

Alexander Mcleod

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.

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	Nano-spectroscopy of excitons in atomically thin transition metal dichalcogenides.. <i>Nature Communications</i> , 2022 , 13, 542	17.4	3
48	Active control of micrometer plasmon propagation in suspended graphene.. <i>Nature Communications</i> , 2022 , 13, 1465	17.4	2
47	Visualizing Atomically-Layered Magnetism in CrSBr.. <i>Advanced Materials</i> , 2022 , e2201000	24	2
46	Deep Learning Analysis of Polaritonic Wave Images. <i>ACS Nano</i> , 2021 ,	16.7	4
45	Nanotextured Dynamics of a Light-Induced Phase Transition in VO. <i>Nano Letters</i> , 2021 , 21, 9052-9060	11.5	3
44	Hyperbolic enhancement of photocurrent patterns in minimally twisted bilayer graphene. <i>Nature Communications</i> , 2021 , 12, 1641	17.4	13
43	Programmable Bloch polaritons in graphene. <i>Science Advances</i> , 2021 , 7,	14.3	1
42	Probing subwavelength in-plane anisotropy with antenna-assisted infrared nano-spectroscopy. <i>Nature Communications</i> , 2021 , 12, 2649	17.4	4
41	Nano-imaging of strain-tuned stripe textures in a Mott crystal. <i>Npj Quantum Materials</i> , 2021 , 6,	5	4
40	Fizeau drag in graphene plasmonics. <i>Nature</i> , 2021 , 594, 513-516	50.4	20
39	Long-Lived Phonon Polaritons in Hyperbolic Materials. <i>Nano Letters</i> , 2021 , 21, 5767-5773	11.5	11
38	Hyperbolic Cooper-Pair Polaritons in Planar Graphene/Cuprate Plasmonic Cavities. <i>Nano Letters</i> , 2021 , 21, 308-316	11.5	8
37	Moiré metrology of energy landscapes in van der Waals heterostructures. <i>Nature Communications</i> , 2021 , 12, 242	17.4	22
36	Dual-Gated Graphene Devices for Near-Field Nano-imaging. <i>Nano Letters</i> , 2021 , 21, 1688-1693	11.5	5
35	Terahertz response of monolayer and few-layer WTe at the nanoscale. <i>Nature Communications</i> , 2021 , 12, 5594	17.4	8
34	Nano-photocurrent Mapping of Local Electronic Structure in Twisted Bilayer Graphene. <i>Nano Letters</i> , 2020 , 20, 2958-2964	11.5	20
33	Nanoscale Infrared Spectroscopy and Imaging of Catalytic Reactions in Cu ₂ O Crystals. <i>ACS Photonics</i> , 2020 , 7, 576-580	6.3	3

32	Moiré Engineering of electronic phenomena in correlated oxides. <i>Nature Physics</i> , 2020 , 16, 631-635	16.2	19
31	Multi-messenger nanoprobe of hidden magnetism in a strained manganite. <i>Nature Materials</i> , 2020 , 19, 397-404	27	33
30	Charge-Transfer Plasmon Polaritons at Graphene/ERuCl Interfaces. <i>Nano Letters</i> , 2020 , 20, 8438-8445	11.5	17
29	Quantitative Nanoinfrared Spectroscopy of Anisotropic van der Waals Materials. <i>Nano Letters</i> , 2020 , 20, 7933-7940	11.5	12
28	Photonic crystal for graphene plasmons. <i>Nature Communications</i> , 2019 , 10, 4780	17.4	30
27	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
26	Intertwined magnetic, structural, and electronic transitions in V ₂ O ₃ . <i>Physical Review B</i> , 2019 , 100,	3.3	4
25	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
24	Coexisting first- and second-order electronic phase transitions in a correlated oxide. <i>Nature Physics</i> , 2018 , 14, 1056-1061	16.2	43
23	Internal strain tunes electronic correlations on the nanoscale. <i>Science Advances</i> , 2018 , 4, eaau9123	14.3	21
22	Photonic crystals for nano-light in moiré graphene superlattices. <i>Science</i> , 2018 , 362, 1153-1156	33.3	164
21	Imaging the nanoscale phase separation in vanadium dioxide thin films at terahertz frequencies. <i>Nature Communications</i> , 2018 , 9, 3604	17.4	46
20	Fundamental limits to graphene plasmonics. <i>Nature</i> , 2018 , 557, 530-533	50.4	280
19	Nanotextured phase coexistence in the correlated insulator V ₂ O ₃ . <i>Nature Physics</i> , 2017 , 13, 80-86	16.2	123
18	Artifact free time resolved near-field spectroscopy. <i>Optics Express</i> , 2017 , 25, 28589	3.3	22
17	Ultrafast optical switching of infrared plasmon polaritons in high-mobility graphene. <i>Nature Photonics</i> , 2016 , 10, 244-247	33.9	252
16	Active Optical Metasurfaces Based on Defect-Engineered Phase-Transition Materials. <i>Nano Letters</i> , 2016 , 16, 1050-5	11.5	147
15	Subdiffractional focusing and guiding of polaritonic rays in a natural hyperbolic material. <i>Nature Communications</i> , 2015 , 6, 6963	17.4	255

14	Edge and Surface Plasmons in Graphene Nanoribbons. <i>Nano Letters</i> , 2015 , 15, 8271-6	11.5	128
13	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
12	Infrared Pump-Probe Spectroscopy of Plasmons in Graphene and Semiconductors. <i>Microscopy and Microanalysis</i> , 2015 , 21, 1415-1416	0.5	0
11	Model for quantitative tip-enhanced spectroscopy and the extraction of nanoscale-resolved optical constants. <i>Physical Review B</i> , 2014 , 90,	3.3	111
10	Tunable phonon polaritons in atomically thin van der Waals crystals of boron nitride. <i>Science</i> , 2014 , 343, 1125-9	33.3	695
9	Nanoscale Infrared Spectroscopy: A non-Destructive Probe of Formation History in Extraterrestrial Samples. <i>Microscopy and Microanalysis</i> , 2014 , 20, 1668-1669	0.5	
8	Infrared nanospectroscopy and imaging of collective superfluid excitations in anisotropic superconductors. <i>Physical Review B</i> , 2014 , 90,	3.3	28
7	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
6	Nanoscale infrared spectroscopy as a non-destructive probe of extraterrestrial samples. <i>Nature Communications</i> , 2014 , 5, 5445	17.4	42
5	Electronic and plasmonic phenomena at graphene grain boundaries. <i>Nature Nanotechnology</i> , 2013 , 8, 821-5	28.7	191
4	Gate-tuning of graphene plasmons revealed by infrared nano-imaging. <i>Nature</i> , 2012 , 487, 82-5	50.4	1451
3	Near-field spectroscopy of silicon dioxide thin films. <i>Physical Review B</i> , 2012 , 85,	3.3	68
2	Infrared nanoscopy of dirac plasmons at the graphene-SiO ₂ interface. <i>Nano Letters</i> , 2011 , 11, 4701-5	11.5	431
1	Hybrid Machine Learning for Scanning Near-Field Optical Spectroscopy. <i>ACS Photonics</i> ,	6.3	8