

# Xinzhong Chen

## List of Publications by Year in descending order

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47  
papers

1,049  
citations

393982

19  
h-index

433756

31  
g-index

49  
all docs

49  
docs citations

49  
times ranked

1287  
citing authors

#	ARTICLE	IF	CITATIONS
1	Modern Scattering-Type Scanning Near-Field Optical Microscopy for Advanced Material Research. <i>Advanced Materials</i> , 2019, 31, e1804774.	11.1	205
2	Terahertz Nanoimaging of Graphene. <i>ACS Photonics</i> , 2018, 5, 2645-2651.	3.2	78
3	Multicolor T-Ray Imaging Using Multispectral Metamaterials. <i>Advanced Science</i> , 2018, 5, 1700982.	5.6	64
4	THz Near-Field Imaging of Extreme Subwavelength Metal Structures. <i>ACS Photonics</i> , 2020, 7, 687-694.	3.2	58
5	A rewritable optical storage medium of silk proteins using near-field nano-optics. <i>Nature Nanotechnology</i> , 2020, 15, 941-947.	15.6	51
6	Protein Bricks: 2D and 3D Bio-Nanostructures with Shape and Function on Demand. <i>Advanced Materials</i> , 2018, 30, e1705919.	11.1	50
7	Phase-Change Hyperbolic Heterostructures for Nanopolaritonics: A Case Study of hBN/VO <sub>2</sub> . <i>Advanced Materials</i> , 2019, 31, e1900251.	11.1	43
8	Nano-Resolved Current-Induced Insulator-Metal Transition in the Mott Insulator $\text{CaMn}_2\text{P}_2\text{O}_{14}$ . <i>Physical Review X</i> , 2019, 9, .	2.8	40
9	Moiré engineering of electronic phenomena in correlated oxides. <i>Nature Physics</i> , 2020, 16, 631-635.	6.5	40
10	Active control of micrometer plasmon propagation in suspended graphene. <i>Nature Communications</i> , 2022, 13, 1465.	5.8	31
11	Rigorous numerical modeling of scattering-type scanning near-field optical microscopy and spectroscopy. <i>Applied Physics Letters</i> , 2017, 111, .	1.5	29
12	Terahertz response of monolayer and few-layer WTe <sub>2</sub> at the nanoscale. <i>Nature Communications</i> , 2021, 12, 5594.	5.8	29
13	Scattering of electromagnetic waves from a cone with conformal mapping: Application to scanning near-field optical microscope. <i>Physical Review B</i> , 2018, 97, .	1.1	28
14	Tunable Modal Birefringence in a Low-Loss Van Der Waals Waveguide. <i>Advanced Materials</i> , 2019, 31, e1807788.	11.1	27
15	Photo-induced terahertz near-field dynamics of graphene/InAs heterostructures. <i>Optics Express</i> , 2019, 27, 13611.	1.7	25
16	Near-field spectroscopic investigation of dual-band heavy fermion metamaterials. <i>Nature Communications</i> , 2017, 8, 2262.	5.8	24
17	Nano-spectroscopy of excitons in atomically thin transition metal dichalcogenides. <i>Nature Communications</i> , 2022, 13, 542.	5.8	23
18	Nanoimaging and Nanospectroscopy of Polaritons with Time Resolved s-SNOM. <i>Advanced Optical Materials</i> , 2020, 8, 1901042.	3.6	22

#	ARTICLE	IF	CITATIONS
19	Hybrid Machine Learning for Scanning Near-Field Optical Spectroscopy. ACS Photonics, 2021, 8, 2987-2996.	3.2	22
20	3D Local Manipulation of the Metal-Insulator Transition Behavior in VO <sub>2</sub> Thin Film by Defect-Induced Lattice Engineering. Advanced Materials Interfaces, 2018, 5, 1701268.	1.9	19
21	Controlling phase separation in vanadium dioxide thin films via substrate engineering. Physical Review B, 2017, 96, .	1.1	13
22	Validity of Machine Learning in the Quantitative Analysis of Complex Scanning Near-Field Optical Microscopy Signals Using Simulated Data. Physical Review Applied, 2021, 15, .	1.5	13
23	Anomalous contrast in broadband THz near-field imaging of gold microstructures. Optics Express, 2021, 29, 15190.	1.7	12
24	Rapid simulations of hyperspectral near-field images of three-dimensional heterogeneous surfaces. Optics Express, 2021, 29, 39648.	1.7	12
25	Rapid simulations of hyperspectral near-field images of three-dimensional heterogeneous surfaces – part II. Optics Express, 2022, 30, 11228.	1.7	12
26	Deep Learning Analysis of Polaritonic Wave Images. ACS Nano, 2021, 15, 18182-18191.	7.3	10
27	Probing subwavelength in-plane anisotropy with antenna-assisted infrared nano-spectroscopy. Nature Communications, 2021, 12, 2649.	5.8	9
28	Scattering-type Scanning Near-Field Optical Microscopy of Polymer-Coated Gold Nanoparticles. ACS Omega, 2022, 7, 11353-11362.	1.6	9
29	A terahertz near-field nanoscopy revealing edge fringes with a fast and highly sensitive quantum-well photodetector. IScience, 2022, 25, 104637.	1.9	8
30	Scattering-type scanning near-field optical microscopy with Akiyama piezo-probes. Applied Physics Letters, 2022, 120, .	1.5	7
31	Photo-induced charge density distribution in metal surfaces and its extraction with apertureless near-field optics. Journal of Physics Condensed Matter, 2019, 31, 24LT01.	0.7	6
32	Bio-Nanostructures: Protein Bricks: 2D and 3D Bio-Nanostructures with Shape and Function on Demand (Adv. Mater. 20/2018). Advanced Materials, 2018, 30, 1870141.	11.1	3
33	Simultaneous scanning near-field optical and X-ray diffraction microscopy for correlative nanoscale structure-property characterization. Journal of Synchrotron Radiation, 2019, 26, 1790-1796.	1.0	3
34	Polariton Spectroscopy: Nanoimaging and Nanospectroscopy of Polaritons with Time Resolved s-SNOM (Advanced Optical Materials 5/2020). Advanced Optical Materials, 2020, 8, 2070019.	3.6	3
35	Partially Metal-Coated Tips for Near-Field Nanospectroscopy. Physical Review Applied, 2021, 15, .	1.5	3
36	Effect of sample anisotropy on scanning near-field optical microscope images. Journal of Applied Physics, 2021, 129, .	1.1	3

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37	High-efficiency scattering probe design for s-polarized near-field microscopy. Applied Physics Express, 2021, 14, 022002.	1.1	3
38	Ultrabroadband infrared near-field spectroscopy and imaging of local resonators in percolative gold films. Journal of the Optical Society of America B: Optical Physics, 2019, 36, 3315.	0.9	3
39	A near-field study of VO <sub>2</sub> /(100)TiO <sub>2</sub> film and its crack-induced strain relief. Applied Physics Letters, 2022, 121, .	1.5	3
40	Structural, transport, and ultrafast dynamic properties of V <sub>1-x</sub> Nb <sub>x</sub> O <sub>2</sub> thin films. Physical Review B, 2019, 99, .	1.1	2
41	Ultrafast photoexcitation dynamics of ZnTe crystals by femtosecond optical pump-probe and terahertz emission spectroscopy. Microwave and Optical Technology Letters, 2020, 62, 2656-2661.	0.9	2
42	Multispectral Imaging: Multicolor Ray Imaging Using Multispectral Metamaterials (Adv. Sci. 7/2018). Advanced Science, 2018, 5, 1870044.	5.6	1
43	Modal Birefringence: Tunable Modal Birefringence in a Low-Loss Van Der Waals Waveguide (Adv.) Tj ETQq1 1 0.784314 rgBT /Overl	11.1	1
44	Dual wavelength digital holographic imaging of embedded layered structures. Proceedings of SPIE, 2016, , .	0.8	0
45	Anomalous Contrast in Broadband THz Near-Field Imaging of Gold Microstructures. , 2021, , .		0
46	Rewritable Optical Storage Medium of Silk Proteins Using Tip-Based Nanolithography. , 2021, , .		0
47	Terahertz nano-imaging of metal-insulator transition in Cd(2)Os(2)O(7). Europhysics Letters, 0, , .	0.7	0