

Zhiqiang Guan

List of Publications by Year in descending order

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Version: 2024-02-01

31
papers

1,422
citations

430874

18
h-index

454955

30
g-index

31
all docs

31
docs citations

31
times ranked

1604
citing authors

#	ARTICLE	IF	CITATIONS
1	Surface-Enhanced Raman Spectroscopy and Nanogeometry: The Plasmonic Origin of SERS. <i>Journal of Physical Chemistry C</i> , 2007, 111, 17985-17988.	3.1	248
2	Malus-metasurface-assisted polarization multiplexing. <i>Light: Science and Applications</i> , 2020, 9, 101.	16.6	176
3	Multiplexed Anticounterfeiting Meta-image Displays with Single-Sized Nanostructures. <i>Nano Letters</i> , 2020, 20, 1830-1838.	9.1	142
4	Three-Channel Metasurfaces for Simultaneous Meta-Holography and Meta-Nanoprinting: A Single-Cell Design Approach. <i>Laser and Photonics Reviews</i> , 2020, 14, 2000032.	8.7	110
5	Probing the limits of plasmonic enhancement using a two-dimensional atomic crystal probe. <i>Light: Science and Applications</i> , 2018, 7, 56.	16.6	94
6	Spatial Frequency Multiplexed Meta-Holography and Meta-Nanoprinting. <i>ACS Nano</i> , 2019, 13, 9237-9246.	14.6	76
7	A Single-Celled Tri-Functional Metasurface Enabled with Triple Manipulations of Light. <i>Advanced Functional Materials</i> , 2020, 30, 2003990.	14.9	71
8	In Situ Raman Monitoring and Manipulating of Interfacial Hydrogen Spillover by Precise Fabrication of Au/TiO ₂ /Pt Sandwich Structures. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 10343-10347.	13.8	70
9	Effect of a proximal substrate on plasmon propagation in silver nanowires. <i>Physical Review B</i> , 2010, 82, .	3.2	67
10	In Situ Raman Monitoring and Manipulating of Interfacial Hydrogen Spillover by Precise Fabrication of Au/TiO ₂ /Pt Sandwich Structures. <i>Angewandte Chemie</i> , 2020, 132, 10429-10433.	2.0	44
11	Zero-order-free meta-holograms in a broadband visible range. <i>Photonics Research</i> , 2020, 8, 723.	7.0	34
12	Non-orthogonal polarization multiplexed metasurfaces for tri-channel polychromatic image displays and information encryption. <i>Nanophotonics</i> , 2021, 10, 2903-2914.	6.0	31
13	Electrically Driven Highly Tunable Cavity Plasmons. <i>ACS Photonics</i> , 2019, 6, 823-829.	6.6	26
14	Giant photothermoelectric effect in silicon nanoribbon photodetectors. <i>Light: Science and Applications</i> , 2020, 9, 120.	16.6	24
15	In Situ Raman Probing of Hot-Electron Transfer at Gold-Graphene Interfaces with Atomic Layer Accuracy. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	13.8	24
16	Multifold Integration of Printed and Holographic Meta-Image Displays Enabled by Dual-Degeneracy. <i>Small</i> , 2022, 18, e2106148.	10.0	22
17	Real-time Raman detection by the cavity mode enhanced Raman scattering. <i>Nano Research</i> , 2019, 12, 1643-1649.	10.4	21
18	Single-celled multifunctional metasurfaces merging structural-color nanoprinting and holography. <i>Optics Express</i> , 2021, 29, 10737.	3.4	20

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19	Electrically Driven Optical Antennas Based on Template Dielectrophoretic Trapping. ACS Nano, 2019, 13, 14041-14047.	14.6	19
20	Asymmetric hologram with a single-size nanostructured metasurface. Optics Express, 2021, 29, 19964.	3.4	17
21	A plasmon modulated photothermoelectric photodetector in silicon nanostripes. Nanoscale, 2019, 11, 4918-4924.	5.6	16
22	Ultrathin, broadband, omnidirectional, and polarization-independent infrared absorber using all-dielectric refractory materials. Nanophotonics, 2021, 10, 1683-1690.	6.0	16
23	Multiplexing meta-hologram with separate control of amplitude and phase. Optics Express, 2021, 29, 27696.	3.4	16
24	Mechanism of resonant perfect optical absorption in dielectric film supporting metallic grating structures. Optics Express, 2016, 24, 19435.	3.4	11
25	Surface-enhanced Raman scattering on dual-layer metallic grating structures. Science Bulletin, 2010, 55, 2643-2648.	1.7	9
26	A high speed electrically switching reflective structural color display with large color gamut. Nanoscale, 2021, 13, 1164-1171.	5.6	8
27	Switchable Electrically Driven Optical Antenna Based on Ultrathin Amorphous Silica. Advanced Optical Materials, 2021, 9, 2100191.	7.3	5
28	Thermal detection of surface plasmons on gold nanohole arrays. Science Bulletin, 2012, 57, 68-71.	1.7	3
29	Controlling the immobilization process of an optically enhanced protein microarray for highly reproducible immunoassay. Nanoscale, 2021, 13, 4269-4277.	5.6	1
30	A top-down fabricated gold nanostrip on a silicon-on-insulator wafer: a promising building block towards ultra-compact optical devices. Nanoscale, 2021, 13, 1904-1914.	5.6	1
31	Mechanism of resonant perfect optical absorber, design rules, and applications. , 2016, , .		0