Hung Ji Huang

List of Publications by Year
in descending order

Version: 2024-02-01

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	Mid infrared sensing structure based on a metalâ€“insulatorâ€“metal waveguides with a triangular-shaped resonator. Optics Communications, 2022, 516, 128282.	2.1	14
2	Effect of synthesis time on plasmonic properties of Ag dendritic nanoforests. IUCrJ, 2022, 9, 355-363.	2.2	2
3	Dendritic Forest-Like Ag Nanostructures Prepared Using Fluoride-Assisted Galvanic Replacement Reaction for SERS Applications. Nanomaterials, 2021, 11, 1359.	4.1	10
4	Au@Ag Dendritic Nanoforests for Surface-Enhanced Raman Scattering Sensing. Nanomaterials, 2021, 11, 1736.	4.1	6
5	Significantly enhanced coupling effect and gap plasmon resonance in a MIM-cavity based sensing structure. Scientific Reports, 2021, 11, 18515.	3.3	45
6	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
7	A multichannel color filter with the functions of optical sensor and switch. Scientific Reports, 2021, 11, 22910.	3.3	7
8	Ultrahigh Sensitivity of a Plasmonic Pressure Sensor with a Compact Size. Nanomaterials, 2021, 11, 3147.	4.1	19
9	Silicon-Based Ag Dendritic Nanoforests for Light-Assisted Bacterial Inhibition. Nanomaterials, 2020, 10, 2244.	4.1	7
10	Highly Sensitive and Tunable Plasmonic Sensor Based on a Nanoring Resonator with Silver Nanorods. Nanomaterials, 2020, 10, 1399.	4.1	65
11	Ultrawide Bandgap and High Sensitivity of a Plasmonic Metal-Insulator-Metal Waveguide Filter with Cavity and Baffles. Nanomaterials, 2020, 10, 2030.	4.1	59
12	Perfect Dual-Band Absorber Based on Plasmonic Effect with the Cross-Hair/Nanorod Combination. Nanomaterials, 2020, 10, 493.	4.1	66
13	Light Energy Conversion Surface with Gold Dendritic Nanoforests/Si Chip for Plasmonic Polymerase Chain Reaction. Sensors, 2020, 20, 1293.	3.8	8
14	Reusable TiN Substrate for Surface Plasmon Resonance Heterodyne Phase Interrogation Sensor. Nanomaterials, 2020, 10, 1325.	4.1	14
15	Review of Experimental Setups for Plasmonic Photocatalytic Reactions. Catalysts, 2020, 10, 46.	3.5	28
16	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
17	Plasmonic perfect absorber based on metal nanorod arrays connected with veins. Results in Physics, 2019, 15, 102567.	4.1	53
18	Growth of Gold Dendritic Nanoforests on Titanium Nitride-coated Silicon Substrates. Journal of Visualized Experiments, 2019, , .	0.3	5

#	Article	IF	Citations
19	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
20	Magnetic Field-Enhancing Photocatalytic Reaction in Micro Optofluidic Chip Reactor. Nanoscale Research Letters, 2019, 14, 323.	5.7	27
21	Fabrication and Characterization of a Metallicâ€“Dielectric Nanorod Array by Nanosphere Lithography for Plasmonic Sensing Application. Nanomaterials, 2019, 9, 1691.	4.1	80
22	Tunable plasmonic effects arising from metalâ€“dielectric nanorods. Applied Optics, 2019, 58, 2530.	1.8	6
23	Confocal mapping of myelin figures with micro-Raman spectroscopy. Applied Physics A: Materials Science and Processing, 2018, 124, 1.	2.3	3
24	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
25	Novel gold dendritic nanoflowers deposited on titanium nitride for photoelectrochemical cells. Journal of Solid State Electrochemistry, 2018, 22, 3077-3084.	2.5	14
26	Plasmonic effects arising from a grooved surface of a gold nanorod. Journal Physics D: Applied Physics, 2017, 50, 125302.	2.8	8
27	Light energy transformation over a few nanometers. Journal Physics D: Applied Physics, 2017, 50, 375601.	2.8	7
28	Simultaneous realization of high sensing sensitivity and tunability in plasmonic nanostructures arrays. Scientific Reports, 2017, 7, 16817.	3.3	60
29	Confined migration of induced hot electrons in Ag/graphene/TiO_2 composite nanorods for plasmonic photocatalytic reaction. Optics Express, 2016, 24, 15603.	3.4	16
30	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
31	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
32	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
33	Rapid fabrication of three-dimensional gold dendritic nanoforests for visible light-enhanced methanol oxidation. Electrochimica Acta, 2016, 192, 15-21.	5.2	51
34	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
35	Plasmonic Catalytic Layer for Visible-Light Enhanced Methanol Oxidation Reaction. ECS Meeting Abstracts, 2016, , .	0.0	1
36	Plasmonic photocatalytic reactions enhanced by hot electrons in a one-dimensional quantum well. AIP Advances, 2015, 5, 117224.	1.3	3

#	Article	IF	Citations
37	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
38	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
39	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
40	Plasmonic energy transformation in the photocatalytic oxidation of ammonium. Catalysis Communications, 2014, 43, 136-140.	3.3	11
41	Plasmonic Photocatalyst for Photodegradation with Spinning Optical Disk Reactor. , 2014, , .		0
42	Ammonium oxidization at room temperature and plasmonic photocatalytic enhancement. Catalysis Communications, 2013, 36, 16-19.	3.3	9
43	Near-Field Optical Imaging of a Porous Au Film: Influences of Topographic Artifacts and Surface Plasmons. Plasmonics, 2013, 8, 377-383.	3.4	1
44	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
45	Zinc Oxide Nanorod Optical Disk Photocatalytic Reactor for Photodegradation. , 2013, , .		0
46	Optical imaging with spectrum aberration correction using a filtering macrolens. Applied Optics, 2013, 52, 5058.	1.8	2
47	ZnO nanorod optical disk photocatalytic reactor for photodegradation of methyl orange. Optics Express, 2013, 21, 7240.	3.4	40
48	Photocatalytic degradation of methyl orange by a multi-layer rotating disk reactor. Environmental Science and Pollution Research, 2012, 19, 3743-3750.	5.3	17
49	A simple fabrication process of Ptâ€“TiO2 hybrid electrode for photo-assisted methanol fuel cells. Microelectronic Engineering, 2011, 88, 2644-2646.	2.4	21
50	Application of Optical-fiber Photoreactor for CO2 Photocatalytic Reduction. Topics in Catalysis, 2008, 47, 131-136.	2.8	86
51	Label-free detection with micro optical fluidic systems (MOFS): a review. Analytical and Bioanalytical Chemistry, 2008, 391, 2443-2452.	3.7	63
52	On-Chip Liquid Phase Plasmonic Waveguide with Gold Colloidal Solution. , 2008, , .		0
53	Plasmonic optical properties of a single gold nano-rod. Optics Express, 2007, 15, 7132.	3.4	63
54	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

#	Article	IF	Citations
55	Dynamic Aperture of Near-Field Super Resolution Structures. Japanese Journal of Applied Physics, 2000, 39, 982-983.	1.5	32