Ke Wang

List of Publications by Year
in descending order

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Version: 2024-02-01

57 papers	3,817 citations	147801 31 h-index	144013 57 g-index
57 all docs	57 docs citations	57 times ranked	6167 citing authors

#	Article	IF	Citations
1	Deciphering the phase transition-induced ultrahigh piezoresponse in (K,Na)NbO3-based piezoceramics. Nature Communications, 2022, 13, .	12.8	39
2	Cold sintering ZnO based varistor ceramics with controlled grain growth to realize superior breakdown electric field. Journal of the European Ceramic Society, 2021, 41, 430-435.	5.7	26
3	Regulation and targeting of androgen receptor nuclear localization in castration-resistant prostate cancer. Journal of Clinical Investigation, 2021, 131, .	8.2	30
4	Drugâ€“zein@lipid hybrid nanoparticles: Electrospraying preparation and drug extended release application. Colloids and Surfaces B: Biointerfaces, 2021, 201, 111629.	5.0	39
5	Influence of graded doping on the long-term reliability of Nb-doped lead zirconate titanate films. Acta Materialia, 2021, 219, 117251.	7.9	5
6	Orodispersible Membranes from a Modified Coaxial Electrospinning for Fast Dissolution of Diclofenac Sodium. Membranes, 2021, 11, 802.	3.0	53
7	Electrospun Environment Remediation Nanofibers Using Unspinnable Liquids as the Sheath Fluids: A Review. Polymers, 2020, 12, 103.	4.5	57
8	A novel androgen receptor antagonist JJâ€450 inhibits enzalutamideâ€resistant mutant AR F876L nuclear import and function. Prostate, 2020, 80, 319-328.	2.3	10
9	The Mechanical Effect of MnO2 Layers on Electrochemical Actuation Performance of Nanoporous Gold. Nanomaterials, 2020, 10, 2056.	4.1	12
10	Differential impact of paired patientâ€derived BPH and normal adjacent stromal cells on benign prostatic epithelial cell growth in 3D culture. Prostate, 2020, 80, 1177-1187.	2.3	8
11	Cold sintering of yttria-stabilized cubic bismuth oxide: Conductivity and microstructural evolution of metastable grain boundaries with annealing. Journal of Applied Physics, 2020, 128, .	2.5	7
12	Comparative study of electrospun crystal-based and composite-based drug nano depots. Materials Science and Engineering C, 2020, 113, 110988.	7.3	36
13	Atomically thin half-van der Waals metals enabled by confinement heteroepitaxy. Nature Materials, 2020, 19, 637-643.	27.5	114
14	Electrospun Janus nanofibers loaded with a drug and inorganic nanoparticles as an effective antibacterial wound dressing. Materials Science and Engineering C, 2020, 111, 110805.	7.3	202
15	Thermosetting polymers in cold sintering: The fabrication of ZnOâ€polydimethylsiloxane composites. Journal of the American Ceramic Society, 2020, 103, 3039-3050.	3.8	28
16	Nature of terrace edge states (TES) in lower-dimensional halide perovskite. Journal of Materials Chemistry A, 2020, 8, 7659-7670.	10.3	14
17	Constructing Core-Shell Co@N-Rich Carbon Additives Toward Enhanced Hydrogen Storage Performance of Magnesium Hydride. Frontiers in Chemistry, 2020, 8, 223.	3.6	12
18	Improvement of reliability and dielectric breakdown strength of Nbâ€doped lead zirconate titanate films via microstructure control of seed. Journal of the American Ceramic Society, 2019, 102, 1211-1217.	3.8	14

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19	Epitaxial graphene/silicon carbide intercalation: a minireview on graphene modulation and unique 2D materials. Nanoscale, 2019, 11, 15440-15447.	5.6	85
20	Distinct conducting layer edge states in two-dimensional (2D) halide perovskite. Science Advances, 2019, 5, eaau3241.	10.3	62
21	Atomic-scale measurement of polar entropy. Physical Review B, 2019, 100, .	3.2	7
22	Atomic and electronic structure of domains walls in a polar metal. Physical Review B, 2019, 99, .	3.2	19
23	The Thermal and Mechanical Properties of Poly(ethylene-co-vinyl acetate) Random Copolymers (PEVA) and its Covalently Crosslinked Analogues (cPEVA). Polymers, 2019, 11, 1055.	4.5	36
24	Relaxor Behavior in Ordered Lead Magnesium Niobate (PbMg_{1/3}Nb_{2/3}O₃) Thin Films. Advanced Functional Materials, 2019, 29, 1804258.	14.9	17
25	Random anion distribution in MSxSe2âˆ'x (M = Mo, W) crystals and nanosheets. RSC Advances, 2018, 8, 9871-9878.	3.6	2
26	Observation of Quasi-Two-Dimensional Polar Domains and Ferroelastic Switching in a Metal, Ca₃Ru₂O₇. Nano Letters, 2018, 18, 3088-3095.	9.1	62
27	Tuning the Electronic and Photonic Properties of Monolayer MoS₂ via In Situ Rhenium Substitutional Doping. Advanced Functional Materials, 2018, 28, 1706950.	14.9	137
28	Introducing a ZnOâ€“PTFE (Polymer) Nanocomposite Varistor via the Cold Sintering Process. Advanced Engineering Materials, 2018, 20, 1700902.	3.5	55
29	Electrospun Hydrophilic Janus Nanocomposites for the Rapid Onset of Therapeutic Action of Helicid. ACS Applied Materials & Interfaces, 2018, 10, 2859-2867.	8.0	112
30	Three-dimensional atomic scale electron density reconstruction of octahedral tilt epitaxy in functional perovskites. Nature Communications, 2018, 9, 5220.	12.8	32
31	Considerations for Utilizing Sodium Chloride in Epitaxial Molybdenum Disulfide. ACS Applied Materials & Interfaces, 2018, 10, 40831-40837.	8.0	58
32	Transformation of 2D group-III selenides to ultra-thin nitrides: enabling epitaxy on amorphous substrates. Nanotechnology, 2018, 29, 47LT02.	2.6	6
33	Cold Sintered Ceramic Nanocomposites of 2D MXene and Zinc Oxide. Advanced Materials, 2018, 30, e1801846.	21.0	149
34	Colon-specific pulsatile drug release provided by electrospun shellac nanocoating on hydrophilic amorphous composites. International Journal of Nanomedicine, 2018, Volume 13, 2395-2404.	6.7	53
35	Cold Sintering Na₂Mo₂O₇ Ceramic with Poly(ether imide) (PEI) Polymer to Realize High-Performance Composites and Integrated Multilayer Circuits. ACS Applied Nano Materials, 2018, 1, 3837-3844.	5.0	35
36	A nanoporous gold-polypyrrole hybrid nanomaterial for actuation. Sensors and Actuators B: Chemical, 2017, 248, 622-629.	7.8	30

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37	Cold sintering and coâ€firing of a multilayer device with thermoelectric materials. Journal of the American Ceramic Society, 2017, 100, 3488-3496.	3.8	60
38	Properties of synthetic epitaxial graphene/molybdenum disulfide lateral heterostructures. Carbon, 2017, 125, 551-556.	10.3	27
39	Effect of lead content on the performance of niobiumâ€doped {100} textured lead zirconate titanate films. Journal of the American Ceramic Society, 2017, 100, 3558-3567.	3.8	19
40	Demonstration of the cold sintering process study for the densification and grain growth of ZnO ceramics. Journal of the American Ceramic Society, 2017, 100, 546-553.	3.8	197
41	Deconvoluting the Photonic and Electronic Response of 2D Materials: The Case of MoS2. Scientific Reports, 2017, 7, 16938.	3.3	23
42	Management of Lead Content for Growth of {001}â€Oriented Lead Magnesium Niobateâ€Lead Titanate Thin Films. Journal of the American Ceramic Society, 2016, 99, 1144-1146.	3.8	9
43	Study on Chemical Vapor Deposition Growth and Transmission electron Microscopy MoS 2 /h-BN Heterostructure. Microscopy and Microanalysis, 2016, 22, 1640-1641.	0.4	2
44	Atomic scale imaging of competing polar states in a Ruddlesdenâ€“Popper layered oxide. Nature Communications, 2016, 7, 12572.	12.8	26
45	Spontaneous Formation of Atomically Thin Stripes in Transition Metal Dichalcogenide Monolayers. Nano Letters, 2016, 16, 6982-6987.	9.1	48
46	Two-dimensional gallium nitride realized via grapheneÂencapsulation. Nature Materials, 2016, 15, 1166-1171.	27.5	626
47	Nanoporous Goldâ€”Testing Macro-scale Samples to Probe Small-scale Mechanical Behavior. Materials Research Letters, 2016, 4, 27-36.	8.7	121
48	The impact of graphene properties on GaN and AlN nucleation. Surface Science, 2015, 634, 81-88.	1.9	88
49	Large-area synthesis of WSe ₂ from WO ₃ by seleniumâ€“oxygen ion exchange. 2D Materials, 2015, 2, 014003.	4.4	37
50	Prospects of direct growth boron nitride films as substrates for graphene electronics. Journal of Materials Research, 2014, 29, 459-471.	2.6	51
51	Fermi level depinning and contact resistivity reduction using a reduced titania interlayer in n-silicon metal-insulator-semiconductor ohmic contacts. Applied Physics Letters, 2014, 104, .	3.3	145
52	Impact of Copper Overpressure on the Synthesis of Hexagonal Boron Nitride Atomic Layers. ACS Applied Materials & Interfaces, 2014, 6, 16755-16762.	8.0	18
53	Composites of Nanoporous Gold and Polymer. Advanced Materials, 2013, 25, 1280-1284.	21.0	91
54	3D structure determination of native mammalian cells using cryo-FIB and cryo-electron tomography. Journal of Structural Biology, 2012, 180, 318-326.	2.8	66

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55	Mgâ€“Fe Thin Films: A Phase-Separated Structure with Fast Kinetics of Hydrogenation. Journal of Physical Chemistry C, 2012, 116, 21277-21284.	3.1	26
56	Giant magnetostriction in annealed Co1â^'xFex thin-films. Nature Communications, 2011, 2, 518.	12.8	188
57	Nanoporous Auâ^'Pt Alloys As Large Strain Electrochemical Actuators. Nano Letters, 2010, 10, 187-194.	9.1	286