Alexey B Kuzmenko

List of Publications by Year
in descending order

29 papers	2,110 citations	528359 15 h-index	512366 27 g-index
32 all docs	32 docs citations	32 times ranked	3433 citing authors

#	Article	IF	Citations
1	Kramersâ€“Kronig constrained variational analysis of optical spectra. Review of Scientific Instruments, 2005, 76, 083108.	1.4	610
2	Giant Faraday rotation in single- and multilayer graphene. Nature Physics, 2011, 7, 48-51.	11.8	538
3	Intrinsic Terahertz Plasmons and Magnetoplasmons in Large Scale Monolayer Graphene. Nano Letters, 2012, 12, 2470-2474.	9.5	231
4	Electron-Phonon Interaction and Charge Carrier Mass Enhancement in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>SrTiO</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:math>. Physical Review Letters, 2008, 100, 226403.	8.0	177
5	Near optimal graphene terahertz non-reciprocal isolator. Nature Communications, 2016, 7, 11216.	13.2	113
6	Electrically controlled terahertz magneto-optical phenomena in continuous and patterned graphene. Nature Communications, 2017, 8, 14626.	13.2	105
7	Fabry-Perot enhanced Faraday rotation in graphene. Optics Express, 2013, 21, 24736.	3.4	48
8	Multicomponent magneto-optical conductivity of multilayer graphene on SiC. Physical Review B, 2011, 84, .	3.3	44
9	Colossal infrared and terahertz magneto-optical activity in a two-dimensional Dirac material. Nature Nanotechnology, 2019, 14, 756-761.	30.5	32
10	Infrared study of lattice dynamics and spin-phonon and electron-phonon interactions in multiferroic<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>TbF</mml:mi><mml:msub><mml:mi mathvariant="normal">e</mml:mi><mml:mn>3</mml:mn></mml:msub><mml:msub><mml:mrow><mml:mo>(</mml:mo>	3.3	28
11	Magnetoplasmonic enhancement of Faraday rotation in patterned graphene metasurfaces. Physical Review B, 2018, 97, .	3.3	28
12	Classical to quantum crossover of the cyclotron resonance in graphene: a study of the strength of intraband absorption. New Journal of Physics, 2012, 14, 095008.	2.9	24
13	Magneto-optical Kramers-Kronig analysis. Review of Scientific Instruments, 2015, 86, 033906.	1.4	19
14	Real-Time Observation of Phonon-Mediated <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>Ïƒ</mml:mi><mml:mtext>â^'</mml:mtext><mml:mi>Ï€</mml:mi></mml:mrow></mml:math> Interband Scattering in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>MgB</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></</r	8.0	18
15	Physical Review Letters, 2017, 119, 097002. High sensitivity variable-temperature infrared nanoscopy of conducting oxide interfaces. Nature Communications, 2019, 10, 2774.	13.2	18
16	Raman spectroscopic evidence for multiferroicity in rare earth nickelate single crystals. Physical Review Research, 2021, 3, .	3.6	14
17	Spectral weight of hole-doped cuprates across the pseudogap critical point. Physical Review Research, 2021, 3, .	3.6	9
18	Suppressed Magnetic Circular Dichroism and Valley-Selective Magnetoabsorption due to the Effective Mass Anisotropy in Bismuth. Physical Review Letters, 2016, 117, 017402.	8.0	8

#	Article	IF	Citations
19	Nanoinfrared Characterization of Bilayer Graphene Conductivity under Dual-Gate Tuning. Nano Letters, 2021, 21, 5151-5157.	9.5	8
20	Light scattering from the critical modes of the Verwey transition in magnetite. Physical Review B, 2018, 98, .	3.3	7
21	Optical properties of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>La</mml:mi><mml:mi>Ni</mml:mi><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:mrow></mml:math> films tuned from compressive to tensile strain. Physical Review B, 2020, 102, .	3.3	6
22	Infrared nano-imaging of Dirac magnetoexcitons in graphene. Nature Nanotechnology, 2023, 18, 1409-1415.	30.5	6
23	Magnetically tunable graphene-based reflector under linear polarized incidence at room temperature. Applied Physics Letters, 2018, 112, .	3.2	4
24	Electronic transport in submicrometric channels at the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mrow><mml:msub><mml:mi>LaAlO</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:mrow></mml:msub></mml:math> interface. Physical Review B, 2021, 103, .	3.3	4
25	Thermal and electrostatic tuning of surface phonon-polaritons in LaAlO3/SrTiO3 heterostructures. Nature Communications, 2023, 14, .	13.2	4
26	Interband plasmon polaritons in magnetized charge-neutral graphene. Communications Physics, 2021, 4, .	5.3	3
27	Ultracompact Binary Permanent Rare-Earth Magnet with 1.25-T Center Field and Fast-Decaying Stray Field. Physical Review Applied, 2021, 16, .	3.8	2
28	Highly confined epsilon-near-zero and surface phonon polaritons in SrTiO3 membranes. Nature Communications, 2024, 15, .	13.2	0
29	Topological valley plasmons in twisted monolayer-bilayer graphene moirÃ© superlattices. Physical Review B, 2024, 110, .	3.3	0