

Qiang Wu

List of Publications by Year in descending order

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109
papers

2,052
citations

236612

25
h-index

288905

40
g-index

109
all docs

109
docs citations

109
times ranked

2444
citing authors

#	ARTICLE	IF	CITATIONS
1	Formation mechanism of high spatial frequency laser-induced periodic surface structures and experimental support. <i>Applied Surface Science</i> , 2022, 580, 152107.	3.1	12
2	A spectral study on the plume induced by femtosecond laser ablation of lithium niobate in vacuum. <i>Optical Materials</i> , 2022, 129, 112498.	1.7	0
3	Topologically tuned terahertz confinement in a nonlinear photonic chip. <i>Light: Science and Applications</i> , 2022, 11, .	7.7	12
4	The Formation Mechanism of Femtosecond Laser-induced Periodic Structures on Germanium. , 2021, , .		0
5	Fluorescent, electrically responsive and ultratough self-healing hydrogels <i>via</i> bioinspired all-in-one hierarchical micelles. <i>Materials Horizons</i> , 2021, 8, 3096-3104.	6.4	21
6	Crack-free femtosecond laser processing of lithium niobate benefited by high substrate temperature. <i>Journal of Applied Physics</i> , 2021, 129, 063102.	1.1	2
7	High-performance black silicon photodetectors operating over a wide temperature range. <i>Optical Materials</i> , 2021, 113, 110874.	1.7	18
8	Observation of “Frozen” Phase Propagation of THz Pulses in a Dispersive Optical System. <i>Laser and Photonics Reviews</i> , 2021, 15, 2000591.	4.4	5
9	Giant enhancement of THz-frequency optical nonlinearity by phonon polariton in ionic crystals. <i>Nature Communications</i> , 2021, 12, 3183.	5.8	29
10	Direct visualization of on-chip THz topological states. , 2021, , .		0
11	Supramolecular Polydimethylsiloxane Elastomer with Enhanced Mechanical Properties and Self-Healing Ability Engineered by Synergetic Dynamic Bonds. <i>ACS Applied Polymer Materials</i> , 2021, 3, 3373-3382.	2.0	31
12	Topological Valley Transport of Terahertz Phonon Polaritons in a LiNbO ₃ Chip. <i>ACS Photonics</i> , 2021, 8, 2737-2745.	3.2	13
13	THz Nonlinearity Enhancement by Phonon Polaritons in Ionic Crystals. , 2021, , .		0
14	Well-aligned periodic germanium nanoisland arrays with large areas and improved field emission performance induced by femtosecond laser. <i>Applied Surface Science</i> , 2020, 508, 145308.	3.1	9
15	The dark current suppression of black silicon photodetector by a lateral heterojunction. <i>Optical Materials</i> , 2020, 110, 110474.	1.7	8
16	Highly Bidirectional Bendable Actuator Engineered by LCST/UCST Bilayer Hydrogel with Enhanced Interface. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 55290-55298.	4.0	89
17	Black Silicon Photodetector with Excellent Comprehensive Properties by Rapid Thermal Annealing and Hydrogenated Surface Passivation. <i>Advanced Optical Materials</i> , 2020, 8, 1901808.	3.6	60
18	Mechanically strong and tough hydrogels with pH-triggered self-healing and shape memory properties based on a dual physically crosslinked network. <i>Polymer Chemistry</i> , 2020, 11, 1906-1918.	1.9	30

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19	Fused Silica with Embedded 2D-Like Ag Nanoparticle Monolayer: Tunable Saturable Absorbers by Interparticle Spacing Manipulation. <i>Laser and Photonics Reviews</i> , 2020, 14, 1900302.	4.4	30
20	Giant nonlinearity of THz waves mediated by photon-phonon strong coupling. , 2020, , .		3
21	Highly responsive tellurium-hyperdoped black silicon photodiode with single-crystalline and uniform surface microstructure. <i>Optics Express</i> , 2020, 28, 5239.	1.7	24
22	Versatile on-chip light coupling and (de)multiplexing from arbitrary polarizations to controlled waveguide modes using an integrated dielectric metasurface. <i>Photonics Research</i> , 2020, 8, 564.	3.4	74
23	Effect of LiNbO3 crystals temperature on ultra-fast laser induced periodic surface structures. , 2020, , .		0
24	Propagation phase elimination of light pulses by an initial phase-locked synchronized moving source. , 2020, , .		0
25	Sulfur-Hyperdoped Silicon-Based Flexible Photodetector with Excellent Comprehensive Performance. , 2020, , .		0
26	Demonstration of highly unidirectional edge states in terahertz slab waveguides. , 2020, , .		0
27	Cavity-cavity coupling based on a terahertz rectangular subwavelength waveguide. <i>Journal of Applied Physics</i> , 2019, 126, 063103.	1.1	3
28	High-Performance Free-Standing Flexible Photodetectors Based on Sulfur-Hyperdoped Ultrathin Silicon. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 42385-42391.	4.0	27
29	Broadband on-Chip Terahertz Asymmetric Waveguiding via Phase-Gradient Metasurface. <i>ACS Photonics</i> , 2019, 6, 1774-1779.	3.2	27
30	Using Dynamic Bonds to Enhance the Mechanical Performance: From Microscopic Molecular Interactions to Macroscopic Properties. <i>Macromolecules</i> , 2019, 52, 5014-5025.	2.2	64
31	High-performance polyurethane nanocomposites based on UPy-modified cellulose nanocrystals. <i>Carbohydrate Polymers</i> , 2019, 219, 191-200.	5.1	37
32	Bio-inspired self-healing polyurethanes with multiple stimulus responsiveness. <i>Polymer Chemistry</i> , 2019, 10, 3362-3370.	1.9	29
33	Time-resolved imaging of mode-conversion process of terahertz transients in subwavelength waveguides. <i>Frontiers of Physics</i> , 2019, 14, 1.	2.4	4
34	Enhanced on-chip terahertz sensing with hybrid metasurface/lithium niobate structures. <i>Applied Physics Letters</i> , 2019, 114, .	1.5	22
35	Using Zn ²⁺ Ionomer To Catalyze Transesterification Reaction in Epoxy Vitriimer. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 5698-5706.	1.8	67
36	Uniform deep-subwavelength ripples produced on temperature controlled LiNbO3:Fe crystal surface via femtosecond laser ablation. <i>Applied Surface Science</i> , 2019, 478, 779-783.	3.1	21

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37	Giant Tunable Circular Dichroism of Large-Area Extrinsic Chiral Metal Nanocrescent Arrays. <i>Nanoscale Research Letters</i> , 2019, 14, 388.	3.1	16
38	pH-Sensitive assembly/disassembly gold nanoparticles with the potential of tumor diagnosis and treatment. <i>Science China Chemistry</i> , 2019, 62, 105-117.	4.2	15
39	On-chip plasmon-induced transparency in THz metamaterial on a LiNbO ₃ subwavelength planar waveguide. <i>Optics Express</i> , 2019, 27, 7373.	1.7	10
40	Polarization-resolved edge states in terahertz topological photonic crystal. <i>Optics Express</i> , 2019, 27, 22819.	1.7	21
41	Single-crystalline Te-hyperdoped silicon via controlling the velocity of ultra-fast cooling during femtosecond-laser irradiation. , 2019, , .		0
42	On-chip plasmon-induced transparency using a meta-structure in THz regime. , 2019, , .		0
43	Visualization of a cavity-cavity coupling in a LiNbO ₃ subwavelength waveguide at THz frequency. , 2019, , .		0
44	Linking guided waves and surface waves via metasurface on terahertz-integrated platform. , 2019, , .		0
45	Analysis on the evolution of subwavelength ripples fabricated by ultrafast laser pulses on lithium niobate crystal surface. , 2019, , .		0
46	Multiple-responsive shape memory polyacrylonitrile/graphene nanocomposites with rapid self-healing and recycling properties. <i>RSC Advances</i> , 2018, 8, 1225-1231.	1.7	25
47	Giant circular dichroism of large-area extrinsic chiral metal nanocrescents. <i>Scientific Reports</i> , 2018, 8, 3351.	1.6	19
48	The effects of ligand valency and density on the targeting ability of multivalent nanoparticles based on negatively charged chitosan nanoparticles. <i>Colloids and Surfaces B: Biointerfaces</i> , 2018, 161, 508-518.	2.5	21
49	Transient establishment of the wavefronts for negative, zero, and positive refraction. <i>Optics Express</i> , 2018, 26, 1954.	1.7	1
50	Laser direct writing of graphene nanostructures beyond the diffraction limit by graphene oxidation. <i>Optics Express</i> , 2018, 26, 20726.	1.7	6
51	Femtosecond laser-induced periodic surface structures on lithium niobate crystal benefiting from sample heating. <i>Photonics Research</i> , 2018, 6, 789.	3.4	23
52	“Three-in-One” Multifunctional Gatekeeper Gated Mesoporous Silica Nanoparticles for Intracellular pH-Activated Targeted Cancer Therapy. <i>ACS Applied Bio Materials</i> , 2018, 1, 572-580.	2.3	12
53	Propagation of THz pulses in rectangular subwavelength dielectric waveguides. <i>Journal of Applied Physics</i> , 2018, 123, .	1.1	7
54	Conversion from terahertz-guided waves to surface waves with metasurface. <i>Optics Express</i> , 2018, 26, 31233.	1.7	8

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55	Conformations and Intermolecular Interactions in Cellulose/Silk Fibroin Blend Films: A Solid-State NMR Perspective. <i>Journal of Physical Chemistry B</i> , 2017, 121, 6108-6116.	1.2	47
56	pH-Sensitive Reversible Programmed Targeting Strategy by the Self-Assembly/Disassembly of Gold Nanoparticles. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 16767-16777.	4.0	26
57	Rapid self-healing and recycling of multiple-responsive mechanically enhanced epoxy resin/graphene nanocomposites. <i>RSC Advances</i> , 2017, 7, 46336-46343.	1.7	23
58	Surface enhancement of THz wave by coupling a subwavelength LiNbO ₃ slab waveguide with a composite antenna structure. <i>Scientific Reports</i> , 2017, 7, 17602.	1.6	7
59	Direct visualization of light confinement and standing wave in THz Fabry-Perot resonator with Bragg mirrors. <i>Optics Express</i> , 2017, 25, 9768.	1.7	16
60	Efficient generation and frequency modulation of quasi-monochromatic terahertz wave in Lithium Niobate subwavelength waveguide. <i>Optics Express</i> , 2017, 25, 14766.	1.7	5
61	Real-space and real-time imaging of THz wave confinement and standing wave in a Fabry-Perot resonator. , 2017, , .		0
62	Compartmentalized liquid crystal alignment induced by sparse polymer ribbons with surface relief gratings. <i>Optics Letters</i> , 2016, 41, 336.	1.7	19
63	Excitation of the Tunable Longitudinal Higher-Order Multipole SPR Modes by Strong Coupling in Large-Area Metal Sub-10 nm-Gap Array Structures and Its Application. <i>Journal of Physical Chemistry C</i> , 2016, 120, 24932-24940.	1.5	13
64	Organic-inorganic perovskite plasmonic nanowire lasers with a low threshold and a good thermal stability. <i>Nanoscale</i> , 2016, 8, 19536-19540.	2.8	85
65	Threshold Dependence of Deep- and Near-subwavelength Ripples Formation on Natural MoS ₂ Induced by Femtosecond Laser. <i>Scientific Reports</i> , 2016, 6, 19571.	1.6	17
66	Sulfur-hyperdoped silicon photodetector with broadband spectral response and high gain at low bias. , 2016, , .		2
67	THz band-stop filter using metamaterials surfaced on LiNbO ₃ sub-wavelength slab waveguide. <i>Optics Express</i> , 2015, 23, 16042.	1.7	19
68	A Single Molecular Diels-Alder Crosslinker for Achieving Recyclable Cross-Linked Polymers. <i>Macromolecular Rapid Communications</i> , 2015, 36, 1687-1692.	2.0	52
69	Ultra-broadband femtosecond optical gating system using transient Kerr lens effect. , 2015, , .		0
70	Mode selection filter using THz metamaterials surfaced on LiNbO ₃ sub-wavelength slab waveguide. , 2015, , .		0
71	Deep and Near Sub-wavelength Ripples on Natural MoS ₂ Induced by Femtosecond Laser with Threshold Dependence. , 2015, , .		0
72	Polarization independent broadband femtosecond optical gating using transient Kerr lens effect. <i>Optics Express</i> , 2014, 22, 6691.	1.7	3

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73	Convenient ultra-broadband femtosecond optical gating utilizing transient beam deflection effect. Optics Express, 2014, 22, 31417.	1.7	2
74	Generation and erasure of femtosecond laser-induced periodic surface structures on nanoparticle-covered silicon by a single laser pulse. Optics Letters, 2014, 39, 343.	1.7	41
75	Giant field enhancement and resonant wavelength shift through a composite nanostructure. Optics Communications, 2014, 321, 47-50.	1.0	3
76	Optical nonlinear dynamics in ZnS from femtosecond laser pulses. AIP Advances, 2014, 4, 057107.	0.6	1
77	Fabrication of N-TiO ₂ /InBO ₃ Heterostructures with Enhanced Visible Photocatalytic Performance. Journal of Physical Chemistry C, 2014, 118, 13545-13551.	1.5	38
78	The Design of TiO ₂ Nanostructures (Nanoparticle, Nanotube, and Nanosheet) and Their Photocatalytic Activity. Journal of Physical Chemistry C, 2014, 118, 12727-12733.	1.5	91
79	Time-resolved Imaging of Propagation of THz Wave in SRR Metamaterials. , 2014, , .		0
80	Generation and evolution of plasma during femtosecond laser ablation of silicon in different ambient gases. Laser and Particle Beams, 2013, 31, 539-545.	0.4	13
81	Terahertz phonon polariton imaging. Frontiers of Physics, 2013, 8, 217-227.	2.4	17
82	Isotropic spiral plasmonic metamaterial for sensing large refractive index change. Optics Letters, 2013, 38, 3133.	1.7	50
83	Time-resolved photoluminescence of silicon microstructures fabricated by femtosecond laser in air. Optics Express, 2013, 21, 21329.	1.7	10
84	Microstructured polymer-based substrates with broadband absorption for surface-enhanced Raman scattering. Journal of Raman Spectroscopy, 2013, 44, 1678-1681.	1.2	5
85	Optical refocusing three-dimensional wide-field fluorescence lifetime imaging microscopy. Optics Express, 2012, 20, 960.	1.7	12
86	Self-assembled liquid crystals formed by hydrogen bonding between non-mesogenic 1,3,4-oxadiazole-based pyridines and substituted benzoic acids. Supramolecular Chemistry, 2012, 24, 157-164.	1.5	17
87	Synthesis of Indium Borate and Its Application in Photodegradation of 4-Chlorophenol. Environmental Science & Technology, 2012, 46, 2330-2336.	4.6	69
88	All-fiber acousto-optic tunable notch filter with a fiber winding driven by a cuneal acoustic transducer. Optics Letters, 2011, 36, 271.	1.7	20
89	Solution properties of hydrophobically modified polyelectrolytes synthesized via solution and micellar copolymerization. Polymer International, 2011, 60, 353-361.	1.6	3
90	Upconversion green-light-emitting macroporous Er:LN random laser. , 2011, , .		0

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91	Observation of modulated spontaneous emission of Rhodamine 6G in low refractive index contrast 1D-periodic gelatin film. Science China: Physics, Mechanics and Astronomy, 2010, 53, 54-58.	2.0	2
92	Nonlinear spectrum broadening of femtosecond laser pulses in photorefractive waveguide arrays. Optics Express, 2010, 18, 10112.	1.7	3
93	Experimental and theoretical analysis of THz-frequency, direction-dependent, phonon polariton modes in a subwavelength, anisotropic slab waveguide. Optics Express, 2010, 18, 26351.	1.7	34
94	Comparison of phase-sensitive imaging techniques for studying terahertz waves in structured LiNbO ₃ . Journal of the Optical Society of America B: Optical Physics, 2010, 27, 2350.	0.9	25
95	Measurement of Effective Refractive Index Ellipse of LiNbO ₃ Subwavelength Slab Waveguide for Thz Phonon Polariton Wave. , 2010, , .		0
96	The interaction of THz phonon-polariton waves with microstructures observed using quantitative, phase-sensitive imaging. , 2009, , .		0
97	Rheological behavior of PAAâ€“C n TAB complex: influence of PAA charge density and surfactant tail length in PAA semidilute aqueous solution. Colloid and Polymer Science, 2009, 287, 911-918.	1.0	19
98	Steady and dynamic rheological behaviors of sodium carboxymethyl cellulose entangled semi-dilute solution with opposite charged surfactant dodecyl-trimethylammonium bromide. Journal of Colloid and Interface Science, 2009, 339, 236-242.	5.0	43
99	Quantitative phase contrast imaging of THz electric fields in a dielectric waveguide. Optics Express, 2009, 17, 9219.	1.7	57
100	Zinc(ii) coordination architectures with two bulky anthracene-based carboxylic ligands: crystal structures and luminescent properties. CrystEngComm, 2008, 10, 681.	1.3	102
101	Observation of superluminal and slowdown light propagation in doped lithium niobate crystals. Optics Communications, 2006, 257, 185-190.	1.0	9
102	Optical limiting characteristics of mercury dithizonate in polymer film. Optical Materials, 2005, 27, 1358-1362.	1.7	19
103	Observation of strong stimulated photorefractive scattering and self-pumped phase conjugation in LiNbO ₃ :Mg in the ultraviolet. Optics Express, 2005, 13, 7666.	1.7	7
104	Coherent backscattering, phase conjugation, and waveguide in photovoltaic media. , 2005, , .		0
105	Nonlinear optical properties of mercury dithizonate in a polymer film. Journal of Modern Optics, 2004, 51, 1671-1677.	0.6	15
106	An increase of photorefractive sensitivity in In:LiNbO ₃ crystal. Optical Materials, 2003, 23, 269-272.	1.7	27
107	Fanning scattering in LiNbO ₃ at 750â€“850 nm induced by femtosecond laser pulses. Optical Materials, 2003, 23, 277-280.	1.7	5
108	Light-induced backward scattering in LiNbO ₃ :Fe,Zn. Applied Physics Letters, 2002, 81, 4691-4693.	1.5	4

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109	Ultraviolet-light-induced nonlinear scattering and self-pumped phase conjugation in LiNbO ₃ :Mg crystals at 351 nm. , 0, , .		0