

# Hung Ji Huang

## List of Publications by Year in descending order

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55  
papers

1,402  
citations

331670

21  
h-index

345221

36  
g-index

55  
all docs

55  
docs citations

55  
times ranked

1237  
citing authors

#	ARTICLE	IF	CITATIONS
1	Application of Optical-fiber Photoreactor for CO <sub>2</sub> Photocatalytic Reduction. Topics in Catalysis, 2008, 47, 131-136.	2.8	86
2	Fabrication and Characterization of a Metallic Dielectric Nanorod Array by Nanosphere Lithography for Plasmonic Sensing Application. Nanomaterials, 2019, 9, 1691.	4.1	80
3	Perfect Dual-Band Absorber Based on Plasmonic Effect with the Cross-Hair/Nanorod Combination. Nanomaterials, 2020, 10, 493.	4.1	66
4	Ultra-High Refractive Index Sensing Structure Based on a Metal-Insulator-Metal Waveguide-Coupled T-Shape Cavity with Metal Nanorod Defects. Nanomaterials, 2019, 9, 1433.	4.1	65
5	Highly Sensitive and Tunable Plasmonic Sensor Based on a Nanoring Resonator with Silver Nanorods. Nanomaterials, 2020, 10, 1399.	4.1	65
6	Plasmonic optical properties of a single gold nano-rod. Optics Express, 2007, 15, 7132.	3.4	63
7	Label-free detection with micro optical fluidic systems (MOFS): a review. Analytical and Bioanalytical Chemistry, 2008, 391, 2443-2452.	3.7	63
8	Simultaneous realization of high sensing sensitivity and tunability in plasmonic nanostructures arrays. Scientific Reports, 2017, 7, 16817.	3.3	60
9	Depolying Tunable Metal-Shell/Dielectric Core Nanorod Arrays as the Virtually Perfect Absorber in the Near-Infrared Regime. ACS Omega, 2018, 3, 7508-7516.	3.5	60
10	Ultrawide Bandgap and High Sensitivity of a Plasmonic Metal-Insulator-Metal Waveguide Filter with Cavity and Baffles. Nanomaterials, 2020, 10, 2030.	4.1	59
11	Metal nano-particles sizing by thermal annealing for the enhancement of surface plasmon effects in thin-film solar cells application. Optics Communications, 2016, 370, 85-90.	2.1	56
12	Plasmonic perfect absorber based on metal nanorod arrays connected with veins. Results in Physics, 2019, 15, 102567.	4.1	53
13	Rapid fabrication of three-dimensional gold dendritic nanoforests for visible light-enhanced methanol oxidation. Electrochimica Acta, 2016, 192, 15-21.	5.2	51
14	Tailoring surface plasmon resonance and dipole cavity plasmon modes of scattering cross section spectra on the single solid-gold/gold-shell nanorod. Journal of Applied Physics, 2016, 120, .	2.5	49
15	Plasmonic spectrum on 1D and 2D periodic arrays of rod-shape metal nanoparticle pairs with different core patterns for biosensor and solar cell applications. Journal of Optics (United Kingdom), 2016, 18, 115003.	2.2	47
16	Significantly enhanced coupling effect and gap plasmon resonance in a MIM-cavity based sensing structure. Scientific Reports, 2021, 11, 18515.	3.3	45
17	ZnO nanorod optical disk photocatalytic reactor for photodegradation of methyl orange. Optics Express, 2013, 21, 7240.	3.4	40
18	Strong and tunable plasmonic field coupling and enhancement generating from the protruded metal nanorods and dielectric cores. Results in Physics, 2019, 13, 102290.	4.1	38

#	ARTICLE	IF	CITATIONS
19	Dynamic Aperture of Near-Field Super Resolution Structures. Japanese Journal of Applied Physics, 2000, 39, 982-983.	1.5	32
20	Review of Experimental Setups for Plasmonic Photocatalytic Reactions. Catalysts, 2020, 10, 46.	3.5	28
21	Magnetic Field-Enhancing Photocatalytic Reaction in Micro Optofluidic Chip Reactor. Nanoscale Research Letters, 2019, 14, 323.	5.7	27
22	A simple fabrication process of Pt@TiO <sub>2</sub> hybrid electrode for photo-assisted methanol fuel cells. Microelectronic Engineering, 2011, 88, 2644-2646.	2.4	21
23	Ultrahigh Sensitivity of a Plasmonic Pressure Sensor with a Compact Size. Nanomaterials, 2021, 11, 3147.	4.1	19
24	Photocatalytic degradation of methyl orange by a multi-layer rotating disk reactor. Environmental Science and Pollution Research, 2012, 19, 3743-3750.	5.3	17
25	Confined migration of induced hot electrons in Ag/graphene/TiO <sub>2</sub> composite nanorods for plasmonic photocatalytic reaction. Optics Express, 2016, 24, 15603.	3.4	16
26	Portable handheld diffuse reflectance spectroscopy system for clinical evaluation of skin: a pilot study in psoriasis patients. Biomedical Optics Express, 2016, 7, 616.	2.9	15
27	Novel gold dendritic nanoflowers deposited on titanium nitride for photoelectrochemical cells. Journal of Solid State Electrochemistry, 2018, 22, 3077-3084.	2.5	14
28	Reusable TiN Substrate for Surface Plasmon Resonance Heterodyne Phase Interrogation Sensor. Nanomaterials, 2020, 10, 1325.	4.1	14
29	Mid infrared sensing structure based on a metal-insulator-metal waveguides with a triangular-shaped resonator. Optics Communications, 2022, 516, 128282.	2.1	14
30	Platinum thin films with good thermal and chemical stability fabricated by inductively coupled plasma-enhanced atomic layer deposition at low temperatures. Thin Solid Films, 2014, 566, 93-98.	1.8	11
31	Plasmonic energy transformation in the photocatalytic oxidation of ammonium. Catalysis Communications, 2014, 43, 136-140.	3.3	11
32	A facile approach to prepare silicon-based Pt-Ag tubular dendritic nano-forests (tDNFs) for solar-light-enhanced methanol oxidation reaction. Nanoscale Research Letters, 2015, 10, 74.	5.7	10
33	Dendritic Forest-Like Ag Nanostructures Prepared Using Fluoride-Assisted Galvanic Replacement Reaction for SERS Applications. Nanomaterials, 2021, 11, 1359.	4.1	10
34	Localized surface plasmon resonance enhanced by the light-scattering property of silver nanoparticles for improved luminescence of polymer light-emitting diodes. Journal of Industrial and Engineering Chemistry, 2021, 103, 283-291.	5.8	10
35	Ammonium oxidization at room temperature and plasmonic photocatalytic enhancement. Catalysis Communications, 2013, 36, 16-19.	3.3	9
36	Light absorption measurement of a plasmonic photocatalyst in the circular plane waveguide of a photocatalytic dual light source spinning disk reactor. Optical Review, 2013, 20, 236-240.	2.0	9

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37	Plasmonic effects arising from a grooved surface of a gold nanorod. Journal Physics D: Applied Physics, 2017, 50, 125302.	2.8	8
38	Light Energy Conversion Surface with Gold Dendritic Nanoforests/Si Chip for Plasmonic Polymerase Chain Reaction. Sensors, 2020, 20, 1293.	3.8	8
39	Light energy transformation over a few nanometers. Journal Physics D: Applied Physics, 2017, 50, 375601.	2.8	7
40	Silicon-Based Ag Dendritic Nanoforests for Light-Assisted Bacterial Inhibition. Nanomaterials, 2020, 10, 2244.	4.1	7
41	A multichannel color filter with the functions of optical sensor and switch. Scientific Reports, 2021, 11, 22910.	3.3	7
42	Au@Ag Dendritic Nanoforests for Surface-Enhanced Raman Scattering Sensing. Nanomaterials, 2021, 11, 1736.	4.1	6
43	Tunable plasmonic effects arising from metal-dielectric nanorods. Applied Optics, 2019, 58, 2530.	1.8	6
44	Growth of Gold Dendritic Nanoforests on Titanium Nitride-coated Silicon Substrates. Journal of Visualized Experiments, 2019, , .	0.3	5
45	Plasmonic photocatalytic reactions enhanced by hot electrons in a one-dimensional quantum well. AIP Advances, 2015, 5, 117224.	1.3	3
46	Confocal mapping of myelin figures with micro-Raman spectroscopy. Applied Physics A: Materials Science and Processing, 2018, 124, 1.	2.3	3
47	Demonstrating Applications of Non-optically Regulated Tapping-Mode Near-Field Scanning Optical Microscopy to Nano-optical Metrology and Optical Characterization of Semiconductors. Japanese Journal of Applied Physics, 2006, 45, 2187-2192.	1.5	2
48	Optical imaging with spectrum aberration correction using a filtering macrolens. Applied Optics, 2013, 52, 5058.	1.8	2
49	Effect of synthesis time on plasmonic properties of Ag dendritic nanoforests. IUCr, 2022, 9, 355-363.	2.2	2
50	Near-Field Optical Imaging of a Porous Au Film: Influences of Topographic Artifacts and Surface Plasmons. Plasmonics, 2013, 8, 377-383.	3.4	1
51	Energy transformation of plasmonic photocatalytic oxidation on 1D quantum well of platinum thin film. Applied Physics A: Materials Science and Processing, 2015, 121, 1347-1351.	2.3	1
52	Plasmonic Catalytic Layer for Visible-Light Enhanced Methanol Oxidation Reaction. ECS Meeting Abstracts, 2016, , .	0.0	1
53	On-Chip Liquid Phase Plasmonic Waveguide with Gold Colloidal Solution. , 2008, , .		0
54	Zinc Oxide Nanorod Optical Disk Photocatalytic Reactor for Photodegradation. , 2013, , .		0

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55	Plasmonic Photocatalyst for Photodegradation with Spinning Optical Disk Reactor. , 2014, , .		0