

Changjun Min

List of Publications by Year in descending order

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148
papers

5,653
citations

126907

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85541

71
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148
all docs

148
docs citations

148
times ranked

4177
citing authors

#	ARTICLE	IF	CITATIONS
1	Optical vortices 30 years on: OAM manipulation from topological charge to multiple singularities. Light: Science and Applications, 2019, 8, 90.	16.6	1,151
2	Massive individual orbital angular momentum channels for multiplexing enabled by Dammann gratings. Light: Science and Applications, 2015, 4, e257-e257.	16.6	426
3	Focused plasmonic trapping of metallic particles. Nature Communications, 2013, 4, 2891.	12.8	319
4	Enhancement of optical absorption in thin-film organic solar cells through the excitation of plasmonic modes in metallic gratings. Applied Physics Letters, 2010, 96, .	3.3	214
5	All-optical switching in subwavelength metallic grating structure containing nonlinear optical materials. Optics Letters, 2008, 33, 869.	3.3	210
6	Absorption switches in metal-dielectric-metal plasmonic waveguides. Optics Express, 2009, 17, 10757.	3.4	192
7	Plasmonic tweezers: for nanoscale optical trapping and beyond. Light: Science and Applications, 2021, 10, 59.	16.6	171
8	Subwavelength slow-light waveguides based on a plasmonic analogue of electromagnetically induced transparency. Applied Physics Letters, 2011, 99, .	3.3	164
9	Ultra-broadband on-chip twisted light emitter for optical communications. Light: Science and Applications, 2018, 7, 18001-18001.	16.6	136
10	Beam manipulating by metallic nano-optic lens containing nonlinear media. Optics Express, 2007, 15, 9541.	3.4	89
11	Unidirectional reflectionless light propagation at exceptional points. Nanophotonics, 2017, 6, 977-996.	6.0	89
12	Nonlinearity-Induced Multiplexed Optical Trapping and Manipulation with Femtosecond Vector Beams. Nano Letters, 2018, 18, 5538-5543.	9.1	82
13	Perfect optical vortex enhanced surface plasmon excitation for plasmonic structured illumination microscopy imaging. Applied Physics Letters, 2016, 108, .	3.3	81
14	Unidirectional reflectionless propagation in plasmonic waveguide-cavity systems at exceptional points. Optics Express, 2015, 23, 29882.	3.4	79
15	Optimization of quantum interferometric metrological sensors in the presence of photon loss. Physical Review A, 2009, 80, .	2.5	74
16	Visualizing orbital angular momentum of plasmonic vortices. Optics Letters, 2012, 37, 4627.	3.3	70
17	On-chip plasmonic spin-Hall nanograting for simultaneously detecting phase and polarization singularities. Light: Science and Applications, 2020, 9, 95.	16.6	65
18	Plasmonic Hybridization Induced Trapping and Manipulation of a Single Au Nanowire on a Metallic Surface. Nano Letters, 2014, 14, 6430-6436.	9.1	64

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19	Slow-light enhanced subwavelength plasmonic waveguide refractive index sensors. Optics Express, 2015, 23, 14922.	3.4	63
20	Guided subwavelength slow-light mode supported by a plasmonic waveguide system. Optics Letters, 2010, 35, 4184.	3.3	62
21	Plasmonic nano-slits assisted polarization selective detour phase meta-hologram. Laser and Photonics Reviews, 2016, 10, 978-985.	8.7	60
22	Spin-Dependent Optical Geometric Transformation for Cylindrical Vector Beam Multiplexing Communication. ACS Photonics, 2018, 5, 3478-3484.	6.6	58
23	A Plasmonic Spanner for Metal Particle Manipulation. Scientific Reports, 2015, 5, 15446.	3.3	53
24	Optimization of photonic nanojets generated by multilayer microcylinders with a genetic algorithm. Optics Express, 2019, 27, 1310.	3.4	50
25	Mapping plasmonic near-field profiles and interferences by surface-enhanced Raman scattering. Scientific Reports, 2013, 3, 3064.	3.3	47
26	Broadband near total light absorption in non-PT-symmetric waveguide-cavity systems. Optics Express, 2016, 24, 22219.	3.4	47
27	Sidelobe-modulated optical vortices for free-space communication. Optics Letters, 2013, 38, 588.	3.3	44
28	Sub-wavelength sized transversely polarized optical needle with exceptionally suppressed side-lobes. Optics Express, 2016, 24, 874.	3.4	43
29	Meta-Holograms with Full Parameter Control of Wavefront over a 1000 nm Bandwidth. ACS Photonics, 2017, 4, 2158-2164.	6.6	42
30	Optical bistability in subwavelength metallic grating coated by nonlinear material. Optics Express, 2007, 15, 12368.	3.4	38
31	Experimental approach to the microscopic phase-sensitive surface plasmon resonance biosensor. Applied Physics Letters, 2013, 102, .	3.3	34
32	All-optical manipulation of micrometer-sized metallic particles. Photonics Research, 2018, 6, 66.	7.0	34
33	Beam focusing by metallic nano-slit array containing nonlinear material. Applied Physics B: Lasers and Optics, 2008, 90, 97-99.	2.2	33
34	Generation and detection of broadband multi-channel orbital angular momentum by micrometer-scale meta-reflectarray. Optics Express, 2016, 24, 212.	3.4	32
35	Deep Learning-Enabled Orbital Angular Momentum-Based Information Encryption Transmission. ACS Photonics, 2022, 9, 820-829.	6.6	32
36	Compact slit-based couplers for metal-dielectric-metal plasmonic waveguides. Optics Express, 2012, 20, 22233.	3.4	30

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37	Arbitrary vector beams with selective polarization states patterned by tailored polarizing films. <i>Laser Physics</i> , 2013, 23, 105001.	1.2	29
38	Refractive index mapping of single cells with a graphene-based optical sensor. <i>Sensors and Actuators B: Chemical</i> , 2017, 242, 41-46.	7.8	29
39	Optimized aperiodic highly directional narrowband infrared emitters. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2014, 31, 1316.	2.1	28
40	Enhancing plasmonic trapping with a perfect radially polarized beam. <i>Photonics Research</i> , 2018, 6, 847.	7.0	28
41	Dynamic plasmonic tweezers enabled single-particle-film-system gap-mode Surface-enhanced Raman scattering. <i>Applied Physics Letters</i> , 2013, 103, .	3.3	27
42	Dynamic plasmonic beam shaping by vector beams with arbitrary locally linear polarization states. <i>Applied Physics Letters</i> , 2014, 105, .	3.3	26
43	Dynamic plasmonic nano-traps for single molecule surface-enhanced Raman scattering. <i>Nanoscale</i> , 2017, 9, 10694-10700.	5.6	26
44	Switching of the direction of reflectionless light propagation at exceptional points in non-PT-symmetric structures using phase-change materials. <i>Optics Express</i> , 2017, 25, 27283.	3.4	26
45	Investigation of phase SPR biosensor for efficient targeted drug screening with high sensitivity and stability. <i>Sensors and Actuators B: Chemical</i> , 2015, 209, 313-322.	7.8	25
46	Polarization properties of subwavelength metallic gratings in visible light band. <i>Applied Physics B: Lasers and Optics</i> , 2006, 85, 139-143.	2.2	24
47	Nanoscale Plasmonic Devices Based on Metal-Dielectric-Metal Stub Resonators. <i>International Journal of Optics</i> , 2012, 2012, 1-13.	1.4	24
48	Broadband graphene-based photoacoustic microscopy with high sensitivity. <i>Nanoscale</i> , 2018, 10, 8606-8614.	5.6	24
49	Trapping metallic particles using focused Bloch surface waves. <i>Nanoscale</i> , 2020, 12, 1688-1696.	5.6	23
50	Theoretical investigation of fabrication-related disorders on the properties of subwavelength metal-dielectric-metal plasmonic waveguides. <i>Optics Express</i> , 2010, 18, 20939.	3.4	22
51	Measuring phase and polarization singularities of light using spin-multiplexing metasurfaces. <i>Nanoscale</i> , 2019, 11, 18303-18310.	5.6	22
52	Shaping perfect optical vortex with amplitude modulated using a digital micro-mirror device. <i>Optics Communications</i> , 2016, 381, 292-295.	2.1	21
53	Multifunctional geometric phase optical element for high-efficiency full Stokes imaging polarimetry. <i>Photonics Research</i> , 2019, 7, 1066.	7.0	21
54	Manipulating orbital angular momentum of light with tailored in-plane polarization states. <i>Scientific Reports</i> , 2017, 7, 41001.	3.3	20

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55	Graphene-Based Opto-Thermoelectric Tweezers. <i>Advanced Materials</i> , 2022, 34, e2107691.	21.0	20
56	Microcavity enhanced optical absorption in subwavelength slits. <i>Optics Express</i> , 2011, 19, 26850.	3.4	19
57	In-plane trapping and manipulation of ZnO nanowires by a hybrid plasmonic field. <i>Nanoscale</i> , 2016, 8, 9756-9763.	5.6	18
58	Generation of vector beams array with a single spatial light modulator. <i>Optics Communications</i> , 2021, 490, 126915.	2.1	18
59	Effective Transmission Modulation at Telecommunication Wavelengths through Continuous Metal Films Using Coupling between Borophene Plasmons and Magnetic Polaritons. <i>Advanced Optical Materials</i> , 2021, 9, 2001809.	7.3	18
60	Self-healing optical pillar array. <i>Optics Letters</i> , 2012, 37, 3540.	3.3	17
61	Tight focusing of quasi-cylindrically polarized beams. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2014, 31, 373.	1.5	17
62	Dynamic cosine-Gauss plasmonic beam through phase control. <i>Optics Express</i> , 2014, 22, 13541.	3.4	17
63	Plasmonic Manipulation of Targeted Metallic Particles by Polarization-Sensitive Metalens. <i>ACS Photonics</i> , 2018, 5, 2945-2950.	6.6	17
64	Switching photonic nanostructures between cloaking and superscattering regimes using phase-change materials [Invited]. <i>Optical Materials Express</i> , 2018, 8, 1672.	3.0	17
65	Isometrically Resolved Photoacoustic Microscopy Based on Broadband Surface Plasmon Resonance Ultrasound Sensing. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 27378-27385.	8.0	17
66	Controllable hybridization between localized and delocalized anisotropic borophene plasmons in the near-infrared region. <i>Optics Letters</i> , 2021, 46, 725.	3.3	17
67	A Phase-Shifted Surface Plasmon Resonance Sensor for Simultaneous Photoacoustic Volumetric Imaging and Spectroscopic Analysis. <i>ACS Sensors</i> , 2021, 6, 1840-1848.	7.8	17
68	Singular diffraction-free surface plasmon beams generated by overlapping phase-shifted sources. <i>Optics Letters</i> , 2013, 38, 1182.	3.3	16
69	Theoretical and Experimental Study of Surface Plasmon Radiation Force on Micrometer-Sized Spheres. <i>Plasmonics</i> , 2013, 8, 637-643.	3.4	16
70	Generating Arbitrary Order Cylindrical Vector Beams With Inherent Transform Mechanism. <i>IEEE Photonics Journal</i> , 2017, 9, 1-8.	2.0	16
71	Plasmonic petal-shaped beam for microscopic phase-sensitive SPR biosensor with ultrahigh sensitivity. <i>Optics Letters</i> , 2013, 38, 4770.	3.3	15
72	Self-imaging generation of plasmonic void arrays. <i>Optics Letters</i> , 2013, 38, 2783.	3.3	14

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73	Research progress of femtosecond surface plasmon polariton*. Chinese Physics B, 2020, 29, 027302.	1.4	14
74	Active tuning of longitudinal strong coupling between anisotropic borophene plasmons and Bloch surface waves. Optics Express, 2021, 29, 27750.	3.4	14
75	Active Modulation of Graphene Near-Infrared Electroabsorption Employing Borophene Plasmons in a Wide Waveband. Advanced Optical Materials, 2022, 10, .	7.3	13
76	Simulating photoacoustic waves produced by individual biological particles with spheroidal wave functions. Scientific Reports, 2015, 5, 14801.	3.3	12
77	Design of Compact Mach-Zehnder Interferometer-Based Slow-Light-Enhanced Plasmonic Waveguide Sensors. Journal of Lightwave Technology, 2016, 34, 2796-2803.	4.6	12
78	Sensitive Gap-Enhanced Raman Spectroscopy with a Perfect Radially Polarized Beam. Plasmonics, 2018, 13, 991-996.	3.4	12
79	Spin-orbit coupling controlled near-field propagation and focusing of Bloch surface wave. Optics Express, 2019, 27, 27536.	3.4	12
80	Properties of surface plasmon polaritons excited by generalized cylindrical vector beams. Applied Physics B: Lasers and Optics, 2015, 119, 305-311.	2.2	11
81	Optical Trapping with Focused Surface Waves. Annalen Der Physik, 2020, 532, 1900497.	2.4	11
82	Facilitated tip-enhanced Raman scattering by focused gap-plasmon hybridization. Photonics Research, 2020, 8, 103.	7.0	11
83	Single-particle trapping and dynamic manipulation with holographic optical surface-wave tweezers. Photonics Research, 2022, 10, 166.	7.0	11
84	Plasmonic and Graphene-Functionalized High-Performance Broadband Quasi-Two-Dimensional Perovskite Hybrid Photodetectors. ACS Applied Materials & Interfaces, 2021, 13, 61496-61505.	8.0	11
85	Phase-stepping technique for highly sensitive microscopic surface plasmon resonance biosensor. Applied Optics, 2014, 53, 836.	1.8	10
86	Analytic theory of photoacoustic wave generation from a spheroidal droplet. Optics Express, 2014, 22, 19953.	3.4	10
87	Improving the luminescence enhancement of hybrid Au nanoparticle-monolayer MoS ₂ by focusing radially-polarized beams. Optics Express, 2016, 24, 27554.	3.4	10
88	Few-layer metamaterials for spontaneous emission enhancement. Optics Letters, 2021, 46, 190.	3.3	10
89	Controllable propagation and transformation of chiral intensity field at focus. Optics Letters, 2020, 45, 4823.	3.3	10
90	Focal and optical trapping behaviors of radially polarized vortex beam with broken axial symmetry. AIP Advances, 2017, 7, 065109.	1.3	9

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91	Microscopic surface plasmon enhanced raman spectral imaging. Optics Communications, 2017, 392, 64-67.	2.1	9
92	Controllable transport of nanoparticles along waveguides by spin-orbit coupling of light. Optics Express, 2021, 29, 6282.	3.4	9
93	Magnetic polaritons assisted effective excitation of multi-order anisotropic borophene surface plasmons in the infrared region. Results in Physics, 2021, 29, 104780.	4.1	9
94	Flexible generation of femtosecond cylindrical vector beams (Invited Paper). Chinese Optics Letters, 2017, 15, 030007-30010.	2.9	9
95	Data transmission with up to 100 orbital angular momentum modes via commercial multi-mode fiber and parallel neural networks. Optics Express, 2022, 30, 23149.	3.4	9
96	Polarization-controlled gap-mode surface-enhanced Raman scattering with a single nanoparticle. Journal Physics D: Applied Physics, 2017, 50, 255302.	2.8	8
97	Theoretical and experimental studies on broadband photoacoustic response of surface plasmon sensing. Applied Physics Letters, 2020, 116, 243504.	3.3	8
98	Energy flow inversion in an intensity-invariant focusing field. Optics Letters, 2022, 47, 1494.	3.3	8
99	Optically stitched arbitrary fan-sectors with selective polarization states for dynamic manipulation of surface plasmon polaritons. Optics Express, 2012, 20, 24748.	3.4	7
100	Dynamic optical tweezers based assay for monitoring early drug resistance. Laser Physics Letters, 2013, 10, 065604.	1.4	7
101	Wide-field in situ multiplexed Raman imaging with superresolution. Photonics Research, 2018, 6, 530.	7.0	7
102	In Vivo Reflection-Mode Photoacoustic Microscopy Enhanced by Plasmonic Sensing with an Acoustic Cavity. ACS Sensors, 2019, 4, 2697-2705.	7.8	7
103	Broadband surface plasmon resonance sensor for fast spectroscopic photoacoustic microscopy. Photoacoustics, 2021, 24, 100305.	7.8	7
104	Tuning of longitudinal plasmonic coupling in graphene nanoribbon arrays/sheet hybrid structures at mid-infrared frequencies. Journal of the Optical Society of America B: Optical Physics, 2019, 36, 697.	2.1	7
105	Extraordinary Transmission through Metallic Grating with Subwavelength Slits for S-Polarization Illumination. Chinese Physics Letters, 2007, 24, 1600-1602.	3.3	6
106	On-chip spin-controlled orbital angular momentum directional coupling. Journal Physics D: Applied Physics, 2018, 51, 014002.	2.8	6
107	Graphene-Based Confocal Refractive Index Microscopy for Label-Free Differentiation of Living Epithelial and Mesenchymal Cells. ACS Sensors, 2020, 5, 510-518.	7.8	6
108	Drawing structured plasmonic field with on-chip metalens. Nanophotonics, 2022, 11, 1969-1976.	6.0	6

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109	Lateral forces on particles induced by magnetic spin-orbit coupling. Optics Express, 2020, 28, 13116.	3.4	6
110	Time-varying orbital angular momentum in tight focusing of ultrafast pulses. Optics Express, 2022, 30, 13416.	3.4	6
111	Investigation of enhanced and suppressed optical transmission through a cupped surface metallic grating structure. Optics Express, 2006, 14, 5657.	3.4	5
112	Nonlinear modulation on optical trapping in a plasmonic bowtie structure. Optics Express, 2021, 29, 11664.	3.4	5
113	Title is missing!. Chinese Optics Letters, 2019, 17, 062402.	2.9	5
114	Label-free identification of human glioma xenograft of mouse brain with quantitative ultraviolet photoacoustic histology imaging. Journal of Biophotonics, 2022, 15, e202100329.	2.3	5
115	In situ intracellular Raman spectroscopic detection with graphene-based thermoelectric optical tweezers. Sensors and Actuators B: Chemical, 2022, 361, 131722.	7.8	5
116	All-optical absorption switches in subwavelength metal-dielectricmetal plasmonic waveguides. , 2009, , ,		4
117	A label-free approach to kinetic analysis and high multiplex detection of targeted drugs with phase surface plasmon resonance imaging. Analytical Methods, 2015, 7, 1738-1744.	2.7	4
118	Refractive index sensing and imaging based on polarization-sensitive graphene. Optics Express, 2019, 27, 29273.	3.4	4
119	External field-strengthened Ostwald nanowelding. Nano Research, 2022, 15, 4525-4535.	10.4	4
120	Numerical Investigation of Surface Plasmons Associated Subwavelength Optical Single-Pass Effect. Chinese Physics Letters, 2007, 24, 2922-2925.	3.3	3
121	Modulation of Splitting Beam Angle with Metal-Nonlinear Optical Material-Metal (M-NL-M) Array Structure. Chinese Physics Letters, 2008, 25, 4375-4377.	3.3	3
122	Plasmonic Cross-Talking in Integrated Metallic Nanoslits. Plasmonics, 2015, 10, 1275-1281.	3.4	3
123	An optical detection method for analyzing the cellular response to paclitaxel at the single cell level. Analytical Methods, 2016, 8, 3698-3703.	2.7	3
124	Polarization and amplitude hybrid modulation of longitudinally polarized subwavelength-sized optical needle. Chinese Optics Letters, 2013, 11, 052601-52604.	2.9	3
125	Extraordinary spin-orbit interaction in the plasmonic lens with negative index material. Optics Express, 2020, 28, 26543.	3.4	3
126	Detecting cylindrical vector beams with an on-chip plasmonic spin-Hall metalens. Optics Express, 2022, 30, 10758.	3.4	3

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127	Engineered Tumor Cell Apoptosis Monitoring Method Based on Dynamic Laser Tweezers. <i>BioMed Research International</i> , 2014, 2014, 1-6.	1.9	2
128	Enhancement effect of Au claddings in tip enhanced Raman spectroscopy. <i>Optik</i> , 2019, 199, 163326.	2.9	2
129	Refraction Light Control by Constructing Output Interface Topography of Metal Waveguide Arrays. <i>Chinese Physics Letters</i> , 2008, 25, 2104-2106.	3.3	1
130	Tight focusing induced non-uniform polarization change in reflection for arbitrarily polarized incident light. <i>Optics Communications</i> , 2019, 443, 26-33.	2.1	1
131	Generalized vector diffraction model for tight focusing of light with arbitrary polarization state. <i>Optik</i> , 2020, 201, 163528.	2.9	1
132	Determination of steep sidewall angle using polarization-sensitive asymmetric scattering. <i>Measurement Science and Technology</i> , 2021, 32, 085201.	2.6	1
133	Nonlinearity-modulated single molecule trapping and Raman scattering analysis. <i>Optics Express</i> , 2021, 29, 32285.	3.4	1
134	Using phase-change materials to switch the direction of reflectionless light propagation in non-PT-symmetric structures. , 2018, , .		1
135	Controllable transportation of microparticles along structured waveguides by the plasmonic spin-hall effect. <i>Optics Express</i> , 2022, 30, 16094.	3.4	1
136	Optical singularity assisted method for accurate parameter detection of step-shaped nanostructure in coherent Fourier scatterometry. <i>Optics Express</i> , 2022, 30, 29287.	3.4	1
137	All-optical nonlinear switches based on Y-shaped plasmonic waveguides. <i>Proceedings of SPIE</i> , 2010, , .	0.8	0
138	Plasmonic Hybridization Induced Trapping and Manipulation of Metallic Nano-objects. , 2015, , .		0
139	Compact Slow-Light Enhanced Plasmonic Waveguide Refractive Index Sensors. <i>International Journal of Behavioral and Consultation Therapy</i> , 2017, , 77-108.	0.4	0
140	Few-layer metamaterials for spontaneous emission enhancement: publisher's note. <i>Optics Letters</i> , 2021, 46, 1583.	3.3	0
141	Study on Novel Nano-Heating Source Based on Plasmonic Nanotweezers. <i>Guangxue Xuebao/Acta Optica Sinica</i> , 2014, 34, 0924001.	1.2	0
142	Novel Plasmonic Microscopy: Principle and Applications. , 2016, , 1-31.		0
143	In-plane trapping and manipulation of ZnO nanowires on a metallic surface. , 2016, , .		0
144	Dynamic plasmonic trapping and manipulation of nanoparticles and nanowires. , 2016, , .		0

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145	Research progress of plasmonic structure illumination microscopy. Wuli Xuebao/Acta Physica Sinica, 2017, 66, 148701.	0.5	0
146	Novel Plasmonic Microscopy: Principle and Applications. , 2017, , 429-459.		0
147	Non-PT-symmetric plasmonic waveguide-cavity systems: unidirectional reflectionlessness and broadband near total light absorption. , 2017, , .		0
148	Reflection-mode broadband photoacoustic microscopy based on surface plasmon resonance. , 2019, , .		0