

# Ahmad T Mayyas

## List of Publications by Citations

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56  
papers

1,669  
citations

19  
h-index

40  
g-index

61  
ext. papers

2,007  
ext. citations

4.4  
avg, IF

5.09  
L-index

#	Paper	IF	Citations
56	Design for sustainability in automotive industry: A comprehensive review. <i>Renewable and Sustainable Energy Reviews</i> , <b>2012</b> , 16, 1845-1862	16.2	259
55	Thermo-mechanical behaviors of the expanded graphite-phase change material matrix used for thermal management of Li-ion battery packs. <i>Journal of Materials Processing Technology</i> , <b>2010</b> , 210, 174-179	5.79	130
54	Prediction of density, porosity and hardness in aluminum/copper-based composite materials using artificial neural network. <i>Journal of Materials Processing Technology</i> , <b>2009</b> , 209, 894-899	5.3	121
53	Life cycle assessment-based selection for a sustainable lightweight body-in-white design. <i>Energy</i> , <b>2012</b> , 39, 412-425	7.9	120
52	Using Quality Function Deployment and Analytical Hierarchy Process for material selection of Body-In-White. <i>Materials &amp; Design</i> , <b>2011</b> , 32, 2771-2782		113
51	Wear behavior of Al/Mg/Cu based composites containing SiC particles. <i>Tribology International</i> , <b>2009</b> , 42, 1230-1238	4.9	109
50	The case for recycling: Overview and challenges in the material supply chain for automotive li-ion batteries. <i>Sustainable Materials and Technologies</i> , <b>2019</b> , 19, e00087	5.3	81
49	Vehicular thermal comfort models; a comprehensive review. <i>Applied Thermal Engineering</i> , <b>2011</b> , 31, 995-1002	10.2	70
48	Prediction of tribological behavior of aluminum/copper based composite using artificial neural network. <i>Journal of Alloys and Compounds</i> , <b>2009</b> , 470, 584-588	5.7	63
47	Quantifiable measures of sustainability: a case study of materials selection for eco-lightweight auto-bodies. <i>Journal of Cleaner Production</i> , <b>2013</b> , 40, 177-189	10.3	53
46	Artificial neural network modeling of the drilling process of self-lubricated aluminum/alumina/graphite hybrid composites synthesized by powder metallurgy technique. <i>Journal of Alloys and Compounds</i> , <b>2009</b> , 478, 559-565	5.7	51
45	Economics and Challenges of Li-Ion Battery Recycling from End-of-Life Vehicles. <i>Procedia Manufacturing</i> , <b>2019</b> , 33, 272-279	1.5	49
44	Production energy optimization using low dynamic programming, a decision support tool for sustainable manufacturing. <i>Journal of Cleaner Production</i> , <b>2015</b> , 105, 178-183	10.3	42
43	Wear behavior of AlCu and AlCu/SiC components produced by powder metallurgy. <i>Journal of Materials Science</i> , <b>2008</b> , 43, 5368-5375	4.3	41
42	Hydrogen as a long-term, large-scale energy storage solution when coupled with renewable energy sources or grids with dynamic electricity pricing schemes. <i>International Journal of Hydrogen Energy</i> , <b>2020</b> , 45, 16311-16325	6.7	39
41	Manufacturing competitiveness analysis for hydrogen refueling stations. <i>International Journal of Hydrogen Energy</i> , <b>2019</b> , 44, 9121-9142	6.7	37
40	Vehicle's lightweight design vs. electrification from life cycle assessment perspective. <i>Journal of Cleaner Production</i> , <b>2017</b> , 167, 687-701	10.3	36

39	Manufacturing Cost Analysis for Proton Exchange Membrane Water Electrolyzers		34
38	A Direct Manufacturing Cost Model for Solid-Oxide Fuel Cell Stacks. <i>Fuel Cells</i> , <b>2017</b> , 17, 825-842	2.9	22
37	Principal Component Analysis-Based Image Fusion Routine with Application to Automotive Stamping Split Detection. <i>Research in Nondestructive Evaluation</i> , <b>2011</b> , 22, 76-91	0.9	15
36	Effects of latent damage of recrystallization on lead free solder joints. <i>Microelectronics Reliability</i> , <b>2014</b> , 54, 447-456	1.2	13
35	Sustainable lightweight vehicle design: a case study of eco-material selection for body-in-white. <i>International Journal of Sustainable Manufacturing</i> , <b>2012</b> , 2, 317	0.4	13
34	Incorporating quality function deployment and analytical hierarchy process in a knowledge-based system for automotive production line design. <i>International Journal of Computer Integrated Manufacturing</i> , <b>2013</b> , 26, 839-856	4.3	12
33	Eco-material selection using fuzzy TOPSIS method. <i>International Journal of Sustainable Engineering</i> , <b>2016</b> , 1-13	3.1	11
32	Design considerations of flat patterns analysis techniques when applied for folding 3-D sheet metal geometries. <i>Journal of Intelligent Manufacturing</i> , <b>2014</b> , 25, 109-128	6.7	10
31	Emerging Manufacturing Technologies for Fuel Cells and Electrolyzers. <i>Procedia Manufacturing</i> , <b>2019</b> , 33, 508-515	1.5	9
30	Cooling strategy for effective automotive power trains: 3D thermal modeling and multi-faceted approach for integrating thermoelectric modules into proton exchange membrane fuel cell stack. <i>International Journal of Hydrogen Energy</i> , <b>2014</b> , 39, 17327-17335	6.7	9
29	Modeling Blanking Process Using Multiple Regression Analysis and Artificial Neural Networks. <i>Journal of Materials Engineering and Performance</i> , <b>2012</b> , 21, 1611-1619	1.6	9
28	Recrystallization of Lead Free Solder Joints: Confounding the Interpretation of Accelerated Thermal Cycling Results? <b>2009</b> ,		9
27	Comprehensive thermal modeling of a power-split hybrid powertrain using battery cell model. <i>Journal of Power Sources</i> , <b>2011</b> , 196, 6588-6594	8.9	7
26	Thermal modeling of an on-board nickel-metal hydride pack in a power-split hybrid configuration using a cell-based resistance-capacitance, electro-thermal model. <i>International Journal of Energy Research</i> , <b>2013</b> , 37, 331-346	4.5	6
25	Design Analysis for Origami-Based Folded Sheet Metal Parts. <i>SAE International Journal of Materials and Manufacturing</i> , <b>2014</b> , 7, 488-498	1	6
24	Comprehensive Review on Concept and Recycling Evolution of Lithium-Ion Batteries (LIBs). <i>Energy &amp; Fuels</i> ,	4.1	6
23	IR Thermographic Analysis of 3D Printed CFRP Reference Samples with Back-Drilled and Embedded Defects. <i>Journal of Nondestructive Evaluation</i> , <b>2018</b> , 37, 1	2.1	5
22	GEOMETRICAL, THERMAL AND MECHANICAL PROPERTIES OF OLIVE FRUITS. <i>Journal of Food Process Engineering</i> , <b>2010</b> , 33, 257-271	2.4	5

21	Eco-material selection assisted with decision-making tools, guided by product attributes; functionality and manufacturability. <i>International Journal of Materials and Structural Integrity</i> , <b>2012</b> , 6, 190	0.3	5
20	Effect of Copper and Silicon Carbide Content on the Corrosion Resistance of Al-Mg Alloys in Acidic and Alkaline Solutions. <i>Journal of Minerals and Materials Characterization and Engineering</i> , <b>2012</b> , 11, 335-352	0.4	5
19	Economics of the Li-ion batteries and reversible fuel cells as energy storage systems when coupled with dynamic electricity pricing schemes. <i>Energy</i> , <b>2022</b> , 239, 121941	7.9	5
18	Techno-economic analysis of energy storage systems using reversible fuel cells and rechargeable batteries in green buildings. <i>Energy</i> , <b>2022</b> , 247, 123466	7.9	5
17	Knowledge-based systems in sheet metal stamping: a survey. <i>International Journal of Computer Integrated Manufacturing</i> , <b>2014</b> , 27, 707-718	4.3	4
16	Knowledge-based system, equipped with cluster analysis for eco-material selection: an automobile structure case study. <i>International Journal of Sustainable Engineering</i> , <b>2014</b> , 7, 200-213	3.1	4
15	The Effect of Time, Percent of Copper and Nickel on Naturally Aged Al-Cu-Ni Cast Alloys. <i>Journal of Minerals and Materials Characterization and Engineering</i> , <b>2012</b> , 11, 117-131	0.4	3
14	Techno-economic analysis of the Li-ion batteries and reversible fuel cells as energy-storage systems used in green and energy-efficient buildings. <i>Clean Energy</i> , <b>2021</b> , 5, 273-287	4.7	3
13	Deployment and Capacity Trends for Stationary Fuel Cell Systems in the USA <b>2016</b> , 257-269		2
12	Fuel Cell Forklift Deployment in the USA <b>2016</b> , 334-342		2
11	Modeling the Drilling Process of Aluminum Composites Using Multiple Regression Analysis and Artificial Neural Networks. <i>Journal of Minerals and Materials Characterization and Engineering</i> , <b>2012</b> , 11, 1039-1049	0.4	2
10	A data-driven modeling and analysis approach to test the resilience of green buildings to uncertainty in operation patterns. <i>Energy Science and Engineering</i> , <b>2020</b> , 8, 4250-4269	3.4	2
9	Eco-Material Selection for Auto Bodies <b>2017</b> , 1-22		1
8	The Effect of Time, Percent of Copper and Nickel on the Natural Precipitation Hardness of Al [Cu] Ni Powder Metallurgy Alloys Using Design of Experiments. <i>Journal of Minerals and Materials Characterization and Engineering</i> , <b>2011</b> , 10, 479-492	0.4	1
7	Mathematical Model for the Placement of Hydrogen Refueling Stations to Support Future Fuel Cell Trucks. <i>IEEE Access</i> , <b>2021</b> , 1-1	3.5	1
6	Fuel Cell Systems: Total Cost of Ownership <b>2019</b> , 27-81		1
5	Eco-Material Selection for Lightweight Vehicle Design <b>2020</b> ,		1
4	Efficient and Cost-effective Hybrid Composite Material Based on Thermoplastic Polymer and Recycled Graphite. <i>Chemical Engineering Journal</i> , <b>2021</b> , 430, 132667	14.7	1

3 Eco-material Selection for Auto Bodies **2019**, 3125-3146

2 Energy-Aware Manufacturing Using Information Technology Tools. *International Journal of Information Technology and Web Engineering*, **2014**, 9, 70-77 1.3

1 Specific energy analysis for the manufacturing of light-weight automobile body. *International Journal of Sustainable Manufacturing*, **2018**, 4, 39 0.4