

# Ke Wang

## List of Publications by Year in descending order

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80  
papers

3,558  
citations

186265  
28  
h-index

138484  
58  
g-index

80  
all docs

80  
docs citations

80  
times ranked

5847  
citing authors

#	ARTICLE	IF	CITATIONS
1	Two-dimensional gallium nitride realized via graphene encapsulation. <i>Nature Materials</i> , 2016, 15, 1166-1171.	27.5	626
2	Nanoporous Au-Pt Alloys As Large Strain Electrochemical Actuators. <i>Nano Letters</i> , 2010, 10, 187-194.	9.1	286
3	Readability of 10-K Reports and Stock Price Crash Risk. <i>Contemporary Accounting Research</i> , 2019, 36, 1184-1216.	3.0	207
4	Demonstration of the cold sintering process study for the densification and grain growth of ZnO ceramics. <i>Journal of the American Ceramic Society</i> , 2017, 100, 546-553.	3.8	197
5	Giant magnetostriction in annealed Co <sub>1-x</sub> Fe <sub>x</sub> thin-films. <i>Nature Communications</i> , 2011, 2, 518.	12.8	188
6	Cold Sintered Ceramic Nanocomposites of 2D MXene and Zinc Oxide. <i>Advanced Materials</i> , 2018, 30, e1801846.	21.0	149
7	Fermi level depinning and contact resistivity reduction using a reduced titania interlayer in n-silicon metal-insulator-semiconductor ohmic contacts. <i>Applied Physics Letters</i> , 2014, 104, .	3.3	145
8	Tuning the Electronic and Photonic Properties of Monolayer MoS <sub>2</sub> via In Situ Rhenium Substitutional Doping. <i>Advanced Functional Materials</i> , 2018, 28, 1706950.	14.9	137
9	Atomically thin half-van der Waals metals enabled by confinement heteroepitaxy. <i>Nature Materials</i> , 2020, 19, 637-643.	27.5	114
10	The impact of graphene properties on GaN and AlN nucleation. <i>Surface Science</i> , 2015, 634, 81-88.	1.9	88
11	Transmission electron microscopy characterization of Zircaloy-4 and ZIRLO <sub>2</sub> oxide layers. <i>Journal of Nuclear Materials</i> , 2015, 456, 272-280.	2.7	85
12	Epitaxial graphene/silicon carbide intercalation: a minireview on graphene modulation and unique 2D materials. <i>Nanoscale</i> , 2019, 11, 15440-15447.	5.6	85
13	Development of microfluidic impedance cytometry enabling the quantification of specific membrane capacitance and cytoplasm conductivity from 100,000 single cells. <i>Biosensors and Bioelectronics</i> , 2018, 111, 138-143.	10.1	74
14	3D structure determination of native mammalian cells using cryo-FIB and cryo-electron tomography. <i>Journal of Structural Biology</i> , 2012, 180, 318-326.	2.8	66
15	Observation of Quasi-Two-Dimensional Polar Domains and Ferroelastic Switching in a Metal, Ca <sub>3</sub> Ru <sub>2</sub> O <sub>7</sub> . <i>Nano Letters</i> , 2018, 18, 3088-3095.	9.1	62
16	Distinct conducting layer edge states in two-dimensional (2D) halide perovskite. <i>Science Advances</i> , 2019, 5, eaau3241.	10.3	62
17	Cold sintering and co-firing of a multilayer device with thermoelectric materials. <i>Journal of the American Ceramic Society</i> , 2017, 100, 3488-3496.	3.8	60
18	Considerations for Utilizing Sodium Chloride in Epitaxial Molybdenum Disulfide. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 40831-40837.	8.0	58

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19	Introducing a ZnO@PTFE (Polymer) Nanocomposite Varistor via the Cold Sintering Process. <i>Advanced Engineering Materials</i> , 2018, 20, 1700902.	3.5	55
20	Prospects of direct growth boron nitride films as substrates for graphene electronics. <i>Journal of Materials Research</i> , 2014, 29, 459-471.	2.6	51
21	Spontaneous Formation of Atomically Thin Stripes in Transition Metal Dichalcogenide Monolayers. <i>Nano Letters</i> , 2016, 16, 6982-6987.	9.1	48
22	Large-area synthesis of WSe <sub>2</sub> from WO <sub>3</sub> by selenium-oxygen ion exchange. <i>2D Materials</i> , 2015, 2, 014003.	4.4	37
23	Specific membrane capacitance, cytoplasm conductivity and instantaneous Young's modulus of single tumour cells. <i>Scientific Data</i> , 2017, 4, 170015.	5.3	37
24	Size effects on the hydrogen storage properties of nanoscaffolded Li <sub>3</sub> BN <sub>2</sub> H <sub>8</sub> . <i>Nanotechnology</i> , 2009, 20, 204002.	2.6	36
25	An Improved Indirect Field-Oriented Control Scheme for Linear Induction Motor Traction Drives. <i>IEEE Transactions on Industrial Electronics</i> , 2018, 65, 9928-9937.	7.9	35
26	Cold Sintering Na <sub>2</sub> Mo <sub>2</sub> O <sub>7</sub> Ceramic with Poly(ether imide) (PEI) Polymer to Realize High-Performance Composites and Integrated Multilayer Circuits. <i>ACS Applied Nano Materials</i> , 2018, 1, 3837-3844.	5.0	35
27	Electric-Field Induced Reversible Switching of the Magnetic Easy Axis in Co/BiFeO <sub>3</sub> on SrTiO <sub>3</sub> . <i>Nano Letters</i> , 2017, 17, 2825-2832.	9.1	33
28	Three-dimensional atomic scale electron density reconstruction of octahedral tilt epitaxy in functional perovskites. <i>Nature Communications</i> , 2018, 9, 5220.	12.8	32
29	Thermosetting polymers in cold sintering: The fabrication of ZnO@polydimethylsiloxane composites. <i>Journal of the American Ceramic Society</i> , 2020, 103, 3039-3050.	3.8	28
30	Properties of synthetic epitaxial graphene/molybdenum disulfide lateral heterostructures. <i>Carbon</i> , 2017, 125, 551-556.	10.3	27
31	Mg-Fe Thin Films: A Phase-Separated Structure with Fast Kinetics of Hydrogenation. <i>Journal of Physical Chemistry C</i> , 2012, 116, 21277-21284.	3.1	26
32	Atomic scale imaging of competing polar states in a Ruddlesden-Popper layered oxide. <i>Nature Communications</i> , 2016, 7, 12572.	12.8	26
33	Cold sintering ZnO based varistor ceramics with controlled grain growth to realize superior breakdown electric field. <i>Journal of the European Ceramic Society</i> , 2021, 41, 430-435.	5.7	26
34	Deconvoluting the Photonic and Electronic Response of 2D Materials: The Case of MoS <sub>2</sub> . <i>Scientific Reports</i> , 2017, 7, 16938.	3.3	23
35	An Improved Torque and Current Pulsation Suppression Method for Railway Traction Drives Under Fluctuating DC-Link Voltage. <i>IEEE Transactions on Power Electronics</i> , 2018, 33, 8565-8577.	7.9	21
36	Effect of lead content on the performance of niobium-doped {100} textured lead zirconate titanate films. <i>Journal of the American Ceramic Society</i> , 2017, 100, 3558-3567.	3.8	19

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37	Atomic and electronic structure of domains walls in a polar metal. <i>Physical Review B</i> , 2019, 99, .	3.2	19
38	Is the Tone of Risk Disclosures in MD&As Relevant to Debt Markets? Evidence from the Pricing of Credit Default Swaps<sup>*</sup>. <i>Contemporary Accounting Research</i> , 2021, 38, 1465-1501.	3.0	19
39	Hybrid Improved Carrier-Based PWM Strategy for Three-Level Neutral-Point-Clamped Inverter With Wide Frequency Range. <i>IEEE Transactions on Power Electronics</i> , 2021, 36, 8517-8538.	7.9	19
40	Impact of Copper Overpressure on the Synthesis of Hexagonal Boron Nitride Atomic Layers. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 16755-16762.	8.0	18
41	Role of sulphur atoms on stress relaxation and crack propagation in monolayer MoS<sub>2</sub>. <i>Nanotechnology</i> , 2017, 28, 365703.	2.6	17
42	Membrane capacitance of thousands of single white blood cells. <i>Journal of the Royal Society Interface</i> , 2017, 14, 20170717.	3.4	14
43	Improvement of reliability and dielectric breakdown strength of Nbâ€doped lead zirconate titanate films via microstructure control of seed. <i>Journal of the American Ceramic Society</i> , 2019, 102, 1211-1217.	3.8	14
44	Nature of terrace edge states (TES) in lower-dimensional halide perovskite. <i>Journal of Materials Chemistry A</i> , 2020, 8, 7659-7670.	10.3	14
45	Why Do Banks Favor Employee-Friendly Firms? A Stakeholder-Screening Perspective. <i>Organization Science</i> , 2021, 32, 605-624.	4.5	14
46	Microfluidic Cytometry for Highâ€Throughput Characterization of Single Cell Cytoplasmic Viscosity Using Crossing Constriction Channels. <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , 2020, 97, 630-637.	1.5	11
47	Observation of phase transitions in hydrogenated Yttrium films via normalized infrared emissivity. <i>Journal of Alloys and Compounds</i> , 2010, 490, 42-46.	5.5	9
48	Management of Lead Content for Growth of {001}â€Oriented Lead Magnesium Niobateâ€Lead Titanate Thin Films. <i>Journal of the American Ceramic Society</i> , 2016, 99, 1144-1146.	3.8	9
49	TEM Sample Preparation for Microcompressed Nanocrystalline Ni. <i>Materials Transactions</i> , 2008, 49, 2091-2095.	1.2	8
50	Atomic-scale measurement of polar entropy. <i>Physical Review B</i> , 2019, 100, .	3.2	7
51	Cold sintering of yttria-stabilized cubic bismuth oxide: Conductivity and microstructural evolution of metastable grain boundaries with annealing. <i>Journal of Applied Physics</i> , 2020, 128, .	2.5	7
52	Simulation of adhesion control method based on phase-shift. , 2013, , .		6
53	Indirect field oriented control of linear induction motor based on optimized slip frequency for traction application. , 2016, , .		6
54	Transformation of 2D group-III selenides to ultra-thin nitrides: enabling epitaxy on amorphous substrates. <i>Nanotechnology</i> , 2018, 29, 47LT02.	2.6	6

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55	The Crystal Structure and Phase Transition of Hf <sub>2</sub> Pt <sub>3</sub> . Journal of Phase Equilibria and Diffusion, 2013, 34, 385-389.	1.4	5
56	Influence of graded doping on the long-term reliability of Nb-doped lead zirconate titanate films. Acta Materialia, 2021, 219, 117251.	7.9	5
57	Plastic Deformation-Assisted Synthesis of Metallic Glass Nanostructures. Materials Transactions, 2009, 50, 1890-1893.	1.2	4
58	Characteristics investigation of single-sided ironless pmlsm based on halbach array for medium-speed Maglev train. CES Transactions on Electrical Machines and Systems, 2017, 1, 375-382.	3.5	4
59	The Instrumentation of a Microfluidic Analyzer Enabling the Characterization of the Specific Membrane Capacitance, Cytoplasm Conductivity, and Instantaneous Young's Modulus of Single Cells. International Journal of Molecular Sciences, 2017, 18, 1158.	4.1	4
60	Calculation and Analysis of the Winding Loss of High-Frequency Transformer Based on Finite Element Method. , 2018, , .		4
61	Mechanical property characterization of hundreds of single nuclei based on microfluidic constriction channel. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2018, 93, 822-828.	1.5	4
62	Analysis and optimized control of emergency traction by storage battery for urban rail transit vehicle. , 2014, , .		3
63	Heteroepitaxial growth of GaN on vertical Si{110} sidewalls formed on trench-etched Si(001) substrates. Journal of Crystal Growth, 2016, 446, 1-6.	1.5	3
64	Heteroepitaxy of Highly Oriented GaN Films on Non-Single Crystal Substrates Using a Si(111) Template Layer Formed by Aluminum-Induced Crystallization. Physica Status Solidi - Rapid Research Letters, 2018, 12, 1700392.	2.4	3
65	A Novel Propulsion Control Scheme of Long Stator Linear Synchronous Motor for Maglev Vehicle Considering the Influence of Suspension System. , 2018, , .		3
66	Research on Sensorless Control for Long-stator Linear Synchronous Motors Applied in Maglev Trains under the Influence of Levitation System. , 2021, , .		3
67	The solid lubricating material experiment device for Shenzhou-7 Spaceship. Science China Technological Sciences, 2010, 53, 2521-2527.	4.0	2
68	Random anion distribution in MSxSe <sub>2</sub> (M = Mo, W) crystals and nanosheets. RSC Advances, 2018, 8, 9871-9878.	3.6	2
69	Research on the Synchronized Carrier-Based PWM Strategy Under Low Switching Frequency for Three-Level Neutral Point Clamped Inverter. , 2020, , .		2
70	A Carrier-Based Fault-Tolerant Control Method for Three-Level Neutral-Point-Clamped Inverter. , 2020, , .		2
71	An improved current regulation scheme used in indirect rotor field oriented control for AC traction applications. , 2013, , .		1
72	Research on Flux Weakening Control of Single Q-axis Current Regulator Scheme for Long Stator Permanent Magnet Linear Synchronous Motor. , 2021, , .		1

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73	A Carrier-Based Synchronized 3 Integer Multiples SVPWM Algorithm for Three-level Inverter with Symmetrical Waveforms. , 2020, , .		1
74	High-speed Maglev Harmonic Current Suppression Strategy Based on Feedforward Compensation. , 2021, , .		1
75	A novel parameter identification of IM based on inverter by reducing dead-time effect. , 2015, , .		0
76	Research on the control technology of Six-phase induction motor based with the novel flux observer speed sensorless. , 2019, , .		0
77	The transient state analysis of changing step of long stator linear synchronous motor for maglev vehicle. , 2021, , .		0
78	A special excitation system for analysis of coupling characteristics of thrust and levitation force of maglev train. Transportation Systems and Technology, 2018, 4, 45-51.	0.4	0
79	Cascade Fault Isolation Control Strategy of Auxiliary Converter in Rail Transit Traction System. , 2021, , .		0
80	Investigation of Thrust and Efficiency in Single-sided Linear Traction Motors with Discontinuous Reaction Rail Using Space Harmonic Technique. , 2021, , .		0