

# Alexey B Kuzmenko

## List of Publications by Citations

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21  
papers

1,557  
citations

12  
h-index

25  
g-index

25  
ext. papers

1,785  
ext. citations

7.6  
avg, IF

4.74  
L-index

#	Paper	IF	Citations
21	Giant Faraday rotation in single- and multilayer graphene. <i>Nature Physics</i> , <b>2011</b> , 7, 48-51	16.2	428
20	Kramers-Kronig constrained variational analysis of optical spectra. <i>Review of Scientific Instruments</i> , <b>2005</b> , 76, 083108	1.7	425
19	Intrinsic terahertz plasmons and magnetoplasmons in large scale monolayer graphene. <i>Nano Letters</i> , <b>2012</b> , 12, 2470-4	11.5	191
18	Electron-phonon interaction and charge carrier mass enhancement in SrTiO <sub>3</sub> . <i>Physical Review Letters</i> , <b>2008</b> , 100, 226403	7.4	150
17	Near optimal graphene terahertz non-reciprocal isolator. <i>Nature Communications</i> , <b>2016</b> , 7, 11216	17.4	81
16	Electrically controlled terahertz magneto-optical phenomena in continuous and patterned graphene. <i>Nature Communications</i> , <b>2017</b> , 8, 14626	17.4	68
15	Fabry-Perot enhanced Faraday rotation in graphene. <i>Optics Express</i> , <b>2013</b> , 21, 24736-41	3.3	44
14	Multicomponent magneto-optical conductivity of multilayer graphene on SiC. <i>Physical Review B</i> , <b>2011</b> , 84,	3.3	40
13	Classical to quantum crossover of the cyclotron resonance in graphene: a study of the strength of intraband absorption. <i>New Journal of Physics</i> , <b>2012</b> , 14, 095008	2.9	23
12	Infrared study of lattice dynamics and spin-phonon and electron-phonon interactions in multiferroic TbFe <sub>3</sub> (BO <sub>3</sub> ) <sub>4</sub> and GdFe <sub>3</sub> (BO <sub>3</sub> ) <sub>4</sub> . <i>Physical Review B</i> , <b>2016</b> , 93,	3.3	21
11	Magnetoplasmonic enhancement of Faraday rotation in patterned graphene metasurfaces. <i>Physical Review B</i> , <b>2018</b> , 97,	3.3	20
10	Colossal infrared and terahertz magneto-optical activity in a two-dimensional Dirac material. <i>Nature Nanotechnology</i> , <b>2019</b> , 14, 756-761	28.7	16
9	Magneto-optical Kramers-Kronig analysis. <i>Review of Scientific Instruments</i> , <b>2015</b> , 86, 033906	1.7	12
8	High sensitivity variable-temperature infrared nanoscopy of conducting oxide interfaces. <i>Nature Communications</i> , <b>2019</b> , 10, 2774	17.4	10
7	Real-Time Observation of Phonon-Mediated Interband Scattering in MgB <sub>2</sub> . <i>Physical Review Letters</i> , <b>2017</b> , 119, 097002	7.4	9
6	Nanoinfrared Characterization of Bilayer Graphene Conductivity under Dual-Gate Tuning. <i>Nano Letters</i> , <b>2021</b> , 21, 5151-5157	11.5	5
5	Suppressed Magnetic Circular Dichroism and Valley-Selective Magnetoabsorption due to the Effective Mass Anisotropy in Bismuth. <i>Physical Review Letters</i> , <b>2016</b> , 117, 017402	7.4	4

4	Magnetically tunable graphene-based reflector under linear polarized incidence at room temperature. <i>Applied Physics Letters</i> , <b>2018</b> , 112, 151103	3-4	3
3	Light scattering from the critical modes of the Verwey transition in magnetite. <i>Physical Review B</i> , <b>2018</b> , 98,	3-3	3
2	Optical properties of LaNiO <sub>3</sub> films tuned from compressive to tensile strain. <i>Physical Review B</i> , <b>2020</b> , 102,	3-3	2
1	Electronic transport in submicrometric channels at the LaAlO <sub>3</sub> /SrTiO <sub>3</sub> interface. <i>Physical Review B</i> , <b>2021</b> , 103,	3-3	1