Muhammad Abubaker khan

List of Publications by Year
in descending order

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35 papers	881 citations	394421 19 h-index	477307 29 g-index
36 all docs	36 docs citations	36 times ranked	548 citing authors

#	Article	IF	Citations
1	Failure and energy absorption characteristics of four lattice structures under dynamic loading. Materials and Design, 2019, 169, 107655.	7.0	117
2	Interfacial structure and stability of a co-continuous SiC/Al composite prepared by vacuum-pressure infiltration. Ceramics International, 2017, 43, 6563-6570.	4.8	64
3	Simulation of damage and failure processes of interpenetrating SiC/Al composites subjected to dynamic compressive loading. Acta Materialia, 2014, 78, 190-202.	7.9	63
4	Influence of different back laminate layers on ballistic performance of ceramic composite armor. Materials and Design, 2015, 87, 421-427.	7.0	60
5	Fracture behavior of twin induced ultra-fine grained ZK61 magnesium alloy under high strain rate compression. Journal of Materials Research and Technology, 2019, 8, 3475-3486.	5.8	48
6	Effect of heat treatment on the precipitate behaviour, corrosion resistance and high temperature tensile properties of 7055 aluminum alloy synthesis by novel spray deposited followed by hot extrusion. Vacuum, 2020, 174, 109185.	3.5	35
7	Mechanical properties and microstructure evolution of pressureless-sintered B4Câ€“SiC ceramic composite with CeO2 additive. Ceramics International, 2019, 45, 15108-15115.	4.8	34
8	Microstructure and mechanical properties of an Al-Zn-Cu-Mg alloy processed by hot forming processes followed by heat treatments. Materials Characterization, 2019, 157, 109901.	4.4	29
9	Microstructural evolution of ultra-fine grained Mg-6.62Zn-0.6Zr alloy on the basis of adiabatic rise in temperature under dynamic loading. Vacuum, 2019, 168, 108810.	3.5	28
10	Effect of structural parameters on mechanical properties of Pyramidal Kagome lattice material under impact loading. International Journal of Impact Engineering, 2019, 132, 103313.	5.0	28
11	Ballistic behaviour of spray formed AA7055 aluminum alloy against tungsten core projectile impact. Vacuum, 2019, 159, 482-493.	3.5	27
12	Microstructure evolution of Mg-Zn-Zr magnesium alloy against soft steel core projectile. Journal of Materials Science and Technology, 2021, 79, 46-61.	10.7	27
13	Achieving higher dynamic mechanical response by adjusting texture through twinning in a ZK61 Mg alloy. Journal of Alloys and Compounds, 2022, 902, 163755.	5.5	27
14	Effects of carbon and silicon on microstructure and mechanical properties of pressureless sintered B4C/TiB2 composites. Journal of Alloys and Compounds, 2019, 772, 537-545.	5.5	25
15	Microstructure characteristic of spray formed 7055 Al alloy subjected to ballistic impact by two different steel core projectiles impact. Journal of Materials Research and Technology, 2019, 8, 6177-6190.	5.8	24
16	Effect of sintering temperature on the mechanical properties and microstructures of pressureless-sintered B4C/SiC ceramic composite with carbon additive. Journal of Alloys and Compounds, 2020, 820, 153153.	5.5	24
17	The influence of metal cover plates on ballistic performance of silicon carbide subjected to large-scale tungsten projectile. Materials and Design, 2020, 191, 108659.	7.0	24
18	Adiabatic shear band localization in an Alâ€“Znâ€“Mgâ€“Cu alloy under high strain rate compression. Journal of Materials Research and Technology, 2020, 9, 3977-3983.	5.8	21

#	Article	IF	Citations
19	Effects of the adhesive layer on the multi-hit ballistic performance of ceramic/metal composite armors. Journal of Materials Research and Technology, 2021, 13, 1496-1508.	5.8	21
20	Effect of pre-compression on changes in texture and yielding behavior of ZK61 Mg alloy. Vacuum, 2020, 172, 109039.	3.5	20
21	The effect of strain rates on the microstructure and the mechanical properties of an over-aged Al-Zn-Mg-Cu alloy. Materials Characterization, 2020, 167, 110472.	4.4	20
22	Precipitation behaviour in an Al-Zn-Mg-Cu alloy subjected to high strain rate compression tests. Materials Characterization, 2021, 180, 111398.	4.4	18
23	What is the major problem with wrought Mg alloys?. Results in Engineering, 2020, 7, 100162.	5.1	16
24	Study on Protection Mechanism of 30CrMnMo-UHMWPE Composite Armor. Materials, 2017, 10, 405.	2.9	11
25	Microstructure evolution of an artificially aged Al-Zn-Mg-Cu alloy subjected to soft- and hard-steel core projectiles. Journal of Materials Research and Technology, 2020, 9, 11980-11992.	5.8	11
26	Ballistic Behavior of Oblique Ceramic Composite Structure against Long-Rod Tungsten Projectiles. Materials, 2019, 12, 2946.	2.9	10
27	Impact of pre-straining on the hardness and anisotropic mechanical behavior of ZK61 Mg alloy. Vacuum, 2020, 178, 109465.	3.5	9
28	An analysis of bi-layer ceramic armor and optimization of protection efficiency. Materials and Design, 2021, 203, 109633.	7.0	7
29	Effect of Ductile Agents on the Dynamic Behavior of SiC3D Network Composites. Applied Composite Materials, 2016, 23, 1015-1026.	2.5	6
30	Influence of cover thickness on the ballistic performance of silicon carbide subjected to large-scale tungsten projectiles. Ceramics International, 2021, 47, 15783-15791.	4.8	6
31	The effect of surface oxidized modification on the mechanical properties of SiC3D/Al. Applied Surface Science, 2015, 332, 507-512.	6.1	5
32	Effects of surface-oxidation modification and heat treatment on silicon carbide 3D/AlCu 5 MgTi composites during vacuum-pressure infiltration. Applied Surface Science, 2015, 356, 795-803.	6.1	5
33	Effect of glass cover layer on the ballistic performance of transparent ceramic armor. Ceramics International, 2021, 47, 29277-29284.	4.8	4
34	The both positive and negative effect of pre-strain on the mechanical response of extruded magnesium alloy. Forces in Mechanics, 2021, 4, 100031.	2.8	3
35	Damage characteristic of interpenetrating phase composites under dynamic loading. Journal Wuhan University of Technology, Materials Science Edition, 2014, 29, 698-703.	1.0	2