

# Ke Chen

## List of Publications by Year in descending order

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38  
papers

510  
citations

623734

14  
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713466

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docs citations

39  
times ranked

573  
citing authors

#	ARTICLE	IF	CITATIONS
1	Planar MgB <sub>2</sub> Josephson junctions and series arrays via nanolithography and ion damage. Applied Physics Letters, 2006, 88, 012509.	3.3	44
2	Structural and electrical properties of epitaxial Bi <sub>2</sub> Se <sub>3</sub> thin films grown by hybrid physical-chemical vapor deposition. Applied Physics Letters, 2012, 100, 162110.	3.3	44
3	Structural and thermoelectric properties of Bi <sub>2</sub> Sr <sub>2</sub> Co <sub>2</sub> O <sub>y</sub> thin films on LaAlO <sub>3</sub> (100) and fused silica substrates. Applied Physics Letters, 2009, 94, 022110.	3.3	36
4	Planar thin film YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-<math>\delta</math></sub> Josephson junction pairs and arrays via nanolithography and ion damage. Applied Physics Letters, 2004, 85, 2863-2865.	3.3	35
5	High-Jc MgB <sub>2</sub> Josephson junctions with operating temperature up to 40 K. Applied Physics Letters, 2010, 96, .	3.3	27
6	Degradation-free interfaces in MgB <sub>2</sub> /insulator/Pb Josephson tunnel junctions. Applied Physics Letters, 2006, 89, 202513.	3.3	25
7	Study of MgB <sub>2</sub> /I/Pb tunnel junctions on MgO (211) substrates. Applied Physics Letters, 2008, 93, 012502.	3.3	24
8	Multifunctional Charge-Transfer Single Crystals through Supramolecular Assembly. Advanced Materials, 2016, 28, 5322-5329.	21.0	21
9	MgB <sub>2</sub> Josephson junctions produced by focused helium ion beam irradiation. AIP Advances, 2018, 8, .	1.3	21
10	Penetration depth of MgB <sub>2</sub> measured using Josephson junctions and SQUIDs. Applied Physics Letters, 2013, 102, 072603.	3.3	19
11	Dry transfer of chemical-vapor-deposition-grown graphene onto liquid-sensitive surfaces for tunnel junction applications. Nanotechnology, 2015, 26, 035302.	2.6	19
12	Momentum-dependent multiple gaps in magnesium diboride probed by electron tunnelling spectroscopy. Nature Communications, 2012, 3, 619.	12.8	15
13	Enhancement of lower critical field by reducing the thickness of epitaxial and polycrystalline MgB <sub>2</sub> thin films. APL Materials, 2015, 3, .	5.1	15
14	Study of Closely Spaced $\text{YBa}_2\text{Cu}_3\text{O}_{7-\delta}$ Josephson Junction Pairs. IEEE Transactions on Applied Superconductivity, 2005, 15, 149-152.	1.7	14
15	Chemically Driven Interfacial Coupling in Charge-Transfer Mediated Functional Superstructures. Nano Letters, 2016, 16, 2851-2859.	9.1	14
16	Excitonic and Confinement Effects of 2D Layered (C <sub>10</sub> H <sub>21</sub> NH <sub>3</sub> ) <sub>2</sub> PbBr <sub>4</sub> Single Crystals. ACS Applied Energy Materials, 2018, 1, 1476-1482.	5.1	14
17	Superconducting magnesium diboride coatings for radio frequency cavities fabricated by hybrid physical-chemical vapor deposition. Physical Review Special Topics: Accelerators and Beams, 2014, 17, .	1.8	13
18	Reduced Critical Current Spread in Planar MgB <sub>2</sub> Josephson Junction Array Made by Focused Helium Ion Beam. IEEE Transactions on Applied Superconductivity, 2019, 29, 1-6.	1.7	11

#	ARTICLE	IF	CITATIONS
19	$\text{MgO}/\text{MgB}_2$ Josephson Junctions for High-Speed Circuits. IEEE Transactions on Applied Superconductivity, 2011, 21, 115-118.	1.7	10
20	Superconducting $\text{MgB}_2$ rapid single flux quantum toggle flip flop circuit. Applied Physics Letters, 2013, 102, .	3.3	10
21	Planar-type $\text{MgB}_2$ SQUIDs utilizing a multilayer process. Applied Physics Letters, 2013, 103, 212603.	3.3	10
22	$\text{MgB}_2$ Thin Films on Metal Substrates for Superconducting RF Cavity Applications. Journal of Superconductivity and Novel Magnetism, 2013, 26, 1563-1568.	1.8	9
23	Study of Components for $\text{MgB}_2$ RSFQ Digital Circuits. IEEE Transactions on Applied Superconductivity, 2013, 23, 1700204-1700204.	1.7	7
24	Study of $\text{MgB}_2$ Josephson Junction Arrays and Sub- $\mu\text{m}$ Junctions. IEEE Transactions on Applied Superconductivity, 2015, 25, 1-4.	1.7	7
25	Normal-state and superconducting properties of Co-doped $\text{BaFe}_2\text{As}_2$ and $\text{MgB}_2$ thin films after focused helium ion beam irradiation. Superconductor Science and Technology, 2019, 32, 095009.	3.5	6
26	Study of Planar $\text{MgB}_2/\text{TiB}_2/\text{MgB}_2$ Josephson Junctions Using the Proximity Effect SNS Model. IEEE Transactions on Applied Superconductivity, 2007, 17, 955-958.	1.7	5
27	Multiple Andreev reflection in $\text{MgB}_2/\text{MgO}/\text{MgB}_2$ Josephson junctions. Applied Physics Letters, 2012, 100, 122601.	3.3	4
28	Large-Area $\text{MgB}_2$ Films Fabricated by Scaled-Up Hybrid Physical-Chemical Vapor Deposition. IEEE Transactions on Applied Superconductivity, 2013, 23, 7500304-7500304.	1.7	4
29	Energy gap substructures in conductance measurements of $\text{MgB}_2$ -based Josephson junctions: beyond the two-gap model. Superconductor Science and Technology, 2015, 28, 055015.	3.5	4
30	Multilayer $\text{MgB}_2$ superconducting quantum interference filter magnetometers. Applied Physics Letters, 2016, 108, 172602.	3.3	4
31	Graphene tunnel junctions with aluminum oxide barrier. Journal of Applied Physics, 2016, 120, .	2.5	4
32	Electrical properties of graphene tunnel junctions with high- $\kappa$ metal-oxide barriers. Journal Physics D: Applied Physics, 2017, 50, 155101.	2.8	4
33	Epitaxial Ultrathin $\text{MgB}_2$ Films on C-Terminated 6H-SiC (0001) Substrates Grown by HPCVD. IEEE Transactions on Applied Superconductivity, 2022, 32, 1-4.	1.7	3
34	$\text{MgB}_2/\text{insulator}/\text{Pb}$ Josephson Junctions With Different Tunnel Barriers. IEEE Transactions on Applied Superconductivity, 2007, 17, 218-221.	1.7	2
35	Study of the Josephson Current of $\text{MgB}_2/\text{Insulator}/\text{Pb}$ Tunnel Junctions. IEEE Transactions on Applied Superconductivity, 2009, 19, 261-264.	1.7	2
36	Growth of $\text{MgB}_2$ Thin Films <i>In Situ</i> by RF Magnetron Sputtering With a Pocket Heater. IEEE Transactions on Applied Superconductivity, 2009, 19, 2811-2814.	1.7	2

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37	Tunneling investigation of the electron scattering effect on the momentum-dependent energy gap distribution in MgB <sub>2</sub> . Journal of Applied Physics, 2013, 113, 083902.	2.5	1
38	Microwave resonant activation in hybrid single-gap/two-gap Josephson tunnel junctions. Journal of Applied Physics, 2016, 120, 123904.	2.5	1