Omer El Fakir

List of Publications by Year
in descending order

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28 papers	552 citations	759233 12 h-index	642732 23 g-index
29 all docs	29 docs citations	29 times ranked	336 citing authors

#	Article	IF	Citations
1	Numerical study of the solution heat treatment, forming, and in-die quenching (HFQ) process on AA5754. International Journal of Machine Tools and Manufacture, 2014, 87, 39-48.	13.4	155
2	Springback analysis of AA5754 after hot stamping: experiments and FE modelling. International Journal of Advanced Manufacturing Technology, 2017, 89, 1339-1352.	3.0	49
3	Determination of the interfacial heat transfer coefficient for a hot aluminium stamping process. Journal of Materials Processing Technology, 2017, 247, 158-170.	6.3	47
4	Life cycle assessment of the potential environmental benefits of a novel hot forming process in automotive manufacturing. Journal of Cleaner Production, 2014, 83, 80-86.	9.3	46
5	Review on additive manufacturing of tooling for hot stamping. International Journal of Advanced Manufacturing Technology, 2020, 109, 87-107.	3.0	37
6	Forming limit prediction for hot stamping processes featuring non-isothermal and complex loading conditions. International Journal of Mechanical Sciences, 2017, 131-132, 792-810.	6.7	29
7	Determination of Heat Transfer Coefficient for Hot Stamping Process. Materials Today: Proceedings, 2015, 2, S434-S439.	1.8	19
8	Multi-objective finite element simulations of a sheet metal-forming process via a cloud-based platform. International Journal of Advanced Manufacturing Technology, 2019, 100, 2753-2765.	3.0	19
9	Effect of melt conditioning on heat treatment and mechanical properties of AZ31 alloy strips produced by twin roll casting. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2015, 620, 223-232.	5.6	18
10	Characterisation of the interfacial heat transfer coefficient in hot stamping of titanium alloys. International Communications in Heat and Mass Transfer, 2020, 113, 104535.	5.6	18
11	Predicting Effect of Temperature, Strain Rate and Strain Path Changes on Forming Limit of Lightweight Sheet Metal Alloys. Procedia Engineering, 2014, 81, 736-741.	1.2	17
12	Effects of lubricant on the IHTC during the hot stamping of AA6082 aluminium alloy: Experimental and modelling studies. Journal of Materials Processing Technology, 2018, 255, 175-183.	6.3	16
13	Effect of tool coatings on the interfacial heat transfer coefficient in hot stamping of aluminium alloys under variable contact pressure conditions. International Journal of Heat and Mass Transfer, 2019, 137, 74-83.	4.8	13
14	Hot stamping of AA6082 tailor welded blanks: experiment and FE simulation. Manufacturing Review, 2016, 3, 8.	1.5	9
15	Development of an interfacial heat transfer coefficient model for the hot and warm aluminium stamping processes under different initial blank temperature conditions. Journal of Materials Processing Technology, 2019, 273, 116245.	6.3	9
16	Influence of intensive melt shearing on subsequent hot rolling and the mechanical properties of twin roll cast AZ31 strips. Materials Letters, 2015, 144, 54-57.	2.6	8
17	Determination of the interfacial heat transfer coefficient in the hot stamping of AA7075. MATEC Web of Conferences, 2015, 21, 05003.	0.2	7
18	Melt Conditioned Twin Roll Casting (MC-TRC) of Thin Mg-Alloy Strips for Direct Stamping of Mg Components. Materials Science Forum, 2013, 765, 170-174.	0.3	6

#	Article	IF	Citations
19	Knowledge Based Cloud FE Simulation of Sheet Metal Forming Processes. Journal of Visualized Experiments, 2016, , .	0.3	6
20	Numerical Investigation on the Hot Forming and Cold-Die Quenching of an Aluminium-Magnesium Alloy into a Complex Component. Materials Science Forum, 2013, 765, 368-372.	0.3	5
21	Knowledge Based Cloud FE simulation - data-driven material characterization guidelines for the hot stamping of aluminium alloys. Journal of Physics: Conference Series, 2016, 734, 032042.	0.4	5
22	Solution Heat Treatment, Forming and In-Die Quenching of a Commercial Sheet Magnesium Alloy into a Complex-Shaped Component: Experimentation and FE Simulation. Key Engineering Materials, 0, 622-623, 596-602.	0.4	4
23	Determination of the Interfacial Heat Transfer Coefficient in the Hot Stamping of AA7075. Manufacturing Review, 2016, 3, 16.	1.5	4
24	Determination of the interfacial heat transfer coefficient between AA7075 and different forming tools in hot stamping processes. Procedia Engineering, 2017, 207, 717-722.	1.2	2
25	A general IHTC model for hot/warm aluminium stamping. Applied Thermal Engineering, 2020, 181, 115619.	6.0	2
26	Studies on the Hot Forming and Cold-Die Quenching of AA6082 Tailor Welded Blanks. Key Engineering Materials, 0, 716, 941-947.	0.4	1
27	Characterization of the interfacial heat transfer coefficient for hot stamping processes. Journal of Physics: Conference Series, 2016, 734, 032079.	0.4	1
28	Characterisation of the contact pressure dependent interfacial heat transfer coefficient for a hot stamping process following a data driven approach. MATEC Web of Conferences, 2018, 190, 08005.	0.2	0