Xiangxian Wang

List of Publications by Year
in descending order

77 papers	2,765 citations	182225 30 h-index	214428 50 g-index
78 all docs	78 docs citations	78 times ranked	1693 citing authors

#	Article	IF	Citations
1	Plasmonic sensor with self-reference capability based on functional layer film composed of Au/Si gratings. Chinese Physics B, 2022, 31, 014206.	0.7	11
2	Research on beam manipulate and RCS reduction based on terahertz ultra-wideband polarization conversion metasurface. Optics Communications, 2022, 502, 127425.	1.0	16
3	Surface doping of Bi4Ti3O12 with S: Enhanced photocatalytic activity, mechanism and potential photodegradation application. Materials Research Bulletin, 2022, 149, 111711.	2.7	53
4	A polarization-insensitive, wide-angle dual-band tunable graphene metamaterial perfect absorber with T-shaped strips and square ring. Physica Scripta, 2022, 97, 025507.	1.2	11
5	Theoretical fabrication of subwavelength structures by surface plasmon interference based on complementary grating. Modern Physics Letters B, 2022, 36, .	1.0	4
6	Theoretical study of 2D sub-wavelength structure fabrication via surface plasmon excitation utilizing the enhanced Kretschmann structure combined with sample rotation. Optical and Quantum Electronics, 2022, 54, 1.	1.5	4
7	Theoretical study of sub-wavelength gratings fabrication by TM0 mode interference in symmetric metal-cladding dielectric waveguide. Applied Physics B: Lasers and Optics, 2022, 128, .	1.1	2
8	Incidence Angle Effects on the Fabrication of Microstructures Using Six-Beam Laser Interference Lithography. Coatings, 2021, 11, 62.	1.2	8
9	A novel plasmonic refractive index sensor based on gold/silicon complementary grating structure*. Chinese Physics B, 2021, 30, 024207.	0.7	51
10	Tert-butylamine/oleic acid-assisted morphology tailoring of hierarchical Bi4Ti3O12 architectures and their application for photodegradation of simulated dye wastewater. Optical Materials, 2021, 112, 110781.	1.7	47
11	An excellent Z-scheme Ag2MoO4/Bi4Ti3O12 heterojunction photocatalyst: Construction strategy and application in environmental purification. Advanced Powder Technology, 2021, 32, 951-962.	2.0	96
12	Tunable plasmonic absorber in THz-band range based on graphene arrow-shaped metamaterial. Results in Physics, 2021, 23, 104044.	2.0	3
13	Tunable Fano resonance in plasmonic MIM waveguide with P-shaped resonator for refractive index sensing. Europhysics Letters, 2021, 134, 67001.	0.7	8
14	Tunable multi-band terahertz absorber based on composite graphene structures with square ring and Jerusalem cross. Results in Physics, 2021, 25, 104233.	2.0	30
15	Ultra-wide sensing range plasmonic refractive index sensor based on a two-dimensional circular-hole grating engraved on a gold film. Results in Physics, 2021, 26, 104396.	2.0	26
16	A plasmonic refractive index sensor with double self-reference characteristic. Europhysics Letters, 2021, 135, 27001.	0.7	4
17	High efficiency broadband near-infrared absorbers based on tunable SiO2-VO2-MoS2 multilayer metamaterials. Results in Physics, 2021, 26, 104404.	2.0	18
18	Piezocatalytic degradation of methylene blue, tetrabromobisphenol A and tetracycline hydrochloride using Bi4Ti3O12 with different morphologies. Materials Research Bulletin, 2021, 141, 111350.	2.7	112

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19	Composite structure of Au film/PMMA grating coated with Au nanocubes for SERS substrate. Optical Materials, 2021, 121, 111536.	1.7	20
20	Multiple Fano resonances based on clockwork spring-shaped resonator for refractive index sensing. Physica Scripta, 2021, 96, 125538.	1.2	12
21	Evolution of Bi Nanowires from BiOBr Nanoplates Through a NaBH₄ Reduction Method with Enhanced Photodegradation Performance. Environmental Engineering Science, 2020, 37, 64-77.	0.8	71
22	Substrates for surface-enhanced Raman spectroscopy based on TiN plasmonic antennas and waveguide platforms. Results in Physics, 2020, 16, 102867.	2.0	30
23	Plasmonic Refractive Index Sensors Based on One- and Two-Dimensional Gold Grating on a Gold Film. Photonic Sensors, 2020, 10, 375-386.	2.5	18
24	Hybrid surface plasmon effect and SERS characterization in a heterogeneous composite structure of Au nano-array and Ag film. Results in Physics, 2020, 17, 103175.	2.0	29
25	Surface-enhanced Raman scattering based on hybrid surface plasmon excited by Au nanodisk and Au film coupling structure. Physics Letters, Section A: General, Atomic and Solid State Physics, 2020, 384, 126544.	0.9	40
26	A Tunable Terahertz Metamaterial Absorber Composed of Hourglass-Shaped Graphene Arrays. Nanomaterials, 2020, 10, 533.	1.9	36
27	A tunable terahertz metamaterial absorber composed of elliptical ring graphene arrays with refractive index sensing application. Results in Physics, 2020, 16, 103012.	2.0	76
28	Surface plasmons and SERS application of Au nanodisk array and Au thin film composite structure. Optical and Quantum Electronics, 2020, 52, 1.	1.5	36
29	Ultra wide sensing range plasmonic refractive index sensor based on nano-array with rhombus particles*. Chinese Physics B, 2020, 29, 114204.	0.7	5
30	Tunable sharp resonances based on multimode interference in a MIM-ring coupling plasmonic resonator system. Europhysics Letters, 2020, 132, 27001.	0.7	6
31	Direct Z-scheme CaTiO3@BiOBr composite photocatalysts with enhanced photodegradation of dyes. Environmental Science and Pollution Research, 2019, 26, 29020-29031.	2.7	81
32	Enhanced photocatalytic performance by hybridization of Bi2WO6 nanoparticles with honeycomb-like porous carbon skeleton. Journal of Environmental Management, 2019, 248, 109341.	3.8	93
33	Theoretical study for fabricating elliptical subwavelength nanohole arrays by higher-order waveguide-mode interference. Results in Physics, 2019, 14, 102460.	2.0	43
34	Theoretical study of a multichannel plasmonic waveguide notch filter with double-sided nanodisk and two slot cavities. Results in Physics, 2019, 14, 102506.	2.0	63
35	A theoretical study of optically enhanced transmission characteristics of subwavelength metal Y-shaped arrays and its application on refractive index sensor. Results in Physics, 2019, 15, 102495.	2.0	13
36	Theoretical realization of three-dimensional nanolattice structure fabrication based on high-order waveguide-mode interference and sample rotation. Optical and Quantum Electronics, 2019, 51, 1.	1.5	29

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37	Theoretical study of subwavelength circular grating fabrication based on continuously exposed surface plasmon interference lithography. Results in Physics, 2019, 14, 102446.	2.0	34
38	Enhanced Photocatalytic Performance and Mechanism of Au@CaTiO3 Composites with Au Nanoparticles Assembled on CaTiO3 Nanocuboids. Micromachines, 2019, 10, 254.	1.4	66
39	Photocatalytic activity tuning in a novel Ag2S/CQDs/CuBi2O4 composite: Synthesis and photocatalytic mechanism. Materials Research Bulletin, 2019, 115, 140-149.	2.7	128
40	Growth Process and CQDs-modified Bi4Ti3O12 Square Plates with Enhanced Photocatalytic Performance. Micromachines, 2019, 10, 66.	1.4	41
41	Surface Disorder Engineering of Flake-Like Bi2WO6 Crystals for Enhanced Photocatalytic Activity. Journal of Electronic Materials, 2019, 48, 2067-2076.	1.0	66
42	Theoretical Investigation of a Highly Sensitive Refractive-Index Sensor Based on TM0 Waveguide Mode Resonance Excited in an Asymmetric Metal-Cladding Dielectric Waveguide Structure. Sensors, 2019, 19, 1187.	2.1	46
43	A theoretical study of a plasmonic sensor comprising a gold nano-disk array on gold film with a SiO ₂ spacer. Chinese Physics B, 2019, 28, 044201.	0.7	95
44	Investigation of surface plasmons in Kretschmann structure loaded with a silver nano-cube. Results in Physics, 2019, 12, 1866-1870.	2.0	37
45	Theoretical investigation of subwavelength structure fabrication based on multi-exposure surface plasmon interference lithography. Results in Physics, 2019, 12, 732-737.	2.0	40
46	Surface-enhanced Raman scattering by composite structure of gold nanocube-PMMA-gold film. Optical Materials Express, 2019, 9, 1872.	1.6	76
47	Wide range refractive index sensor based on a coupled structure of Au nanocubes and Au film. Optical Materials Express, 2019, 9, 3079.	1.6	88
48	Enhanced optical transmission of composite subwavelength rectangular-hole array based on metal silver thin-film. Scientia Sinica: Physica, Mechanica Et Astronomica, 2019, 49, 014201.	0.2	0
49	Photocatalytic, Fenton and photo-Fenton degradation of RhB over Z-scheme g-C3N4/LaFeO3 heterojunction photocatalysts. Materials Science in Semiconductor Processing, 2018, 82, 14-24.	1.9	160
50	Investigation of wide-range refractive index sensor based on asymmetric metal-cladding dielectric waveguide structure. AIP Advances, 2018, 8, 105029.	0.6	25
51	Enhanced photocatalytic activity of surface disorder-engineered CaTiO 3. Materials Research Bulletin, 2018, 105, 286-290.	2.7	128
52	Theoretical study of multiexposure zeroth-order waveguide mode interference lithography. Optical and Quantum Electronics, 2018, 50, 1.	1.5	48
53	Broadband optical transmission through sandwich-shaped multilayer tapered metallic slit arrays. Scientia Sinica: Physica, Mechanica Et Astronomica, 2018, 48, 074201.	0.2	0
54	Theoretical investigation of hierarchical sub-wavelength photonic structures fabricated using high-order waveguide-mode interference lithograph. Chinese Physics B, 2017, 26, 024202.	0.7	8

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55	Enhanced photocatalytic performance and mechanism of Ag-decorated LaFeO3 nanoparticles. Journal of Sol-Gel Science and Technology, 2017, 82, 509-518.	1.1	51
56	Inscription of sub-wavelength gratings with different periods based on asymmetric metal-cladding dielectric waveguide structure. Optik, 2017, 140, 261-267.	1.4	9
57	Theoretical study of micro-optical structure fabrication based on sample rotation and two-laser-beam interference. Chinese Physics B, 2017, 26, 054203.	0.7	8
58	Electrochemical Performance of Morphologically Different Bi2WO6 Nanostructures Synthesized via a Hydrothermal Route. Journal of Electronic Materials, 2017, 46, 182-187.	1.0	19
59	A novel Bi4Ti3O12/Ag3PO4 heterojunction photocatalyst with enhanced photocatalytic performance. Nanoscale Research Letters, 2017, 12, 608.	3.1	130
60	Extraordinary optical transmission through wedge-shape metallic slits array embedded with rectangular cavities. , 2017, , .		0
61	Effect of Experimental Parameters on the Hydrothermal Synthesis of Bi2WO6 Nanostructures. Nanoscale Research Letters, 2016, 11, 190.	3.1	27
62	Effect of ultrasonic irradiation on the preparation of Ag 3 PO 4 particles. Micro and Nano Letters, 2016, 11, 179-182.	0.6	5
63	Dynamically generating a large-area confined optical field with subwavelength feature size. Applied Optics, 2014, 53, 6091.	0.9	1
64	Surface enhanced Raman scattering arising from plasmonic interaction between silver nano-cubes and a silver grating. Applied Physics Letters, 2013, 103, .	1.5	18
65	Large area sub-wavelength azo-polymer gratings by waveguide modes interference lithography. Applied Physics Letters, 2013, 102, 031103.	1.5	18
66	Surface-plasmon-coupled emission microscopy with a polarization converter. Optics Letters, 2013, 38, 736.	1.7	24
67	Dark-field imaging by active polymer slab waveguide. Applied Optics, 2013, 52, 8117.	0.9	4
68	Improving deep subwavelength imaging through terminal interface design of metallo-dielectric multilayered stacks. Journal of Nanophotonics, 2013, 7, 073091.	0.4	3
69	Ultra-deep subwavelength periodic patterning through multilayered metamaterial microcavity. Proceedings of SPIE, 2012, , .	0.8	3
70	Polymer based plasmonic elements with dye molecules. , 2012, , .		0
71	Absorption modulation enhancement of Azo-polymer film induced by plasmonic field. Proceedings of SPIE, 2012, , .	0.8	0
72	Contrast Enhancement in Fluorescence Microscope by Plasmonic Coupling. Plasmonics, 2012, 7, 209-214.	1.8	5

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73	Excitation of Broadband Surface Plasmons with Dye Molecules. Plasmonics, 2012, 7, 309-312.	1.8	12
74	Theoretical study of micro-structure fabrication by multi-beam laser interference lithography with different polarization combinations. Modern Physics Letters B, 0, , 2150459.	1.0	2
75	Efficient Manipulation of Terahertz waves by multi-bit Coding Metasurfaces and its further application. Chinese Physics B, 0, , .	0.7	17
76	Construction of Ag2S@CaTiO3 heterostructure photocatalysts for enhanced photocatalytic degradation of dyes. , 0, 170, 349-360.		71
77	Refractive index sensing of double Fano resonance excited by nano-cube array coupled with multilayer all-dielectric film. Chinese Physics B, 0, , .	0.7	19