Min Gu

List of Publications by Year
in descending order

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101 papers	4,120 citations	159585 30 h-index	118850 62 g-index
101 all docs	101 docs citations	101 times ranked	5477 citing authors

#	Article	IF	Citations
1	Catenary optics for achromatic generation of perfect optical angular momentum. Science Advances, 2015, 1, e1500396.	10.3	539
2	A Metamaterial Emitter for Highly Efficient Radiative Cooling. Advanced Optical Materials, 2015, 3, 1047-1051.	7.3	462
3	Optical storage arrays: a perspective for future big data storage. Light: Science and Applications, 2014, 3, e177-e177.	16.6	355
4	Miniature chiral beamsplitter based on gyroid photonic crystals. Nature Photonics, 2013, 7, 801-805.	31.4	272
5	On-chip noninterference angular momentum multiplexing of broadband light. Science, 2016, 352, 805-809.	12.6	236
6	Exceeding the limit of plasmonic light trapping in textured screen-printed solar cells using Al nanoparticles and wrinkle-like graphene sheets. Light: Science and Applications, 2013, 2, e92-e92.	16.6	209
7	Athermally photoreduced graphene oxides for three-dimensional holographic images. Nature Communications, 2015, 6, 6984.	12.8	198
8	Graphene-based active slow surface plasmon polaritons. Scientific Reports, 2015, 5, 8443.	3.3	134
9	Upconversion fluorescent carbon nanodots enriched with nitrogen for light harvesting. Journal of Materials Chemistry, 2012, 22, 15522.	6.7	110
10	Low cost and high performance Al nanoparticles for broadband light trapping in Si wafer solar cells. Applied Physics Letters, 2012, 100, .	3.3	103
11	Towards ultra-thin plasmonic silicon wafer solar cells with minimized efficiency loss. Scientific Reports, 2014, 4, 4939.	3.3	102
12	Intrinsically core-shell plasmonic dielectric nanostructures with ultrahigh refractive index. Science Advances, 2016, 2, e1501536.	10.3	99
13	Laser printing hierarchical structures with the aid of controlled capillary-driven self-assembly. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 6876-6881.	7.1	87
14	Nanoplasmonics: a frontier of photovoltaic solar cells. Nanophotonics, 2012, 1, 235-248.	6.0	79
15	Graphene surface plasmons at the near-infrared optical regime. Scientific Reports, 2014, 4, 6559.	3.3	78
16	Gold-Nanoparticle-Enhanced Cancer Photothermal Therapy. IEEE Journal of Selected Topics in Quantum Electronics, 2010, 16, 989-996.	2.9	76
17	Fabrication methods of 3D periodic metallic nano/microstructures for photonics applications. Laser and Photonics Reviews, 2014, 8, 233-249.	8.7	53
18	Breaking the diffraction-limited resolution barrier in fiber-optical two-photon fluorescence endoscopy by an azimuthally-polarized beam. Scientific Reports, 2014, 4, 3627.	3.3	52

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19	Tweezing and manipulating micro- and nanoparticles by optical nonlinear endoscopy. Light: Science and Applications, 2014, 3, e126-e126.	16.6	50
20	Encoding Random Hot Spots of a Volume Gold Nanorod Assembly for Ultralow Energy Memory. Advanced Materials, 2017, 29, 1701918.	21.0	50
21	Direct observation of a pure focused evanescent field of a high numerical aperture objective lens by scanning near-field optical microscopy. Applied Physics Letters, 2005, 86, 131110.	3.3	49
22	Resolution and contrast enhancement of subtractive second harmonic generation microscopy with a circularly polarized vortex beam. Scientific Reports, 2015, 5, 13580.	3.3	45
23	A microfluidic refractive index sensor based on an integrated three-dimensional photonic crystal. Applied Physics Letters, 2008, 92, .	3.3	42
24	Super-resolving single nitrogen vacancy centers within single nanodiamonds using a localization microscope. Optics Express, 2013, 21, 17639.	3.4	41
25	Association betweenHelicobacter pyloriInfection and Chronic Urticaria: A Meta-Analysis. Gastroenterology Research and Practice, 2015, 2015, 1-9.	1.5	40
26	Enhanced photocurrent in crystalline silicon solar cells by hybrid plasmonic antireflection coatings. Applied Physics Letters, 2012, 101, .	3.3	38
27	Engineering Spontaneous Emission in a Quantumâ€Dotâ€Doped Polymer Nanocomposite with Threeâ€Dimensional Photonic Crystals. Advanced Materials, 2008, 20, 1329-1332.	21.0	36
28	Anomalous Fluorescence Enhancement from Double Heterostructure 3D Colloidal Photonic Crystalsâ€“A Multifunctional Fluorescence-Based Sensor Platform. Scientific Reports, 2015, 5, 14439.	3.3	35
29	Optimized Electroless Silver Coating for Optical and Plasmonic Applications. Plasmonics, 2012, 7, 633-639.	3.4	32
30	Near-field light concentration of ultra-small metallic nanoparticles for absorption enhancement in a-Si solar cells. Applied Physics Letters, 2013, 102, .	3.3	32
31	Two-photon energy transfer enhanced three-dimensional optical memory in quantum-dot and azo-dye doped polymers. Applied Physics Letters, 2008, 92, .	3.3	31
32	Functional Optical Plasmonic Resonators Fabricated via Highly Photosensitive Direct Laser Reduction. Advanced Optical Materials, 2016, 4, 529-533.	7.3	30
33	Near-field visualization of focal depth modulation by step corrugated plasmonic slits. Applied Physics Letters, 2009, 94, 151912.	3.3	29
34	Direct laser writing of three-dimensional photonic structures in Nd:yttrium aluminum garnet laser ceramics. Applied Physics Letters, 2008, 93, 151104.	3.3	25
35	Cancer-cell microsurgery using nonlinear optical endomicroscopy. Journal of Biomedical Optics, 2010, 15, 050502.	2.6	25
36	Efficiently-cooled plasmonic amorphous silicon solar cells integrated with a nano-coated heat-pipe plate. Scientific Reports, 2016, 6, 24972.	3.3	25

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37	Long wavelength emissions of periodic yard-glass shaped boron nitride nanotubes. Applied Physics Letters, 2009, 94, 023105.	3.3	18
38	Metamaterials: A Metamaterial Emitter for Highly Efficient Radiative Cooling (Advanced Optical) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 70	7.3	15
39	Helicobacter pyloriInfection in Dialysis Patients: A Meta-Analysis. Gastroenterology Research and Practice, 2013, 2013, 1-10.	1.5	14
40	Orientation-dependent local density of states in three-dimensional photonic crystals. Physical Review A, 2012, 85, .	2.5	13
41	Effect of refractive index mismatch aberration in arsenic trisulfide. Applied Physics B: Lasers and Optics, 2012, 109, 227-232.	2.2	13
42	Fabrication of Lowâ€Threshold 3D Void Structures inside a Polymer Matrix Doped with Gold Nanorods. Advanced Functional Materials, 2008, 18, 2237-2245.	14.9	12
43	Frontiers in diffraction unlimited optical methods for spin manipulation, magnetic field sensing and imaging using diamond nitrogen vacancy defects. Nanophotonics, 2012, 1, 139-153.	6.0	12
44	Normalized Polarization Ratios for the Analysis of Cell Polarity. PLoS ONE, 2014, 9, e99885.	2.5	12
45	Decomposition Kinetics, Life Estimation, and Dielectric Study of an Acrylate based Photopolymer for Microfabrication and Photonic Applications. Macromolecular Chemistry and Physics, 2005, 206, 1659-1664.	2.2	11
46	Dense small molecule labeling enables activator-dependent STORM by proximity mapping. Histochemistry and Cell Biology, 2016, 146, 255-266.	1.7	11
47	Enhancement of spontaneous emission in three-dimensional low refractive-index photonic crystals with designed defects. Applied Physics Letters, 2012, 101, 071109.	3.3	10
48	Exciton-plasmon coupling mediated photorefractivity in gold-nanoparticle- and quantum-dot-dispersed polymers. Applied Physics Letters, 2013, 102, 251115.	3.3	9
49	Tuning the Refractive Index in Gyroid Photonic Crystals via Leadâ€Chalcogenide Nanocrystal Coating. Advanced Optical Materials, 2016, 4, 226-230.	7.3	8
50	Ground-State Depletion Nanoscopy of Nitrogen-Vacancy Centres in Nanodiamonds. Nanoscale Research Letters, 2021, 16, 44.	5.7	8
51	Near-field optical trapping with an ultrashort pulsed laser beam. Applied Physics Letters, 2008, 92, 081108.	3.3	6
52	Type-II core/shell nanoparticle induced photorefractivity. Applied Physics Letters, 2011, 98, 231107.	3.3	6
53	Plasmonic light trapping for wavelength-scale silicon solar absorbers. Frontiers of Optoelectronics, 2016, 9, 277-282.	3.7	6
54	Lightâ€Controlâ€Light Nanoplasmonic Modulator for 3D Microâ€optical Beam Shaping. Advanced Optical Materials, 2016, 4, 70-75.	7.3	6

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55	Enhanced photorefractive performance in CdSe quantum-dot-dispersed poly(styrene-co-acrylonitrile) polymers. Applied Physics Letters, 2010, 96, 253302.	3.3	5
56	Detection of the ODMR signal of a nitrogen vacancy centre in nanodiamond in propagating surface plasmons. Journal of Optics (United Kingdom), 2018, 20, 035001.	2.2	5
57	Optomagnetic plasmonic nanocircuits. Nanoscale Advances, 2019, 1, 3131-3138.	4.6	5
58	Chip-integrated plasmonic Schottky photodetection based on hybrid silicon waveguides. Applied Physics B: Lasers and Optics, 2017, 123, 1.	2.2	3
59	Two-photon-excited photoluminescence and heating of gold nanorods through absorption of supercontinuum light. Applied Physics B: Lasers and Optics, 2013, 112, 153-158.	2.2	2
60	Next generation photonic storage: Ultra-high capacity, ultra-high security and ultra-long lifetime. , 2013, , .		2
61	Hybrid Highâ€Resolution Threeâ€Dimensional Nanofabrication for Metamaterials and Nanoplasmonics (Adv. Mater. 9/2013). Advanced Materials, 2013, 25, 1259-1259.	21.0	2
62	Fabrication of microchannels in PMMA by femtosecond laser pulses. , 2006, , .		1
63	Functionalisation of gold nanorods and its application to optical data storage. , 2006, , .		1
64	Active three-dimensional photonic crystals with high third-order nonlinearity in telecommunication. , 2009, , .		1
65	Characterisation of a plasmonic lens for super-resolution optical data storage. , 2011, , .		1
66	Super-resolution nanolithography in photoreduction polymers. , 2011, , .		1
67	Silicon Solar Cells: Graphenized Carbon Nanofiber: A Novel Light-Trapping and Conductive Material to Achieve an Efficiency Breakthrough in Silicon Solar Cells (Adv. Mater. 5/2015). Advanced Materials, 2015, 27, 848-848.	21.0	1
68	Gold Nanorods: Encoding Random Hot Spots of a Volume Gold Nanorod Assembly for Ultralow Energy Memory (Adv. Mater. 35/2017). Advanced Materials, 2017, 29, .	21.0	1
69	Penetration depth in multi-photon fluorescence microscopy. , 0, , .		0
70	Multidimensional optical data storage. , 0, , .		0
71	Near-field laser tweezers. , 0, , .		0
72	Tuning of defects embedded within three-dimensional photonic crystals. , 2005, , .		0

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73	Focused evanescent field under radially polarized beam illumination. , 2005, , .		0
74	A nonlinear optical microscope based on double-clad photonic crystal fibers. , 0, , .		0
75	Excitation of whispering gallery modes by two-photon absorption induced by evanescent field. , 2006, , .		0
76	Two-photon-induced two-state polarisation encoding in 2,5-dimethyl-4-(p-nitrophenylazo)anisole doped polymer. , 2006, , .		0
77	Infiltration of quantum dots into 3D photonic crystals fabricated by the two-photon polymerisation technique. , 2006, , .		0
78	Incorporation of Quantum Dots into 3D Photonic Crystals for Emission Control. , 2006, , .		0
79	Fabrication of 3D photonic crystals in lithium niobate by use of femtosecond laser-induced microexplosion. , 2006, , .		0
80	Two-photon induced optical recording in quantumdot-based photorefractive materials. , 2006, , .		0
81	Near-field mapping of three-dimensional woodpile photonic crystals by using supercontinuum generation. , 2007, , .		0
82	Spectral redistribution in spontaneous emission from quantum dot infiltrated three-dimensional photonic crystals. , 2007, , .		0
83	The optical Hall effect in tightly focused light beams. , 2007, , .		0
84	Combining optical tweezing and confocal microscopy for the study of cell mechanics. , 2007, , .		0
85	Inside Front Cover: Fabrication of Lowâ€Threshold 3D Void Structures inside a Polymer Matrix Doped with Gold Nanorods (Adv. Funct. Mater. 15/2008). Advanced Functional Materials, 2008, 18, .	14.9	0
86	Engineering optical fibres for nonlinear optical endoscopy. , 2008, , .		0
87	Two-photon imaging and photothermal therapy of cancer cells using biofunctional gold nanorods. , 2008, , .		0
88	Nanophotonics for life. , 2009, , .		0
89	Polarisation characterisation in the focal region of a high numerical aperture objective under radial polarisation illumination. , 2009, , .		0
90	Direct visualization of focusing effect of step corrugated nanoplasmonic slits. , 2009, , .		0

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91	Nonlinear optical endoscopy enabled by fibre-based dispersion compensation. , 2010, , .		0
92	New photoresists for super-resolution photo-inhibition nanofabrication. , 2011, , .		0
93	Direct laser writing with a slit-beam dynamically controlled with a phase spatial light modulator. , 2011, , .		0
94	High resolution fabrication in chalcogenide glasses. , 2011, , .		0
95	Two-photon induced photoluminance of gold nanorods using cylindrical vector beams. , 2011, , .		0
96	Two-photon induced three-dimensional optical data storage based on a compact DVD optical head. , 2011, , .		0
97	Characterisation and optimisation of photonic crystal superlens for super-resolution nanoscopy. , 2011, , .		0
98	Three-dimensional gyriod photonic microstructures. , 2012, , .		0
99	Gyroids: Tuning the Refractive Index in Gyroid Photonic Crystals via Leadâ€Chalcogenide Nanocrystal Coating (Advanced Optical Materials 2/2016). Advanced Optical Materials, 2016, 4, 225-225.	7.3	0
100	High density optical data storage and fabrication of photonic crystals in photorefractive polymers for optical communications and networks. , 2002, , .		0
101	Integration of three dimensional photonic crystals for refractive index sensing in microfluidics. , 2008, , .		0