

J Gao

List of Publications by Year in descending order

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33
papers

1,104
citations

516710

16
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434195

31
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docs citations

34
times ranked

1148
citing authors

#	ARTICLE	IF	CITATIONS
1	Performance of a Kinetic Inductance Traveling-Wave Parametric Amplifier at 4 Kelvin: Toward an Alternative to Semiconductor Amplifiers. <i>Physical Review Applied</i> , 2022, 17, .	3.8	15
2	Study of quasi-particle dynamics using the optical pulse response of a superconducting resonator. <i>Applied Physics Letters</i> , 2021, 119, 022601.	3.3	0
3	The Simons Observatory Large Aperture Telescope Receiver. <i>Astrophysical Journal, Supplement Series</i> , 2021, 256, 23.	7.7	11
4	The Simons Observatory Microwave SQUID Multiplexing Detector Module Design. <i>Astrophysical Journal</i> , 2021, 922, 38.	4.5	17
5	Demonstration of 220/280ÅGHz Multichroic Feedhorn-Coupled TES Polarimeter. <i>Journal of Low Temperature Physics</i> , 2020, 199, 891-897.	1.4	7
6	Sub-kelvin thermometer for on-chip measurements of microwave devices utilizing two-level systems in superconducting microresonators. <i>Applied Physics Letters</i> , 2020, 117, 192601.	3.3	4
7	Materials loss measurements using superconducting microwave resonators. <i>Review of Scientific Instruments</i> , 2020, 91, 091101.	1.3	91
8	Sensitivity of the Prime-Cam Instrument on the CCAT-Prime Telescope. <i>Journal of Low Temperature Physics</i> , 2020, 199, 1089-1097.	1.4	30
9	Characterization of Aliased Noise in the Advanced ACTPol Receiver. <i>Journal of Low Temperature Physics</i> , 2020, 199, 762-770.	1.4	0
10	Ultrastable millimeter-wave kinetic inductance detectors. <i>Applied Physics Letters</i> , 2020, 116, .	3.3	13
11	Measurement of Optical Constants of TiN and TiN/Ti/TiN Multilayer Films for Microwave Kinetic Inductance Photon-Number-Resolving Detectors. <i>Journal of Low Temperature Physics</i> , 2019, 194, 361-369.	1.4	7
12	280 GHz Focal Plane Unit Design and Characterization for the Spider-2 Suborbital Polarimeter. <i>Journal of Low Temperature Physics</i> , 2018, 193, 1075-1084.	1.4	9
13	Low-Temperature Detectors for CMB Imaging Arrays. <i>Journal of Low Temperature Physics</i> , 2018, 193, 633-647.	1.4	9
14	Millimeter-Wave Polarimeters Using Kinetic Inductance Detectors for TolTEC and Beyond. <i>Journal of Low Temperature Physics</i> , 2018, 193, 120-127.	1.4	36
15	Broadband parametric amplifiers based on nonlinear kinetic inductance artificial transmission lines. <i>Applied Physics Letters</i> , 2017, 110, .	3.3	51
16	Counting near infrared photons with microwave kinetic inductance detectors. <i>Applied Physics Letters</i> , 2017, 110, .	3.3	45
17	Superconducting micro-resonator arrays with ideal frequency spacing. <i>Applied Physics Letters</i> , 2017, 111, .	3.3	26
18	Low-noise kinetic inductance traveling-wave amplifier using three-wave mixing. <i>Applied Physics Letters</i> , 2016, 108, .	3.3	83

#	ARTICLE	IF	CITATIONS
19	Optical Demonstration of THz, Dual-Polarization Sensitive Microwave Kinetic Inductance Detectors. Journal of Low Temperature Physics, 2016, 184, 173-179.	1.4	16
20	Traveling wave parametric amplifier with Josephson junctions using minimal resonator phase matching. Applied Physics Letters, 2015, 106, .	3.3	124
21	Photon-noise limited sensitivity in titanium nitride kinetic inductance detectors. Applied Physics Letters, 2015, 106, .	3.3	57
22	Development of a Broadband NbTiN Traveling Wave Parametric Amplifier for MKID Readout. Journal of Low Temperature Physics, 2014, 176, 476-482.	1.4	62
23	Properties of TiN for Detector and Amplifier Applications. Journal of Low Temperature Physics, 2014, 176, 136-141.	1.4	12
24	Frequency Comb Generation in Superconducting Resonators. Physical Review Letters, 2014, 113, 187002.	7.8	23
25	New Method for Determining the Quality Factor and Resonance Frequency of Superconducting Micro-Resonators from Sonnet Simulations. Journal of Low Temperature Physics, 2014, 176, 538-544.	1.4	8
26	Dual-Polarization-Sensitive Kinetic Inductance Detectors for Balloon-borne Sub-millimeter Polarimetry. Journal of Low Temperature Physics, 2014, 176, 490-496.	1.4	2
27	Improvements in Silicon Oxide Dielectric Loss for Superconducting Microwave Detector Circuits. IEEE Transactions on Applied Superconductivity, 2013, 23, 1501204-1501204.	1.7	15
28	A titanium-nitride near-infrared kinetic inductance photon-counting detector and its anomalous electro-dynamics. Applied Physics Letters, 2012, 101, .	3.3	69
29	Strongly quadrature-dependent noise in superconducting microresonators measured at the vacuum-noise limit. Applied Physics Letters, 2011, 98, .	3.3	26
30	Low loss superconducting titanium nitride coplanar waveguide resonators. Applied Physics Letters, 2010, 97, .	3.3	141
31	A WIMP Dark Matter Detector Using MKIDs. Journal of Low Temperature Physics, 2008, 151, 550-556.	1.4	19
32	Equivalence of the Effects on the Complex Conductivity of Superconductor due to Temperature Change and External Pair Breaking. Journal of Low Temperature Physics, 2008, 151, 557-563.	1.4	70
33	Kinetic Inductance Phonon Sensors for the Cryogenic Dark Matter Search Experiment. Journal of Low Temperature Physics, 2008, 151, 544-549.	1.4	6