

# Weixing Yu

## List of Publications by Year in descending order

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Version: 2024-02-01

90  
papers

2,316  
citations

331670

21  
h-index

214800

47  
g-index

90  
all docs

90  
docs citations

90  
times ranked

3545  
citing authors

| #  | ARTICLE   | IF   | CITATIONS |
|----|---|------|-----------|
| 1  | Oxygen Vacancy Enhanced Photocatalytic Activity of Pervoskite SrTiO <sub>3</sub> . ACS Applied Materials & Interfaces, 2014, 6, 19184-19190.  | 8.0  | 608       |
| 2  | Microfluidic reactors for photocatalytic water purification. Lab on A Chip, 2014, 14, 1074-1082.  | 6.0  | 151       |
| 3  | Metamaterial-Based Two Dimensional Plasmonic Subwavelength Structures Offer the Broadest Waveband Light Harvesting. Advanced Optical Materials, 2013, 1, 43-49.                       | 7.3  | 150       |
| 4  | 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       |
| 5  | Plasmonic Nanolithography: A Review. Plasmonics, 2011, 6, 565-580.  | 3.4  | 90        |
| 6  | Beam shaping of complex amplitude with separate constraints on the output beam. Optics Express, 2015, 23, 1052.   | 3.4  | 78        |
| 7  | 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        |
| 8  | Continuous artificial synthesis of glucose precursor using enzyme-immobilized microfluidic reactors. Nature Communications, 2019, 10, 4049.   | 12.8 | 60        |
| 9  | 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        |
| 10 | Numerical study of the meta-nanopyramid array as efficient solar energy absorber. Optical Materials Express, 2013, 3, 1187.   | 3.0  | 51        |
| 11 | 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        |
| 12 | 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        |
| 13 | Rough gold films as broadband absorbers for plasmonic enhancement of TiO <sub>2</sub> photocurrent over 400-800nm. Scientific Reports, 2016, 6, 33049.                                | 3.3  | 42        |
| 14 | Tracking and ray tracing equations for the target-aligned heliostat for solar tower power plants. Renewable Energy, 2011, 36, 2687-2693.  | 8.9  | 39        |
| 15 | A review of available methods for the alignment of mirror facets of solar concentrator in solar thermal power system. Renewable and Sustainable Energy Reviews, 2014, 32, 76-83.      | 16.4 | 31        |
| 16 | Review on optofluidic microreactors for artificial photosynthesis. Beilstein Journal of Nanotechnology, 2018, 9, 30-41.   | 2.8  | 28        |
| 17 | Photocatalytic reduction of Cr(VI) by polyoxometalates/TiO <sub>2</sub> electrospun nanofiber composites. RSC Advances, 2014, 4, 44322-44326.   | 3.6  | 27        |
| 18 | Plasmonic Black Absorbers for Enhanced Photocurrent of Visible-Light Photocatalysis. Advanced Optical Materials, 2017, 5, 1600399.  | 7.3  | 26        |

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|----|--|------|-----------|
| 19 | Ray tracing and simulation for the beam-down solar concentrator. <i>Renewable Energy</i> , 2013, 50, 161-167.  | 8.9  | 25        |
| 20 | Germanium nanopyramid arrays showing near-100% absorption in the visible regime. <i>Nano Research</i> , 2015, 8, 2216-2222.  | 10.4 | 24        |
| 21 | 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        |
| 22 | Dielectrophoresis-actuated in-plane optofluidic lens with tunability of focal length from negative to positive. <i>Optics Express</i> , 2018, 26, 6532.  | 3.4  | 22        |
| 23 | Functional nanostructured surfaces in hybrid sol-gel glass in large area for antireflective and super-hydrophobic purposes. <i>Journal of Materials Chemistry</i> , 2012, 22, 17328.                                       | 6.7  | 21        |
| 24 | The Talbot effect of plasmonic nanolenses. <i>Optics Express</i> , 2011, 19, 19365.  | 3.4  | 20        |
| 25 | TiO <sub>2</sub> nanosheet array thin film for self-cleaning coating. <i>RSC Advances</i> , 2015, 5, 9861-9864.  | 3.6  | 20        |
| 26 | Optofluidic UV-Vis spectrophotometer for online monitoring of photocatalytic reactions. <i>Scientific Reports</i> , 2016, 6, 28928.  | 3.3  | 20        |
| 27 | 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        |
| 28 | UV induced controllable volume growth in hybrid sol-gel glass for fabrication of a refractive microlens by use of a grayscale mask. <i>Optics Express</i> , 2003, 11, 2253.  | 3.4  | 19        |
| 29 | Multispectral curved compound eye camera. <i>Optics Express</i> , 2020, 28, 9216.  | 3.4  | 19        |
| 30 | Biomimetic microchannels of planar reactors for optimized photocatalytic efficiency of water purification. <i>Biomicrofluidics</i> , 2016, 10, 014123.   | 2.4  | 18        |
| 31 | 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        |
| 32 | Graphene on meta-surface for super-resolution optical imaging with a sub-10 nm resolution. <i>Optics Express</i> , 2017, 25, 14494.  | 3.4  | 17        |
| 33 | Graphene-Silver Hybrid Metamaterial for Tunable and High Absorption at Mid-Infrared Waveband. <i>IEEE Photonics Technology Letters</i> , 2018, 30, 475-478.  | 2.5  | 17        |
| 34 | A simple method for fabrication of thick sol-gel microlens as a single-mode fiber coupler. <i>IEEE Photonics Technology Letters</i> , 2003, 15, 1410-1412.   | 2.5  | 16        |
| 35 | Fabrication of diffractive optical elements on 3-D curved surfaces by capillary force lithography. <i>Optics Express</i> , 2010, 18, 15009.  | 3.4  | 16        |
| 36 | Fabrication and characterization of a polymeric curved compound eye. <i>Journal of Micromechanics and Microengineering</i> , 2019, 29, 055008.   | 2.6  | 16        |

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|----|---|-----|-----------|
| 37 | Lithographic fabrication of diffractive optical elements in hybrid sol-gel glass on 3-D curved surfaces. Optics Express, 2010, 18, 25102.   | 3.4 | 14        |
| 38 | Variable surface profile gratings in sol-gel glass fabricated by holographic interference. Optics Express, 2003, 11, 1925.  | 3.4 | 13        |
| 39 | Broadband efficient light absorbing in the visible regime by a metananostructure array. Annalen Der Physik, 2014, 526, 112-117.   | 2.4 | 13        |
| 40 | 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        |
| 41 | Hierarchical TiO <sub>2</sub> spheres decorated with Au nanoparticles for visible light hydrogen production. RSC Advances, 2015, 5, 21237-21241.                                    | 3.6 | 11        |
| 42 | Imaging properties of generalized composite aperiodic zone plates. Optics Express, 2020, 28, 27181.   | 3.4 | 11        |
| 43 | Enhanced Photoluminescence of Monolayer MoSe <sub>2</sub> in a Double Resonant Plasmonic Nanocavity with Fano Resonance and Mode Matching. Laser and Photonics Reviews, 2022, 16, . | 8.7 | 11        |
| 44 | 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        |
| 45 | Replication and characterization of the compound eye of a fruit fly for imaging purpose. Applied Physics Letters, 2014, 105, 143705.  | 3.3 | 10        |
| 46 | 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         |
| 47 | A compact bionic compound eye camera for imaging in a large field of view. Optics and Laser Technology, 2021, 135, 106705.  | 4.6 | 9         |
| 48 | Fabrication of a Polymeric Optical Waveguide-On-Flex Using Electrostatic-Induced Lithography. IEEE Photonics Technology Letters, 2010, 22, 957-959.                                 | 2.5 | 8         |
| 49 | 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         |
| 50 | 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         |
| 51 | Investigating hybridization schemes of coupled split-ring resonators by electron impacts. Optics Express, 2015, 23, 20721.  | 3.4 | 7         |
| 52 | Super-Resolution Imaging at Mid-Infrared Waveband in Graphene-nanocavity formed on meta-surface. Scientific Reports, 2016, 6, 37898.  | 3.3 | 7         |
| 53 | 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         |
| 54 | 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         |

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|----|--|-----|-----------|
| 55 | Strong Intensity Modulation of Surface Plasmon Polaritons by a Dielectric Layer. IEEE Photonics Technology Letters, 2012, 24, 2214-2217.                                   | 2.5 | 6         |
| 56 | On the Use of Silver Nanoparticles for Direct Micropatterning on Polyimide Substrates. IEEE Nanotechnology Magazine, 2012, 11, 139-147.                                    | 2.0 | 6         |
| 57 | Reversible optical binding force in a plasmonic heterodimer under radially polarized beam illumination. Optics Express, 2020, 28, 3000.                                    | 3.4 | 6         |
| 58 | 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         |
| 59 | Hierarchic random nanosphere model for broadband solar energy absorbers. Optical Materials Express, 2015, 5, 2777.   | 3.0 | 5         |
| 60 | Photocatalytic ozonation for sea water decontamination. Journal of Water Process Engineering, 2020, 37, 101501.  | 5.6 | 5         |
| 61 | Volume growth initiated by point-to-point ultraviolet-laser direct writing in hybrid solgel glass for three-dimensional microfabrication. Optics Letters, 2003, 28, 1573.  | 3.3 | 4         |
| 62 | Negative Refraction and Focusing of Photonic Crystals with Graded Negative Index in Visible Regime. Plasmonics, 2013, 8, 335-340.  | 3.4 | 4         |
| 63 | Fabrication of refractive silicon microlens array with a large focal number and accurate lens profile. Microsystem Technologies, 2020, 26, 1159-1166.                      | 2.0 | 4         |
| 64 | Tailorable polygon-like beams generated by modified spiral petal-like zone plates. Results in Physics, 2021, 21, 103823.   | 4.1 | 4         |
| 65 | Computational Study of Influence of Structuring of Plasmonic Nanolens on Superfocusing. Plasmonics, 2011, 6, 35-42.  | 3.4 | 3         |
| 66 | Study of the Plasmon Talbot Effect of Metallic Nanolenses Induced by Linearly Polarized Illumination. Plasmonics, 2012, 7, 641-645.  | 3.4 | 3         |
| 67 | Planar polarization-routing optical cross-connects using nematic liquid crystal waveguides. Optics Express, 2018, 26, 402.   | 3.4 | 3         |
| 68 | Colourful imaging and self-reconstruction properties of modified single-focus fractal zone plates. Optics Express, 2020, 28, 37827.  | 3.4 | 3         |
| 69 | Three tailorable optical vortices generated by a modified fractal spiral forked plate. Journal of Optics (United Kingdom), 2021, 23, 045603.                               | 2.2 | 2         |
| 70 | Multiple-Beam Surface Plasmon Holographic Nanolithography. Plasmonics, 2013, 8, 561-569.   | 3.4 | 1         |
| 71 | Investigation of Focusing Characteristics of Plasmonic Lenses with Concentric Elliptical Slits. Journal of Computational and Theoretical Nanoscience, 2013, 10, 2609-2617. | 0.4 | 1         |
| 72 | A Method for the Micro-encapsulation of Dielectric Fluids in Joined Polymer Shells. Current Organic Chemistry, 2013, 17, 65-71.  | 1.6 | 1         |

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|----|---|-----|-----------|
| 73 | Si Substrate-Based Metamaterials for Ultrabroadband Perfect Absorption in Visible Regime. Journal of Nanomaterials, 2014, 2014, 1-5.  | 2.7 | 1         |
| 74 | Influence of electrode types on the electrohydrodynamic instability patterning process: a comparative study. RSC Advances, 2016, 6, 112300-112306.                              | 3.6 | 1         |
| 75 | Polarization and sizes variation immune optical absorbers. Modern Physics Letters B, 2016, 30, 1650010.   | 1.9 | 1         |
| 76 | 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         |
| 77 | Fabrication and experimental characterization of precise high-efficiency 2D multi-mode fiber array coupler. Optical Fiber Technology, 2021, 63, 102488.                         | 2.7 | 1         |
| 78 | Characterization of TiO <sub>2</sub> /SiO <sub>2</sub> hybrid sol-gel glass and its use for fabrication of micro-optical elements. , 0, , .                                     |     | 0         |
| 79 | Immersed nanospheres super-lithography for the fabrication of sub-70nm nanoholes with period below 700nm. , 2012, , .   |     | 0         |
| 80 | A composite hardness stamp in 184 PDMS for nanostructures transfer in high fidelity. , 2012, , .  |     | 0         |
| 81 | 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         |
| 82 | Study of Metallic Nanowires with Arbitrary Cross-Sectional Shapes for Negative Refraction in Visible Regime. Plasmonics, 2012, 7, 619-626.                                      | 3.4 | 0         |
| 83 | Nano-multiwall cylinders array for ultra-broadband perfect absorption in visible regime: novel properties revealing. Modern Physics Letters B, 2014, 28, 1450086.               | 1.9 | 0         |
| 84 | Electron impact investigation of hybridization scheme in coupled split-ring resonators. , 2014, , .   |     | 0         |
| 85 | Investigation of enhancement of near-field probing for sensing at terahertz waveband. Optik, 2015, 126, 4823-4826.  | 2.9 | 0         |
| 86 | Noise analysis of the Vernier anode. Applied Optics, 2015, 54, 6904.  | 2.1 | 0         |
| 87 | Photocatalysis: Plasmonic Black Absorbers for Enhanced Photocurrent of Visible Light Photocatalysis (Advanced Optical Materials 2/2017). Advanced Optical Materials, 2017, 5, . | 7.3 | 0         |
| 88 | Fabrication of hollow polymer microstructures using dielectric and capillary forces. Microsystem Technologies, 2020, 26, 301-308.   | 2.0 | 0         |
| 89 | A Polygon-Like Light-Arm Zone Plate. IEEE Photonics Technology Letters, 2022, 34, 355-358.  | 2.5 | 0         |
| 90 | Extended bifocal depth imaging with modified generalized composite kinoform Fibonacci lenses. Optics and Laser Technology, 2022, 152, 108162.                                   | 4.6 | 0         |