

Andrei A Mazilkin

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1343794/publications.pdf>

Version: 2024-02-01

30
papers

1,453
citations

471371

17
h-index

501076

28
g-index

30
all docs

30
docs citations

30
times ranked

1639
citing authors

#	ARTICLE	IF	CITATIONS
1	Nanomaterials by severe plastic deformation: review of historical developments and recent advances. <i>Materials Research Letters</i> , 2022, 10, 163-256.	4.1	215
2	Stabilizing Effect of a Hybrid Surface Coating on a Ni-Rich NCM Cathode Material in All-Solid-State Batteries. <i>Chemistry of Materials</i> , 2019, 31, 9664-9672.	3.2	174
3	Investigation into Mechanical Degradation and Fatigue of High-Ni NCM Cathode Material: A Long-Term Cycling Study of Full Cells. <i>ACS Applied Energy Materials</i> , 2019, 2, 7375-7384.	2.5	106
4	Grain boundaries as the controlling factor for the ferromagnetic behaviour of Co-doped ZnO. <i>Philosophical Magazine</i> , 2013, 93, 1371-1383.	0.7	100
5	Ferromagnetic behaviour of ZnO: the role of grain boundaries. <i>Beilstein Journal of Nanotechnology</i> , 2016, 7, 1936-1947.	1.5	99
6	Effect of Low-Temperature Al ₂ O ₃ ALD Coating on Ni-Rich Layered Oxide Composite Cathode on the Long-Term Cycling Performance of Lithium-Ion Batteries. <i>Scientific Reports</i> , 2019, 9, 5328.	1.6	91
7	Li ₂ ZrO ₃ -Coated NCM622 for Application in Inorganic Solid-State Batteries: Role of Surface Carbonates in the Cycling Performance. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 57146-57154.	4.0	90
8	The Role of Intragranular Nanopores in Capacity Fade of Nickel-Rich Layered Li(Ni _{1-x} Co _x Mn _y)O ₂ Cathode Materials. <i>ACS Nano</i> , 2019, 13, 10694-10704.	7.3	79
9	Phase transitions induced by severe plastic deformation: steady-state and equifinality. <i>International Journal of Materials Research</i> , 2015, 106, 657-664.	0.1	76
10	Structure and Properties of Nanograined Fe-C Alloys after Severe Plastic Deformation. <i>Advanced Engineering Materials</i> , 2011, 13, 463-469.	1.6	74
11	Enhancing the Electrochemical Performance of LiNi _{0.70} Co _{0.15} Mn _{0.15} O ₂ Cathodes Using a Practical Solution-Based Al ₂ O ₃ Coating. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 31392-31400.	4.0	57
12	Advanced Nanoparticle Coatings for Stabilizing Layered Ni-Rich Oxide Cathodes in Solid-State Batteries. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	45
13	New frontier in printed thermoelectrics: formation of \hat{I}^2 -Ag ₂ Se through thermally stimulated dissociative adsorption leads to high $\langle i \rangle_{ZT}$. <i>Journal of Materials Chemistry A</i> , 2020, 8, 16366-16375.	5.2	32
14	From LiNiO ₂ to Li ₂ NiO ₃ : Synthesis, Structures and Electrochemical Mechanisms in Li-Rich Nickel Oxides. <i>Chemistry of Materials</i> , 2020, 32, 9211-9227.	3.2	28
15	Silicon Nanoparticles with a Polymer-Derived Carbon Shell for Improved Lithium-Ion Batteries: Investigation into Volume Expansion, Gas Evolution, and Particle Fracture. <i>ACS Omega</i> , 2018, 3, 16706-16713.	1.6	27
16	Influence of carbon on the mechanical behavior and microstructure evolution of CoCrFeMnNi processed by high pressure torsion. <i>Materialia</i> , 2021, 16, 101059.	1.3	27
17	The effect of gallium substitution on the structure and electrochemical performance of LiNiO ₂ in lithium-ion batteries. <i>Materials Advances</i> , 2020, 1, 639-647.	2.6	23
18	Grain boundary segregation induced precipitation in a non equiatomic nanocrystalline CoCuFeMnNi compositionally complex alloy. <i>Acta Materialia</i> , 2021, 220, 117281.	3.8	18

#	ARTICLE	IF	CITATIONS
19	Single step synthesis of W-modified LiNiO ₂ using an ammonium tungstate flux. Journal of Materials Chemistry A, 2022, 10, 7841-7855.	5.2	17
20	Tailoring the protonic conductivity of porous yttria-stabilized zirconia thin films by surface modification. Physical Chemistry Chemical Physics, 2020, 22, 11519-11528.	1.3	14
21	Structure, phase composition, and microhardness of carbon steels after high-pressure torsion. Journal of Materials Science, 2008, 43, 3800-3805.	1.7	12
22	Quantifying solid-state mechanical mixing by high-pressure torsion. Journal of Alloys and Compounds, 2021, 878, 160419.	2.8	11
23	Multi-Element Surface Coating of Layered Ni-Rich Oxide Cathode Materials and Their Long-Term Cycling Performance in Lithium-Ion Batteries. Advanced Materials Interfaces, 2022, 9, 2101100.	1.9	10
24	Coercivity and domain structure of nanograined Fe-C alloys after high-pressure torsion. Journal of Materials Science, 2008, 43, 3775-3781.	1.7	8
25	Highly photoluminescent and stable silicon nanocrystals functionalized <i>via</i> microwave-assisted hydrosilylation. RSC Advances, 2018, 8, 9979-9984.	1.7	8
26	Design of Ordered Mesoporous CeO ₂ -YSZ Nanocomposite Thin Films with Mixed Ionic/Electronic Conductivity via Surface Engineering. ACS Nano, 2022, 16, 3182-3193.	7.3	8
27	On the formation of nanocrystalline aluminides during high pressure torsion of Al/Ni alternating foils and post-processing multilayer reaction. Journal of Alloys and Compounds, 2022, 905, 164201.	2.8	3
28	Nanostructured Fe-Cr-W Steel Exhibits Enhanced Resistance to Self-Ion Irradiation. Advanced Engineering Materials, 2020, 22, 1901333.	1.6	1
29	Phase Transformations in the Al _{1-x} Mg Alloys Driven by High-Pressure Torsion. Physica Status Solidi (B): Basic Research, 2021, 258, 2100210.	0.7	0
30	Aging of WE43 magnesium alloy after mechanical crushing and subsequent high pressure torsion. Letters on Materials, 2019, 9, 370-374.	0.2	0