

Fan Yang

List of Publications by Year in descending order

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Version: 2024-02-01

40
papers

1,640
citations

361413

20
h-index

289244

40
g-index

40
all docs

40
docs citations

40
times ranked

1473
citing authors

#	ARTICLE	IF	CITATIONS
1	Ultrahigh energy storage density lead-free multilayers by controlled electrical homogeneity. Energy and Environmental Science, 2019, 12, 582-588.	30.8	393
2	Defect chemistry and electrical properties of sodium bismuth titanate perovskite. Journal of Materials Chemistry A, 2018, 6, 5243-5254.	10.3	145
3	Composition-Graded Cu@Pd Nanospheres with Ir-Doped Surfaces on N-Doped Porous Graphene for Highly Efficient Ethanol Electro-Oxidation in Alkaline Media. ACS Catalysis, 2020, 10, 1171-1184.	11.2	98
4	Optimisation of oxide-ion conductivity in acceptor-doped $\text{Na}_{0.5}\text{Bi}_{0.5}\text{TiO}_3$ perovskite: approaching the limit?. Journal of Materials Chemistry A, 2017, 5, 21658-21662.	10.3	82
5	Enhanced bulk conductivity of A-site divalent acceptor-doped non-stoichiometric sodium bismuth titanate. Solid State Ionics, 2017, 299, 38-45.	2.7	75
6	Role and determining factor of substitutional defects on thermal conductivity: A study of $\text{La}_2(\text{Zr}_{1-x}\text{Bx})_2\text{O}_7$ (B=Hf, Ce, $0 \leq x \leq 0.5$) pyrochlore solid solutions. Acta Materialia, 2014, 68, 106-115.	7.9	71
7	High Ionic Conductivity with Low Degradation in A-Site Strontium-Doped Nonstoichiometric Sodium Bismuth Titanate Perovskite. Chemistry of Materials, 2016, 28, 5269-5273.	6.7	61
8	Suppression of electrical conductivity and switching of conduction mechanisms in $\text{Na}_{0.5}\text{Bi}_{0.5}\text{TiO}_3$ (0.08) solid solutions. Journal of Materials Chemistry C, 2017, 5, 7243-7252.	5.5	58
9	Design of gradient cathode catalyst layer (CCL) structure for mitigating Pt degradation in proton exchange membrane fuel cells (PEMFCs) using mathematical method. Journal of Power Sources, 2020, 451, 227729.	7.8	56
10	Lithium-mediated electrochemical nitrogen reduction: Mechanistic insights to enhance performance. IScience, 2021, 24, 103105.	4.1	50
11	A study of the zirconium alloy protection by Cr ₃ C ₂ @NiCr coating for nuclear reactor application. Surface and Coatings Technology, 2016, 287, 55-60.	4.8	44
12	Evolution of residual stress in air plasma sprayed yttria stabilised zirconia thermal barrier coatings after isothermal treatment. Surface and Coatings Technology, 2014, 251, 98-105.	4.8	41
13	Comparative Investigation on the Activity Degradation Mechanism of Pt/C and PtCo/C Electrocatalysts in PEMFCs during the Accelerate Degradation Process Characterized by an in Situ X-ray Absorption Fine Structure. ACS Catalysis, 2020, 10, 604-612.	11.2	40
14	Al ₂ CoCrFeNi high entropy alloys with superior hot corrosion resistance to Na ₂ SO ₄ + 25% NaCl at 900 °C. Corrosion Science, 2021, 187, 109479.	6.6	40
15	From insulator to oxide-ion conductor by a synergistic effect from defect chemistry and microstructure: acceptor-doped Bi-excess sodium bismuth titanate $\text{Na}_{0.5}\text{Bi}_{0.51}\text{TiO}_{3.015}$. Journal of Materials Chemistry A, 2020, 8, 25120-25130.	10.3	33
16	Improved energy storage performances of lead-free BiFeO ₃ -based ceramics via doping Sr _{0.7} La _{0.2} TiO ₃ . Journal of Alloys and Compounds, 2022, 898, 162795.	5.5	33
17	Promoting Effects of Au Submonolayer Shells on Structure-Designed Cu@Pd/Ir Nanospheres: Greatly Enhanced Activity and Durability for Alkaline Ethanol Electro-Oxidation. ACS Applied Materials & Interfaces, 2020, 12, 25961-25971.	8.0	26
18	Electrical conductivity and conduction mechanisms in $\text{Na}_{0.5}\text{Bi}_{0.5}\text{TiO}_3$ (0.00-0.25) solid solutions. Journal of Materials Chemistry C, 2018, 6, 11598-11607.	5.5	22

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19	Degradation of core-shell Pt ₃ Co catalysts in proton exchange membrane fuel cells (PEMFCs) studied by mathematical modeling. <i>Electrochimica Acta</i> , 2019, 323, 134751.	5.2	22
20	Use of the time constant related parameter τ_{\max} to calculate the activation energy of bulk conduction in ferroelectrics. <i>Journal of Materials Chemistry C</i> , 2018, 6, 9258-9268.	5.5	20
21	Nitrogen and iodine dual-doped 3D porous graphene as a bi-functional cathode catalyst for Li-O ₂ batteries. <i>Electrochimica Acta</i> , 2019, 318, 354-361.	5.2	20
22	Effect of Si on the Growth Behavior of the Fe ₂ Al ₅ Phase at Al-xSi(liquid)/Fe(solid) Interface During Holding by In-Situ Synchrotron Radiography. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2020, 51, 2711-2718.	2.2	20
23	Nondestructive Evaluation of Thermal Barrier Coatings Using Impedance Spectroscopy. <i>International Journal of Applied Ceramic Technology</i> , 2009, 6, 381-399.	2.1	19
24	Bulk conduction and relaxation in [(ZrO ₂) _{1-x} (CeO ₂) _x] _{0.92} (Y ₂ O ₃) _{0.08} (0 ≤ x ≤ 1) solid solutions at intermediate temperatures. <i>Journal of Power Sources</i> , 2011, 196, 4943-4949.	7.8	18
25	Rattlers or oxygen vacancies: Determinant of high temperature plateau thermal conductivity in doped pyrochlores. <i>Applied Physics Letters</i> , 2013, 102, .	3.3	16
26	In Situ Measurement of Stresses and Phase Compositions of the Zirconia Scale During Oxidation of Zirconium by Raman Spectroscopy. <i>Oxidation of Metals</i> , 2014, 81, 331-343.	2.1	16
27	Reducing dielectric loss in Na _{0.5} Bi _{0.5} TiO ₃ based high temperature capacitor material. <i>Journal of the European Ceramic Society</i> , 2021, 41, 2587-2595.	5.7	16
28	Interaction of Ammonia with Nafion and Electrolyte in Electrocatalytic Nitrogen Reduction Study. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 6861-6866.	4.6	15
29	Enhanced energy storage properties of hafnium-modified (0.7Ba _{0.55} Sr _{0.45} Bi _{0.3} Na _{0.5})TiO ₃ -based relaxor ferroelectric ceramics via regulating polarization nonlinearity and bandgap. <i>Journal of Materials Chemistry C</i> , 2022, 10, 7614-7625.	5.5	15
30	Voltage Cycling-Induced Pt Degradation in Proton Exchange Membrane Fuel Cells: Effect of Cycle Profiles. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 35088-35097.	8.0	13
31	Evaluation of Electrocatalytic Activity of Noble Metal Catalysts Toward Nitrogen Reduction Reaction in Aqueous Solutions under Ambient Conditions. <i>ChemSusChem</i> , 2022, 15, .	6.8	12
32	Non-ohmic conduction in sodium bismuth titanate: the influence of oxide-ion conduction. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 20941-20950.	2.8	10
33	Dramatic impact of the TiO ₂ polymorph on the electrical properties of Bi _{0.5} Na _{0.5} TiO ₃ ceramics prepared by solid-state reaction. <i>Journal of Materials Chemistry A</i> , 2022, 10, 891-901.	10.3	9
34	Room-Temperature and High-Temperature Wear Behaviors of As-Sprayed and Annealed Cr ₃ C ₂ -25NiCr Coatings Prepared by High Velocity Air-Fuel Spraying. <i>Coatings</i> , 2020, 10, 1090.	2.6	8
35	Synthesis and characterization of a pyrochlore solid solution in the Na ₂ O-Bi ₂ O ₃ -TiO ₂ system. <i>Journal of the American Ceramic Society</i> , 2020, 103, 6801-6810.	3.8	5
36	A New Sight of the Growth Characteristics of Solidified Al ₃ Ni at the Liquid-Solid Interface by Synchrotron Radiography and 3D Tomography. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2020, 51, 2689-2696.	2.2	5

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37	Effect of interface undulation on the high temperature oxidation behaviors of grit-blasted and coated zircaloy in pressurized water. <i>Corrosion Science</i> , 2021, 192, 109839.	6.6	4
38	Unveiling the Growth Mechanism of Faceted Primary Al ₂ Cu with Complex Morphologies During Solidification. <i>Acta Metallurgica Sinica (English Letters)</i> , 2022, 35, 124-132.	2.9	4
39	Hydrophobicity of Cr ₃ C ₂ -NiCr coating under mechanical abrasion and thermal annealing. <i>Applied Surface Science</i> , 2022, 574, 151600.	6.1	3
40	Atomic scale structural analysis of liquid immiscibility in binary silicate melt: A case of SiO ₂ -TiO ₂ system. <i>Journal of Materials Science and Technology</i> , 2020, 53, 53-60.	10.7	2