

Zhongchen Lu

List of Articles by Year in descending order

Source: [//exaly.com/author-pdf/8260008/publications.pdf](https://exaly.com/author-pdf/8260008/publications.pdf)

Version: 2025-02-01

26

PR articles

595

PR citations

696661

13

PR h-index

684773

22

g-index

26

documents

611

doc citations

757461

13

h-index

1043

citing authors

#	ARTICLE	IF	CITATIONS
1	Enhanced microwave absorption in organogels: The synergy of polar molecules and magnetic particles. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2025, 705, 135712.	5.2	0
2	Enhanced low-frequency electromagnetic wave absorption and corrosion resistance of flaky carbonyl iron particles via atomic layer deposition of Al ₂ O ₃ nanocoatings. <i>Ceramics International</i> , 2025, 51, 41191-41204.	5.4	3
3	Decorating crystalline YFe ₂ Al on the Mg ₆₀ La ₁₀ Ni ₂₀ Cu ₁₀ amorphous alloy as a hydrogen pump to realize fast de/hydrogenation. <i>Journal of Materials Science and Technology</i> , 2024, 173, 72-79.	13.6	17
4	Fabrication of WO ₃ photocatalyst by plasma assisted ball milling under different discharge atmospheres. <i>Vacuum</i> , 2024, 220, 112809.	3.8	10
5	Microwave Absorption Properties of Flaky Carbonyl Iron @ Fe ₃ O ₄ Produced by Plasma-Assisted Ball Milling. <i>Journal of Materials Engineering and Performance</i> , 2024, 34, 4015-4025.	1.6	4
6	Recent Progress of Iron-Based Magnetic Absorbers and Its Applications in Elastomers: A Review. <i>Materials</i> , 2024, 17, 4058.	2.9	7
7	Microstructure and Mechanical Properties of WC-10wt.%AlCoCrFeNi Cemented Carbides Fabricated by Plasma-Assisted Ball Milling. <i>Journal of Materials Engineering and Performance</i> , 2024, 34, 8514-8524.	1.6	2
8	Fabrication of TiN-doped Ti nanocomposites with high strength and ductility by plasma-assisted ball milling and laser powder bed fusion. <i>Discover Materials</i> , 2024, 4, .	4.6	1
9	A Novel Approach to the Rapid in situ Synthesis of Tungsten Carbide Nanopowder by Plasma Milling and Carbothermal Reduction. <i>Advanced Engineering Materials</i> , 2023, 25, .	2.9	5
10	Amorphous alloys for hydrogen storage. <i>Journal of Alloys and Compounds</i> , 2023, 941, 168945.	6.0	75
11	Construction of SnS-Mo-graphene nanosheets composite for highly reversible and stable lithium/sodium storage. <i>Journal of Materials Science and Technology</i> , 2022, 121, 190-198.	13.6	21
12	Applications of Plasma-Assisted Systems for Advanced Electrode Material Synthesis and Modification. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 13909-13919.	8.0	41
13	Real-time regulation of filling speed based on multiparameter synergistic coupling effect in fused deposition modeling. <i>Journal of Physics: Conference Series</i> , 2021, 1948, 012069.	0.3	0
14	Rapid Synthesis of W-Cr Solid Solution by Dielectric-Barrier Discharge-Plasma-Assisted Ball Milling. <i>Metals and Materials International</i> , 2021, 27, 5389-5398.	3.3	8
15	A Novel Repetitive High-Voltage Resonant Pulse Generator for Plasma-Assisted Milling. <i>IEEE Transactions on Plasma Science</i> , 2021, 49, 2350-2358.	1.2	10
16	Achieving fast hydrogenation by hydrogen-induced phase separation in Mg-based amorphous alloys. <i>Journal of Alloys and Compounds</i> , 2021, 887, 161476.	6.0	19
17	Plasma-assisted coating of nanosized SnO ₂ on LiNi _{0.5} Co _{0.2} Mn _{0.3} O ₂ cathodes for enhanced cyclic stability of lithium-ion batteries. <i>Journal of Alloys and Compounds</i> , 2019, 803, 71-79.	6.0	42
18	Enhancement of Wear Properties of Ultrafine-Structured Al-Sn Alloy-Embedded Sn Nanoparticles Through In Situ Synthesis. <i>Tribology Letters</i> , 2019, 67, .	2.8	28

#	ARTICLE	IF	CITATIONS
19	Plasma milling modified Sb ₂ S ₃ -graphite nanocomposite as a highly reversible alloying-conversion anode material for lithium storage. <i>Electrochimica Acta</i> , 2019, 310, 26-37.	5.3	28
20	Fabricating Ultrathin Plate-Like WC Grains in WC-8Co Hardmetals by Increasing Discharge Intensity During Plasma-Assisted Ball Milling. <i>Metals and Materials International</i> , 2019, 26, 1373-1384.	3.3	14
21	Highly reversible conversion reaction in Sn ₂ Fe@SiO _x nanocomposite: A high initial Coulombic efficiency and long lifetime anode for lithium storage. <i>Energy Storage Materials</i> , 2018, 13, 257-266.	18.1	42
22	Unveiling critical size of coarsened Sn nanograins for achieving high round-trip efficiency of reversible conversion reaction in lithiated SnO ₂ nanocrystals. <i>Nano Energy</i> , 2018, 45, 255-265.	16.2	94
23	Achieving combination of high hardness and toughness for WC-8Co hardmetals by creating dual scale structured plate-like WC. <i>Ceramics International</i> , 2018, 44, 2668-2675.	5.4	32
24	Achieving high transverse rupture strength of WC-8Co hardmetals through forming plate-like WC grains by plasma assisted milling. <i>Materials Chemistry and Physics</i> , 2017, 190, 128-135.	4.4	21
25	Origin of Capacity Increasing in a Long-Life Ternary Sn-Fe ₃ O ₄ @Graphite Anode for Li-Ion Batteries. <i>Advanced Materials Interfaces</i> , 2017, 4, .	4.0	48
26	A spherical Sn-Fe ₃ O ₄ @graphite composite as a long-life and high-rate-capability anode for lithium ion batteries. <i>Journal of Materials Chemistry A</i> , 2016, 4, 10321-10328.	9.3	67