

Wei Ren

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/847716/publications.pdf>

Version: 2024-02-01

39
papers

518
citations

840776

11
h-index

713466

21
g-index

40
all docs

40
docs citations

40
times ranked

445
citing authors

#	ARTICLE	IF	CITATIONS
1	Toward a Reliable Synaptic Simulation Using Al-Doped HfO ₂ RRAM. ACS Applied Materials & Interfaces, 2020, 12, 10648-10656.	8.0	80
2	Interface-engineered reliable HfO ₂ -based RRAM for synaptic simulation. Journal of Materials Chemistry C, 2019, 7, 12682-12687.	5.5	60
3	Hybrid System Combining Two-Dimensional Materials and Ferroelectrics and Its Application in Photodetection. ACS Nano, 2021, 15, 10982-11013.	14.6	52
4	Periodic Wrinkle-Engineered Single-Crystalline Ferroelectric Oxide Membranes with Enhanced Piezoelectricity. Advanced Materials, 2020, 32, e2004477.	21.0	47
5	Phase Change Random Access Memory for Neuro-Inspired Computing. Advanced Electronic Materials, 2021, 7, 2001241.	5.1	29
6	Magnetoelectric devices based on magnetoelectric bulk composites. Journal of Materials Chemistry C, 2021, 9, 5594-5614.	5.5	26
7	Evolution of mesoscopic domain structure and macroscopic properties in lead-free Bi _{0.5} Na _{0.5} TiO ₃ -BaTiO ₃ ferroelectric ceramics. Journal of Applied Physics, 2021, 129, .	2.5	23
8	Highly heterogeneous epitaxy of flexoelectric BaTiO ₃ - δ membrane on Ge. Nature Communications, 2022, 13, .	12.8	22
9	Crucial Impact of Hydrophilicity on the Self-Assembled 2D Colloidal Crystals Using Langmuir-Blodgett Method. Langmuir, 2020, 36, 10061-10068.	3.5	15
10	Design and Fabrication of Bulk Micromachined 4H-SiC Piezoresistive Pressure Chips Based on Femtosecond Laser Technology. Micromachines, 2021, 12, 56.	2.9	15
11	Multiple structural components and their competition in the intermediate state of antiferroelectric $\text{PbO}_3\text{Zr}_2\text{O}_{10}$. Physical Review B, 2021, 103, .		
12	High Curie temperature bismuth-based piezo-/ferroelectric single crystals of complex perovskite structure: recent progress and perspectives. CrystEngComm, 2022, 24, 220-230.	2.6	13
13	Self-Assembled Epitaxial Ferroelectric Oxide Nanospring with Super-Scalability. Advanced Materials, 2022, 34, e2108419.	21.0	11
14	Velocity-amplified monostable dual-charged electret dome energy harvester using low-speed finger tapping. Applied Physics Letters, 2020, 116, .	3.3	10
15	Toward van der Waals epitaxy of transferable ferroelectric barium titanate films <i>via</i> a graphene monolayer. Journal of Materials Chemistry C, 2020, 8, 3445-3451.	5.5	9
16	Ferroelastic domain hierarchy in the intermediate state of PbZr _{0.98} Ti _{0.02} O ₃ single crystal. APL Materials, 2021, 9, .	5.1	9
17	Detection of K562 Leukemia Cells in Different States Using a Graphene-SERS Platform. ACS Applied Nano Materials, 2021, 4, 8972-8978.	5.0	9
18	High-Sensitivity Enzymatic Glucose Sensor Based on ZnO Urchin-like Nanostructure Modified with Fe ₃ O ₄ Magnetic Particles. Micromachines, 2021, 12, 977.	2.9	8

#	ARTICLE	IF	CITATIONS
19	Giant strain responses and relaxor characteristics in lead-free $(\text{Bi}_{0.5}\text{Na}_{0.5})\text{TiO}_3$ BaZrO_3 ferroelectric thin films. <i>Journal of Materials Chemistry C</i> , 2022, 10, 7449-7459.	5.5	8
20	The Research on Actuation Performance of MEMS Safety-and-Arming Device with Interlock Mechanism. <i>Micromachines</i> , 2019, 10, 76.	2.9	7
21	The development of an on-chip microinitiator with a built-in safety-and-arming device. <i>Review of Scientific Instruments</i> , 2021, 92, 025007.	1.3	7
22	Significant Improvement of Anticorrosion Properties of Zinc-Containing Coating Using Sodium Polystyrene Sulfonate Noncovalent Modified Graphene Dispersions. <i>Coatings</i> , 2020, 10, 1150.	2.6	6
23	Design and Manufacturing of a High-Sensitivity Cutting Force Sensor Based on AlSiCO Ceramic. <i>Micromachines</i> , 2021, 12, 63.	2.9	6
24	Effect of heat treatment on thermoelectric properties of tungsten-rhenium thin-film thermocouples by RF magnetron sputtering. <i>AIP Advances</i> , 2018, 8, 125113.	1.3	5
25	Impact of the channel length on molybdenum disulfide field effect transistors with hafnia-based high- κ dielectric gate. <i>AIP Advances</i> , 2021, 11, .	1.3	5
26	Enhanced Anti-Corrosion Performances of Epoxy Resin Using the Addition of Sodium Dodecylbenzene Sulfonate-Modified Graphene. <i>Coatings</i> , 2021, 11, 655.	2.6	4
27	Single-Beam Acoustic Tweezer Prepared by Lead-Free KNN-Based Textured Ceramics. <i>Micromachines</i> , 2022, 13, 175.	2.9	4
28	Deep Learning-Based Classification of Cancer Cell in Leptomeningeal Metastasis on Cytomorphologic Features of Cerebrospinal Fluid. <i>Frontiers in Oncology</i> , 2022, 12, 821594.	2.8	4
29	Advanced Corrosion-Resistant and Electron Microscopy of Individual SiC Nanocrystals on P Nanocrystals on SiC Nanotips for Li-V-O SiC Nanotips for Li-V-O SiC Nanotips for Li-V-O	3.8	2
30	Large-Area and Clean Graphene Transfer on Gold-Nanopyramid-Structured Substrates: Implications for Surface-Enhanced Raman Scattering Detection. <i>ACS Applied Nano Materials</i> , 2022, 5, 3878-3888.	5.0	2
31	Design of a Double-Layer Electrothermal MEMS Safety and Arming Device with a Bistable Mechanism. <i>Micromachines</i> , 2022, 13, 1076.	2.9	2
32	Effects of MnO_2 addition on the electrical properties of lead-free textured potassium sodium niobate-based ceramics. <i>Ferroelectrics</i> , 2019, 553, 51-59.	0.6	1
33	Research on MEMS multi-point exploding metal foil synchronous array. <i>Modern Physics Letters B</i> , 0, , 2140018.	1.9	1
34	Oxygen vacancy induced phase and conductivity transition of epitaxial BaTiO_3 films directly grown on Ge (001) without surface passivation. <i>Journal of Applied Physics</i> , 2021, 129, 045302.	2.5	1
35	An overview of MEMS S&A device and its application in the micro-detonated system. <i>International Journal of Modern Physics B</i> , 2022, 36, .	2.0	1
36	Design, Fabrication, and Characterization of a Laser-Controlled Explosion-Initiating Device with Integrated Safe-and-Arm, EMP-Resistant, and Fast-Acting Technology Based on Photovoltaic Power Converter. <i>Micromachines</i> , 2022, 13, 728.	2.9	1

#	ARTICLE	IF	CITATIONS
37	Flexible Ferroelectrics: Periodic Wrinkleâ€Patterned Singleâ€Crystalline Ferroelectric Oxide Membranes with Enhanced Piezoelectricity (Adv. Mater. 50/2020). Advanced Materials, 2020, 32, 2070377.	21.0	0
38	Establishment and Verification of Neural Network for Rapid and Accurate Cytological Examination of Four Types of Cerebrospinal Fluid Cells. Frontiers in Medicine, 2021, 8, 749146.	2.6	0
39	Selfâ€Assembled Epitaxial Ferroelectric Oxide Nanospring with Superâ€Scalability (Adv. Mater. 13/2022). Advanced Materials, 2022, 34, .	21.0	0