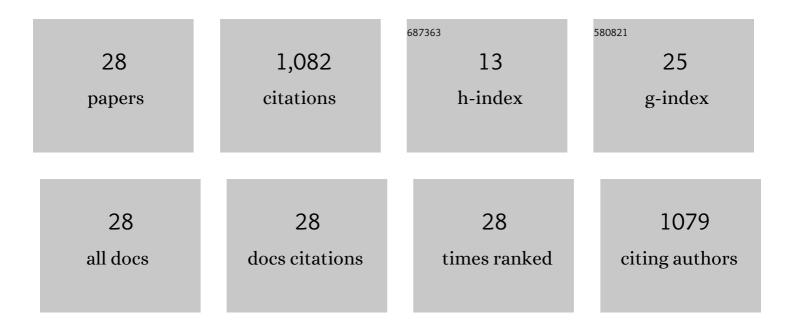
Xiao Liu

List of Publications by Year in descending order

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XIAO LIII

#	Article	IF	CITATIONS
1	Low-temperature thermal conductivity and acoustic attenuation in amorphous solids. Reviews of Modern Physics, 2002, 74, 991-1013.	45.6	323
2	Amorphous Solid without Low Energy Excitations. Physical Review Letters, 1997, 78, 4418-4421.	7.8	157
3	On the modes and loss mechanisms of a high Q mechanical oscillator. Applied Physics Letters, 2001, 78, 1346-1348.	3.3	94
4	High Thermal Conductivity of a Hydrogenated Amorphous Silicon Film. Physical Review Letters, 2009, 102, 035901.	7.8	73
5	Hydrogen-Free Amorphous Silicon with No Tunneling States. Physical Review Letters, 2014, 113, 025503.	7.8	67
6	Anomalously high thermal conductivity of amorphous Si deposited by hot-wire chemical vapor deposition. Physical Review B, 2010, 81, .	3.2	65
7	Excess Specific Heat in Evaporated Amorphous Silicon. Physical Review Letters, 2013, 110, 135901.	7.8	65
8	Low-energy excitations in amorphous films of silicon and germanium. Physical Review B, 1998, 58, 9067-9081.	3.2	39
9	Two-level systems in evaporated amorphous silicon. Journal of Non-Crystalline Solids, 2015, 426, 19-24.	3.1	29
10	Thermal conductivity of amorphous and nanocrystalline silicon films prepared by hot-wire chemical-vapor deposition. Physical Review B, 2017, 96, .	3.2	25
11	Thermoelastic loss observed in a high Q mechanical oscillator. Physica B: Condensed Matter, 2002, 316-317, 408-410.	2.7	23
12	Dielectric loss extraction for superconducting microwave resonators. Applied Physics Letters, 2020, 116, 194003.	3.3	15
13	The effect of ultrasmall grain sizes on the thermal conductivity of nanocrystalline silicon thin films. Communications Physics, 2021, 4, .	5.3	15
14	Origin of mechanical and dielectric losses from two-level systems in amorphous silicon. Physical Review Materials, 2021, 5, .	2.4	13
15	Internal friction of amorphous and nanocrystalline silicon at low temperatures. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2006, 442, 307-313.	5.6	12
16	Elastic Properties of Several Silicon Nitride Films. Materials Research Society Symposia Proceedings, 2007, 989, 1.	0.1	11
17	Substrate and annealing temperature dependent electrical resistivity of sputtered titanium nitride thin films. Thin Solid Films, 2018, 661, 78-83.	1.8	11
18	From amorphous to nanocrystalline: the effect of nanograins in an amorphous matrix on the thermal conductivity of hot-wire chemical-vapor deposited silicon films. Journal of Physics Condensed Matter, 2018, 30, 085301.	1.8	10

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#	Article	IF	CITATIONS
19	An ultra-high <i>Q</i> silicon compound cantilever resonator for Young's modulus measurements. Review of Scientific Instruments, 2013, 84, 075001.	1.3	8
20	Molecular Hydrogen in Hot-Wire Hydrogenated Amorphous Silicon. Materials Research Society Symposia Proceedings, 1998, 507, 595.	0.1	7
21	An Overview of Research into Low Internal Friction Optical Coatings by the Gravitational Wave Detection Community. Materials Research, 2018, 21, .	1.3	6
22	Elastic Measurements of Amorphous Silicon Films at mK Temperatures. Journal of Low Temperature Physics, 2017, 187, 654-660.	1.4	5
23	An Ultra-High <i>Q</i> Silicon Cantilever Resonator for Thin Film Internal Friction and Young's Modulus Measurements. Solid State Phenomena, 0, 184, 325-330.	0.3	3
24	Thermoelectric Properties of Nanocrystalline Silicon Films Prepared by Hot-Wire and Plasma-Enhanced Chemical-Vapor Depositions. Journal of Electronic Materials, 2019, 48, 5218-5225.	2.2	3
25	Decoupling between propagating acoustic waves and two-level systems in hydrogenated amorphous silicon. Physical Review B, 2021, 104, .	3.2	2
26	Structural tunability and origin of two-level systems in amorphous silicon. Physical Review Materials, 2022, 6, .	2.4	1
27	Manipulation of Classy State in Amorphous Selenium by Low-temperature Internal Friction Measurements. Materials Research, 2018, 21, .	1.3	Ο
28	Annealing and Extended Etching Improve a Torsional Resonator for Thin Film Internal Friction Measurements. Materials Research, 2018, 21, .	1.3	0