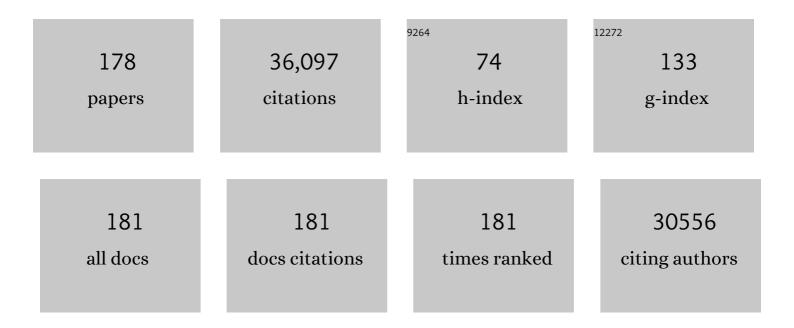
List of Publications by Year in descending order

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FENCNIAN XIA

| #  | Article  | IF   | CITATIONS |
|----|--|------|-----------|
| 1  | Rediscovering black phosphorus as an anisotropic layered material for optoelectronics and electronics. Nature Communications, 2014, 5, 4458.   | 12.8 | 2,866     |
| 2  | Ultrafast graphene photodetector. Nature Nanotechnology, 2009, 4, 839-843.   | 31.5 | 2,748     |
| 3  | Two-dimensional material nanophotonics. Nature Photonics, 2014, 8, 899-907.  | 31.4 | 2,362     |
| 4  | Graphene photodetectors for high-speed optical communications. Nature Photonics, 2010, 4, 297-301.   | 31.4 | 2,122     |
| 5  | Recent Advances in Two-Dimensional Materials beyond Graphene. ACS Nano, 2015, 9, 11509-11539.  | 14.6 | 2,069     |
| 6  | Highly anisotropic and robust excitons in monolayer black phosphorus. Nature Nanotechnology, 2015,<br>10, 517-521.   | 31.5 | 1,204     |
| 7  | Graphene Field-Effect Transistors with High On/Off Current Ratio and Large Transport Band Gap at<br>Room Temperature. Nano Letters, 2010, 10, 715-718.   | 9.1  | 1,191     |
| 8  | The renaissance of black phosphorus. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 4523-4530.  | 7.1  | 1,143     |
| 9  | Tunable infrared plasmonic devices using graphene/insulator stacks. Nature Nanotechnology, 2012, 7,<br>330-334.  | 31.5 | 1,097     |
| 10 | Ultracompact optical buffers on a silicon chip. Nature Photonics, 2007, 1, 65-71.  | 31.4 | 1,033     |
| 11 | Strong light–matter coupling in two-dimensional atomic crystals. Nature Photonics, 2015, 9, 30-34.   | 31.4 | 865       |
| 12 | Damping pathways of mid-infrared plasmons in graphene nanostructures. Nature Photonics, 2013, 7,<br>394-399.   | 31.4 | 815       |
| 13 | High-frequency, scaled graphene transistors on diamond-like carbon. Nature, 2011, 472, 74-78.  | 27.8 | 813       |
| 14 | The origins and limits of metal–graphene junction resistance. Nature Nanotechnology, 2011, 6, 179-184.   | 31.5 | 730       |
| 15 | Microwave Absorption Enhancement of Multifunctional Composite Microspheres with Spinel<br>Fe <sub>3</sub> O <sub>4</sub> Cores and Anatase TiO <sub>2</sub> Shells. Small, 2012, 8, 1214-1221. | 10.0 | 730       |
| 16 | Black Phosphorus Mid-Infrared Photodetectors with High Gain. Nano Letters, 2016, 16, 4648-4655.  | 9.1  | 616       |
| 17 | Tunable optical properties of multilayer black phosphorus thin films. Physical Review B, 2014, 90, .   | 3.2  | 592       |
| 18 | Photocurrent Imaging and Efficient Photon Detection in a Graphene Transistor. Nano Letters, 2009, 9,<br>1039-1044.   | 9.1  | 543       |

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| #  | Article  | IF   | CITATIONS |
|----|--|------|-----------|
| 19 | Plasmons and Screening in Monolayer and Multilayer Black Phosphorus. Physical Review Letters, 2014, 113, 106802.   | 7.8  | 515       |
| 20 | Reinventing germanium avalanche photodetector for nanophotonic on-chip optical interconnects.<br>Nature, 2010, 464, 80-84.   | 27.8 | 500       |
| 21 | Photoconductivity of biased graphene. Nature Photonics, 2013, 7, 53-59.  | 31.4 | 467       |
| 22 | High-throughput silicon nanophotonic wavelength-insensitive switch for on-chip optical networks.<br>Nature Photonics, 2008, 2, 242-246.                            | 31.4 | 420       |
| 23 | Ultra-compact high order ring resonator filters using submicron silicon photonic wires for on-chip optical interconnects. Optics Express, 2007, 15, 11934.         | 3.4  | 399       |
| 24 | Black Arsenic–Phosphorus: Layered Anisotropic Infrared Semiconductors with Highly Tunable<br>Compositions and Properties. Advanced Materials, 2015, 27, 4423-4429. | 21.0 | 378       |
| 25 | State-of-the-Art Graphene High-Frequency Electronics. Nano Letters, 2012, 12, 3062-3067.   | 9.1  | 371       |
| 26 | Electronic transport and device prospects of monolayer molybdenum disulphide grown by chemical vapour deposition. Nature Communications, 2014, 5, 3087.            | 12.8 | 370       |
| 27 | Role of contacts in graphene transistors: A scanning photocurrent study. Physical Review B, 2009, 79, .  | 3.2  | 347       |
| 28 | Utilization of a Buffered Dielectric to Achieve High Field-Effect Carrier Mobility in Graphene Transistors. Nano Letters, 2009, 9, 4474-4478.                      | 9.1  | 341       |
| 29 | Black Phosphorus Radio-Frequency Transistors. Nano Letters, 2014, 14, 6424-6429.   | 9.1  | 307       |
| 30 | Widely tunable black phosphorus mid-infrared photodetector. Nature Communications, 2017, 8, 1672.  | 12.8 | 283       |
| 31 | Anisotropic Black Phosphorus Synaptic Device for Neuromorphic Applications. Advanced Materials, 2016, 28, 4991-4997.   | 21.0 | 281       |
| 32 | Photocurrent in graphene harnessed by tunable intrinsic plasmons. Nature Communications, 2013, 4,<br>1951.   | 12.8 | 280       |
| 33 | Group index and group velocity dispersion in silicon-on-insulator photonic wires. Optics Express, 2006, 14, 3853.  | 3.4  | 259       |
| 34 | Efficient electrical control of thin-film black phosphorus bandgap. Nature Communications, 2017, 8, 14474.   | 12.8 | 249       |
| 35 | Infrared Spectroscopy of Tunable Dirac Terahertz Magneto-Plasmons in Graphene. Nano Letters, 2012,<br>12, 3766-3771.   | 9.1  | 232       |
| 36 | Solution-processed titanium carbide MXene films examined as highly transparent conductors.<br>Nanoscale, 2016, 8, 16371-16378.                                     | 5.6  | 227       |

| #  | Article   | IF   | CITATIONS |
|----|---|------|-----------|
| 37 | Stacked 2D materials shed light. Nature Materials, 2015, 14, 264-265.   | 27.5 | 203       |
| 38 | Black phosphorus and its isoelectronic materials. Nature Reviews Physics, 2019, 1, 306-317.   | 26.6 | 196       |
| 39 | Graphene Plasmonic Metasurfaces to Steer Infrared Light. Scientific Reports, 2015, 5, 12423.  | 3.3  | 190       |
| 40 | Infrared Spectroscopy of Wafer-Scale Graphene. ACS Nano, 2011, 5, 9854-9860.  | 14.6 | 187       |
| 41 | Graphene applications in electronics and photonics. MRS Bulletin, 2012, 37, 1225-1234.  | 3.5  | 186       |
| 42 | Optoelectronic devices based on two-dimensional transition metal dichalcogenides. Nano Research, 2016, 9, 1543-1560.                                      | 10.4 | 186       |
| 43 | Semimetals for high-performance photodetection. Nature Materials, 2020, 19, 830-837.  | 27.5 | 181       |
| 44 | Supercontinuum generation in silicon photonic wires. Optics Express, 2007, 15, 15242.   | 3.4  | 180       |
| 45 | CMOS-integrated high-speed MSM germanium waveguide photodetector. Optics Express, 2010, 18, 4986.   | 3.4  | 171       |
| 46 | Interlayer interactions in anisotropic atomically thin rhenium diselenide. Nano Research, 2015, 8, 3651-3661.   | 10.4 | 159       |
| 47 | Air-Stable Room-Temperature Mid-Infrared Photodetectors Based on hBN/Black Arsenic<br>Phosphorus/hBN Heterostructures. Nano Letters, 2018, 18, 3172-3179. | 9.1  | 145       |
| 48 | Telecommunications-band heralded single photons from a silicon nanophotonic chip. Applied Physics<br>Letters, 2012, 100, .                                | 3.3  | 133       |
| 49 | A wavelength-scale black phosphorus spectrometer. Nature Photonics, 2021, 15, 601-607.  | 31.4 | 130       |
| 50 | Tunable Phonon-Induced Transparency in Bilayer Graphene Nanoribbons. Nano Letters, 2014, 14,<br>4581-4586.  | 9.1  | 129       |
| 51 | Ultrahigh-Bandwidth Silicon Photonic Nanowire Waveguides for On-Chip Networks. IEEE Photonics<br>Technology Letters, 2008, 20, 398-400.                   | 2.5  | 128       |
| 52 | Synthesis of thin-film black phosphorus on a flexible substrate. 2D Materials, 2015, 2, 031002.   | 4.4  | 124       |
| 53 | Mode conversion losses in silicon-on-insulator photonic wire based racetrack resonators. Optics Express, 2006, 14, 3872.                                  | 3.4  | 122       |
| 54 | Efficient electrical detection of mid-infrared graphene plasmons at room temperature. Nature<br>Materials, 2018, 17, 986-992.                             | 27.5 | 119       |

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|----|--|------|-----------|
| 55 | Microwave absorption enhancement and electron microscopy characterization of BaTiO3 nano-torus.<br>Nanoscale, 2011, 3, 3860.   | 5.6  | 109       |
| 56 | Graphene Electronics: Materials, Devices, and Circuits. Proceedings of the IEEE, 2013, 101, 1620-1637.   | 21.3 | 104       |
| 57 | Approaching total absorption at near infrared in a large area monolayer graphene by critical coupling. Applied Physics Letters, 2014, 105, 181105.   | 3.3  | 103       |
| 58 | Two-dimensional materials for nanophotonics application. Nanophotonics, 2015, 4, 128-142.  | 6.0  | 97        |
| 59 | A Dynamically Reconfigurable Ambipolar Black Phosphorus Memory Device. ACS Nano, 2016, 10,<br>10428-10435.   | 14.6 | 97        |
| 60 | The Interaction of Light and Graphene: Basics, Devices, and Applications. Proceedings of the IEEE, 2013, 101, 1717-1731.   | 21.3 | 94        |
| 61 | Nonlinear-Optical Phase Control in Dispersion-Engineered Si Photonic Wires. Optics Express, 2008, 16, 1280.  | 3.4  | 93        |
| 62 | Infrared Nanophotonics Based on Graphene Plasmonics. ACS Photonics, 2017, 4, 2989-2999.  | 6.6  | 92        |
| 63 | Coupled resonator optical waveguides based on silicon-on-insulator photonic wires. Applied Physics<br>Letters, 2006, 89, 041122.   | 3.3  | 90        |
| 64 | Bright Mid-Infrared Photoluminescence from Thin-Film Black Phosphorus. Nano Letters, 2019, 19,<br>1488-1493.   | 9.1  | 90        |
| 65 | Stable Graphene-Two-Dimensional Multiphase Perovskite Heterostructure Phototransistors with High<br>Gain. Nano Letters, 2017, 17, 7330-7338.   | 9.1  | 88        |
| 66 | Revealing the Contribution of Individual Factors to Hydrogen Evolution Reaction Catalytic Activity.<br>Advanced Materials, 2018, 30, e1706076.   | 21.0 | 86        |
| 67 | Synthesis of Crystalline Black Phosphorus Thin Film on Sapphire. Advanced Materials, 2018, 30, 1703748.  | 21.0 | 86        |
| 68 | Plasmonics in Atomically Thin Crystalline Silver Films. ACS Nano, 2019, 13, 7771-7779.   | 14.6 | 86        |
| 69 | A microcavity-controlled, current-driven, on-chip nanotube emitter at infrared wavelengths. Nature<br>Nanotechnology, 2008, 3, 609-613.  | 31.5 | 85        |
| 70 | An asymmetric twin-waveguide high-bandwidth photodiode using a lateral taper coupler. IEEE<br>Photonics Technology Letters, 2001, 13, 845-847.   | 2.5  | 83        |
| 71 | CMOS-Integrated Optical Receivers for On-Chip Interconnects. IEEE Journal of Selected Topics in Quantum Electronics, 2010, 16, 1376-1385.  | 2.9  | 82        |
| 72 | Hierarchical magnetic yolk–shell microspheres with mixed barium silicate and barium titanium oxide<br>shells for microwave absorption enhancement. Journal of Materials Chemistry, 2012, 22, 9277. | 6.7  | 81        |

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| 73 | Widely tunable mid-infrared light emission in thin-film black phosphorus. Science Advances, 2020, 6,<br>eaay6134.  | 10.3 | 80        |
| 74 | Artificial Metaphotonics Born Naturally in Two Dimensions. Chemical Reviews, 2020, 120, 6197-6246.   | 47.7 | 78        |
| 75 | Quantum Behavior of Graphene Transistors near the Scaling Limit. Nano Letters, 2012, 12, 1417-1423.  | 9.1  | 77        |
| 76 | Single-crystalline germanium nanomembrane photodetectors on foreign nanocavities. Science Advances, 2017, 3, e1602783.   | 10.3 | 76        |
| 77 | Strong mid-infrared photoresponse in small-twist-angle bilayer graphene. Nature Photonics, 2020, 14,<br>549-553.   | 31.4 | 76        |
| 78 | Statistics of light transport in 235-ring silicon coupled-resonator optical waveguides. Optics Express, 2010, 18, 26505.   | 3.4  | 74        |
| 79 | Tunable Plasmon–Phonon Polaritons in Layered Graphene–Hexagonal Boron Nitride<br>Heterostructures. ACS Photonics, 2015, 2, 907-912.  | 6.6  | 70        |
| 80 | Intelligent infrared sensing enabled by tunable moir $	ilde{A}$ © quantum geometry. Nature, 2022, 604, 266-272.  | 27.8 | 69        |
| 81 | Plasmonics of coupled graphene micro-structures. New Journal of Physics, 2012, 14, 125001.   | 2.9  | 68        |
| 82 | Coupling-Enhanced Broadband Mid-infrared Light Absorption in Graphene Plasmonic Nanostructures.<br>ACS Nano, 2016, 10, 11172-11178.  | 14.6 | 62        |
| 83 | Novel Midinfrared Plasmonic Properties of Bilayer Graphene. Physical Review Letters, 2014, 112, 116801.  | 7.8  | 56        |
| 84 | Protective molecular passivation of black phosphorus. Npj 2D Materials and Applications, 2017, 1, .  | 7.9  | 52        |
| 85 | High T/sub 0/ long-wavelength InGaAsN quantum-well lasers grown by GSMBE using a solid arsenic source. IEEE Photonics Technology Letters, 2002, 14, 597-599.                   | 2.5  | 50        |
| 86 | All-optical wavelength conversion using a regrowth-free monolithically integrated Sagnac interferometer. IEEE Photonics Technology Letters, 2003, 15, 254-256.                 | 2.5  | 48        |
| 87 | Large-Velocity Saturation in Thin-Film Black Phosphorus Transistors. ACS Nano, 2018, 12, 5003-5010.  | 14.6 | 44        |
| 88 | Progress on Black Phosphorus Photonics. Advanced Optical Materials, 2018, 6, 1800365.  | 7.3  | 44        |
| 89 | Photonic integration using asymmetric twin-waveguide (ATG) technology: part I-concepts and theory.<br>IEEE Journal of Selected Topics in Quantum Electronics, 2005, 11, 17-29. | 2.9  | 42        |
| 90 | Room Temperature Graphene Mid-Infrared Bolometer with a Broad Operational Wavelength Range. ACS<br>Photonics, 2020, 7, 1206-1215.  | 6.6  | 41        |

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| 91  | A high-responsivity high-bandwidth asymmetric twin-waveguide coupled InGaAs-InP-InAlAs avalanche<br>photodiode. IEEE Photonics Technology Letters, 2002, 14, 1590-1592.                                | 2.5  | 40        |
| 92  | Waveguide dispersion effects in silicon-on-insulator coupled-resonator optical waveguides. Optics<br>Letters, 2010, 35, 3030.  | 3.3  | 36        |
| 93  | Photonic integration using asymmetric twin-waveguide (ATG) technology: part II-devices. IEEE Journal of Selected Topics in Quantum Electronics, 2005, 11, 30-42.                                       | 2.9  | 35        |
| 94  | Electrically tunable physical properties of two-dimensional materials. Nano Today, 2019, 27, 99-119.   | 11.9 | 35        |
| 95  | Moiré Band Topology in Twisted Bilayer Graphene. Nano Letters, 2020, 20, 6076-6083.  | 9.1  | 30        |
| 96  | Monolithic integration of a semiconductor optical amplifier and a high bandwidth p-i-n photodiode<br>using asymmetric twin-waveguide technology. IEEE Photonics Technology Letters, 2003, 15, 452-454. | 2.5  | 28        |
| 97  | Low-power continuous-wave four-wave mixing in silicon coupled-resonator optical waveguides.<br>Optics Letters, 2011, 36, 2964.   | 3.3  | 25        |
| 98  | Electrothermal Control of Graphene Plasmon–Phonon Polaritons. Advanced Materials, 2017, 29,<br>1700566.  | 21.0 | 24        |
| 99  | A Monolithically Integrated Long-Wavelength Balanced Photodiode Using Asymmetric Twin-Waveguide<br>Technology. IEEE Photonics Technology Letters, 2004, 16, 236-238.                                   | 2.5  | 23        |
| 100 | RF performance of short channel graphene field-effect transistor. , 2010, , .  |      | 23        |
| 101 | Photothermal Engineering of Graphene Plasmons. Physical Review Letters, 2018, 121, 057404.   | 7.8  | 22        |
| 102 | Valley-Selective Linear Dichroism in Layered Tin Sulfide. ACS Photonics, 2018, 5, 3814-3819.   | 6.6  | 22        |
| 103 | CMOS-Integrated 40GHz Germanium Waveguide Photodetector for On-chip Optical Interconnects. , 2009, , .   |      | 21        |
| 104 | Black Phosphorus High-Frequency Transistors with Local Contact Bias. ACS Nano, 2020, 14, 2118-2125.  | 14.6 | 21        |
| 105 | Symmetry-Controlled Electron–Phonon Interactions in van der Waals Heterostructures. ACS Nano,<br>2019, 13, 552-559.  | 14.6 | 20        |
| 106 | Asymmetric twin-waveguide 1.55-μm wavelength laser with a distributed Bragg reflector. IEEE Photonics<br>Technology Letters, 2000, 12, 468-470.  | 2.5  | 18        |
| 107 | Nonreciprocity of counterpropagating signals in a monolithically integrated Sagnac interferometer.<br>Optics Letters, 2004, 29, 513.   | 3.3  | 18        |
| 108 | Ultrafast Silicon Nanomembrane Microbolometer for Long-Wavelength Infrared Light Detection.<br>Nano Letters, 2021, 21, 8385-8392.  | 9.1  | 16        |

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| 109 | Graphene versus metal plasmons. Nature Photonics, 2013, 7, 420-420.  | 31.4 | 14        |
| 110 | Emergent quantum materials. MRS Bulletin, 2020, 45, 340-347.   | 3.5  | 14        |
| 111 | Probing interlayer interaction via chiral phonons in layered honeycomb materials. Physical Review B, 2021, 103, .  | 3.2  | 14        |
| 112 | An Asymmetric Twin Waveguide Eight-Channel Polarization-Independent Arrayed Waveguide Grating<br>With an Integrated Photodiode Array. IEEE Photonics Technology Letters, 2004, 16, 1170-1172.  | 2.5  | 13        |
| 113 | Beyond Graphene: Low-Symmetry and Anisotropic 2D Materials. Journal of Applied Physics, 2020, 128, 140401.   | 2.5  | 13        |
| 114 | Graphene Schottky Varactor Diodes for High-Performance Photodetection. ACS Photonics, 2019, 6, 1910-1915.  | 6.6  | 11        |
| 115 | Reduction of Absorption Loss in Asymmetric Twin Waveguide Laser Tapers Using Argon<br>Plasma-Enhanced Quantum-Well Intermixing. IEEE Photonics Technology Letters, 2004, 16, 2221-2223.  | 2.5  | 10        |
| 116 | Graphene-based fast electronics and optoelectronics. , 2010, , .   |      | 10        |
| 117 | Graphene Nanophotonics. IEEE Photonics Journal, 2011, 3, 293-295.  | 2.0  | 10        |
| 118 | Introduction to the Issue on 2-D Materials Optoelectronics. IEEE Journal of Selected Topics in Quantum Electronics, 2017, 23, 4-6.   | 2.9  | 9         |
| 119 | Enabling novel device functions with black phosphorus/MoS 2 van der Waals heterostructures.<br>Science Bulletin, 2017, 62, 1557-1558.  | 9.0  | 9         |
| 120 | Ultrafast nanoprobing. Nature Photonics, 2010, 4, 882-882.   | 31.4 | 8         |
| 121 | Abnormal cubic-tetragonal phase transition of barium strontium titanate nanoparticles studied by<br><i>in situ</i> Raman spectroscopy and transmission electron microscopy heating experiments. Applied<br>Physics Letters, 2015, 107, . | 3.3  | 8         |
| 122 | Ultra-compact silicon WDM optical filters with flat - top response for on-chip optical interconnects. , 2007, , .  |      | 7         |
| 123 | Communication technologies for exascale systems. , 2009, , .   |      | 7         |
| 124 | Introduction to the issue on graphene optoelectronics. IEEE Journal of Selected Topics in Quantum<br>Electronics, 2014, 20, 6-8.   | 2.9  | 7         |
| 125 | A monolithically integrated optical heterodyne receiver. IEEE Photonics Technology Letters, 2005, 17, 1716-1718.   | 2.5  | 6         |
| 126 | Group index and group velocity dispersion in silicon-on-insulator photonic wires: errata. Optics<br>Express, 2006, 14, 6372.   | 3.4  | 6         |

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| 127 | Silicon micro-resonators for on-chip optical networks. , 2008, , .   |      | 6         |
| 128 | Electrons en masse. Nature Nanotechnology, 2014, 9, 575-576.   | 31.5 | 6         |
| 129 | Integrated photonics using asymmetric twin-waveguide structures. , 0, , .  |      | 5         |
| 130 | Demonstration of 300 Gbps Error-Free Transmission of WDM Data Stream in Silicon Photonic Wires. , 2007, , .                                    |      | 5         |
| 131 | Supercontinuum generation in silicon photonic wires. , 2008, , .   |      | 5         |
| 132 | High-Throughput Silicon Nanophotonic Deflection Switch for On-Chip Optical Networks. , 2008, , .   |      | 5         |
| 133 | 235-ring Coupled-Resonator Optical Waveguides. , 2010, , .   |      | 4         |
| 134 | Carbon nanotubes and optical confinement: controlling light emission in nanophotonic devices.<br>Proceedings of SPIE, 2008, , .                | 0.8  | 3         |
| 135 | High on-off ratio Bilayer Graphene complementary field effect transistors. , 2010, , .   |      | 3         |
| 136 | Flat talk. Nature Photonics, 2016, 10, 205-206.  | 31.4 | 3         |
| 137 | Slow light, fast computers. Nature Photonics, 2007, 1, 72-72.  | 31.4 | 2         |
| 138 | Ultrafast Graphene Photodetector. , 2010, , .  |      | 2         |
| 139 | The interaction of light and graphene: Basics, devices and applications. , 2013, , .   |      | 2         |
| 140 | Titanum Carbide MXene Flakes as Novel 2D Metallic Solution-Processed Films. ECS Transactions, 2016, 75, 37-41.                                 | 0.5  | 2         |
| 141 | Black Phosphorus MOSFET for Future-Generation Thin-Film Electronics Capable of Microwave Operation. , 2019, , .                                |      | 2         |
| 142 | Enhancing infrared emission of mercury telluride (HgTe) quantum dots by plasmonic structures.<br>Light: Science and Applications, 2020, 9, 37. | 16.6 | 2         |
| 143 | CMOS-Integrated Small-Capacitance Germanium Waveguide Photodetector for Optical Interconnects. , 2009, , .                                     |      | 2         |
| 144 | Monolithically integrated balanced photodiode using asymmetric twin-waveguide technology. , 0, , .   |      | 1         |

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| 145 | Ultrahigh-Bandwidth WDM Signal Integrity in Silicon-on-Insulator Nanowire Waveguides. Conference<br>Proceedings - Lasers and Electro-Optics Society Annual Meeting-LEOS, 2007, , . | 0.0 | 1         |
| 146 | Cavity-controlled, electrically-induced infrared emission from a single single-wall carbon nanotube (SWCT). , 2008, , .  |     | 1         |
| 147 | Silicon photonic wire circuits for on-chip optical interconnects. Proceedings of SPIE, 2008, , .   | 0.8 | 1         |
| 148 | CMOS-Integrated Low-Noise Germanium Waveguide Avalanche Photodetector Operating at 40Gbps. ,<br>2010, , .  |     | 1         |
| 149 | Graphene nanophotonics. , 2010, , .  |     | 1         |
| 150 | Slow light enhancement of four-wave mixing in coupled silicon-on-insulator microrings. Proceedings of SPIE, 2012, , .  | 0.8 | 1         |
| 151 | Feature issue introduction: two-dimensional materials for photonics and optoelectronics. Optical Materials Express, 2016, 6, 2458.   | 3.0 | 1         |
| 152 | Black phosphorous optoelectronic devices. , 2017, , .  |     | 1         |
| 153 | Black Phosphorus Optoelectronics. , 2016, , .  |     | 1         |
| 154 | High efficiency InGaAsN based quantum well lasers grown by GSMBE using a solid As source. , 0, , .   |     | 0         |
| 155 | Monolithically integrated Sagnac interferometer for all-optical wavelength conversion. , 0, , .  |     | 0         |
| 156 | Nonreciprocity of counterpropagating signals in a monolithically integrated Sagnac<br>interferometer: erratum. Optics Letters, 2004, 29, 1156.                                     | 3.3 | 0         |
| 157 | Resonantly enhanced all optical buffers on a silicon chip. , 2007, , .   |     | 0         |
| 158 | Silicon integrated nanophotonics for on-chip optical interconnects. , 2008, , .  |     | 0         |
| 159 | Broadband ultra-compact nanophotonic optical modulators and switches. , 2008, , .  |     | 0         |
| 160 | Graphene and carbon nanotube photonics. , 2009, , .  |     | 0         |
| 161 | Integration of nanophotonic devices for on-chip optical interconnects. , 2009, , .   |     | 0         |
| 162 | Waveguide-Integrated Low-Noise Germanium Avalanche Photodetector with 6dB Sensitivity<br>Improvement. , 2010, , .  |     | 0         |

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| 163 | (Invited) Integration of Germanium Avalanche Photodetectors on Silicon for On-Chip Optical<br>Interconnects. ECS Transactions, 2010, 33, 749-756. | O.5  | Ο         |
| 164 | Zero-dark current operation of a metal-graphene-metal photodetector at 10 Gbit/s data rate. , 2010, , .   |      | 0         |
| 165 | Waveguide-integrated Germanium avalanche photodetector for low-noise and high-speed operation. , 2010, , .  |      | Ο         |
| 166 | Statistics of photon transport in hundreds of coupled resonators. , 2011, , .   |      | 0         |
| 167 | Correlations between light at spectrally distant wavelengths in coupled microring resonator waveguides. , 2011, , .                               |      | Ο         |
| 168 | Heralded single photons from silicon coupled-resonator optical waveguides. , 2012, , .  |      | 0         |
| 169 | Heralded single photons from a silicon nanophotonic chip. , 2012, , .   |      | Ο         |
| 170 | Graphene and Beyond for Ultrafast Optical Communications and Interconnects. , 2014, , .   |      | 0         |
| 171 | Strong light-matter coupling in atomic monolayers. , 2014, , .  |      | 0         |
| 172 | Light Emission from Atomic Monolayers in a One-Dimensional Microcavity. , 2014, , .   |      | 0         |
| 173 | Optical Phase Anisotropy in Layered Black Phosphorus. , 2016, , .   |      | Ο         |
| 174 | Vertical ambipolar barrier transistor based on black phosphorous-tin selenide van der waals heterojunction. , 2016, , .                           |      | 0         |
| 175 | Plasmonics in Atomically Thin Crystalline Silver. , 2019, , .   |      | Ο         |
| 176 | Design and fabrication of an ultra-compact silicon on insulator demultiplexer based on arrayed waveguide gratings. , 2008, , .                    |      | 0         |
| 177 | Intra- and Inter-band Four-wave Mixing in Silicon Coupled Resonator Optical Waveguides. , 2011, , .   |      | 0         |
| 178 | A tale of two dimensionalities. Nature Materials, 2022, 21, 735-736.  | 27.5 | 0         |