

Wen-Zhu Shao

List of Publications by Year in descending order

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papers

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516215

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1486
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#	ARTICLE	IF	CITATIONS
1	Crystallization kinetics and phase transformation of poly(vinylidene fluoride) films incorporated with functionalized BaTiO_3 nanoparticles. <i>Journal of Applied Polymer Science</i> , 2013, 129, 2940-2949.	1.3	92
2	Effect of electroactive phase transformation on electron structure and dielectric properties of uniaxial stretching poly(vinylidene fluoride) films. <i>RSC Advances</i> , 2013, 3, 23730.	1.7	76
3	Internal Biasing in Relaxor Ferroelectric Polymer to Enhance the Electrocaloric Effect. <i>Advanced Functional Materials</i> , 2015, 25, 5134-5139.	7.8	64
4	The effect of Cu and Sc on the localized corrosion resistance of Al-Zn-Mg-X alloys. <i>Journal of Alloys and Compounds</i> , 2019, 799, 1-14.	2.8	63
5	Aqueous Solution Synthesis of $\text{Cd}(\text{OH})_2$ Hollow Microspheres via Ostwald Ripening and Their Conversion to CdO Hollow Microspheres. <i>Journal of Physical Chemistry C</i> , 2008, 112, 14360-14366.	1.5	62
6	Enhancement of strength and electrical conductivity for a dilute Al-Sc-Zr alloy via heat treatments and cold drawing. <i>Journal of Materials Science and Technology</i> , 2019, 35, 962-971.	5.6	56
7	Epitaxial Growth of 1D Atomic Chain Based Se Nanoplates on Monolayer ReS_2 for High-Performance Photodetectors. <i>Advanced Functional Materials</i> , 2018, 28, 1806254.	7.8	52
8	Synthesis of Fe^{II} -ferrite composite nanotubes with excellent microwave absorption performance. <i>CrystEngComm</i> , 2011, 13, 6839.	1.3	40
9	Formation of CdMoO_4 porous hollow nanospheres via a self-assembly accompanied with Ostwald ripening process and their photocatalytic performance. <i>CrystEngComm</i> , 2013, 15, 8014.	1.3	39
10	Formation of FeMoO_4 hollow microspheres via a chemical conversion-induced Ostwald ripening process. <i>CrystEngComm</i> , 2012, 14, 7025.	1.3	37
11	Hybrid dual-channel phototransistor based on 1D t-Se and 2D ReS_2 mixed-dimensional heterostructures. <i>Nano Research</i> , 2019, 12, 669-674.	5.8	34
12	Chemical Vapor Deposition Growth of Degenerate p-Type Mo-Doped ReS_2 Films and Their Homo Junction. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 15583-15591.	4.0	30
13	Minimization of Residual Stress in an Al-Cu Alloy Forged Plate by Different Heat Treatments. <i>Journal of Materials Engineering and Performance</i> , 2015, 24, 2256-2265.	1.2	29
14	van der Waals epitaxy of large-area continuous ReS_2 films on mica substrate. <i>RSC Advances</i> , 2017, 7, 24188-24194.	1.7	29
15	Surface characterization and degradation behavior of polyimide films induced by coupling irradiation treatment. <i>RSC Advances</i> , 2018, 8, 28152-28160.	1.7	28
16	Fractal Analysis of Disordered Conductor-Insulator Composites with Different Conductor Backbone Structures near Percolation Threshold. <i>Journal of Physical Chemistry C</i> , 2012, 116, 19517-19525.	1.5	24
17	Microstructure Evolution and the Resulted Influence on Localized Corrosion in Al-Zn-Mg-Cu Alloy during Non-Isothermal Ageing. <i>Materials</i> , 2018, 11, 720.	1.3	17
18	Effects of interfacial wettability on arc erosion behavior of $\text{Zn}_2\text{SnO}_4/\text{Cu}$ electrical contacts. <i>Journal of Materials Science and Technology</i> , 2022, 109, 64-75.	5.6	17

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19	Air arc erosion behavior of CuZr/Zn ₂ SnO ₄ electrical contact materials. Journal of Alloys and Compounds, 2018, 743, 697-706.	2.8	16
20	Dielectric and electrocaloric responses of Ba(Zr _{0.2} Ti _{0.8})O ₃ bulk ceramics and thick films with sintering aids. IEEE Transactions on Dielectrics and Electrical Insulation, 2015, 22, 1501-1505.	1.8	15
21	Synthesis and formation process of SrSO ₄ -like hierarchical structures at room temperature. CrystEngComm, 2011, 13, 620-625.	1.3	14
22	Electron structure in modified BaTiO ₃ /poly(vinylidene fluoride) nanocomposite with high dielectric property and energy density. IET Nanodielectrics, 2019, 2, 70-77.	2.0	14
23	Effect of electron irradiation on electroactive phase and dielectric properties of PVDF films. RSC Advances, 2014, 4, 13525-13532.	1.7	13
24	Highly localized shear deformation in a Mg-Al-Mn alloy subjected to ballistic impact. Vacuum, 2019, 169, 108868.	1.6	13
25	Tuning the Energy Storage Efficiency in PVDF Nanocomposites Incorporated with Crumpled Core-Shell BaTiO ₃ @Graphene Oxide Nanoparticles. ACS Applied Energy Materials, 2021, 4, 9553-9562.	2.5	12
26	Correlation between Structural Evolution and Device Performance of CH ₃ NH ₃ PbI ₃ Solar Cells under Proton Irradiation. ACS Applied Energy Materials, 0, , .	2.5	12
27	Exploring Cu ₂ O/Cu cermet as a partially inert anode to produce aluminum in a sustainable way. Journal of Alloys and Compounds, 2014, 610, 214-223.	2.8	11
28	Effects of dopants on the adhesion and electronic structure of a SnO ₂ /Cu interface: a first-principles study. Physical Chemistry Chemical Physics, 2018, 20, 15618-15625.	1.3	11
29	Microstructure evolution of polyimide films induced by electron beam irradiation-load coupling treatment. Polymer Degradation and Stability, 2018, 155, 230-237.	2.7	11
30	Texture evolution and recrystallization mechanism in a Mg-Al-Zn alloy under ballistic impact. Journal of Alloys and Compounds, 2020, 816, 152599.	2.8	11
31	Thermal conductivity determination of conductor/insulator composites by fractal: Geometrical tortuosity and percolation. Composites Part B: Engineering, 2016, 92, 377-383.	5.9	10
32	Colloidal synthesis and formation mechanism of calcium molybdate notched microspheres. CrystEngComm, 2014, 16, 2598.	1.3	9
33	Mechanical properties of cermet composites with various geometrical tortuosity of metal phase: Fractal characterization. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2014, 607, 236-244.	2.6	7
34	Self-supported construction of 3D CdMoO ₄ hierarchical structures from nanoplates with enhanced photocatalytic properties. RSC Advances, 2014, 4, 38527-38534.	1.7	7
35	Adhesion and electronic structures of Cu/Zn ₂ SnO ₄ interfaces: A first-principles study. Journal of Applied Physics, 2019, 125, .	1.1	6
36	Effect of Pre-Stretch on the Precipitation Behavior and the Mechanical Properties of 2219 Al Alloy. Materials, 2021, 14, 2101.	1.3	3

#	ARTICLE	IF	CITATIONS
37	Deformed Microstructure of AZ91 Magnesium Alloy Impacted by Projectiles with Velocities of 2-3 km/s. Journal of Solid Mechanics and Materials Engineering, 2010, 4, 720-726.	0.5	2
38	Precipitation during Quenching in 2A97 Aluminum Alloy and the Influences from Grain Structure. Materials, 2021, 14, 2802.	1.3	2
39	Microstructures and Magnetic Properties of Single-Step Deposited Ce:YIG/YIG Bilayer Films With Different Layer Thickness Ratios. IEEE Transactions on Magnetics, 2022, 58, 1-5.	1.2	0