

Weixing Yu

List of Publications by Year in descending order

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90
papers

2,316
citations

331670

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h-index

214800

47
g-index

90
all docs

90
docs citations

90
times ranked

3545
citing authors

#	ARTICLE	IF	CITATIONS
1	A Polygon-Like Light-Arm Zone Plate. IEEE Photonics Technology Letters, 2022, 34, 355-358.	2.5	0
2	Enhanced Photoluminescence of Monolayer MoSe ₂ in a Double Resonant Plasmonic Nanocavity with Fano Resonance and Mode Matching. Laser and Photonics Reviews, 2022, 16, .	8.7	11
3	Extended bifocal depth imaging with modified generalized composite kinoform Fibonacci lenses. Optics and Laser Technology, 2022, 152, 108162.	4.6	0
4	A compact bionic compound eye camera for imaging in a large field of view. Optics and Laser Technology, 2021, 135, 106705.	4.6	9
5	Tailorable polygon-like beams generated by modified spiral petal-like zone plates. Results in Physics, 2021, 21, 103823.	4.1	4
6	Three tailorable optical vortices generated by a modified fractal spiral forked plate. Journal of Optics (United Kingdom), 2021, 23, 045603.	2.2	2
7	Fabrication and experimental characterization of precise high-efficiency 2D multi-mode fiber array coupler. Optical Fiber Technology, 2021, 63, 102488.	2.7	1
8	Biomimetic multispectral curved compound eye camera for real-time multispectral imaging in an ultra-large field of view. Optics Express, 2021, 29, 33346.	3.4	8
9	Fabrication of refractive silicon microlens array with a large focal number and accurate lens profile. Microsystem Technologies, 2020, 26, 1159-1166.	2.0	4
10	Fabrication of hollow polymer microstructures using dielectric and capillary forces. Microsystem Technologies, 2020, 26, 301-308.	2.0	0
11	Photocatalytic ozonation for sea water decontamination. Journal of Water Process Engineering, 2020, 37, 101501.	5.6	5
12	Reversible optical binding force in a plasmonic heterodimer under radially polarized beam illumination. Optics Express, 2020, 28, 3000.	3.4	6
13	Multispectral curved compound eye camera. Optics Express, 2020, 28, 9216.	3.4	19
14	Imaging properties of generalized composite aperiodic zone plates. Optics Express, 2020, 28, 27181.	3.4	11
15	Binary amplitude-only image reconstruction through a MMF based on an AE-SNN combined deep learning model. Optics Express, 2020, 28, 30048.	3.4	13
16	Colourful imaging and self-reconstruction properties of modified single-focus fractal zone plates. Optics Express, 2020, 28, 37827.	3.4	3
17	Continuous artificial synthesis of glucose precursor using enzyme-immobilized microfluidic reactors. Nature Communications, 2019, 10, 4049.	12.8	60
18	Fabrication and characterization of a polymeric curved compound eye. Journal of Micromechanics and Microengineering, 2019, 29, 055008.	2.6	16

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19	Graphene-Silver Hybrid Metamaterial for Tunable and High Absorption at Mid-Infrared Waveband. IEEE Photonics Technology Letters, 2018, 30, 475-478.	2.5	17
20	Review on optofluidic microreactors for artificial photosynthesis. Beilstein Journal of Nanotechnology, 2018, 9, 30-41.	2.8	28
21	Planar polarization-routing optical cross-connects using nematic liquid crystal waveguides. Optics Express, 2018, 26, 402.	3.4	3
22	Dielectrophoresis-actuated in-plane optofluidic lens with tunability of focal length from negative to positive. Optics Express, 2018, 26, 6532.	3.4	22
23	Photocatalysis: Plasmonic Black Absorbers for Enhanced Photocurrent of Visible-Light Photocatalysis (Advanced Optical Materials 2/2017). Advanced Optical Materials, 2017, 5, .	7.3	0
24	Numerical analysis of wide-field optical imaging with a sub-20-nm resolution based on a meta-sandwich structure. Scientific Reports, 2017, 7, 1328.	3.3	7
25	Numerical study of the faithful replication of micro/nanostructures on curved surfaces by the electrohydrodynamic instability process. Electrophoresis, 2017, 38, 525-532.	2.4	1
26	Plasmonic Black Absorbers for Enhanced Photocurrent of Visible-Light Photocatalysis. Advanced Optical Materials, 2017, 5, 1600399.	7.3	26
27	Meta-nanocavity model for dynamic super-resolution fluorescent imaging based on the plasmonic structure illumination microscopy method. Optics Express, 2017, 25, 3863.	3.4	8
28	Graphene on meta-surface for super-resolution optical imaging with a sub-10 nm resolution. Optics Express, 2017, 25, 14494.	3.4	17
29	SCECam: a spherical compound eye camera for fast location and recognition of objects at a large field of view. Optics Express, 2017, 25, 32333.	3.4	46
30	Super-Resolution Imaging at Mid-Infrared Waveband in Graphene-nanocavity formed on meta-surface. Scientific Reports, 2016, 6, 37898.	3.3	7
31	Influence of electrode types on the electrohydrodynamic instability patterning process: a comparative study. RSC Advances, 2016, 6, 112300-112306.	3.6	1
32	Biomimetic microchannels of planar reactors for optimized photocatalytic efficiency of water purification. Biomicrofluidics, 2016, 10, 014123.	2.4	18
33	Gradient Permittivity Meta-Structure model for Wide-field Super-resolution imaging with a sub-45-nm resolution. Scientific Reports, 2016, 6, 23460.	3.3	9
34	Optofluidic UV-Vis spectrophotometer for online monitoring of photocatalytic reactions. Scientific Reports, 2016, 6, 28928.	3.3	20
35	Rough gold films as broadband absorbers for plasmonic enhancement of TiO ₂ photocurrent over 400-800-nm. Scientific Reports, 2016, 6, 33049.	3.3	42
36	Polarization and sizes variation immune optical absorbers. Modern Physics Letters B, 2016, 30, 1650010.	1.9	1

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37	Clam-inspired nanoparticle immobilization method using adhesive tape as microchip substrate. <i>Sensors and Actuators B: Chemical</i> , 2016, 222, 106-111.	7.8	20
38	Subtle control on hierarchic reflow for the simple and massive fabrication of biomimetic compound eye arrays in polymers for imaging at a large field of view. <i>Journal of Materials Chemistry C</i> , 2016, 4, 108-112.	5.5	17
39	Investigation of enhancement of near-field probing for sensing at terahertz waveband. <i>Optik</i> , 2015, 126, 4823-4826.	2.9	0
40	Hierarchic random nanosphere model for broadband solar energy absorbers. <i>Optical Materials Express</i> , 2015, 5, 2777.	3.0	5
41	TiO ₂ nanosheet array thin film for self-cleaning coating. <i>RSC Advances</i> , 2015, 5, 9861-9864.	3.6	20
42	Hierarchical TiO ₂ spheres decorated with Au nanoparticles for visible light hydrogen production. <i>RSC Advances</i> , 2015, 5, 21237-21241.	3.6	11
43	Germanium nanopyramid arrays showing near-100% absorption in the visible regime. <i>Nano Research</i> , 2015, 8, 2216-2222.	10.4	24
44	Beam shaping of complex amplitude with separate constraints on the output beam. <i>Optics Express</i> , 2015, 23, 1052.	3.4	78
45	Investigating hybridization schemes of coupled split-ring resonators by electron impacts. <i>Optics Express</i> , 2015, 23, 20721.	3.4	7
46	Noise analysis of the Vernier anode. <i>Applied Optics</i> , 2015, 54, 6904.	2.1	0
47	Meta-microwindmill structure with multiple absorption peaks for the detection of ketamine and amphetamine type stimulants in terahertz domain. <i>Optical Materials Express</i> , 2014, 4, 1876.	3.0	22
48	Nano-multiwall cylinders array for ultra-broadband perfect absorption in visible regime: novel properties revealing. <i>Modern Physics Letters B</i> , 2014, 28, 1450086.	1.9	0
49	Electron impact investigation of hybridization scheme in coupled split-ring resonators. , 2014, , .		0
50	Si Substrate-Based Metamaterials for Ultrabroadband Perfect Absorption in Visible Regime. <i>Journal of Nanomaterials</i> , 2014, 2014, 1-5.	2.7	1
51	Broadband efficient light absorbing in the visible regime by a metanoring array. <i>Annalen Der Physik</i> , 2014, 526, 112-117.	2.4	13
52	A review of available methods for the alignment of mirror facets of solar concentrator in solar thermal power system. <i>Renewable and Sustainable Energy Reviews</i> , 2014, 32, 76-83.	16.4	31
53	Replication and characterization of the compound eye of a fruit fly for imaging purpose. <i>Applied Physics Letters</i> , 2014, 105, 143705.	3.3	10
54	Photocatalytic reduction of Cr(VI) by polyoxometalates/TiO ₂ electrospun nanofiber composites. <i>RSC Advances</i> , 2014, 4, 44322-44326.	3.6	27

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55	Microfluidic reactors for photocatalytic water purification. Lab on A Chip, 2014, 14, 1074-1082.	6.0	151
56	Oxygen Vacancy Enhanced Photocatalytic Activity of Perovskite SrTiO ₃ . ACS Applied Materials & Interfaces, 2014, 6, 19184-19190.	8.0	608
57	Negative Refraction and Focusing of Photonic Crystals with Graded Negative Index in Visible Regime. Plasmonics, 2013, 8, 335-340.	3.4	4
58	Ray tracing and simulation for the beam-down solar concentrator. Renewable Energy, 2013, 50, 161-167.	8.9	25
59	Numerical study of the meta-nanopyramid array as efficient solar energy absorber. Optical Materials Express, 2013, 3, 1187.	3.0	51
60	Multiple-Beam Surface Plasmon Holographic Nanolithography. Plasmonics, 2013, 8, 561-569.	3.4	1
61	Metamaterial-Based Two Dimensional Plasmonic Subwavelength Structures Offer the Broadest Waveband Light Harvesting. Advanced Optical Materials, 2013, 1, 43-49.	7.3	150
62	Investigation of Focusing Characteristics of Plasmonic Lenses with Concentric Elliptical Slits. Journal of Computational and Theoretical Nanoscience, 2013, 10, 2609-2617.	0.4	1
63	A Method for the Micro-encapsulation of Dielectric Fluids in Joined Polymer Shells. Current Organic Chemistry, 2013, 17, 65-71.	1.6	1
64	Immersed nanospheres super-lithography for the fabrication of sub-70nm nanoholes with period below 700nm. , 2012, , .		0
65	A composite hardness stamp in 184 PDMS for nanostructures transfer in high fidelity. , 2012, , .		0
66	Formulation of the finite-difference time-domain method for the analysis of axially symmetric metal nanodevices. Journal of Modern Optics, 2012, 59, 1439-1447.	1.3	0
67	Strong Intensity Modulation of Surface Plasmon Polaritons by a Dielectric Layer. IEEE Photonics Technology Letters, 2012, 24, 2214-2217.	2.5	6
68	Functional nanostructured surfaces in hybrid sol-gel glass in large area for antireflective and super-hydrophobic purposes. Journal of Materials Chemistry, 2012, 22, 17328.	6.7	21
69	Study of Metallic Nanowires with Arbitrary Cross-Sectional Shapes for Negative Refraction in Visible Regime. Plasmonics, 2012, 7, 619-626.	3.4	0
70	On the Use of Silver Nanoparticles for Direct Micropatterning on Polyimide Substrates. IEEE Nanotechnology Magazine, 2012, 11, 139-147.	2.0	6
71	Study of the Plasmon Talbot Effect of Metallic Nanolenses Induced by Linearly Polarized Illumination. Plasmonics, 2012, 7, 641-645.	3.4	3
72	A review of available methods for surface shape measurement of solar concentrator in solar thermal power applications. Renewable and Sustainable Energy Reviews, 2012, 16, 2539-2544.	16.4	45

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73	The Talbot effect of plasmonic nanolenses. Optics Express, 2011, 19, 19365.	3.4	20
74	Computational Study of Influence of Structuring of Plasmonic Nanolens on Superfocusing. Plasmonics, 2011, 6, 35-42.	3.4	3
75	Plasmonic Nanolithography: A Review. Plasmonics, 2011, 6, 565-580.	3.4	90
76	Tracking and ray tracing equations for the target-aligned heliostat for solar tower power plants. Renewable Energy, 2011, 36, 2687-2693.	8.9	39
77	A new method for the design of the heliostat field layout for solar tower power plant. Renewable Energy, 2010, 35, 1970-1975.	8.9	126
78	A new code for the design and analysis of the heliostat field layout for power tower system. Solar Energy, 2010, 84, 685-690.	6.1	66
79	Fabrication of a Polymeric Optical Waveguide-On-Flex Using Electrostatic-Induced Lithography. IEEE Photonics Technology Letters, 2010, 22, 957-959.	2.5	8
80	Fabrication of diffractive optical elements on 3-D curved surfaces by capillary force lithography. Optics Express, 2010, 18, 15009.	3.4	16
81	Lithographic fabrication of diffractive optical elements in hybrid sol-gel glass on 3-D curved surfaces. Optics Express, 2010, 18, 25102.	3.4	14
82	Patternable hybrid sol-gel material cuts the cost of fabrication of microoptical elements for photonics applications. Journal of Materials Chemistry, 2004, 14, 821-823.	6.7	10
83	Localized self-volume growth in hybrid sol-gel glass induced by ultraviolet radiation with a gray-scale mask. Applied Optics, 2004, 43, 575.	2.1	6
84	A simple method for fabrication of thick sol-gel microlens as a single-mode fiber coupler. IEEE Photonics Technology Letters, 2003, 15, 1410-1412.	2.5	16
85	Volume growth initiated by point-to-point ultraviolet-laser direct writing in hybrid sol-gel glass for three-dimensional microfabrication. Optics Letters, 2003, 28, 1573.	3.3	4
86	Variable surface profile gratings in sol-gel glass fabricated by holographic interference. Optics Express, 2003, 11, 1925.	3.4	13
87	UV induced controllable volume growth in hybrid sol-gel glass for fabrication of a refractive microlens by use of a grayscale mask. Optics Express, 2003, 11, 2253.	3.4	19
88	Fabrication of multilevel structures in self-development photosensitive hybrid sol-gel glass by a gray scale mask. Optical Engineering, 2003, 42, 3411.	1.0	5
89	Single-step fabrication of continuous surface relief micro-optical elements in hybrid sol-gel glass by laser direct writing. Optics Express, 2002, 10, 443.	3.4	57
90	Characterization of TiO ₂ /SiO ₂ hybrid sol-gel glass and its use for fabrication of micro-optical elements. , 0, , .		0