

# Wei Zhou

## List of Publications by Year in descending order

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74  
papers

4,166  
citations

159585

30  
h-index

155660

55  
g-index

74  
all docs

74  
docs citations

74  
times ranked

6440  
citing authors

#	ARTICLE	IF	CITATIONS
1	Lasing action in strongly coupled plasmonic nanocavity arrays. <i>Nature Nanotechnology</i> , 2013, 8, 506-511.	31.5	657
2	Tunable subradiant lattice plasmons by out-of-plane dipolar interactions. <i>Nature Nanotechnology</i> , 2011, 6, 423-427.	31.5	354
3	Three-dimensional macroporous nanoelectronic networks as minimally invasive brain probes. <i>Nature Materials</i> , 2015, 14, 1286-1292.	27.5	334
4	Plasmonic Bowtie Nanolaser Arrays. <i>Nano Letters</i> , 2012, 12, 5769-5774.	9.1	232
5	General Strategy for Biodetection in High Ionic Strength Solutions Using Transistor-Based Nanoelectronic Sensors. <i>Nano Letters</i> , 2015, 15, 2143-2148.	9.1	215
6	Specific detection of biomolecules in physiological solutions using graphene transistor biosensors. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 14633-14638.	7.1	200
7	Three-dimensional mapping and regulation of action potential propagation in nanoelectronics-innervated tissues. <i>Nature Nanotechnology</i> , 2016, 11, 776-782.	31.5	160
8	The anatase phase of nanotopography titania plays an important role on osteoblast cell morphology and proliferation. <i>Journal of Materials Science: Materials in Medicine</i> , 2008, 19, 3465-3472.	3.6	157
9	Programmable Soft Lithography: Solvent-Assisted Nanoscale Embossing. <i>Nano Letters</i> , 2011, 11, 311-315.	9.1	145
10	Infrared Plasmonics with Indium-Tin-Oxide Nanorod Arrays. <i>ACS Nano</i> , 2011, 5, 9161-9170.	14.6	140
11	Long Term Stability of Nanowire Nanoelectronics in Physiological Environments. <i>Nano Letters</i> , 2014, 14, 1614-1619.	9.1	126
12	Advances in nanowire bioelectronics. <i>Reports on Progress in Physics</i> , 2017, 80, 016701.	20.1	99
13	Multifunctional three-dimensional macroporous nanoelectronic networks for smart materials. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 6694-6699.	7.1	85
14	The effect of surface roughness and wettability of nanostructured TiO <sub>2</sub> film on TCA-8113 epithelial-like cells. <i>Surface and Coatings Technology</i> , 2006, 200, 6155-6160.	4.8	70
15	Enhanced Optical Transmission Mediated by Localized Plasmons in Anisotropic, Three-Dimensional Nanohole Arrays. <i>Nano Letters</i> , 2010, 10, 3173-3178.	9.1	70
16	Liquid Plasmonics: Manipulating Surface Plasmon Polaritons via Phase Transitions. <i>Nano Letters</i> , 2012, 12, 4324-4328.	9.1	64
17	Refractive-Index-Insensitive Nanolaminated SERS Substrates for Label-Free Raman Profiling and Classification of Living Cancer Cells. <i>Nano Letters</i> , 2019, 19, 7273-7281.	9.1	63
18	Plasmonic Crystals: A Platform to Catalog Resonances from Ultraviolet to Near-Infrared Wavelengths in a Plasmonic Library. <i>Advanced Functional Materials</i> , 2010, 20, 529-539.	14.9	58

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19	Improved Quantitative SERS Enabled by Surface Plasmon Enhanced Elastic Light Scattering. <i>Analytical Chemistry</i> , 2018, 90, 3227-3237.	6.5	56
20	Extraordinary Nonlinear Absorption in 3D Bowtie Nanoantennas. <i>Nano Letters</i> , 2012, 12, 269-274.	9.1	54
21	Delocalized Lattice Plasmon Resonances Show Dispersive Quality Factors. <i>Journal of Physical Chemistry Letters</i> , 2012, 3, 1381-1385.	4.6	53
22	High-Rotational Symmetry Lattices Fabricated by Moiré Nanolithography. <i>Nano Letters</i> , 2012, 12, 4948-4952.	9.1	50
23	Hybridization of Localized and Guided Modes in 2D Metal-Insulator-Metal Nanocavity Arrays. <i>Journal of Physical Chemistry C</i> , 2013, 117, 2541-2546.	3.1	44
24	Plasma-controlled nanocrystallinity and phase composition of TiO <sub>2</sub> : A smart way to enhance biomimetic response. <i>Journal of Biomedical Materials Research - Part A</i> , 2007, 81A, 453-464.	4.0	42
25	Real-Time Monitoring of Ligand Exchange Kinetics on Gold Nanoparticle Surfaces Enabled by Hot Spot-Normalized Surface-Enhanced Raman Scattering. <i>Environmental Science &amp; Technology</i> , 2019, 53, 575-585.	10.0	38
26	Ultra-sharp plasmonic resonances from monopole optical nanoantenna phased arrays. <i>Applied Physics Letters</i> , 2014, 104, .	3.3	37
27	Plasmonic-Photonic Mode Coupling in Indium-Tin-Oxide Nanorod Arrays. <i>ACS Photonics</i> , 2014, 1, 163-172.	6.6	37
28	Partial Leidenfrost Evaporation-Assisted Ultrasensitive Surface-Enhanced Raman Spectroscopy in a Janus Water Droplet on Hierarchical Plasmonic Micro-/Nanostructures. <i>ACS Nano</i> , 2020, 14, 9521-9531.	14.6	37
29	Talbot effect beyond the paraxial limit at optical frequencies. <i>Optics Express</i> , 2012, 20, 14284.	3.4	35
30	Multiresonant plasmonics with spatial mode overlap: overview and outlook. <i>Nanophotonics</i> , 2019, 8, 1199-1225.	6.0	35
31	Plasmonic Electronic Raman Scattering as Internal Standard for Spatial and Temporal Calibration in Quantitative Surface-Enhanced Raman Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 9543-9551.	4.6	35
32	Reusable Surface-Enhanced Raman Spectroscopy Membranes and Textiles via Template-Assisted Self-Assembly and Micro/Nanoimprinting. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 56290-56299.	8.0	34
33	Multiresonant Composite Optical Nanoantennas by Out-of-plane Plasmonic Engineering. <i>Nano Letters</i> , 2018, 18, 4409-4416.	9.1	32
34	Low temperature deposition of nanocrystalline TiO <sub>2</sub> films: enhancement of nanocrystal formation by energetic particle bombardment. <i>Journal Physics D: Applied Physics</i> , 2007, 40, 219-226.	2.8	31
35	Quantitative SERS by hot spot normalization - surface enhanced Rayleigh band intensity as an alternative evaluation parameter for SERS substrate performance. <i>Faraday Discussions</i> , 2017, 205, 491-504.	3.2	31
36	Toward Broadband Plasmonics: Tuning Dispersion in Rhombic Plasmonic Crystals. <i>ACS Nano</i> , 2010, 4, 1241-1247.	14.6	30

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37	Polarization-Dependent Multipolar Plasmon Resonances in Anisotropic Multiscale Au Particles. <i>ACS Nano</i> , 2012, 6, 1786-1794.	14.6	29
38	Scalable High-Performance Nanolaminated SERS Substrates Based on Multistack Vertically Oriented Plasmonic Nanogaps. <i>Advanced Materials Technologies</i> , 2019, 4, 1800689.	5.8	29
39	Plasmonically Calibrated Label-Free Surface-Enhanced Raman Spectroscopy for Improved Multivariate Analysis of Living Cells in Cancer Subtyping and Drug Testing. <i>Analytical Chemistry</i> , 2021, 93, 4601-4610.	6.5	24
40	A digital SERS sensing platform using 3D nanolaminate plasmonic crystals coupled with Au nanoparticles for accurate quantitative detection of dopamine. <i>Nanoscale</i> , 2021, 13, 17340-17349.	5.6	19
41	Scalable nanolaminated SERS multiwell cell culture assay. <i>Microsystems and Nanoengineering</i> , 2020, 6, 47.	7.0	17
42	Au/SiO <sub>2</sub> -Nanolaminated Plasmonic Nanoantennas as Refractive-Index-Insensitive and Transparent Surface-Enhanced Raman Spectroscopy Substrates. <i>ACS Applied Nano Materials</i> , 2021, 4, 3175-3184.	5.0	15
43	Broadband Nanoscale Surface-Enhanced Raman Spectroscopy by Multiresonant Nanolaminate Plasmonic Nanocavities on Vertical Nanopillars. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	14
44	Nano-optoelectrodes Integrated with Flexible Multifunctional Fiber Probes by High-Throughput Scalable Fabrication. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 9156-9165.	8.0	13
45	Microporous Multiresonant Plasmonic Meshes by Hierarchical Micro-Nanoimprinting for Bio-Interfaced SERS Imaging and Nonlinear Nano-Optics. <i>Small</i> , 2022, 18, e2106887.	10.0	13
46	Photothermal self-healing of gold nanoparticle-polystyrene hybrids. <i>Nanoscale</i> , 2020, 12, 20726-20736.	5.6	8
47	Controllable planar electrodeposition of NaYF <sub>4</sub> : Yb <sup>3+</sup> , Er <sup>3+</sup> thin films with efficient upconverting fluorescence. <i>Journal of Luminescence</i> , 2019, 214, 116580.	3.1	6
48	Two-Tier Nanolaminate Plasmonic Crystals for Broadband Multiresonant Light Concentration with Spatial Mode Overlap. <i>Advanced Optical Materials</i> , 2021, 9, 2001908.	7.3	6
49	Nanostructured Au-Based Surface-Enhanced Raman Scattering Substrates and Multivariate Regression for pH Sensing. <i>ACS Applied Nano Materials</i> , 2021, 4, 5768-5777.	5.0	6
50	Sub-10 nm Nanolaminated Al <sub>2</sub> O <sub>3</sub> /HfO <sub>2</sub> Coatings for Long-Term Stability of Cu Plasmonic Nanodisks in Physiological Environments. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 31952-31961.	8.0	5
51	Nanoimprinted conducting nanopillar arrays made of MWCNT/polymer nanocomposites: a study by electrochemical impedance spectroscopy. <i>Nanoscale Advances</i> , 2021, 3, 556-566.	4.6	4
52	Spectral tuning of double resonant nanolaminate plasmonic nanoantennas with a fixed size. <i>Applied Physics Letters</i> , 2021, 118, .	3.3	4
53	Fixed-size double-resonant nanolaminate plasmonic nanoantennas with wide spectral tunability and high optical cross-sections. <i>Optik</i> , 2021, 230, 166332.	2.9	3
54	Hydroxyapatite Films Deposited on TiN and TiO <sub>2</sub> Buffer Layers by Radio-Frequency Magnetron Sputtering: Comparative Study. <i>Key Engineering Materials</i> , 2007, 334-335, 1133-1136.	0.4	2

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55	Sensors: Scalable High-Performance Nanolaminated SERS Substrates Based on Multistack Vertically Oriented Plasmonic Nanogaps (Adv. Mater. Technol. 5/2019). Advanced Materials Technologies, 2019, 4, 1970028.	5.8	2
56	Multi-resonant Optical Nanocavities by Out-of-plane Magnetic Plasmon Hybridization. , 2018, , .		2
57	Multilayered metal-insulator nanocavities: toward tunable multi-resonance nano-devices for integrated optics. , 2017, , .		1
58	Conductive Gap-Plasmon Nanocavity. , 2018, , .		1
59	Superhydrophobic SERS Substrates based on Plasmonic Hierarchical Micro-nanostructures. , 2018, , .		1
60	Magnetic Plasmon Hybridization in Vertically Stacked Double-gap Nanocavities. , 2018, , .		1
61	Tantalum Pentoxide-based, All-dielectric Ultraviolet Metasurfaces. , 2020, , .		1
62	Highly tunable ultra-narrow-resonances with optical nano-antenna phased arrays in the infrared. , 2014, , .		0
63	Plasmonic Calibration in Label-free Surface-enhanced Raman Spectroscopy for Improved Multivariate Analysis of Living Cells. , 2021, , .		0
64	Nanoscale Multiband Surface-enhanced Raman Spectroscopy by Multiresonant Nanolaminate Plasmonics. , 2021, , .		0
65	Multi-Resonant Optical Nanocavities with Continuous Spectral Tunability by Metal-dielectric Multilayer Engineering. , 2017, , .		0
66	Scalable SERS by Activating "Passive" Hotspots in Multigap Nanoplasmonic Systems. , 2018, , .		0
67	Multiresonant Optical Response in Quasi-3D Multilayer Metal-Insulator-Metal Plasmonic Nanostructures. , 2018, , .		0
68	Determining the Nature of Optical Forces with the Photon-Drag Effect. , 2019, , .		0
69	Multiresonant Nanolaminate Plasmonic Metamaterials with Spatial Mode Overlap. , 2020, , .		0
70	Nanoplasmonic $ E ^4$ Enhancement of Molecular Raman Scattering and Electronic Raman Scattering with Spatial Correlation. , 2020, , .		0
71	Electronic Raman Scattering Calibration for Quantitative Surface-enhanced Raman Spectroscopy and Improved Biostatistical Analysis. , 2020, , .		0
72	Leidenfrost Evaporation-Assisted Ultrasensitive Surface-Enhanced Raman Spectroscopy. , 2020, , .		0

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73	Twisting Polarization of Ultrafast Pulses using Metasurfaces. , 2020, , .		0
74	RI-Insensitive Surface-enhanced Raman Spectroscopy (SERS) for Label-free Profiling and Classification of Living Cancer Cells. , 2020, , .		0