

# Aboubakr Medjahed

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2534802/publications.pdf>

Version: 2024-02-01

65  
papers

959  
citations

516710

16  
h-index

501196

28  
g-index

65  
all docs

65  
docs citations

65  
times ranked

785  
citing authors

#	ARTICLE	IF	CITATIONS
1	Achieving High Strength and Ductility in Magnesium Alloys via Densely Hierarchical Double Contraction Nanotwins. <i>Nano Letters</i> , 2017, 17, 6117-6124.	9.1	114
2	Enhanced Electromagnetic Interference Shielding in a Duplex-Phase Mg <sup>9</sup> Li <sup>3</sup> Al <sup>1</sup> Zn Alloy Processed by Accumulative Roll Bonding. <i>Acta Metallurgica Sinica (English Letters)</i> , 2020, 33, 490-499.	2.9	83
3	Effects of Cu/Mg ratio on the microstructure, mechanical and corrosion properties of Al-Li-Cu-Mg-X alloys. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018, 718, 241-249.	5.6	55
4	New horizon for high performance Mg-based biomaterial with uniform degradation behavior: Formation of stacking faults. <i>Scientific Reports</i> , 2015, 5, 13933.	3.3	47
5	Influence of the rolling direction on the microstructure, mechanical, anisotropy and gamma rays shielding properties of an Al-Cu-Li-Mg-X alloy. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018, 732, 129-137.	5.6	41
6	Effect of carbonate additive on the microstructure and corrosion resistance of plasma electrolytic oxidation coating on Mg-9Li-3Al alloy. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2022, 29, 1453-1463.	4.9	41
7	Preparation of Fine-Grained and High-Strength Mg <sup>8</sup> Li <sup>3</sup> Al <sup>1</sup> Zn Alloy by Accumulative Roll Bonding. <i>Advanced Engineering Materials</i> , 2016, 18, 304-311.	3.5	40
8	Influence of fiber volume fractions on the performances of alkali modified hemp fibers reinforced cyanate ester/benzoxazine blend composites. <i>Materials Chemistry and Physics</i> , 2018, 213, 146-156.	4.0	38
9	Silane-modified carbon fibers reinforced cyanate ester/benzoxazine resin composites: Morphological, mechanical and thermal degradation properties. <i>Vacuum</i> , 2018, 150, 12-23.	3.5	36
10	Impeding effect of the Al <sub>3</sub> (Er,Zr,Li) particles on planar slip and intergranular fracture mechanism of Al-3Li-1Cu-0.1Zr-X alloys. <i>Materials Characterization</i> , 2019, 147, 146-154.	4.4	36
11	Mechanical and gamma rays shielding properties of a novel fiber-metal laminate based on a basalt/phthalonitrile composite and an Al-Li alloy. <i>Composite Structures</i> , 2019, 210, 421-429.	5.8	26
12	Influence of Annealing Temperature on the Microstructure and Mechanical Properties of Al/Mg/Al Composite Sheets Fabricated by Roll Bonding. <i>Advanced Engineering Materials</i> , 2016, 18, 1792-1798.	3.5	23
13	Microstructure and Mechanical Properties of CNT-Reinforced AZ31 Matrix Composites Prepared Using Hot-Press Sintering. <i>Journal of Materials Engineering and Performance</i> , 2017, 26, 5495-5500.	2.5	21
14	Development of High-Performance Mg Alloy via Introducing Profuse Long Period Stacking Ordered Phase and Stacking Faults. <i>Advanced Engineering Materials</i> , 2015, 17, 876-884.	3.5	19
15	High performance nanocomposites from Ti <sub>3</sub> SiC <sub>2</sub> MAX phase and phthalonitrile resin. <i>Polymer Composites</i> , 2018, 39, 3705-3711.	4.6	19
16	High-performance polymer composites with enhanced mechanical and thermal properties from cyanate ester/benzoxazine resin and short Kevlar/glass hybrid fibers. <i>High Performance Polymers</i> , 2019, 31, 719-732.	1.8	18
17	Multifunctional polymer materials with enhanced mechanical, thermal and gamma radiation shielding properties from dicyanate ester of bisphenol-A/bisphenol-A based benzoxazine resin and short kevlar/basalt hybrid fibers. <i>Journal of Polymer Research</i> , 2018, 25, 1.	2.4	17
18	Effect of Sc and Zr on Microstructure and Mechanical Properties of As-Cast Al <sup>1</sup> Li <sup>1</sup> Cu Alloys. <i>Advanced Engineering Materials</i> , 2018, 20, 1700898.	3.5	17

#	ARTICLE	IF	CITATIONS
19	Al-RE Intermetallic Phase Stability and Effects on Corrosion Behavior in Cold-Chamber HPDC AE44 Alloy. <i>Advanced Engineering Materials</i> , 2016, 18, 148-155.	3.5	15
20	Microstructure, Texture, and Mechanical Properties of Alternate Mg-Li Composite Sheets Prepared by Accumulative Roll Bonding. <i>Advanced Engineering Materials</i> , 2017, 19, 1600817.	3.5	15
21	Cost Effective Surface-Modified Basalt Fibers-Reinforced Phthalonitrile Composites With Improved Mechanical Properties and Advanced Nuclear Shielding Efficiency. <i>Polymer Composites</i> , 2019, 40, E912.	4.6	15
22	Hybrid phthalonitrile-based materials with advanced mechanical and nuclear shielding performances. <i>Polymer Composites</i> , 2020, 41, 134-141.	4.6	15
23	High-performance polymeric nanocomposites from phthalonitrile resin and silane surface-modified Ti <sub>3</sub> AlC <sub>2</sub> MAX phase. <i>High Performance Polymers</i> , 2018, 30, 427-436.	1.8	14
24	Synergistic effect of carbon nanotube and graphene nanoplatelet addition on microstructure and mechanical properties of AZ31 prepared using hot-pressing sintering. <i>Journal of Materials Research</i> , 2018, 33, 4261-4269.	2.6	11
25	Hydrothermal Synthesis of Protective Coating on Mg Alloy for Degradable Implant Applications. <i>Coatings</i> , 2019, 9, 160.	2.6	11
26	Microstructural evolution, precipitation behavior and mechanical properties of a novel Al-Zn-Mg-Cu-Li-Sc-Zr alloy. <i>Journal of Materials Research</i> , 2021, 36, 740-750.	2.6	11
27	Development of Hot-Extruded Mg-RE-Zn Alloy Bar with High Mechanical Properties. <i>Materials</i> , 2019, 12, 1722.	2.9	10
28	Effects of Cold Rolling on Microstructural Evolution and Mechanical Properties of Mg-14Li-1Zn Alloy. <i>Advanced Engineering Materials</i> , 2019, 21, 1801344.	3.5	10
29	Fabrication Process, Tensile, and Gamma Rays Shielding Properties of Newly Developed Fiber Metal Laminates Based on an Al-Li Alloy and Carbon Fibers-Tungsten Carbide Nanoparticles Reinforced Phthalonitrile Resin Composite. <i>Advanced Engineering Materials</i> , 2019, 21, 1800779.	3.5	8
30	Microstructure and texture evolution of Mg-Li alloy during rolling. <i>International Journal of Materials Research</i> , 2014, 105, 1111-1117.	0.3	7
31	Microstructure and Mechanical Properties of Mg-8Li-(0, 1, 2)Ca-(0, 2)Gd Alloys. <i>Journal of Materials Engineering and Performance</i> , 2017, 26, 4831-4837.	2.5	7
32	Exploring the hybrid effects of short glass/basalt fibers on the mechanical, thermal and gamma-radiation shielding properties of DCBA/BA-a resin composites. <i>Polymer-Plastics Technology and Materials</i> , 2020, 59, 311-322.	1.3	7
33	Simultaneous toughening and reinforcing of cyanate ester/benzoxazine resins with improved mechanical and thermal properties by using hyperbranched polyesters. <i>Journal of Polymer Engineering</i> , 2018, 38, 839-848.	1.4	6
34	Processability and mechanical properties of surface-modified glass-fibres/phthalonitrile composite and Al-Li alloy fibre-metal-laminates. <i>Materials Science and Technology</i> , 2019, 35, 661-668.	1.6	6
35	Microstructure and Mechanical Properties of Mg-14Li-3Al-2Gd Alloy Processed by Multilayer Accumulative Roll Bonding. <i>Advanced Engineering Materials</i> , 2020, 22, 1900774.	3.5	6
36	Improvement of electromagnetic shielding properties for Mg-8Li-6Y-2Zn alloy by heat treatment and hot rolling. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 17249-17257.	2.2	6

#	ARTICLE	IF	CITATIONS
37	Microstructure Evolution and Hardness Variation of Mg-9Li-6Al-xLa (x=0 and 2.0) Alloys Under Different Aging Parameters. <i>Jom</i> , 2015, 67, 2442-2449.	1.9	5
38	Influence of Nd and Y on texture of as-extruded Mg-5Li-3Al-2Zn alloy. <i>Physics of Metals and Metallography</i> , 2016, 117, 735-741.	1.0	5
39	Effect of Minor Er on the Microstructure and Properties of Al-6.0Mg-0.4Mn-0.1Cr-0.1Zr Alloys. <i>Journal of Materials Engineering and Performance</i> , 2018, 27, 5709-5717.	2.5	5
40	Evolution of Microstructure, Mechanical Properties, and Thermal Conductivity of an Al-Li-Cu-Mg-Zr Alloy Processed by Accumulative Roll Bonding (ARB). <i>Jom</i> , 2019, 71, 4096-4104.	1.9	5
41	Protective and Thermophysical Characteristics of Plasma-Electrolytic Coatings on the Ultra-Light Magnesium Alloy. <i>Journal of Engineering Materials and Technology, Transactions of the ASME</i> , 0, , 1-15.	1.4	5
42	Spray Degassing as a Method for Hydrogen Removal in Aluminum Melts. <i>Materials Transactions</i> , 2007, 48, 1029-1033.	1.2	4
43	Microstructure and Mechanical Properties of the As-Cast and Extruded Mg-(6-11)Li-3Al-Ce-Ca Alloys. <i>Materials Transactions</i> , 2010, 51, 1526-1530.	1.2	4
44	Microstructures and corrosion resistance of three typical superlight Mg-Li alloys. <i>International Journal of Materials Research</i> , 2014, 105, 58-64.	0.3	4
45	The Effect of Y/Er and Zn Addition on the Microstructure and Mechanical Properties of Mg-11Li Alloy. <i>Materials</i> , 2019, 12, 3066.	2.9	4
46	Preparation and characterization of a new high-performance polymer composite and its application as a lead-free polymer-based projectile. <i>High Performance Polymers</i> , 2020, 32, 550-558.	1.8	4
47	Simultaneously Improving Strength and Ductility of Mg-3Li-8Gd-2Y-1.5Ag Alloy by Solution Treatment and Hot-Rolling Process. <i>Advanced Engineering Materials</i> , 2021, 23, 2100530.	3.5	4
48	MECHANICAL PROPERTIES AND MICROSTRUCTURE OF Mg-5Li-5Al-3Zn-xCd ALLOYS. <i>International Journal of Modern Physics B</i> , 2009, 23, 894-899.	2.0	3
49	ANALYSIS ON THE MICROSTRUCTURE OF THE AS-CAST AND EXTRUDED Mg-(6-10)Li-3Al-Ce-Ca ALLOYS. <i>International Journal of Modern Physics B</i> , 2009, 23, 920-926.	2.0	3
50	Microstructure and Hardness of Mg-9Li-6Al Alloy After Different Variants of Solid Solution Treatment. <i>Metal Science and Heat Treatment</i> , 2018, 59, 761-766.	0.6	3
51	Preparation and Corrosion Performance of PPy/Silane Film on AZ31 Magnesium Alloy via One-Step Cyclic Voltammetry. <i>Polymers</i> , 2021, 13, 3148.	4.5	3
52	Effect of Li content on electromagnetic shielding effectiveness in binary Mg-Li alloys: a combined experimental and first-principles study. <i>Journal of Materials Science: Materials in Electronics</i> , 2022, 33, 3891-3900.	2.2	3
53	Grain Refinement Behavior of Accumulative Roll Bonding-Processed Mg-14Li-3Al-2Gd Alloy. <i>Journal of Materials Engineering and Performance</i> , 2022, 31, 6617-6625.	2.5	3
54	The effects of purge gases on the hydrogen content and mechanical properties of spray-degassed Al. <i>Jom</i> , 2007, 59, 62-64.	1.9	2

#	ARTICLE	IF	CITATIONS
55	Influences of 1 wt% La-rich RE addition and deformation processes on the alloy of Mg-6Li-1.5Al. Journal of Materials Science, 2010, 45, 4084-4087.	3.7	2
56	Microstructural stability of heat-resistant high-pressure die-cast Mg-4Al-4Ce alloy. International Journal of Materials Research, 2017, 108, 427-430.	0.3	2
57	Effect of Annealing Temperature on the Microstructure and Mechanical Properties of the Al/Mg-8Li-3Al-1Zn/Al Composite Plates Fabricated by Hot Rolling. Physics of Metals and Metallography, 2019, 120, 447-453.	1.0	2
58	Effects of Annealing on the Microstructures and Mechanical Properties of Cold-Rolled TB8 Alloy. Journal of Materials Engineering and Performance, 2019, 28, 2816-2825.	2.5	2
59	Effect of TiC Content on Tensile Properties, Bend Strength, and Thermal Conductivity of Al-Li-Cu-Mg-Zr Alloy/TiC Composites Produced by Accumulative Roll Bonding. Journal of Materials Engineering and Performance, 2020, 29, 3253-3263.	2.5	2
60	Microstructure and Mechanical Properties of the As-Cast Al <sub>1.5</sub> Li <sub>1.5</sub> Cu <sub>1.5</sub> Mg <sub>1.5</sub> Zr Alloy with High Li Content and Different Cu/Mg Ratios. Advanced Engineering Materials, 2020, 22, 1901570.	3.5	2
61	Microstructure, Mechanical Properties and Strain Hardening Behavior of Alternative $\hat{1}\pm/\hat{1}^2$ Mg-Li Composite Sheets Prepared by Accumulative Roll Bonding. Metals and Materials International, 0, , 1.	3.4	2
62	Effect of Single-Pass Large-Strain Rolling on Microstructure and Mechanical Properties of Al-3Li-1Cu-0.2Er-0.1Zr Alloy. Journal of Materials Engineering and Performance, 2022, 31, 3287-3298.	2.5	2
63	Study of hydrogen absorption of aluminum melt. International Journal of Materials Research, 2008, 99, 212-215.	0.3	1
64	Effects of the addition of Na <sub>2</sub> SnO <sub>3</sub> to NaCl electrolytes on Mg-14Li-3Al-1Gd electrode electrochemical behavior. Materials and Corrosion - Werkstoffe Und Korrosion, 2020, 71, 564-570.	1.5	1
65	A Novel Ordered B2 Particle Strengthened Mg-6Li-1Zn Alloy. Advanced Engineering Materials, 2022, 24, .	3.5	1