

# Zhenghua Meng

## List of Publications by Year in descending order

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25  
papers

459  
citations

840776

11  
h-index

713466

21  
g-index

25  
all docs

25  
docs citations

25  
times ranked

330  
citing authors

#	ARTICLE	IF	CITATIONS
1	Comparison of Johnson-Cook and Cowper-Symonds models for aluminum alloy sheet by inverse identification based on electromagnetic bulge. <i>International Journal of Material Forming</i> , 2022, 15, 1.	2.0	3
2	Cellular structure and mechanical strength of straw fiber/polypropylene plastics under chemical foam molding. <i>Journal of the Textile Institute</i> , 2021, 112, 109-116.	1.9	7
3	A novel cellulose membrane from cattail fibers as separator for Li-ion batteries. <i>Cellulose</i> , 2021, 28, 9309-9321.	4.9	14
4	The effects of die counter-impact on aluminum alloy sheet during electromagnetic forming. <i>International Journal of Advanced Manufacturing Technology</i> , 2021, 116, 3593-3601.	3.0	3
5	Thermal Homeostasis Enabled by Dynamically Regulating the Passive Radiative Cooling and Solar Heating Based on a Thermochromic Hydrogel. <i>ACS Photonics</i> , 2021, 8, 2781-2790.	6.6	48
6	Interface formation and interlayer factors of three-dissimilar-metal layers joint in impact welding. <i>Journal of Manufacturing Processes</i> , 2021, 70, 414-426.	5.9	3
7	Effect of film types on thermal response, cellular structure, forming defects and mechanical properties of combined in-mold decoration and microcellular injection molding parts. <i>Journal of Materials Science and Technology</i> , 2021, 92, 98-108.	10.7	9
8	TEMPO-oxidized bacterial cellulose nanofiber membranes as high-performance separators for lithium-ion batteries. <i>Carbohydrate Polymers</i> , 2020, 230, 115570.	10.2	79
9	Deformation behaviour and damage evolution of aluminium alloy sheet in electromagnetic forming with uniform pressure actuator. <i>International Journal of Advanced Manufacturing Technology</i> , 2020, 109, 745-754.	3.0	4
10	Electromagnetic forming of aluminum alloy strip by imposing inverse current instead of inducing eddy current. <i>International Journal of Advanced Manufacturing Technology</i> , 2020, 111, 3481-3488.	3.0	6
11	Numerical simulation of the joining interface of dissimilar metals in vaporizing foil actuator welding: Forming mechanism and factors. <i>Journal of Manufacturing Processes</i> , 2020, 60, 654-665.	5.9	7
12	High-performance yarn supercapacitor based on directly twisted carbon nanotube@bacterial cellulose membrane. <i>Cellulose</i> , 2020, 27, 7649-7661.	4.9	23
13	Investigation on Foamed PP/Nano-CaCO <sub>3</sub> Composites in a Combined in-Mold Decoration and Microcellular Injection Molding Process. <i>Polymers</i> , 2020, 12, 363.	4.5	14
14	Investigation on forming defects and crystallization of plastic parts in combined in-mold decoration and microcellular injection molding based on a multiphase flow-solid coupled heat transfer model. <i>International Journal of Heat and Mass Transfer</i> , 2020, 151, 119285.	4.8	13
15	A hybrid back-propagation neural network and intelligent algorithm combined algorithm for optimizing microcellular foaming injection molding process parameters. <i>Journal of Manufacturing Processes</i> , 2020, 50, 528-538.	5.9	25
16	A 24-hour thermoelectric generator simultaneous using solar heat energy and space cold energy. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2020, 251, 107038.	2.3	11
17	Easy Way to Achieve Self-Adaptive Cooling of Passive Radiative Materials. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 27241-27248.	8.0	46
18	Effect of POE on mechanical properties and cellular structure of PP/Nano-CaCO <sub>3</sub> composites in IMD/MIM process. <i>Materials Research Express</i> , 2020, 7, 095308.	1.6	7

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19	Mechanism of Bubble Formation in a Combined In-Mold Decoration and Microcellular Foaming Injection Molding Process. <i>Fibers and Polymers</i> , 2019, 20, 1526-1537.	2.1	14
20	Thermoelectric Generator Using Space Cold Source. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 33941-33945.	8.0	45
21	Joining Performance and Microstructure of the 2024/7075 Aluminium Alloys Welded Joints by Vaporizing Foil Actuator Welding. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2019, 34, 368-372.	1.0	7
22	A Combined In-Mold Decoration and Microcellular Injection Molding Method for Preparing Foamed Products with Improved Surface Appearance. <i>Polymers</i> , 2019, 11, 778.	4.5	27
23	Effects of biaxial tensile on the deformation behavior of DP590 high-strength steel sheet under high strain rate. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2017, 32, 1441-1445.	1.0	6
24	Mechanism Study of Ultrasonic-Vibration-Assisted Underfill Process for Flip-Chip Encapsulation. <i>IEEE Transactions on Components, Packaging and Manufacturing Technology</i> , 2016, 6, 1711-1722.	2.5	1
25	Effects of process parameters on warm and electromagnetic hybrid forming of magnesium alloy sheets. <i>Journal of Materials Processing Technology</i> , 2011, 211, 863-867.	6.3	37