

Andrei A Mazilkin

List of Publications by Citations

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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	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
28	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
27	Ferromagnetic behaviour of ZnO: the role of grain boundaries. <i>Beilstein Journal of Nanotechnology</i> , 2016 , 7, 1936-1947	3	93
26	Structure and Properties of Nanograined FeAl Alloys after Severe Plastic Deformation. <i>Advanced Engineering Materials</i> , 2011 , 13, 463-469	3.5	73
25	Effect of Low-Temperature 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
24	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
23	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
22	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
21	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
20	Enhancing the Electrochemical Performance of LiNiCoMnO Cathodes Using a Practical Solution-Based ALD Coating. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 31392-31400	9.5	28
19	Nanomaterials by severe plastic deformation: review of historical developments and recent advances. <i>Materials Research Letters</i> , 2022 , 10, 163-256	7.4	26
18	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	3.9	22
17	New frontier in printed thermoelectrics: formation of PbAg_2Se through thermally stimulated dissociative adsorption leads to high ZT. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 16366-16375	13	21
16	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
15	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
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	9.6	11
13	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

12	Advanced Nanoparticle Coatings for Stabilizing Layered Ni-Rich Oxide Cathodes in Solid-State Batteries. <i>Advanced Functional Materials</i> , 2021, 11829	15.6	10
11	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
10	Coercivity and domain structure of nanograined Fe ₃ C alloys after high-pressure torsion. <i>Journal of Materials Science</i> , 2008, 43, 3775-3781	4.3	7
9	Highly photoluminescent and stable silicon nanocrystals functionalized microwave-assisted hydrosilylation.. <i>RSC Advances</i> , 2018, 8, 9979-9984	3.7	4
8	Quantifying solid-state mechanical mixing by high-pressure torsion. <i>Journal of Alloys and Compounds</i> , 2021, 878, 160419	5.7	4
7	Nanostructured Fe ₃ C/W Steel Exhibits Enhanced Resistance to Self-Ion Irradiation. <i>Advanced Engineering Materials</i> , 2020, 22, 1901333	3.5	1
6	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> , 2021, 10, 2101100	4.6	1
5	Grain boundary segregation induced precipitation in a non equiatomic nanocrystalline CoCuFeMnNi compositionally complex alloy. <i>Acta Materialia</i> , 2021, 220, 117281	8.4	1
4	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
3	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
2	Aging of WE43 magnesium alloy after mechanical crushing and subsequent high pressure torsion. <i>Letters on Materials</i> , 2019, 9, 370-374	0.9	
1	Phase Transformations in the Al ₂ Mg Alloys Driven by High-Pressure Torsion. <i>Physica Status Solidi (B): Basic Research</i> , 2020, 2100210	1.3	