

Alexander Mcleod

List of Publications by Citations

Source: <https://exaly.com/author-pdf/4900724/alexander-mcleod-publications-by-citations.pdf>

Version: 2024-04-25

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

49
papers

4,894
citations

22
h-index

58
g-index

58
ext. papers

5,885
ext. citations

14.8
avg, IF

4.98
L-index

| # | Paper | IF | Citations |
|----|---|------|-----------|
| 49 | Gate-tuning of graphene plasmons revealed by infrared nano-imaging. <i>Nature</i> , 2012 , 487, 82-5 | 50.4 | 1451 |
| 48 | Tunable phonon polaritons in atomically thin van der Waals crystals of boron nitride. <i>Science</i> , 2014 , 343, 1125-9 | 33.3 | 695 |
| 47 | Infrared nanoscopy of dirac plasmons at the graphene-SiO ₂ interface. <i>Nano Letters</i> , 2011 , 11, 4701-5 | 11.5 | 431 |
| 46 | Fundamental limits to graphene plasmonics. <i>Nature</i> , 2018 , 557, 530-533 | 50.4 | 280 |
| 45 | Subdiffractional focusing and guiding of polaritonic rays in a natural hyperbolic material. <i>Nature Communications</i> , 2015 , 6, 6963 | 17.4 | 255 |
| 44 | Ultrafast optical switching of infrared plasmon polaritons in high-mobility graphene. <i>Nature Photonics</i> , 2016 , 10, 244-247 | 33.9 | 252 |
| 43 | Electronic and plasmonic phenomena at graphene grain boundaries. <i>Nature Nanotechnology</i> , 2013 , 8, 821-5 | 28.7 | 191 |
| 42 | Photonic crystals for nano-light in moiré graphene superlattices. <i>Science</i> , 2018 , 362, 1153-1156 | 33.3 | 164 |
| 41 | Active Optical Metasurfaces Based on Defect-Engineered Phase-Transition Materials. <i>Nano Letters</i> , 2016 , 16, 1050-5 | 11.5 | 147 |
| 40 | Edge and Surface Plasmons in Graphene Nanoribbons. <i>Nano Letters</i> , 2015 , 15, 8271-6 | 11.5 | 128 |
| 39 | Nanotextured phase coexistence in the correlated insulator V ₂ O ₃ . <i>Nature Physics</i> , 2017 , 13, 80-86 | 16.2 | 123 |
| 38 | Model for quantitative tip-enhanced spectroscopy and the extraction of nanoscale-resolved optical constants. <i>Physical Review B</i> , 2014 , 90, | 3.3 | 111 |
| 37 | Phase transition in bulk single crystals and thin films of VO ₂ by nanoscale infrared spectroscopy and imaging. <i>Physical Review B</i> , 2015 , 91, | 3.3 | 73 |
| 36 | Near-field spectroscopy of silicon dioxide thin films. <i>Physical Review B</i> , 2012 , 85, | 3.3 | 68 |
| 35 | Imaging the nanoscale phase separation in vanadium dioxide thin films at terahertz frequencies. <i>Nature Communications</i> , 2018 , 9, 3604 | 17.4 | 46 |
| 34 | Coexisting first- and second-order electronic phase transitions in a correlated oxide. <i>Nature Physics</i> , 2018 , 14, 1056-1061 | 16.2 | 43 |
| 33 | Nanoscale infrared spectroscopy as a non-destructive probe of extraterrestrial samples. <i>Nature Communications</i> , 2014 , 5, 5445 | 17.4 | 42 |

| | | | |
|----|---|------|----|
| 32 | Multi-messenger nanoprobos of hidden magnetism in a strained manganite. <i>Nature Materials</i> , 2020 , 19, 397-404 | 27 | 33 |
| 31 | Symmetry breaking and geometric confinement in VO ₂ : Results from a three-dimensional infrared nano-imaging. <i>Applied Physics Letters</i> , 2014 , 104, 121905 | 3.4 | 31 |
| 30 | Photonic crystal for graphene plasmons. <i>Nature Communications</i> , 2019 , 10, 4780 | 17.4 | 30 |
| 29 | Infrared nanospectroscopy and imaging of collective superfluid excitations in anisotropic superconductors. <i>Physical Review B</i> , 2014 , 90, | 3.3 | 28 |
| 28 | Artifact free time resolved near-field spectroscopy. <i>Optics Express</i> , 2017 , 25, 28589 | 3.3 | 22 |
| 27 | Moiré metrology of energy landscapes in van der Waals heterostructures. <i>Nature Communications</i> , 2021 , 12, 242 | 17.4 | 22 |
| 26 | Nano-Resolved Current-Induced Insulator-Metal Transition in the Mott Insulator Ca ₂ RuO ₄ . <i>Physical Review X</i> , 2019 , 9, | 9.1 | 21 |
| 25 | Internal strain tunes electronic correlations on the nanoscale. <i>Science Advances</i> , 2018 , 4, eaau9123 | 14.3 | 21 |
| 24 | Nano-photocurrent Mapping of Local Electronic Structure in Twisted Bilayer Graphene. <i>Nano Letters</i> , 2020 , 20, 2958-2964 | 11.5 | 20 |
| 23 | Fizeau drag in graphene plasmonics. <i>Nature</i> , 2021 , 594, 513-516 | 50.4 | 20 |
| 22 | Moiré engineering of electronic phenomena in correlated oxides. <i>Nature Physics</i> , 2020 , 16, 631-635 | 16.2 | 19 |
| 21 | Charge-Transfer Plasmon Polaritons at Graphene/IRuCl Interfaces. <i>Nano Letters</i> , 2020 , 20, 8438-8445 | 11.5 | 17 |
| 20 | Hyperbolic enhancement of photocurrent patterns in minimally twisted bilayer graphene. <i>Nature Communications</i> , 2021 , 12, 1641 | 17.4 | 13 |
| 19 | Quantitative Nanoinfrared Spectroscopy of Anisotropic van der Waals Materials. <i>Nano Letters</i> , 2020 , 20, 7933-7940 | 11.5 | 12 |
| 18 | Long-Lived Phonon Polaritons in Hyperbolic Materials. <i>Nano Letters</i> , 2021 , 21, 5767-5773 | 11.5 | 11 |
| 17 | Hyperbolic Cooper-Pair Polaritons in Planar Graphene/Cuprate Plasmonic Cavities. <i>Nano Letters</i> , 2021 , 21, 308-316 | 11.5 | 8 |
| 16 | Hybrid Machine Learning for Scanning Near-Field Optical Spectroscopy. <i>ACS Photonics</i> , | 6.3 | 8 |
| 15 | Terahertz response of monolayer and few-layer WTe ₂ at the nanoscale. <i>Nature Communications</i> , 2021 , 12, 5594 | 17.4 | 8 |

| | | | |
|----|---|------|---|
| 14 | Infrared nanoimaging of the metal-insulator transition in the charge-density-wave van der Waals material 1T ₁ As ₂ . <i>Physical Review B</i> , 2018 , 97, | 3.3 | 7 |
| 13 | Dual-Gated Graphene Devices for Near-Field Nano-imaging. <i>Nano Letters</i> , 2021 , 21, 1688-1693 | 11.5 | 5 |
| 12 | Deep Learning Analysis of Polaritonic Wave Images. <i>ACS Nano</i> , 2021 , | 16.7 | 4 |
| 11 | Probing subwavelength in-plane anisotropy with antenna-assisted infrared nano-spectroscopy. <i>Nature Communications</i> , 2021 , 12, 2649 | 17.4 | 4 |
| 10 | Nano-imaging of strain-tuned stripe textures in a Mott crystal. <i>Npj Quantum Materials</i> , 2021 , 6, | 5 | 4 |
| 9 | Intertwined magnetic, structural, and electronic transitions in V ₂ O ₃ . <i>Physical Review B</i> , 2019 , 100, | 3.3 | 4 |
| 8 | Nanoscale Infrared Spectroscopy and Imaging of Catalytic Reactions in Cu ₂ O Crystals. <i>ACS Photonics</i> , 2020 , 7, 576-580 | 6.3 | 3 |
| 7 | Nano-spectroscopy of excitons in atomically thin transition metal dichalcogenides.. <i>Nature Communications</i> , 2022 , 13, 542 | 17.4 | 3 |
| 6 | Nanotextured Dynamics of a Light-Induced Phase Transition in VO. <i>Nano Letters</i> , 2021 , 21, 9052-9060 | 11.5 | 3 |
| 5 | Active control of micrometer plasmon propagation in suspended graphene.. <i>Nature Communications</i> , 2022 , 13, 1465 | 17.4 | 2 |
| 4 | Visualizing Atomically-Layered Magnetism in CrSBr.. <i>Advanced Materials</i> , 2022 , e2201000 | 24 | 2 |
| 3 | Programmable Bloch polaritons in graphene. <i>Science Advances</i> , 2021 , 7, | 14.3 | 1 |
| 2 | Infrared Pump-Probe Spectroscopy of Plasmons in Graphene and Semiconductors. <i>Microscopy and Microanalysis</i> , 2015 , 21, 1415-1416 | 0.5 | 0 |
| 1 | Nanoscale Infrared Spectroscopy:A non-Destructive Probe of Formation History in Extraterrestrial Samples. <i>Microscopy and Microanalysis</i> , 2014 , 20, 1668-1669 | 0.5 | |