

# Ming-Ming Jiang

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

84

papers

1,828

citations

23

h-index

40

g-index

91

ext. papers

2,221

ext. citations

6.2

avg, IF

5.06

L-index

#	Paper	IF	Citations
84	Doping Concentration Influenced Pyro-Phototronic Effect in Self-Powered Photodetector Based on Ga-Incorporated ZnO Microwire/p + -GaN Heterojunction ( <i>Advanced Optical Materials</i> 2/2022). <i>Advanced Optical Materials</i> , <b>2022</b> , 10, 2270006	8.1	0
83	Electron-hole plasma Fabry-Perot lasing in a Ga-incorporated ZnO microbelt via Ag nanoparticle deposition.. <i>Optics Express</i> , <b>2022</b> , 30, 740-753	3.3	0
82	Continuous-wave operation of electrically driven single mode microlaser. <i>Applied Physics Letters</i> , <b>2022</b> , 120, 011105	3.4	1
81	Electrically driven whispering-gallery-mode microlasers in an n-MgO@ZnO:Ga microwire/p-GaN heterojunction. <i>Optics Express</i> , <b>2022</b> , 30, 18273	3.3	1
80	Flexible ultraviolet photodetector based on single ZnO microwire/polyaniline heterojunctions. <i>Optics Express</i> , <b>2021</b> , 29, 19202-19213	3.3	14
79	Plasmon-enabled spectrally narrow ultraviolet luminescence device using Pt nanoparticles covered one microwire-based heterojunction. <i>Optics Express</i> , <b>2021</b> , 29, 21783-21794	3.3	2
78	Plasmonic enhancement of current-driven whispering gallery polariton device of single microwire based heterojunction via Rh nanocubes deposition. <i>Journal of Luminescence</i> , <b>2021</b> , 235, 118016	3.8	2
77	Single microwire based smart color-switchable light-emitting diode. <i>Optics and Lasers in Engineering</i> , <b>2021</b> , 138, 106433	4.6	1
76	An electrically driven whispering gallery polariton microlaser. <i>Nanoscale</i> , <b>2021</b> , 13, 5448-5459	7.7	7
75	A single microwire near-infrared exciton-polariton light-emitting diode. <i>Nanoscale</i> , <b>2021</b> , 13, 1663-1672	7.7	7
74	Enhanced luminescence/photodetecting bifunctional devices based on ZnO:Ga microwire/p-Si heterojunction by incorporating Ag nanowires. <i>Nanoscale Advances</i> , <b>2021</b> , 3, 5605-5617	5.1	5
73	An electrically driven single microribbon based near-infrared exciton-polariton light-emitting diode. <i>CrystEngComm</i> , <b>2021</b> , 23, 4336-4343	3.3	
72	Plasmon-enhanced strong exciton-polariton coupling in single microwire-based heterojunction light-emitting diodes. <i>Optics Express</i> , <b>2021</b> , 29, 1023-1036	3.3	5
71	Single-mode lasing of CsPbBr perovskite NWs enabled by the Vernier effect. <i>Nanoscale</i> , <b>2021</b> , 13, 4432-4438	4.7	11
70	Wavelength tunable single-mode lasing from cesium lead halide perovskite microwires. <i>Applied Physics Letters</i> , <b>2021</b> , 118, 071103	3.4	3
69	Plasmon-enhanced strong exciton-polariton coupling in single microwire-based heterojunction light-emitting diodes: erratum. <i>Optics Express</i> , <b>2021</b> , 29, 5795-5797	3.3	
68	Dynamic regulating of lasing mode in a whispering-gallery microresonator by thermo-optic effect. <i>Applied Physics Letters</i> , <b>2021</b> , 119, 131103	3.4	0

67	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> , <b>2021</b> , 29, 30244-30258	3.3	6
66	Higher-performance Fabry-Perot microlaser enabled by a quadrilateral microwire via Ag nanowires decoration. <i>Optical Materials</i> , <b>2021</b> , 120, 111419	3.3	1
65	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> , <b>2021</b> , 93, 33-40	9.1	11
64	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> , <b>2021</b> , 23, 6438-6447	3.6	2
63	Continuous-wave operation of an electrically pumped single microribbon based Fabry-Perot microlaser. <i>Optics Express</i> , <b>2021</b> , 29, 983-995	3.3	4
62	Dielectric function modelling and sensitivity forecast for Au-Ag alloy nanostructures. <i>Physical Chemistry Chemical Physics</i> , <b>2020</b> , 22, 14932-14940	3.6	4
61	Hot electron injection induced electron-hole plasma lasing in a single microwire covered by large size Ag nanoparticles. <i>CrystEngComm</i> , <b>2020</b> , 22, 4393-4403	3.3	6
60	Hybrid quadrupole plasmon induced spectrally pure ultraviolet emission from a single AgNPs@ZnO:Ga microwire based heterojunction diode. <i>Nanoscale Advances</i> , <b>2020</b> , 2, 1340-1351	5.1	18
59	Tailoring the electroluminescence of a single microwire based heterojunction diode using Ag nanowires deposition. <i>CrystEngComm</i> , <b>2020</b> , 22, 2227-2237	3.3	10
58	Gold nanobipyramid enveloped in alloyed nanoshell for stable plasmonic sensors. <i>Journal Physics D: Applied Physics</i> , <b>2020</b> , 53, 295303	3	2
57	High performance lasing in a single ZnO microwire using Rh nanocubes. <i>Optics Express</i> , <b>2020</b> , 28, 20920-20929	3.9	7
56	Nonequilibrium hot-electron-induced wavelength-tunable incandescent-type light sources. <i>Photonics Research</i> , <b>2020</b> , 8, 91	6	23
55	Microcrystal modulated exciton-polariton emissions from single ZnO@ZnO:Ga microwire. <i>Photonics Research</i> , <b>2020</b> , 8, 175	6	16
54	Linearly polarized lasing based on coupled perovskite microspheres. <i>Nanoscale</i> , <b>2020</b> , 12, 5805-5811	7.7	11
53	Vertically-aligned ZnO microrod for high-brightness light source. <i>CrystEngComm</i> , <b>2020</b> , 22, 6453-6464	3.3	0
52	Plasmon-enhanced high-performance Si-based light sources by incorporating alloyed Au and Ag nanorods. <i>CrystEngComm</i> , <b>2020</b> , 22, 6106-6115	3.3	6
51	Employing rhodium tripod stars for ultraviolet plasmon enhanced Fabry-Perot mode lasing. <i>CrystEngComm</i> , <b>2020</b> , 22, 5578-5586	3.3	8
50	Broad-band lead halide perovskite quantum dot single-mode lasers. <i>Journal of Materials Chemistry C</i> , <b>2020</b> , 8, 13642-13647	7.1	11

49	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> , <b>2019</b> , 177, 107837	8.1	17
48	Wavelength-Tunable Waveguide Emissions from Electrically Driven Single ZnO/ZnO:Ga Superlattice Microwires. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 11800-11811	9.5	28
47	Electrical-pumping spasing action from cross-stacked microwires. <i>Journal of Materials Chemistry C</i> , <b>2019</b> , 7, 10933-10944	7.1	7
46	Fluorescent incandescent light sources from individual quadrilateral ZnO microwire via Ga-incorporation. <i>Optics Express</i> , <b>2019</b> , 27, 33298-33311	3.3	11
45	Alloyed Au-Ag nanorods with desired plasmonic properties and stability in harsh environments. <i>Photonics Research</i> , <b>2019</b> , 7, 558	6	25
44	High-Temperature Upconverted Single-Mode Lasing in 3D Fully Inorganic Perovskite Microcubic Cavity. <i>ACS Photonics</i> , <b>2019</b> , 6, 793-801	6.3	26
43	Facile synthesized ZnO microcrystals for random microlasers and incandescent-type light sources. <i>CrystEngComm</i> , <b>2019</b> , 21, 6772-6783	3.3	6
42	Dynamic regulating of single-mode lasing in ZnO microcavity by piezoelectric effect. <i>Materials Today</i> , <b>2019</b> , 24, 33-40	21.8	21
41	Electrically excited hot-electron dominated fluorescent emitters using individual Ga-doped ZnO microwires via metal quasiparticle film decoration. <i>Nanoscale</i> , <b>2018</b> , 10, 5678-5688	7.7	21
40	Electrically driven lasers from van der Waals heterostructures. <i>Nanoscale</i> , <b>2018</b> , 10, 9602-9607	7.7	23
39	Light-Emitting Devices Modulated by Multilevel Resistive Memories. <i>ACS Photonics</i> , <b>2018</b> , 5, 1006-1011	6.3	12
38	Single-mode lasing and 3D confinement from perovskite micro-cubic cavity. <i>Journal of Materials Chemistry C</i> , <b>2018</b> , 6, 11740-11748	7.1	30
37	Electrically pumped Fabry-Perot microlasers from single Ga-doped ZnO microbelt based heterostructure diodes. <i>Nanoscale</i> , <b>2018</b> , 10, 18774-18785	7.7	37
36	Highly Wavelength-Selective Enhancement of Responsivity in Ag Nanoparticle-Modified ZnO UV Photodetector. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 5574-5579	9.5	96
35	Near-infrared light-emitting devices from individual heavily Ga-doped ZnO microwires. <i>Journal of Materials Chemistry C</i> , <b>2017</b> , 5, 2542-2551	7.1	15
34	Wavelength-Tunable Electroluminescent Light Sources from Individual Ga-Doped ZnO Microwires. <i>Small</i> , <b>2017</b> , 13, 1604034	11	50
33	Plasmon-Induced Accelerated Exciton Recombination Dynamics in ZnO/Ag Hybrid Nanolasers. <i>ACS Photonics</i> , <b>2017</b> , 4, 2419-2424	6.3	33
32	Wavelength-Tunable Ultraviolet Electroluminescence from Ga-Doped ZnO Microwires. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 40743-40751	9.5	35

31	Highly Desirable Photodetectors Derived from Versatile Plasmonic Nanostructures. <i>Advanced Functional Materials</i> , <b>2017</b> , 27, 1704181	15.6	35
30	Sb-Doped ZnO microwires: emitting filament and homojunction light-emitting diodes. <i>Journal of Materials Chemistry C</i> , <b>2017</b> , 5, 10938-10946	7.1	18
29	Novel E-Shaped Core-Shell Photodetector with High Ultraviolet Selectivity and Enhanced Responsivity. <i>Advanced Functional Materials</i> , <b>2017</b> , 27, 1704477	15.6	21
28	ZnO Film UV Photodetector with Enhanced Performance: Heterojunction with CdMoO Microplates and the Hot Electron Injection Effect of Au Nanoparticles. <i>Small</i> , <b>2017</b> , 13, 1702177	11	84
27	Piezophototronic-Effect-Enhanced Electrically Pumped Lasing. <i>Advanced Materials</i> , <b>2017</b> , 29, 1602832	24	31
26	Broadband Photoresponse Enhancement of a High-Performance t-Se Microtube Photodetector by Plasmonic Metallic Nanoparticles. <i>Advanced Functional Materials</i> , <b>2016</b> , 26, 6641-6648	15.6	94
25	Transparent ultraviolet photovoltaic cells. <i>Optics Letters</i> , <b>2016</b> , 41, 685-8	3	8
24	Lasing mode regulation and single-mode realization in ZnO whispering gallery microcavities by the Vernier effect. <i>Nanoscale</i> , <b>2016</b> , 8, 16631-9	7.7	36
23	Core-spacer-shell structured NaGdF <sub>4</sub> :Yb <sup>3+</sup> /Er <sup>3+</sup> @NaGdF <sub>4</sub> @Ag nanoparticles for plasmon-enhanced upconversion luminescence. <i>RSC Advances</i> , <b>2016</b> , 6, 36528-36533	3.7	11
22	Plasmon coupled Fabry-Perot lasing enhancement in graphene/ZnO hybrid microcavity. <i>Scientific Reports</i> , <b>2015</b> , 5, 9263	4.9	33
21	Intense electroluminescence from ZnO nanowires. <i>Journal of Materials Chemistry C</i> , <b>2015</b> , 3, 5292-5296	7.1	12
20	Solar-Blind Avalanche Photodetector Based On Single ZnO-GaN Core-Shell Microwire. <i>Nano Letters</i> , <b>2015</b> , 15, 3988-93	11.5	258
19	Lasing behavior modulation in a layered cylindrical microcavity. <i>Applied Physics B: Lasers and Optics</i> , <b>2015</b> , 118, 93-100	1.9	3
18	Electrically driven plasmon mediated energy transfer between ZnO microwires and Au nanoparticles. <i>Nanoscale</i> , <b>2015</b> , 7, 1081-9	7.7	16
17	Ultraviolet Lasers Realized via Electrostatic Doping Method. <i>Scientific Reports</i> , <b>2015</b> , 5, 13641	4.9	12
16	Random lasing realized in n-ZnO/p-MgZnO core-shell nanowire heterostructures. <i>CrystEngComm</i> , <b>2015</b> , 17, 3917-3922	3.3	13
15	Enhanced emission from ZnO-based double heterostructure light-emitting devices using a distributed Bragg reflector. <i>RSC Advances</i> , <b>2014</b> , 4, 16578-16582	3.7	8
14	Tunability of hybridized plasmonic waveguide mediated by surface plasmon polaritons. <i>Physical Chemistry Chemical Physics</i> , <b>2014</b> , 16, 16233-40	3.6	10

13	Plasmon-enhanced ultraviolet photoluminescence from the hybrid plasmonic Fabry-Perot microcavity of Ag/ZnO microwires. <i>Nanoscale</i> , <b>2014</b> , 6, 1354-61	7.7	15
12	Hybrid quadrupolar resonances stimulated at short wavelengths using coupled plasmonic silver nanoparticle aggregation. <i>Journal of Materials Chemistry C</i> , <b>2014</b> , 2, 56-63	7.1	37
11	Tunable enhancement of exciton emission from MgZnO by hybridized quadrupole plasmons in Ag nanoparticle aggregation. <i>Applied Physics Letters</i> , <b>2014</b> , 104, 091119	3.4	21
10	Graphene surface plasmon induced optical field confinement and lasing enhancement in ZnO whispering-gallery microcavity. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2014</b> , 6, 10469-75	9.5	49
9	Enhanced solar-blind responsivity of photodetectors based on cubic MgZnO films via gallium doping. <i>Optics Express</i> , <b>2014</b> , 22, 246-53	3.3	30
8	Graphene induced high-Q hybridized plasmonic whispering gallery mode microcavities. <i>Optics Express</i> , <b>2014</b> , 22, 23836-50	3.3	17
7	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> , <b>2014</b> , 2, 9689-9694	7.1	130
6	Mott-type Mg <sub>x</sub> Zn <sub>1-x</sub> O-based visible-blind ultraviolet photodetectors with active anti-reflection layer. <i>Applied Physics Letters</i> , <b>2013</b> , 102, 231122	3.4	24
5	Effect of compressive stress on stability of N-doped p-type ZnO. <i>Applied Physics Letters</i> , <b>2011</b> , 99, 091908	3.4	22
4	Photoconductive gain in solar-blind ultraviolet photodetector based on Mg <sub>0.52</sub> Zn <sub>0.48</sub> O thin film. <i>Applied Physics Letters</i> , <b>2011</b> , 99, 242105	3.4	60
3	Control of N/N <sub>2</sub> species ratio in NO plasma for p-type doping of ZnO. <i>Journal of Applied Physics</i> , <b>2011</b> , 110, 053305	2.5	4
2	Doping Concentration Influenced Pyro-Phototronic Effect in Self-Powered Photodetector Based on Ga-Incorporated ZnO Microwire/p+-GaN Heterojunction. <i>Advanced Optical Materials</i> , 2101851	8.1	9
1	Wavelength-Tunable Green Light Sources Based on ZnO:Ga Nanowire/p-InGaN Heterojunctions. <i>ACS Applied Nano Materials</i> ,	5.6	3