

Andrei A Mazilkin

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/1343794/andrei-a-mazilkin-publications-by-year.pdf>

Version: 2024-04-10

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

29 papers	801 citations	14 h-index	28 g-index
30 ext. papers	1,074 ext. citations	6.4 avg, IF	4.21 L-index

#	Paper	IF	Citations
29	On the formation of nanocrystalline aluminides during high pressure torsion of Al/Ni alternating foils and post-processing multilayer reaction. <i>Journal of Alloys and Compounds</i> , 2022 , 905, 164201	5.7	0
28	Single step synthesis of W-modified LiNiO ₂ using an ammonium tungstate flux. <i>Journal of Materials Chemistry A</i> , 2022 , 10, 7841-7855	13	1
27	Nanomaterials by severe plastic deformation: review of historical developments and recent advances. <i>Materials Research Letters</i> , 2022 , 10, 163-256	7.4	26
26	Influence of carbon on the mechanical behavior and microstructure evolution of CoCrFeMnNi processed by high pressure torsion. <i>Materialia</i> , 2021 , 16, 101059	3.2	11
25	Quantifying solid-state mechanical mixing by high-pressure torsion. <i>Journal of Alloys and Compounds</i> , 2021 , 878, 160419	5.7	4
24	Grain boundary segregation induced precipitation in a non equiatomic nanocrystalline CoCuFeMnNi compositionally complex alloy. <i>Acta Materialia</i> , 2021 , 220, 117281	8.4	1
23	LiZrO-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	9.5	37
22	Tailoring the protonic conductivity of porous yttria-stabilized zirconia thin films by surface modification. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 11519-11528	3.6	9
21	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	3.3	14
20	Enhancing the Electrochemical Performance of LiNiCoMnO Cathodes Using a Practical Solution-Based AlO Coating. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 31392-31400	9.5	28
19	Nanostructured FeCrW Steel Exhibits Enhanced Resistance to Self-Ion Irradiation. <i>Advanced Engineering Materials</i> , 2020 , 22, 1901333	3.5	1
18	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	9.6	11
17	New frontier in printed thermoelectrics: formation of p-Ag ₂ Se through thermally stimulated dissociative adsorption leads to high ZT. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 16366-16375	13	21
16	The Role of Intragranular Nanopores in Capacity Fade of Nickel-Rich Layered Li(NiCoMn)O Cathode Materials. <i>ACS Nano</i> , 2019 , 13, 10694-10704	16.7	47
15	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	6.1	54
14	Effect of Low-Temperature AlO 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	4.9	66
13	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	9.6	94

12	Aging of WE43 magnesium alloy after mechanical crushing and subsequent high pressure torsion. <i>Letters on Materials</i> , 2019 , 9, 370-374	0.9	
11	Highly photoluminescent and stable silicon nanocrystals functionalized microwave-assisted hydrosilylation.. <i>RSC Advances</i> , 2018 , 8, 9979-9984	3.7	4
10	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	2.9	22
9	Ferromagnetic behaviour of ZnO: the role of grain boundaries. <i>Beilstein Journal of Nanotechnology</i> , 2016 , 7, 1936-1947	3	93
8	Phase transitions induced by severe plastic deformation: steady-state and equifinality. <i>International Journal of Materials Research</i> , 2015 , 106, 657-664	0.5	56
7	Grain boundaries as the controlling factor for the ferromagnetic behaviour of Co-doped ZnO. <i>Philosophical Magazine</i> , 2013 , 93, 1371-1383	1.6	97
6	Structure and Properties of Nanograined Fe ₉₁ Alloys after Severe Plastic Deformation. <i>Advanced Engineering Materials</i> , 2011 , 13, 463-469	3.5	73
5	Structure, phase composition, and microhardness of carbon steels after high-pressure torsion. <i>Journal of Materials Science</i> , 2008 , 43, 3800-3805	4.3	11
4	Coercivity and domain structure of nanograined Fe ₉₁ alloys after high-pressure torsion. <i>Journal of Materials Science</i> , 2008 , 43, 3775-3781	4.3	7
3	Multi-Element Surface Coating of Layered Ni-Rich Oxide Cathode Materials and Their Long-Term Cycling Performance in Lithium-Ion Batteries. <i>Advanced Materials Interfaces</i> , 2101100	4.6	1
2	Phase Transformations in the Al ₂ Mg Alloys Driven by High-Pressure Torsion. <i>Physica Status Solidi (B): Basic Research</i> , 2100210	1.3	
1	Advanced Nanoparticle Coatings for Stabilizing Layered Ni-Rich Oxide Cathodes in Solid-State Batteries. <i>Advanced Functional Materials</i> , 2111829	15.6	10