

Yuan-Fong Chau

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117
papers

2,412
citations

35
h-index

42
g-index

134
ext. papers

3,040
ext. citations

2.5
avg, IF

5.56
L-index

#	Paper	IF	Citations
117	Design of plasmonic toroidal metamaterials at optical frequencies. <i>Optics Express</i> , 2012 , 20, 1760-8	3.3	137
116	Near infrared surface-enhanced Raman scattering based on star-shaped gold/silver nanoparticles and hyperbolic metamaterial. <i>Scientific Reports</i> , 2017 , 7, 5446	4.9	65
115	High birefringence photonic crystal fiber with a complex unit cell of asymmetric elliptical air hole cladding. <i>Applied Optics</i> , 2007 , 46, 5276-81	1.7	58
114	Depolying Tunable Metal-Shell/Dielectric Core Nanorod Arrays as the Virtually Perfect Absorber in the Near-Infrared Regime. <i>ACS Omega</i> , 2018 , 3, 7508-7516	3.9	55
113	Near-field optical properties and surface plasmon effects generated by a dielectric hole in a silver-shell nanocylinder pair. <i>Applied Optics</i> , 2008 , 47, 5557-61	0.2	55
112	Simultaneous realization of high sensing sensitivity and tunability in plasmonic nanostructures arrays. <i>Scientific Reports</i> , 2017 , 7, 16817	4.9	53
111	High birefringence and low loss circular air-holes photonic crystal fiber using complex unit cells in cladding. <i>Optics Communications</i> , 2008 , 281, 4334-4338	2	53
110	Ultra-High Refractive Index Sensing Structure Based on a Metal-Insulator-Metal Waveguide-Coupled T-Shape Cavity with Metal Nanorod Defects. <i>Nanomaterials</i> , 2019 , 9,	5.4	50
109	Fabrication and Characterization of a Metallic-Dielectric Nanorod Array by Nanosphere Lithography for Plasmonic Sensing Application. <i>Nanomaterials</i> , 2019 , 9,	5.4	47
108	Fabrication of three dimensional split ring resonators by stress-driven assembly method. <i>Optics Express</i> , 2012 , 20, 9415-20	3.3	45
107	Three-dimensional analysis of surface plasmon resonance modes on a gold nanorod. <i>Applied Optics</i> , 2009 , 48, 617-22	0.2	43
106	Perfect Dual-Band Absorber Based on Plasmonic Effect with the Cross-Hair/Nanorod Combination. <i>Nanomaterials</i> , 2020 , 10,	5.4	42
105	Plasmonic spectrum on 1D and 2D periodic arrays of rod-shape metal nanoparticle pairs with different core patterns for biosensor and solar cell applications. <i>Journal of Optics (United Kingdom)</i> , 2016 , 18, 115003	1.7	42
104	Rapid fabrication of three-dimensional gold dendritic nanoforests for visible light-enhanced methanol oxidation. <i>Electrochimica Acta</i> , 2016 , 192, 15-21	6.7	41
103	Structurally and materially sensitive hybrid surface plasmon modes in periodic silver-shell nanopearl and its dimer arrays. <i>Journal of Nanoparticle Research</i> , 2013 , 15, 1	2.3	40
102	Three-Dimensional Analysis of Scattering Field Interactions and Surface Plasmon Resonance in Coupled Silver Nanospheres. <i>Plasmonics</i> , 2008 , 3, 157-164	2.4	40
101	Plasmonic perfect absorber based on metal nanorod arrays connected with veins. <i>Results in Physics</i> , 2019 , 15, 102567	3.7	39

100	Plasmonic effects in composite metal nanostructures for sensing applications. <i>Journal of Nanoparticle Research</i> , 2018 , 20, 1	2.3	39
99	Highly Birefringent Index-Guiding Photonic Crystal Fiber with Squeezed Differently Sized Air-Holes in Cladding. <i>Japanese Journal of Applied Physics</i> , 2008 , 47, 3755-3759	1.4	39
98	Highly Sensitive and Tunable Plasmonic Sensor Based on a Nanoring Resonator with Silver Nanorods. <i>Nanomaterials</i> , 2020 , 10,	5.4	39
97	Tailoring surface plasmon resonance and dipole cavity plasmon modes of scattering cross section spectra on the single solid-gold/gold-shell nanorod. <i>Journal of Applied Physics</i> , 2016 , 120, 093110	2.5	39
96	Analysis of transmittance properties of surface plasmon modes on periodic solid/outline bowtie nanoantenna arrays. <i>Physics of Plasmas</i> , 2013 , 20, 064503	2.1	38
95	Plasmonics Effects of Nanometal Embedded in a Dielectric Substrate. <i>Plasmonics</i> , 2011 , 6, 581-589	2.4	38
94	Surface Plasmon Resonances Effects on Different Patterns of Solid-silver and Silver-shell Nanocylindrical Pairs. <i>Journal of Electromagnetic Waves and Applications</i> , 2010 , 24, 1005-1014	1.3	38
93	Surface Plasmon Effects Excited by the Dielectric Hole in a Silver-Shell Nanospherical Pair. <i>Plasmonics</i> , 2009 , 4, 253-259	2.4	38
92	Coupling technique for efficient interfacing between silica waveguides and planar photonic crystal circuits. <i>Applied Optics</i> , 2004 , 43, 6656-63	1.7	38
91	Surface plasmon resonance in a hexagonal nanostructure formed by seven core shell nanocylinders. <i>Applied Optics</i> , 2010 , 49, 920-6	0.2	37
90	Enhanced surface plasmon resonance based on the silver nanoshells connected by the nanobars. <i>Optics Express</i> , 2010 , 18, 3510-8	3.3	37
89	Tunable plasmonic resonance arising from broken-symmetric silver nanobeads with dielectric cores. <i>Journal of Optics (United Kingdom)</i> , 2012 , 14, 114010	1.7	37
88	Surface plasmon effects excitation from three-pair arrays of silver-shell nanocylinders. <i>Physics of Plasmas</i> , 2009 , 16, 022303	2.1	37
87	Tunable Optical Performances on a Periodic Array of Plasmonic Bowtie Nanoantennas with Hollow Cavities. <i>Nanoscale Research Letters</i> , 2016 , 11, 411	5	37
86	A comparative study of solid-silver and silver-shell nanodimers on surface plasmon resonances. <i>Journal of Nanoparticle Research</i> , 2011 , 13, 637-644	2.3	36
85	Three-dimensional analysis of silver nano-particles doping effects on super resolution near-field structure. <i>Optics Communications</i> , 2007 , 269, 389-394	2	36
84	Significantly Enhanced Birefringence of Photonic Crystal Fiber Using Rotational Binary Unit Cell in Fiber Cladding. <i>Japanese Journal of Applied Physics</i> , 2007 , 46, L1048-L1051	1.4	36
83	LOCALIZED RESONANCE OF COMPOSITE CORE-SHELL NANOSPHERES, NANOBARS AND NANOSPHERICAL CHAINS. <i>Progress in Electromagnetics Research B</i> , 2011 , 28, 183-199	0.7	35

82	A New Type of Optical Antenna: Plasmonics Nanoshell Bowtie Antenna with Dielectric Hole. <i>Journal of Electromagnetic Waves and Applications</i> , 2010 , 24, 1621-1632	1.3	35
81	Electromagnetic energy vortex associated with sub-wavelength plasmonic Taiji marks. <i>Optics Express</i> , 2010 , 18, 19665-71	3.3	35
80	Design of high birefringence and low confinement loss photonic crystal fibers with five rings hexagonal and octagonal symmetry air-holes in fiber cladding. <i>Journal of Applied Physics</i> , 2011 , 109, 093103	2.5	35
79	50/50 beam splitter using a one-dimensional metal photonic crystal with parabolalike dispersion. <i>Applied Physics Letters</i> , 2007 , 90, 251909	3.4	35
78	Metal nano-particles sizing by thermal annealing for the enhancement of surface plasmon effects in thin-film solar cells application. <i>Optics Communications</i> , 2016 , 370, 85-90	2	33
77	Design of crossing metallic metasurface arrays based on high sensitivity of gap enhancement and transmittance shift for plasmonic sensing applications. <i>Journal Physics D: Applied Physics</i> , 2017 , 50, 045105	1.5	31
76	A COMPARATIVE STUDY OF HIGH BIREFRINGENCE AND LOW CONFINEMENT LOSS PHOTONIC CRYSTAL FIBER EMPLOYING ELLIPTICAL AIR HOLES IN FIBER CLADDING WITH TETRAGONAL LATTICE. <i>Progress in Electromagnetics Research B</i> , 2010 , 22, 39-52	0.7	31
75	Radome slope compensation using multiple-model Kalman filters. <i>Journal of Guidance, Control, and Dynamics</i> , 1995 , 18, 637-640	2.1	29
74	Effect of internal period on the optical dispersion of indefinite-medium materials. <i>Physical Review B</i> , 2008 , 77,	3.3	26
73	Manipulating near field enhancement and optical spectrum in a pair-array of the cavity resonance based plasmonic nanoantennas. <i>Journal Physics D: Applied Physics</i> , 2016 , 49, 475102	3	25
72	Evolution of the complete photonic bandgap of two-dimensional photonic crystal. <i>Optics Express</i> , 2011 , 19, 4862-7	3.3	25
71	Controlling surface plasmon of several pair arrays of silver-shell nanocylinders. <i>Applied Optics</i> , 2010 , 49, 1163-9	0.2	24
70	Strong and tunable plasmonic field coupling and enhancement generating from the protruded metal nanorods and dielectric cores. <i>Results in Physics</i> , 2019 , 13, 102290	3.7	22
69	Mid-infrared sensing properties of a plasmonic metal-insulator-metal waveguide with a single stub including defects. <i>Journal Physics D: Applied Physics</i> , 2020 , 53, 115401	3	22
68	Tunable silver-shell dielectric core nano-beads array for thin-film solar cell application. <i>Journal of Nanoparticle Research</i> , 2016 , 18, 1	2.3	22
67	Ultra-broad bandgap metal-insulator-metal waveguide filter with symmetrical stubs and defects. <i>Results in Physics</i> , 2020 , 17, 103116	3.7	21
66	Buried Effects of Surface Plasmon Resonance Modes for Periodic Metal-Dielectric Nanostructures Consisting of Coupled Spherical Metal Nanoparticles with Cylindrical Pore Filled with a Dielectric. <i>Plasmonics</i> , 2014 , 9, 1-9	2.4	20
65	Ultrawide Bandgap and High Sensitivity of a Plasmonic Metal-Insulator-Metal Waveguide Filter with Cavity and Baffles. <i>Nanomaterials</i> , 2020 , 10,	5.4	19

64	Highly sensitive metal-insulator-metal plasmonic refractive index sensor with a centrally coupled nanoring containing defects. <i>Journal Physics D: Applied Physics</i> , 2021 , 54, 115301	3	17
63	Review of Experimental Setups for Plasmonic Photocatalytic Reactions. <i>Catalysts</i> , 2020 , 10, 46	4	15
62	Gap enhancement and transmittance spectra of a periodic bowtie nanoantenna array buried in a silica substrate. <i>Optics Communications</i> , 2014 , 324, 227-233	2	14
61	Effective Coupling of Incident Light Through an Air Region into an S-Shape Plasmonic Ag Nanowire Waveguide with Relatively Long Propagation Length. <i>Plasmonics</i> , 2014 , 9, 573-579	2.4	14
60	Plasmon field enhancement in silver core-protruded silicon shell nanocylinder illuminated with light at 633 nm. <i>Applied Optics</i> , 2010 , 49, 6295-301	0.2	14
59	Complete bandgap arising from the effects of hollow, veins, and intersecting veins in a square lattice of square dielectric rods photonic crystal. <i>Applied Physics Letters</i> , 2011 , 98, 263115	3.4	13
58	Imaging Properties of Three Dimensional Aperture Near-Field Scanning Optical Microscopy and Optimized Near-Field Fiber Probe Designs. <i>Japanese Journal of Applied Physics</i> , 2004 , 43, 8115-8125	1.4	13
57	A simple structure of all circular-air-holes photonic crystal fiber for achieving high birefringence and low confinement loss. <i>Journal of Applied Physics</i> , 2015 , 118, 243102	2.5	12
56	Enhancing plasmonic effect in periodic nanometal square prisms with fences and cavities for refractive index and temperature sensing applications. <i>Journal of Nanoparticle Research</i> , 2020 , 22, 1	2.3	12
55	Magnetic Field-Enhancing Photocatalytic Reaction in Micro Optofluidic Chip Reactor. <i>Nanoscale Research Letters</i> , 2019 , 14, 323	5	12
54	Enhanced photoluminescence of DCJTb with ordered Ag-SiO ₂ core-shell nanostructures via nanosphere lithography. <i>Results in Physics</i> , 2020 , 17, 103168	3.7	11
53	Numerical Investigation of a Castle-like Contour Plasmonic Nanoantenna with Operating Wavelengths Ranging in Ultraviolet, Visible, Visible Light, and Infrared Light. <i>Plasmonics</i> , 2013 , 8, 755-761 ^{2.4}	2.4	11
52	Machine learning approaches to predict adsorption capacity of <i>Azolla pinnata</i> in the removal of methylene blue. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2021 , 132, 104134-104134	5.3	11
51	Reusable TiN Substrate for Surface Plasmon Resonance Heterodyne Phase Interrogation Sensor. <i>Nanomaterials</i> , 2020 , 10,	5.4	9
50	Intersecting veins effects of a two-dimensional photonic crystal with a large two-dimensional complete bandgap. <i>Optics Communications</i> , 2009 , 282, 4296-4298	2	9
49	Plasmonic refractive index sensor based on the combination of rectangular and circular resonators including baffles. <i>Chinese Journal of Physics</i> , 2021 , 71, 286-299	3.5	9
48	Plasmonic effects arising from a grooved surface of a gold nanorod. <i>Journal Physics D: Applied Physics</i> , 2017 , 50, 125302	3	8
47	Significantly enhanced coupling effect and gap plasmon resonance in a MIM-cavity based sensing structure. <i>Scientific Reports</i> , 2021 , 11, 18515	4.9	8

46	Deposition of Ta ₂ O ₅ upon silver nanorods as an ultra-thin light absorber. <i>Thin Solid Films</i> , 2014 , 567, 38-46	2.2	7
45	Light energy transformation over a few nanometers. <i>Journal Physics D: Applied Physics</i> , 2017 , 50, 3756013		7
44	Numerical investigation of birefringence and confinement loss formed by rectangular/elliptical/circular air holes photonic crystal fibers. <i>Journal of Modern Optics</i> , 2011 , 58, 1673-1677	1.1	6
43	Long-ranging propagation based on resonant coupling effects using a series connection of ten nanoshells in a plasmon waveguide. <i>Applied Optics</i> , 2012 , 51, 640-3	1.7	6
42	Near-field optics simulation of a solid immersion lens combining with a conical probe and a highly efficient solid immersion lens-probe system. <i>Journal of Applied Physics</i> , 2004 , 95, 3378-3384	2.5	6
41	Efficient mode coupling technique between photonic crystal heterostructure waveguide and silica waveguides. <i>Optics Communications</i> , 2005 , 253, 308-314	2	6
40	Tunable plasmonic effects arising from metal-dielectric nanorods. <i>Applied Optics</i> , 2019 , 58, 2530-2539	1.7	6
39	Improved Refractive Index-Sensing Performance of Multimode Fano-Resonance-Based Metal-Insulator-Metal Nanostructures. <i>Nanomaterials</i> , 2021 , 11,	5.4	6
38	Numerical investigation of surface plasmon resonance effects on photocatalytic activities using silver nanobeads photodeposited onto a titanium dioxide layer. <i>Optics Communications</i> , 2014 , 331, 223-228	2.2	5
37	Highly enhanced surface plasmon resonance in a coupled silver nanodumbbell. <i>Applied Physics A: Materials Science and Processing</i> , 2011 , 104, 801-805	2.6	5
36	Dispersion properties, birefringence and confinement loss of rotational elliptic air-hole photonic crystal fiber. <i>Applied Physics A: Materials Science and Processing</i> , 2011 , 104, 857-861	2.6	5
35	Analysis of High Birefringence of Four Types of Photonic Crystal Fiber by Combining Circular and Elliptical Air Holes in Fiber Cladding 2008 , 2008, 1-6		5
34	THEORETICAL ANALYSIS OF SUB-WAVELENGTH LIGHT PROPAGATION THROUGH THE DOUBLE-CHAIN SILVER NANORINGS. <i>Progress in Electromagnetics Research</i> , 2013 , 133, 331-346	3.8	4
33	Multiple Fano resonance modes in an ultra-compact plasmonic waveguide-cavity system for sensing applications. <i>Results in Physics</i> , 2021 , 27, 104527	3.7	4
32	Biosensing on a Plasmonic Dual-Band Perfect Absorber Using Intersection Nanostructure.. <i>ACS Omega</i> , 2022 , 7, 1139-1149	3.9	4
31	Plasmonic effects in the enclosed and opened metallodielectric bowtie nanostructures. <i>Optics Communications</i> , 2019 , 450, 180-189	2	3
30	The optical properties between an incident wave and the active layer of a bubble-pit AgOx-type super-resolution near-field structure. <i>Applied Physics A: Materials Science and Processing</i> , 2007 , 89, 381-385	2.6	3
29	Significantly Enhanced Coupling Efficiency in 2D Photonic Crystal Waveguides by Using Cabin-Side-Like Tapered Structures at Two Terminals. <i>Japanese Journal of Applied Physics</i> , 2004 , 43, L1064-L1067	1.4	3

28	A Study of Controlling Color Mixing of Red, Green, and Blue LEDs Based on Photometry Theory. <i>Sensor Letters</i> , 2012 , 10, 1056-1062	0.9	3
27	A COMPACT 90° BENT EQUAL OUTPUT PORTS OF PHOTONIC CRYSTAL BEAM SPLITTER WITH COMPLETE BAND GAP BASED ON DEFECT RESONANCE INTERFACE. <i>Progress in Electromagnetics Research M</i> , 2012 , 27, 231-240	0.6	2
26	Manipulation of subwavelength optical fields and resonant field enhancements of a silver-shell nanocylinder pair and chain waveguides with different core-shell patterns. <i>Journal of Nanoparticle Research</i> , 2011 , 13, 3939-3949	2.3	2
25	Two-Dimensional and Three-Dimensional Analysis of Taper Structures for Coupling into and out of Photonic Crystal Slab Waveguides. <i>Japanese Journal of Applied Physics</i> , 2006 , 45, 7746-7752	1.4	2
24	Near-Field Optics Imaging in Silica Waveguide Using Near-Field Scanning Optical Microscope. <i>Japanese Journal of Applied Physics</i> , 2007 , 46, 238-242	1.4	2
23	Numerical Analysis on Birefringence of Photonic Crystal Fiber by Tuning Patterns and Infiltrating Materials of Innermost Air Holes. <i>Japanese Journal of Applied Physics</i> , 2013 , 52, 062502	1.4	2
22	Multiple-Mode Bowtie Cavities for Refractive Index and Glucose Sensors Working in Visible and Near-infrared Wavelength Ranges. <i>Plasmonics</i> , 2021 , 16, 1633-1644	2.4	2
21	Comparative study of low-frequency noise in 0.18 μm and 0.35 μm gate-length nMOSFETs with gate area of 1.1 μm^2 . <i>Microelectronics Reliability</i> , 2016 , 60, 10-15	1.2	2
20	A Theoretical Insight of Cr Dopant in Tungsten Oxide for Gas Sensor Application. <i>Materials Today Communications</i> , 2021 , 28, 102508	2.5	2
19	Investigation of plasmonic effects on the metal nanoparticle arrays for biosensor applications. <i>IOP Conference Series: Materials Science and Engineering</i> , 2017 , 191, 012016	0.4	1
18	Ultrahigh Birefringence with Ultralow Confinement Loss of Photonic Crystal Fibers 2010 ,		1
17	The plasmon and distribution effects between incident light and active layer in PtOx-type super-resolution near-field structure. <i>Optics Communications</i> , 2008 , 281, 1293-1299	2	1
16	Raman Spectrometry of Scattering of Nano-Gold Ceria Films. <i>Advanced Science Letters</i> , 2018 , 24, 8940-8943	4.3	1
15	Crystal Structure, Surface Topography, Surface Morphology and Optical Properties of DC Magnetron Sputtered VO ₂ Thin Films using VO ₂ Target. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018 , 409, 012025	0.4	1
14	Localized surface plasmon resonance enhanced by the light-scattering property of silver nanoparticles for improved luminescence of polymer light-emitting diodes. <i>Journal of Industrial and Engineering Chemistry</i> , 2021 , 103, 283-291	6.3	1
13	Theoretical Study of CO Adsorption Interactions with Cr-Doped Tungsten Oxide/Graphene Composites for Gas Sensor Application.. <i>ACS Omega</i> , 2022 , 7, 528-539	3.9	1
12	Breaking the Symmetry of a Metal-Insulator-Metal-Based Resonator for Sensing Applications.. <i>Nanoscale Research Letters</i> , 2022 , 17, 48	5	1
11	Intriguing Standing Wave Numbers and Plasmonic Effects on the Solid-Metal/Metal-Shell Nanorod Surface. <i>Plasmonics</i> , 2017 , 12, 277-285	2.4	0

10	A multichannel color filter with the functions of optical sensor and switch. <i>Scientific Reports</i> , 2021 , 11, 22910	4.9	0
9	A Comparative Study of Visible Raman Scattering of Ceria Prepared by Sol-gel and Hydrothermal Techniques with Gold Nanoparticles. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018 , 409, 012012	0.4	0
8	The Use of Gigantochloa Bamboo-Derived Biochar for the Removal of Methylene Blue from Aqueous Solution. <i>Adsorption Science and Technology</i> , 2022 , 2022, 1-12	3.6	0
7	Mid infrared sensing structure based on a metal-insulator-metal waveguides with a triangular-shaped resonator. <i>Optics Communications</i> , 2022 , 128282	2	0
6	Enhanced photoluminescence and shortened lifetime of DCJTB by photoinduced metal deposition on a ferroelectric lithography substrate.. <i>Scientific Reports</i> , 2022 , 12, 6173	4.9	0
5	Photonic Crystals with Large Complete Bandgap Composed of an Approximately Ordered Array of Laurel-Crown-Like Structures Fabricated by Employing Anodic Aluminum Oxide Template. <i>Japanese Journal of Applied Physics</i> , 2013 , 52, 010206	1.4	
4	Z-Axis Displacement Sensor Based on Total-Internal Reflection and Surface Plasmon Resonance in Heterodyne Interferometry. <i>Advanced Materials Research</i> , 2013 , 746, 564-569	0.5	
3	Numerical Investigations on Birefringent Holey Fibers by Modified Elliptical Air Holes in Fiber Cladding. <i>Japanese Journal of Applied Physics</i> , 2011 , 50, 112502	1.4	
2	Numerical Investigations on Birefringent Holey Fibers by Modified Elliptical Air Holes in Fiber Cladding. <i>Japanese Journal of Applied Physics</i> , 2011 , 50, 112502	1.4	
1	Resonant optical transmission through the sub-wavelength air-hole arrays in a gold thin film for sensing applications. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018 , 409, 012011	0.4	