

# Tianren Fan

## List of Publications by Year in descending order

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papers

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887953

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docs citations

35  
times ranked

552  
citing authors

#	ARTICLE	IF	CITATIONS
1	Polysilicon Micro-heaters For Resonance Tuning in CMOS Photonics. Optics Letters, 2022, 47, 1097-1100.	1.7	6
2	Dynamically tunable second-harmonic generation using hybrid nanostructures incorporating phase-change chalcogenides. Nanophotonics, 2022, 11, 2727-2735.	2.9	13
3	Broadband-Tunable Third-Harmonic Generation Using Phase-Change Chalcogenides. Advanced Photonics Research, 2022, 3, .	1.7	5
4	Enhanced poling and infiltration for highly efficient electro-optic polymer-based Mach-Zehnder modulators. Optics Express, 2022, 30, 27841.	1.7	3
5	Polymer waveguide photonic interconnect for multichip communications-based heterogeneous integration. Journal of Nanophotonics, 2022, 16, .	0.4	0
6	Dynamic Hybrid Metasurfaces. Nano Letters, 2021, 21, 1238-1245.	4.5	85
7	Broadband-Tunable Third-Harmonic Generation Using Phase-Change Chalcogenides. , 2021, , .		1
8	Racetrack microresonator based electro-optic phase shifters on a 3C silicon-carbide-on-insulator platform. Optics Letters, 2021, 46, 2135.	1.7	12
9	ITO-based microheaters for reversible multi-stage switching of phase-change materials: towards miniaturized beyond-binary reconfigurable integrated photonics. Optics Express, 2021, 29, 20449.	1.7	62
10	High-Q ultrasensitive integrated photonic sensors based on slot-ring resonator on a 3C-SiC-on-insulator platform. Optics Letters, 2021, 46, 4316.	1.7	12
11	Dynamically tunable third-harmonic generation with all-dielectric metasurfaces incorporating phase-change chalcogenides. Optics Letters, 2021, 46, 5296.	1.7	10
12	High-Q Slot-Waveguide-Based Ring Resonator on a 3C-SiC-on-Insulator Platform for Ultrasensitive Sensing Applications. , 2021, , .		0
13	High-quality integrated microdisk resonators in the visible-to-near-infrared wavelength range on a 3C-silicon carbide-on-insulator platform. Optics Letters, 2020, 45, 153.	1.7	23
14	High-Q spiral-based coupled-resonator device on a Si3N4 platform for ultrasensitive sensing applications. OSA Continuum, 2020, 3, 3390.	1.8	3
15	Fiber-Interconnect Silicon Chiplet Technology for Self-Aligned Fiber-to-Chip Assembly. IEEE Photonics Technology Letters, 2019, 31, 1311-1314.	1.3	8
16	Mitigating inverse design complexity of nano-antennas using a novel dimensionality reduction approach (Conference Presentation). , 2019, , .		3
17	High-Q microresonators integrated with microheaters on a 3C-SiC-on-insulator platform. Optics Letters, 2019, 44, 4941.	1.7	28
18	Record-High-Q Microresonators from 650 nm to 1550 nm Wavelengths on a 3C-SiC-on-Insulator Platform. , 2019, , .		1

#	ARTICLE	IF	CITATIONS
19	High-Q Microresonators Integrated with Microheaters on a 3C-SiC-on-Insulator Platform. , 2019, , .		0
20	A 3C-SiC-on-oxide (SiCOI) platform enabling high-Q resonators over an octave frequency range from visible to near-infrared (Conference Presentation). , 2019, , .		0
21	Integrated Optomechanical Resonators in Double-Layer Crystalline Silicon Platforms. , 2018, , .		0
22	High-Q Microresonators at Near-Infrared/Near Visible Wavelengths on a 3C-SiC-on-Insulator (SiCOI) Platform. , 2018, , .		0
23	Nonvolatile Tunable Integrated Mid-Infrared GST-SiC Metasurfaces. , 2018, , .		0
24	Defect-Mediated Alloying of Monolayer Transition-Metal Dichalcogenides. ACS Nano, 2018, 12, 12795-12804.	7.3	42
25	High-Q integrated photonic microresonators on 3C-SiC-on-insulator (SiCOI) platform. Optics Express, 2018, 26, 25814.	1.7	53
26	Highly-uniform resonator-based visible spectrometer on a Si <sub>3</sub> N <sub>4</sub> platform with robust and accurate post-fabrication trimming. Optics Letters, 2018, 43, 4887.	1.7	9
27	Enhanced Polling and Infiltration of Highly-Linear Mach-Zehnder Modulators on Si/SiN-Organic Hybrid Platform. , 2018, , .		1
28	Hybrid h-BN/Graphene/h-BN Silicon Device for Electro-optic Modulation. , 2018, , .		0
29	High Q Integrated Photonic Microresonators on 3C SiC-on-Insulator Platform. , 2018, , .		2
30	High-Quality Hybrid Double-layer-Silicon on Silicon Nitride Platform for Integrated Photonic Applications. , 2018, , .		0
31	Hybrid graphene modulator on CMOS-compatible platform for integrated photonic applications (Conference Presentation). , 2018, , .		0
32	High-speed Active Devices Integrated in Hybrid Silicon on Silicon Nitride Platform. , 2017, , .		0
33	Light-matter interaction in 2D material heterostructures (Conference Presentation). , 2017, , .		0
34	Optical Properties of MoS <sub>2</sub> /MoSe <sub>2</sub> Heterostructures. , 2016, , .		0
35	Compact Shielding of Graphene Monolayer Leads to Extraordinary SERS-Active Substrate with Large-Area Uniformity and Long-Term Stability. Scientific Reports, 2015, 5, 17167.	1.6	37