

Zhizhen

List of Publications by Year in descending order

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17
papers

774
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623188

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17
times ranked

746
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Indium-Tin-Oxide for High-performance Electro-optic Modulation. <i>Nanophotonics</i> , 2015, 4, 198-213. | 2.9 | 180 |
| 2 | 0.52 V mm ITO-based Mach-Zehnder modulator in silicon photonics. <i>APL Photonics</i> , 2018, 3, 126104. | 3.0 | 87 |
| 3 | Compact Graphene Plasmonic Slot Photodetector on Silicon-on-Insulator with High Responsivity. <i>ACS Photonics</i> , 2020, 7, 932-940. | 3.2 | 63 |
| 4 | Two-Dimensional Material-Based Mode Confinement Engineering in Electro-Optic Modulators. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2017, 23, 81-88. | 1.9 | 59 |
| 5 | Active material, optical mode and cavity impact on nanoscale electro-optic modulation performance. <i>Nanophotonics</i> , 2017, 7, 455-472. | 2.9 | 55 |
| 6 | Attojoule-efficient graphene optical modulators. <i>Applied Optics</i> , 2018, 57, D130. | 0.9 | 53 |
| 7 | Scaling vectors of attojoule per bit modulators. <i>Journal of Optics (United Kingdom)</i> , 2018, 20, 014012. | 1.0 | 44 |
| 8 | Coupling-enhanced dual ITO layer electro-absorption modulator in silicon photonics. <i>Nanophotonics</i> , 2019, 8, 1559-1566. | 2.9 | 43 |
| 9 | A deterministic guide for material and mode dependence of on-chip electro-optic modulator performance. <i>Solid-State Electronics</i> , 2017, 136, 92-101. | 0.8 | 41 |
| 10 | Loss and coupling tuning via heterogeneous integration of MoS ₂ layers in silicon photonics [Invited]. <i>Optical Materials Express</i> , 2019, 9, 751. | 1.6 | 32 |
| 11 | Testbeds for Transition Metal Dichalcogenide Photonics: Efficacy of Light Emission Enhancement in Monomer vs Dimer Nanoscale Antennae. <i>ACS Photonics</i> , 2017, 4, 1713-1721. | 3.2 | 31 |
| 12 | Low-loss tunable 1D ITO-slot photonic crystal nanobeam cavity. <i>Journal of Optics (United Kingdom)</i> , 2018, 20, 054003. | 1.0 | 28 |
| 13 | A semi-empirical integrated microring cavity approach for 2D material optical index identification at 1.55 μ m. <i>Nanophotonics</i> , 2019, 8, 435-441. | 2.9 | 27 |
| 14 | A Lateral MOS-Capacitor-Enabled ITO Mach-Zehnder Modulator for Beam Steering. <i>Journal of Lightwave Technology</i> , 2020, 38, 282-290. | 2.7 | 22 |
| 15 | 2D materials in electro-optic modulation: energy efficiency, electrostatics, mode overlap, material transfer and integration. <i>Applied Physics A: Materials Science and Processing</i> , 2018, 124, 1. | 1.1 | 9 |
| 16 | Temperature dependence of a sub-wavelength compact graphene plasmon-slot modulator. , 2017, , . | | 0 |
| 17 | Optical Antenna Enhanced Spontaneous Emission from CVD-Grown Monolayer WS ₂ . , 2017, , . | | 0 |