

Ming-Ming Jiang

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91
ext. papers

2,221
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L-index

#	Paper	IF	Citations
84	Solar-Blind Avalanche Photodetector Based On Single ZnO-Ga ₂ O ₃ Core-Shell Microwire. <i>Nano Letters</i> , 2015 , 15, 3988-93	11.5	258
83	Realization of a self-powered ZnO MSM UV photodetector with high responsivity using an asymmetric pair of Au electrodes. <i>Journal of Materials Chemistry C</i> , 2014 , 2, 9689-9694	7.1	130
82	Highly Wavelength-Selective Enhancement of Responsivity in Ag Nanoparticle-Modified ZnO UV Photodetector. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 5574-5579	9.5	96
81	Broadband Photoresponse Enhancement of a High-Performance t-Se Microtube Photodetector by Plasmonic Metallic Nanoparticles. <i>Advanced Functional Materials</i> , 2016 , 26, 6641-6648	15.6	94
80	ZnO Film UV Photodetector with Enhanced Performance: Heterojunction with CdMoO Microplates and the Hot Electron Injection Effect of Au Nanoparticles. <i>Small</i> , 2017 , 13, 1702177	11	84
79	Photoconductive gain in solar-blind ultraviolet photodetector based on Mg _{0.52} Zn _{0.48} O thin film. <i>Applied Physics Letters</i> , 2011 , 99, 242105	3.4	60
78	Wavelength-Tunable Electroluminescent Light Sources from Individual Ga-Doped ZnO Microwires. <i>Small</i> , 2017 , 13, 1604034	11	50
77	Graphene surface plasmon induced optical field confinement and lasing enhancement in ZnO whispering-gallery microcavity. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 10469-75	9.5	49
76	Hybrid quadrupolar resonances stimulated at short wavelengths using coupled plasmonic silver nanoparticle aggregation. <i>Journal of Materials Chemistry C</i> , 2014 , 2, 56-63	7.1	37
75	Electrically pumped Fabry-Perot microlasers from single Ga-doped ZnO microbelt based heterostructure diodes. <i>Nanoscale</i> , 2018 , 10, 18774-18785	7.7	37
74	Lasing mode regulation and single-mode realization in ZnO whispering gallery microcavities by the Vernier effect. <i>Nanoscale</i> , 2016 , 8, 16631-9	7.7	36
73	Wavelength-Tunable Ultraviolet Electroluminescence from Ga-Doped ZnO Microwires. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 40743-40751	9.5	35
72	Highly Desirable Photodetectors Derived from Versatile Plasmonic Nanostructures. <i>Advanced Functional Materials</i> , 2017 , 27, 1704181	15.6	35
71	Plasmon-Induced Accelerated Exciton Recombination Dynamics in ZnO/Ag Hybrid Nanolasers. <i>ACS Photonics</i> , 2017 , 4, 2419-2424	6.3	33
70	Plasmon coupled Fabry-Perot lasing enhancement in graphene/ZnO hybrid microcavity. <i>Scientific Reports</i> , 2015 , 5, 9263	4.9	33
69	Piezophototronic-Effect-Enhanced Electrically Pumped Lasing. <i>Advanced Materials</i> , 2017 , 29, 1602832	24	31
68	Enhanced solar-blind responsivity of photodetectors based on cubic MgZnO films via gallium doping. <i>Optics Express</i> , 2014 , 22, 246-53	3.3	30

67	Single-mode lasing and 3D confinement from perovskite micro-cubic cavity. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 11740-11748	7.1	30
66	Wavelength-Tunable Waveguide Emissions from Electrically Driven Single ZnO/ZnO:Ga Superlattice Microwires. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 11800-11811	9.5	28
65	High-Temperature Upconverted Single-Mode Lasing in 3D Fully Inorganic Perovskite Microcubic Cavity. <i>ACS Photonics</i> , 2019 , 6, 793-801	6.3	26
64	Alloyed Au-Ag nanorods with desired plasmonic properties and stability in harsh environments. <i>Photonics Research</i> , 2019 , 7, 558	6	25
63	Mott-type Mg _x Zn _{1-x} O-based visible-blind ultraviolet photodetectors with active anti-reflection layer. <i>Applied Physics Letters</i> , 2013 , 102, 231122	3.4	24
62	Electrically driven lasers from van der Waals heterostructures. <i>Nanoscale</i> , 2018 , 10, 9602-9607	7.7	23
61	Nonequilibrium hot-electron-induced wavelength-tunable incandescent-type light sources. <i>Photonics Research</i> , 2020 , 8, 91	6	23
60	Effect of compressive stress on stability of N-doped p-type ZnO. <i>Applied Physics Letters</i> , 2011 , 99, 091908	3.4	22
59	Novel EShaped CoreShell Photodetector with High Ultraviolet Selectivity and Enhanced Responsivity. <i>Advanced Functional Materials</i> , 2017 , 27, 1704477	15.6	21
58	Electrically excited hot-electron dominated fluorescent emitters using individual Ga-doped ZnO microwires via metal quasiparticle film decoration. <i>Nanoscale</i> , 2018 , 10, 5678-5688	7.7	21
57	Tunable enhancement of exciton emission from MgZnO by hybridized quadrupole plasmons in Ag nanoparticle aggregation. <i>Applied Physics Letters</i> , 2014 , 104, 091119	3.4	21
56	Dynamic regulating of single-mode lasing in ZnO microcavity by piezoelectric effect. <i>Materials Today</i> , 2019 , 24, 33-40	21.8	21
55	Sb-Doped ZnO microwires: emitting filament and homojunction light-emitting diodes. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 10938-10946	7.1	18
54	Hybrid quadrupole plasmon induced spectrally pure ultraviolet emission from a single AgNPs@ZnO:Ga microwire based heterojunction diode. <i>Nanoscale Advances</i> , 2020 , 2, 1340-1351	5.1	18
53	Construction of silica-encapsulated gold-silver core-shell nanorod: Atomic facets enrichment and plasmon enhanced catalytic activity with high stability and reusability. <i>Materials and Design</i> , 2019 , 177, 107837	8.1	17
52	Graphene induced high-Q hybridized plasmonic whispering gallery mode microcavities. <i>Optics Express</i> , 2014 , 22, 23836-50	3.3	17
51	Electrically driven plasmon mediated energy transfer between ZnO microwires and Au nanoparticles. <i>Nanoscale</i> , 2015 , 7, 1081-9	7.7	16
50	Microcrystal modulated exciton-polariton emissions from single ZnO@ZnO:Ga microwire. <i>Photonics Research</i> , 2020 , 8, 175	6	16

49	Near-infrared light-emitting devices from individual heavily Ga-doped ZnO microwires. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 2542-2551	7.1	15
48	Plasmon-enhanced ultraviolet photoluminescence from the hybrid plasmonic Fabry-Perot microcavity of Ag/ZnO microwires. <i>Nanoscale</i> , 2014 , 6, 1354-61	7.7	15
47	Flexible ultraviolet photodetector based on single ZnO microwire/polyaniline heterojunctions. <i>Optics Express</i> , 2021 , 29, 19202-19213	3.3	14
46	Random lasing realized in n-ZnO/p-MgZnO core-shell nanowire heterostructures. <i>CrystEngComm</i> , 2015 , 17, 3917-3922	3.3	13
45	Intense electroluminescence from ZnO nanowires. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 5292-5296	7.1	12
44	Light-Emitting Devices Modulated by Multilevel Resistive Memories. <i>ACS Photonics</i> , 2018 , 5, 1006-1011	6.3	12
43	Ultraviolet Lasers Realized via Electrostatic Doping Method. <i>Scientific Reports</i> , 2015 , 5, 13641	4.9	12
42	Fluorescent incandescent light sources from individual quadrilateral ZnO microwire via Ga-incorporation. <i>Optics Express</i> , 2019 , 27, 33298-33311	3.3	11
41	Linearly polarized lasing based on coupled perovskite microspheres. <i>Nanoscale</i> , 2020 , 12, 5805-5811	7.7	11
40	Broad-band lead halide perovskite quantum dot single-mode lasers. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 13642-13647	7.1	11
39	Core-spacer-shell structured NaGdF ₄ :Yb ³⁺ /Er ³⁺ @NaGdF ₄ @Ag nanoparticles for plasmon-enhanced upconversion luminescence. <i>RSC Advances</i> , 2016 , 6, 36528-36533	3.7	11
38	Single-mode lasing of CsPbBr perovskite NWs enabled by the Vernier effect. <i>Nanoscale</i> , 2021 , 13, 4432-4438	7.7	11
37	High-mobility induced high-performance self-powered ultraviolet photodetector based on single ZnO microwire/PEDOT:PSS heterojunction via slight Ga-doping. <i>Journal of Materials Science and Technology</i> , 2021 , 93, 33-40	9.1	11
36	Tailoring the electroluminescence of a single microwire based heterojunction diode using Ag nanowires deposition. <i>CrystEngComm</i> , 2020 , 22, 2227-2237	3.3	10
35	Tunability of hybridized plasmonic waveguide mediated by surface plasmon polaritons. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 16233-40	3.6	10
34	Doping Concentration Influenced Pyro-Phototronic Effect in Self-Powered Photodetector Based on Ga-Incorporated ZnO Microwire/p+-GaN Heterojunction. <i>Advanced Optical Materials</i> , 2021 , 9, 2101851	8.1	9
33	Transparent ultraviolet photovoltaic cells. <i>Optics Letters</i> , 2016 , 41, 685-8	3	8
32	Enhanced emission from ZnO-based double heterostructure light-emitting devices using a distributed Bragg reflector. <i>RSC Advances</i> , 2014 , 4, 16578-16582	3.7	8

31	Employing rhodium tripod stars for ultraviolet plasmon enhanced Fabry-Perot mode lasing. <i>CrystEngComm</i> , 2020 , 22, 5578-5586	3.3	8
30	Electrical-pumping spasing action from cross-stacked microwires. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 10933-10944	7.1	7
29	High performance lasing in a single ZnO microwire using Rh nanocubes. <i>Optics Express</i> , 2020 , 28, 20920-20929	3.9	7
28	An electrically driven whispering gallery polariton microlaser. <i>Nanoscale</i> , 2021 , 13, 5448-5459	7.7	7
27	A single microwire near-infrared exciton-polariton light-emitting diode. <i>Nanoscale</i> , 2021 , 13, 1663-1672	7.7	7
26	Hot electron injection induced electron-hole plasma lasing in a single microwire covered by large size Ag nanoparticles. <i>CrystEngComm</i> , 2020 , 22, 4393-4403	3.3	6
25	Plasmon-enhanced high-performance Si-based light sources by incorporating alloyed Au and Ag nanorods. <i>CrystEngComm</i> , 2020 , 22, 6106-6115	3.3	6
24	Facile synthesized ZnO microcrystals for random microlasers and incandescent-type light sources. <i>CrystEngComm</i> , 2019 , 21, 6772-6783	3.3	6
23	Self-powered ultraviolet photodetector based on an n-ZnO:Ga microwire/p-Si heterojunction with the performance enhanced by a pyro-phototronic effect. <i>Optics Express</i> , 2021 , 29, 30244-30258	3.3	6
22	Enhanced luminescence/photodetecting bifunctional devices based on ZnO:Ga microwire/p-Si heterojunction by incorporating Ag nanowires. <i>Nanoscale Advances</i> , 2021 , 3, 5605-5617	5.1	5
21	Plasmon-enhanced strong exciton-polariton coupling in single microwire-based heterojunction light-emitting diodes. <i>Optics Express</i> , 2021 , 29, 1023-1036	3.3	5
20	Dielectric function modelling and sensitivity forecast for Au-Ag alloy nanostructures. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 14932-14940	3.6	4
19	Control of N/N ₂ species ratio in NO plasma for p-type doping of ZnO. <i>Journal of Applied Physics</i> , 2011 , 110, 053305	2.5	4
18	Continuous-wave operation of an electrically pumped single microribbon based Fabry-Perot microlaser. <i>Optics Express</i> , 2021 , 29, 983-995	3.3	4
17	Lasing behavior modulation in a layered cylindrical microcavity. <i>Applied Physics B: Lasers and Optics</i> , 2015 , 118, 93-100	1.9	3
16	Wavelength tunable single-mode lasing from cesium lead halide perovskite microwires. <i>Applied Physics Letters</i> , 2021 , 118, 071103	3.4	3
15	Wavelength-Tunable Green Light Sources Based on ZnO:Ga Nanowire/p-InGaN Heterojunctions. <i>ACS Applied Nano Materials</i> ,	5.6	3
14	Gold nanobipyramid enveloped in alloyed nanoshell for stable plasmonic sensors. <i>Journal Physics D: Applied Physics</i> , 2020 , 53, 295303	3	2

13	Plasmon-enabled spectrally narrow ultraviolet luminescence device using Pt nanoparticles covered one microwire-based heterojunction. <i>Optics Express</i> , 2021 , 29, 21783-21794	3.3	2
12	Plasmonic enhancement of current-driven whispering gallery polariton device of single microwire based heterojunction via Rh nanocubes deposition. <i>Journal of Luminescence</i> , 2021 , 235, 118016	3.8	2
11	Pt nanoparticles utilized as efficient ultraviolet plasmons for enhancing whispering gallery mode lasing of a ZnO microwire via Ga-incorporation. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 6438-6447	3.6	2
10	Continuous-wave operation of electrically driven single mode microlaser. <i>Applied Physics Letters</i> , 2022 , 120, 011105	3.4	1
9	Single microwire based smart color-switchable light-emitting diode. <i>Optics and Lasers in Engineering</i> , 2021 , 138, 106433	4.6	1
8	Higher-performance Fabry-Perot microlaser enabled by a quadrilateral microwire via Ag nanowires decoration. <i>Optical Materials</i> , 2021 , 120, 111419	3.3	1
7	Electrically driven whispering-gallery-mode microlasers in an n-MgO@ZnO:Ga microwire/p-GaN heterojunction. <i>Optics Express</i> , 2022 , 30, 18273	3.3	1
6	Doping Concentration Influenced Pyro-Phototronic Effect in Self-Powered Photodetector Based on Ga-Incorporated ZnO Microwire/p + -GaN Heterojunction (Advanced Optical Materials 2/2022). <i>Advanced Optical Materials</i> , 2022 , 10, 2270006	8.1	0
5	Electron-hole plasma Fabry-Perot lasing in a Ga-incorporated ZnO microbelt via Ag nanoparticle deposition.. <i>Optics Express</i> , 2022 , 30, 740-753	3.3	0
4	Vertically-aligned ZnO microrod for high-brightness light source. <i>CrystEngComm</i> , 2020 , 22, 6453-6464	3.3	0
3	Dynamic regulating of lasing mode in a whispering-gallery microresonator by thermo-optic effect. <i>Applied Physics Letters</i> , 2021 , 119, 131103	3.4	0
2	An electrically driven single microribbon based near-infrared exciton-polariton light-emitting diode. <i>CrystEngComm</i> , 2021 , 23, 4336-4343	3.3	
1	Plasmon-enhanced strong exciton-polariton coupling in single microwire-based heterojunction light-emitting diodes: erratum. <i>Optics Express</i> , 2021 , 29, 5795-5797	3.3	