

# Alexandre Karpov

## List of Publications by Year in descending order

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46  
papers

1,049  
citations

759233

12  
h-index

434195

31  
g-index

46  
all docs

46  
docs citations

46  
times ranked

1039  
citing authors

#	ARTICLE	IF	CITATIONS
1	The Herschel-Heterodyne Instrument for the Far-Infrared (HIFI). <i>Astronomy and Astrophysics</i> , 2010, 518, L6.	5.1	557
2	Herschel/HIFI measurements of the ortho/para ratio in water towards Sagittarius B2(M) and W31C. <i>Astronomy and Astrophysics</i> , 2010, 521, L26.	5.1	57
3	Herschel observations of EXtra-Ordinary Sources (HEXOS): Detection of hydrogen fluoride in absorption towards Orion KL. <i>Astronomy and Astrophysics</i> , 2010, 518, L109.	5.1	48
4	Low Noise 1 THz–1.4 THz Mixers Using Nb/Al-AlN/NbTiN SIS Junctions. <i>IEEE Transactions on Applied Superconductivity</i> , 2007, 17, 343-346.	1.7	47
5	Detection of OH <sup>+</sup> and H <sub>2</sub> O <sup>+</sup> towards Orion KL. <i>Astronomy and Astrophysics</i> , 2010, 521, L47.	5.1	40
6	Herschel observations of ortho- and para-oxidaniumyl (H <sub>2</sub> O <sup>+</sup> ) in spiral arm clouds toward Sagittarius B2(M). <i>Astronomy and Astrophysics</i> , 2010, 521, L11.	5.1	35
7	Herschel observations of EXtra-Ordinary Sources (HEXOS): The Terahertz spectrum of Orion KL seen at high spectral resolution. <i>Astronomy and Astrophysics</i> , 2010, 521, L21.	5.1	29
8	Herschel observations of EXtra-Ordinary Sources (HEXOS): detecting spiral arm clouds by CH absorption lines. <i>Astronomy and Astrophysics</i> , 2010, 521, L14.	5.1	27
9	A three photon noise SIS heterodyne receiver at submillimeter wavelength. <i>IEEE Transactions on Applied Superconductivity</i> , 1999, 9, 4456-4459.	1.7	24
10	Four photons sensitivity heterodyne detection of submillimeter radiation with superconducting tunnel junctions. <i>IEEE Transactions on Applied Superconductivity</i> , 1995, 5, 3304-3307.	1.7	21
11	Electrodynamics of a ring-shaped spiral resonator. <i>Journal of Applied Physics</i> , 2014, 115, .	2.5	21
12	Low-noise SIS mixer for far-infrared radio astronomy. , 2004, 5498, 616.		15
13	Electrodynamics of planar Archimedean spiral resonator. <i>Journal of Applied Physics</i> , 2015, 118, .	2.5	14
14	Processing and characterization of high Jc NbN superconducting tunnel junctions for THz analog circuits and RSFQ. <i>IEEE Transactions on Applied Superconductivity</i> , 1999, 9, 3216-3219.	1.7	12
15	Submicron Nb-Al-oxide-Nb junctions for frequency mixers. <i>Superconductor Science and Technology</i> , 1993, 6, 373-377.	3.5	11
16	Terahertz frequency receiver instrumentation for Herschel's heterodyne instrument for far infrared (HIFI). , 2003, , .		9
17	Noise and gain in frequency mixers with NbN SIS junctions. <i>IEEE Transactions on Applied Superconductivity</i> , 1997, 7, 1077-1080.	1.7	8
18	Development of 1.25 THz SIS mixer for Herschel Space Observatory. , 2006, 6275, 605.		7

#	ARTICLE	IF	CITATIONS
19	Broadband sample holder for microwave spectroscopy of superconducting qubits. Review of Scientific Instruments, 2014, 85, 104702.	1.3	7
20	Low noise SIS mixer for 230 GHz receivers of plateau de bure interferometer. Journal of Infrared, Millimeter and Terahertz Waves, 1997, 18, 301-317.	0.6	6
21	European Minor Constituent Radiometer: A New Millimeter Wave Receiver for Atmospheric Research. Journal of Infrared, Millimeter and Terahertz Waves, 2001, 22, 1555-1575.	0.6	6
22	A 125-180 GHz fixed-tuned SIS mixer for radioastronomy. IEEE Transactions on Applied Superconductivity, 1997, 7, 1073-1076.	1.7	5
23	Imaging Coherent Response of Superconducting Metasurface. IEEE Transactions on Applied Superconductivity, 2016, 26, 1-3.	1.7	5
24	Dual-channel sis receivers for the iram Plateau de Bure Interferometer. Journal of Infrared, Millimeter and Terahertz Waves, 1996, 17, 2133-2144.	0.6	4
25	Development of Low Noise THz SIS Mixer Using an Array of Nb/Al-AlN/NbTiN Junctions. IEEE Transactions on Applied Superconductivity, 2009, 19, 305-308.	1.7	4
26	Low Noise 1 THz SIS Mixer for Stratospheric Observatory: Design and Characterization. IEEE Transactions on Applied Superconductivity, 2011, 21, 616-619.	1.7	4
27	Double-barrier tunnel junctions for quasiparticle mixers. Journal of Applied Physics, 1994, 75, 4097-4102.	2.5	3
28	<title>Noise properties of a mixer with SIS NbN quasi-particle tunnel junctions</title>. , 1995, , .		3
29	Superconductive Ultracompact Magnetically Coupled Resonator With Twin-Spiral Structure. IEEE Transactions on Applied Superconductivity, 2017, 27, 1-4.	1.7	3
30	Phase-sensitive imaging of microwave currents in superconductive circuits. Applied Physics Letters, 2019, 114, .	3.3	3
31	Low noise submillimeter SIS receiver with niobium nitride quasiparticle tunnel junctions. Journal of Infrared, Millimeter and Terahertz Waves, 1996, 17, 1139-1147.	0.6	2
32	A Multibeam SIS Mixer Module for a Focal Plane Array Receiver. Journal of Infrared, Millimeter and Terahertz Waves, 1998, 19, 1175-1190.	0.6	2
33	<title>Receivers for ground-based millimeter-wave radio telescopes</title>. , 1998, , .		2
34	A 200-300 GHz single sideband SIS mixer for radio astronomy. IEEE Transactions on Applied Superconductivity, 2001, 11, 844-847.	1.7	2
35	Imaging the electromagnetic response of superconducting metasurfaces. , 2013, , .		2
36	Noise and thermal properties of a submillimeter mixer with the SINS tunnel junction. Journal of Infrared, Millimeter and Terahertz Waves, 1995, 16, 1299-1315.	0.6	1

#	ARTICLE	IF	CITATIONS
37	Superconductor-insulator-normal conductor tunnel junctions for frequency mixing around 300 GHz. Journal of Applied Physics, 1995, 78, 2113-2116.	2.5	1
38	THz instrumentation for the Herschel Space Observatory's heterodyne instrument for far infrared. , 2004, , .		1
39	Ultra-compact superconductive resonator with double-spiral structure. , 2013, , .		1
40	<title>EMCOR radiometer: calibration and first tests</title>. , 1998, 3503, 362.		0
41	<title>Multibeam SIS mixer module for a focal plane array receiver</title>. , 1998, , .		0
42	A broad band low noise SIS radiometer. IEEE Transactions on Applied Superconductivity, 1999, 9, 4225-4228.	1.7	0
43	Optimising receivers for ground-based millimetre wave radiotelescopes. Comptes Rendus De L'Academie De Sciences - Serie Iib: Mecanique, Physique, Chimie, Astronomie, 1999, 327, 539-546.	0.1	0
44	CASIMIR: The Caltech Airborne Submillimeter Interstellar Medium Investigations Receiver. , 2008, , .		0
45	CASIMIR, The Caltech airborne submillimeter interstellar medium investigations receiver. , 2008, , .		0
46	CASIMIR: a high resolution far-IR/submm spectrometer for airborne astronomy. , 2010, , .		0