

W K Ahmed

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.

57
papers

414
citations

10
h-index

18
g-index

76
ext. papers

572
ext. citations

2.1
avg, IF

4.33
L-index

#	Paper	IF	Citations
57	Structural, mechanical, electronic and magnetic properties of a new series of quaternary Heusler alloys CoFeMnZ (Z=Si, As, Sb): A first-principle study. <i>Journal of Magnetism and Magnetic Materials</i> , 2015 , 393, 165-174	2.8	83
56	Cadmium effect on optical properties of Cu ₂ Zn _{1-x} Cd _x SnS ₄ quaternary alloys nanostructures. <i>Solar Energy</i> , 2015 , 114, 39-50	6.8	44
55	Doping-Induced Half-Metallic Ferromagnetism in Vanadium and Chromium-Doped Alkali Oxides K ₂ O and Rb ₂ O: Ab Initio Method. <i>Journal of Superconductivity and Novel Magnetism</i> , 2017 , 30, 2197-2210	1.5	28
54	Implementing FDM 3D Printing Strategies Using Natural Fibers to Produce Biomass Composite. <i>Materials</i> , 2020 , 13,	3.5	27
53	3D Printing PLA Waste to Produce Ceramic Based Particulate Reinforced Composite Using Abundant Silica-Sand: Mechanical Properties Characterization. <i>Polymers</i> , 2020 , 12,	4.5	25
52	Spin-polarized structural, elastic, electronic and magnetic properties of half-metallic ferromagnetism in V-doped ZnSe. <i>Journal of Magnetism and Magnetic Materials</i> , 2015 , 374, 50-60	2.8	24
51	Detailed DFT studies of the electronic structure and optical properties of KBaMSe ₃ (M = As, Sb). <i>Journal of Alloys and Compounds</i> , 2015 , 644, 91-96	5.7	12
50	Structural and optical investigations of In doped ZnO binary compound. <i>Materials Express</i> , 2014 , 4, 159-164		12
49	Half-metallicity and optoelectronic properties of V-doped zincblende ZnS and CdS alloys. <i>International Journal of Modern Physics B</i> , 2016 , 30, 1650034	1.1	11
48	3D printing innovations in UAE: Case study: Abu Dhabi summer challenge 2017 2018 ,		10
47	Magneto-Free Convective of Hybrid Nanofluid inside Non-Darcy Porous Enclosure Containing an Adiabatic Rotating Cylinder. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2020 , 1-16	1.6	9
46	Investigating the Mechanical Properties of 3D Printed Components 2020 ,		9
45	Investigating the Structural, Thermal, and Electronic Properties of the Zircon-Type ZrSiO ₄ , ZrGeO ₄ and HfSiO ₄ Compounds. <i>Journal of Electronic Materials</i> , 2016 , 45, 5811-5821	1.9	9
44	Embracing Additive Manufacturing Technology through Fused Filament Fabrication for Antimicrobial with Enhanced Formulated Materials. <i>Polymers</i> , 2021 , 13,	4.5	9
43	2019 ,		6
42	Three-dimensional printing of ceramic powder technology 2020 , 351-383		6
41	Mechanical performance of three-dimensional printed sandwich composite with a high-flexible core. <i>Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications</i> , 2021 , 235, 1382-1400	1.3	6

40	Using Videos in Blended E-Learning for a Structural Steel Design Course. <i>Education Sciences</i> , 2021 , 11, 290	2.2	5
39	Boosting Teaching Experience in Mechanical Engineering Courses Using Additive Manufacturing Technologies 2019 ,		4
38	Using blended learning for self-learning. <i>International Journal of Technology Enhanced Learning</i> , 2015 , 7, 91	1.2	4
37	Studying structural, electronic and optical properties of zinc-blende Ga _{1-x} Al _x P at normal and under pressure by means of first principle. <i>Materials Research Express</i> , 2015 , 2, 105904	1.7	4
36	Strengthening of Misaligned Welded Pipes with Outer Circumferentially Crack Using FRP Bandage Finite Element Analysis 2013 , 66-73		4
35	Dimensional Stability of 3D Printed Objects Made from Plastic Waste Using FDM: Potential Construction Applications. <i>Buildings</i> , 2021 , 11, 516	3.2	4
34	E-Learning as a Stimulation Methodology to Undergraduate Engineering Students. <i>International Journal of Emerging Technologies in Learning</i> , 2013 , 8, 4	1.4	4
33	Video-based e-learning for an undergraduate engineering course. <i>E-Learning and Digital Media</i> , 2019 , 16, 475-496	1.3	3
32	Fracture Assessment of Strengthened Cracked Metallic Components Using FRP Stiffeners. <i>Mechanics of Composite Materials</i> , 2015 , 51, 301-312	1.1	3
31	Experimenting E-Learning for Postgraduate Courses. <i>International Journal of Emerging Technologies in Learning</i> , 2016 , 11, 126	1.4	3
30	2019 ,		3
29	Structural, electronic and thermal properties of Al _x Ga _{1-x} As ternary alloys: Insights from DFT study. <i>Journal of Molecular Graphics and Modelling</i> , 2019 , 92, 140-146	2.8	3
28	Development of Nanocement Mortar as a Construction Material. <i>Advanced Materials Research</i> , 2013 , 795, 684-691	0.5	3
27	Comprehensive Characterization of Polymeric Composites Reinforced with Silica Microparticles Using Leftover Materials of Fused Filament Fabrication 3D Printing. <i>Polymers</i> , 2021 , 13,	4.5	3
26	Designing an Innovative CubeSat Payload to Investigate Material Properties for UAE Space Missions 2019 ,		2
25	Investigating the use of no-dig technologies for underground utilities in developing countries. <i>Innovative Infrastructure Solutions</i> , 2020 , 5, 1	2.3	2
24	2018 ,		2
23	Characterisation of fractured particulate reinforced composite. <i>International Journal of Microstructure and Materials Properties</i> , 2014 , 9, 160	0.4	2

22	Ionic Liquid Potential to Recycle Polymeric Waste: An Experimental Investigation. <i>Materials Research</i> , 2020 , 23,	1.5	2
21	The Innovation of Using 3D Printing Technology in Mechanical and Manufacturing Engineering. <i>IOP Conference Series: Materials Science and Engineering</i> , 2020 , 938, 012002	0.4	2
20	Undergraduate Research Program to Recycle Composite Waste. <i>Education Sciences</i> , 2021 , 11, 354	2.2	2
19	CHAD: Compact Hand-Assistive Device for enhancement of function in hand impairments. <i>Robotics and Autonomous Systems</i> , 2021 , 142, 103784	3.5	2
18	3D Printed Implants for Joint Replacement 2021 , 97-119		2
17	Adsorption of Bilirubin Toxin in Liver by Chitosan Coated Activated Carbon Prepared from Date Pits. <i>Lecture Notes in Computer Science</i> , 2017 , 247-260	0.9	1
16	Nano cement mortars for construction materials 2020 , 649-692		1
15	Investigating the Compressive Strength of CFRP Pre-Preg Scrap from Aerospace Industries: Compression Molding 2019 ,		1
14	SIF Prediction of Nanocomposite With Interfacial Debonding 2014 ,		1
13	Mechanical properties of nano-cement mortar: Compression and tension 2015 ,		1
12	Effect of Nano-Circular Inclusion on the Interfacial Stresses of a Nano-Composite. <i>AIP Conference Proceedings</i> , 2007 ,	0	1
11	ABS/Silicon Dioxide Micro Particulate Composite from 3D Printing Polymeric Waste.. <i>Polymers</i> , 2022 , 14,	4.5	1
10	The Implications of Pressure on Electronic, Magnetic, Mechanical, and Elastic Properties of Cobalt and Cobalt Hydride: DFT Calculation. <i>Journal of Superconductivity and Novel Magnetism</i> , 2020 , 33, 3451-3461	1.5	1
9	Blending QR code with video learning in the pedagogical process for the college foundation level. <i>Interactive Technology and Smart Education</i> , 2019 , 17, 67-85	2.4	1
8	Fracture Mechanics Performance of Through-Thickness Crack of Polymeric 3D Printed Components. <i>Lecture Notes in Mechanical Engineering</i> , 2021 , 269-279	0.4	1
7	The Capabilities of 3D Printing Technology in the Production of Battery Energy Storage System 2021 ,		1
6	Producing Particulate Composite Using 3D Printing Plastics Waste 2022 ,		1
5	Carbon Fiber/PLA Recycled Composite. <i>Polymers</i> , 2022 , 14, 2194	4.5	1

- 4 Thermal response of a ferrocement cavity wall under direct fire. *International Journal of Sustainable Building Technology and Urban Development*, **2015**, 6, 229-235 ○
- 3 Processing Biodegradable Fused Filament Fabrication Waste with Micro-Silica Particles. *Key Engineering Materials*, 907, 156-162 ○.4 ○
- 2 Evaluating Post Machining Process of 3D Printing Topology Optimization. *Key Engineering Materials*, 878, 113-118 ○.4
- 1 Mathematical modeling and simulation of interfaces between fiber and its matrix **2020**, 91-99