

# Marwan K Khraisheh

## List of Publications by Year in descending order

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74  
papers

2,804  
citations

201575

27  
h-index

182361

51  
g-index

74  
all docs

74  
docs citations

74  
times ranked

2882  
citing authors

#	ARTICLE	IF	CITATIONS
1	Functional graphene nanosheets: The next generation membranes for water desalination. <i>Desalination</i> , 2015, 356, 208-225.	4.0	330
2	Friction stir processing of commercial AZ31 magnesium alloy. <i>Journal of Materials Processing Technology</i> , 2007, 191, 77-81.	3.1	199
3	Inorganic Membranes: Preparation and Application for Water Treatment and Desalination. <i>Materials</i> , 2018, 11, 74.	1.3	199
4	Testing and modelling of material behaviour and formability in sheet metal forming. <i>CIRP Annals - Manufacturing Technology</i> , 2014, 63, 727-749.	1.7	185
5	Mechanical properties of water desalination and wastewater treatment membranes. <i>Desalination</i> , 2017, 401, 190-205.	4.0	146
6	Can carbon-based nanomaterials revolutionize membrane fabrication for water treatment and desalination?. <i>Desalination</i> , 2016, 391, 69-88.	4.0	115
7	Analysis of mixed mode crack initiation angles under various loading conditions. <i>Engineering Fracture Mechanics</i> , 2000, 67, 397-419.	2.0	112
8	A new smoothed particle hydrodynamics non-Newtonian model for friction stir welding: Process modeling and simulation of microstructure evolution in a magnesium alloy. <i>International Journal of Plasticity</i> , 2013, 48, 189-204.	4.1	102
9	Silicon morphology modification in the eutectic Al-Si alloy using mechanical mold vibration. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2005, 393, 109-117.	2.6	96
10	A new criterion for mixed mode fracture initiation based on the crack tip plastic core region. <i>International Journal of Plasticity</i> , 2004, 20, 55-84.	4.1	85
11	Analysis of Superplastic Deformation of AZ31 Magnesium Alloy. <i>Advanced Engineering Materials</i> , 2007, 9, 777-783.	1.6	79
12	Fabrication and antifouling behaviour of a carbon nanotube membrane. <i>Materials and Design</i> , 2016, 89, 549-558.	3.3	77
13	Thermo-mechanical and metallurgical aspects in friction stir processing of AZ31 Mg alloy: A numerical and experimental investigation. <i>Journal of Materials Processing Technology</i> , 2013, 213, 279-290.	3.1	72
14	Novel anti-microbial membrane for desalination pretreatment: A silver nanoparticle-doped carbon nanotube membrane. <i>Desalination</i> , 2015, 376, 82-93.	4.0	67
15	Constitutive modeling of superplastic deformation. Part I: Theory and experiments. <i>International Journal of Plasticity</i> , 1997, 13, 143-164.	4.1	51
16	Reducing flux decline and fouling of direct contact membrane distillation by utilizing thermal brine from MSF desalination plant. <i>Desalination</i> , 2016, 379, 172-181.	4.0	46
17	Finite Element Modeling and Optimization of Superplastic Forming Using Variable Strain Rate Approach. <i>Journal of Materials Engineering and Performance</i> , 2004, 13, 691-699.	1.2	43
18	Mechanical Characteristics of Superplastic Deformation of AZ31 Magnesium Alloy. <i>Journal of Materials Engineering and Performance</i> , 2007, 16, 192-199.	1.2	40

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19	Time series based analysis for primary chatter in metal cutting. Journal of Sound and Vibration, 1995, 180, 67-87.	2.1	38
20	Enhancement of osteoblast gene expression by mechanically compatible porous Si-rich nanocomposite. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2007, 81B, 387-396.	1.6	35
21	New approach to gas pressure profile prediction for high temperature AA5083 sheet forming. Journal of Materials Processing Technology, 2010, 210, 825-834.	3.1	33
22	Combined Mechanics-Materials Based Optimization of Superplastic Forming of Magnesium AZ31 Alloy. CIRP Annals - Manufacturing Technology, 2006, 55, 233-236.	1.7	30
23	An integrated approach to the Superplastic Forming of lightweight alloys: towards sustainable manufacturing. International Journal of Sustainable Manufacturing, 2008, 1, 18.	0.3	30
24	The effect of strain rate sensitivity evolution on deformation stability during superplastic forming. Journal of Materials Processing Technology, 2007, 191, 189-192.	3.1	29
25	Electrospun metallic nanowires: Synthesis, characterization, and applications. Journal of Applied Physics, 2013, 114, .	1.1	29
26	Experimental Thermal Analysis of Friction Stir Processing. Materials Science Forum, 2007, 539-543, 3801-3806.	0.3	28
27	Benzene Removal by Iron Oxide Nanoparticles Decorated Carbon Nanotubes. Journal of Nanomaterials, 2016, 2016, 1-10.	1.5	28
28	Simulation of High-Temperature AA5083 Bulge Forming with a Hardening/Softening Material Model. Journal of Materials Engineering and Performance, 2009, 18, 863-870.	1.2	26
29	On the gas pressure forming of aluminium foam sandwich panels: Experiments and numerical simulations. CIRP Annals - Manufacturing Technology, 2012, 61, 243-246.	1.7	26
30	A new combined experimentalâ€“numerical approach to evaluate formability of rate dependent materials. International Journal of Mechanical Sciences, 2013, 66, 55-66.	3.6	26
31	Limiting strains of sheet metals obtained by pneumatic stretching at elevated temperatures. CIRP Annals - Manufacturing Technology, 2008, 57, 275-278.	1.7	25
32	Engineering the Surface and Mechanical Properties of Water Desalination Membranes Using Ultralong Carbon Nanotubes. Membranes, 2018, 8, 106.	1.4	24
33	Characterization of a novel bioactive composite using advanced X-ray computed tomography. Composite Structures, 2005, 71, 423-428.	3.1	19
34	Optimum Forming Loading Paths for Pb-Sn Superplastic Sheet Materials. Journal of Engineering Materials and Technology, Transactions of the ASME, 1999, 121, 341-345.	0.8	18
35	Investigation of Post-Superplastic Forming Properties of AZ31 Magnesium Alloy. CIRP Annals - Manufacturing Technology, 2007, 56, 289-292.	1.7	18
36	Facile Synthesis of Copper Oxide Nanoparticles via Electrospinning. Journal of Nanomaterials, 2014, 2014, 1-7.	1.5	16

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37	A Review on the Modeling of the Elastic Modulus and Yield Stress of Polymers and Polymer Nanocomposites: Effect of Temperature, Loading Rate and Porosity. <i>Polymers</i> , 2022, 14, 360.	2.0	16
38	The anisotropic R-criterion for crack initiation. <i>Engineering Fracture Mechanics</i> , 2008, 75, 4257-4278.	2.0	15
39	Effect of straining graphene on nanopore creation using Si cluster bombardment: A reactive atomistic investigation. <i>Journal of Applied Physics</i> , 2016, 120, .	1.1	15
40	Analytical Modeling of Strain Rate Distribution During Friction Stir Processing. <i>Journal of Materials Engineering and Performance</i> , 2008, 17, 168-177.	1.2	14
41	Modeling of friction stir processing using 3D CFD analysis. <i>International Journal of Material Forming</i> , 2009, 2, 315.	0.9	13
42	Gas Pressure Profile Prediction from Variable Strain Rate Deformation Paths in AA5083 Bulge Forming. <i>Journal of Materials Engineering and Performance</i> , 2012, 21, 2263-2273.	1.2	13
43	Modeling the Effects of Coolant Application in Friction Stir Processing on Material Microstructure Using 3D CFD Analysis. <i>Journal of Materials Engineering and Performance</i> , 2012, 21, 1141-1150.	1.2	13
44	Predictive Modeling for Rooftop Solar Energy Throughput: A Machine Learning-Based Optimization for Building Energy Demand Scheduling. <i>Journal of Energy Resources Technology, Transactions of the ASME</i> , 2022, 144, .	1.4	13
45	Correlation between the Microstructure and Forces Generated during Friction Stir Processing of AA5052. <i>Materials Science Forum</i> , 2005, 475-479, 3043-3046.	0.3	12
46	A hybrid simulation approach for predicting energy flows in production lines. <i>International Journal of Sustainable Engineering</i> , 2016, 9, 25-34.	1.9	12
47	Modeling of Anisotropic Deformation in Superplastic Sheet Metal Stretching. <i>Journal of Engineering Materials and Technology, Transactions of the ASME</i> , 2005, 127, 159-164.	0.8	11
48	Superplastic Deformation of Magnesium Alloy AZ31 under Biaxial Loading Condition. <i>Materials Science Forum</i> , 2007, 551-552, 219-224.	0.3	9
49	The Effects of Stress State and Cavitation on Deformation Stability During Superplastic Forming. <i>Journal of Materials Engineering and Performance</i> , 2007, 16, 200-207.	1.2	9
50	Effects of Interfacial Friction Distribution on the Superplastic Forming of AA5083. <i>Journal of Engineering Materials and Technology, Transactions of the ASME</i> , 2011, 133, .	0.8	9
51	Theoretical and computational modeling of thermal properties of lightweight concrete. <i>Case Studies in Thermal Engineering</i> , 2021, 28, 101683.	2.8	9
52	On the failure characteristics of superplastic sheet materials subjected to gas pressure forming. <i>Scripta Materialia</i> , 2000, 42, 257-263.	2.6	8
53	On the High Temperature Testing of Superplastic Materials. <i>Journal of Materials Engineering and Performance</i> , 2007, 16, 142-149.	1.2	8
54	Experimental observations of induced anisotropy during the torsion of superplastic Pb–Sn eutectic alloy. <i>Scripta Metallurgica Et Materialia</i> , 1995, 32, 955-959.	1.0	7

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55	Constitutive Modeling of Deformation-Induced Anisotropy in Superplastic Materials. Materials Science Forum, 2004, 447-448, 165-170.	0.3	7
56	Finite Element Modeling of Superplastic Forming in the Presence of Back Pressure. Materials Science Forum, 2007, 551-552, 257-262.	0.3	7
57	Impact of Selective Grain Refinement on Superplastic Deformation: Finite Element Analysis. Journal of Materials Engineering and Performance, 2008, 17, 163-167.	1.2	7
58	Characterization of surface properties of thin film composite (TFC) membranes under various loading conditions. CIRP Annals - Manufacturing Technology, 2022, 71, 501-504.	1.7	7
59	Observation of transient effects in superplastic deformation of Pb-Sn eutectic alloy. Scripta Metallurgica Et Materialia, 1995, 32, 919-924.	1.0	6
60	External Corrosion Behavior of Steel/GFRP Composite Pipes in Harsh Conditions. Materials, 2021, 14, 6501.	1.3	6
61	Effects of microstructural evolution on the stability of superplastic deformation. , 2003, , 683-686.		5
62	Superplastic forming of AZ31 magnesium alloy with controlled microstructure. Materialwissenschaft Und Werkstofftechnik, 2012, 43, 810-816.	0.5	5
63	Simulation of Friction Stir Processing with Internally Cooled Tool. Advanced Materials Research, 0, 445, 560-565.	0.3	5
64	An Investigation of Yield Potentials In Superplastic Deformation. Journal of Engineering Materials and Technology, Transactions of the ASME, 2000, 122, 93-97.	0.8	4
65	Multi-Scale Analysis of Failure during Superplastic Deformation. Materials Science Forum, 2004, 447-448, 105-110.	0.3	3
66	Effect of State of Stress on the Cavitation Behavior of Al 5083 Superplastic Material. Materials Science Forum, 2005, 475-479, 2931-2936.	0.3	3
67	Post-Superplastic Forming Analysis Under Different Loading Paths. Part One: Uniaxial Loading Case. Journal of Materials Engineering and Performance, 2008, 17, 153-162.	1.2	3
68	Towards the Development of Novel Hybrid Composite Steel Pipes: Electrochemical Evaluation of Fiber-Reinforced Polymer Layered Steel against Corrosion. Polymers, 2021, 13, 3805.	2.0	3
69	Maximum Stress Triaxiality Ratio Criterion for Mixed Mode Crack Initiation in Anisotropic Materials. International Journal of Fracture, 2000, 104, 11-16.	1.1	2
70	Predicting Mixed Mode Crack Initiation Angles in Anisotropic Materials Using the Shape of the Crack Tip Core Region. , 2002, , 105.		1
71	On The Stability of Superplastic Deformation Using Nonlinear Wavelength Analysis. Key Engineering Materials, 2007, 344, 47-54.	0.4	1
72	Superplastic Forming Response of a Friction Stir Processed Mg Alloy Sheet – A Numerical Approach. Materials Science Forum, 2012, 735, 192-197.	0.3	1

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73	Anisotropy and Transient Effects in Superplastic Deformation. Materials Science Forum, 1994, 170-172, 583-588.	0.3	0
74	Mechanical Behavior of a Novel Nanocomposite Polysulphone “ Carbon Nanotubes Membrane for Water Treatment. , 2016, , .		0