Driven by Photoexcited Entangled Skyrmion on Perovskite CaNaNbO Nanosheet. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 6244-6251	6.4	
1	Ultrafast chiral peptides purification via surface plasmon enhanced spin selectivity.. <i>Biosensors and Bioelectronics</i> , 2022 , 211, 114339	11.8	