

Dharmendra Chhalasani

List of Publications by Year in descending order

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papers

573
citations

687220

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36
all docs

36
docs citations

36
times ranked

544
citing authors

#	ARTICLE	IF	CITATIONS
1	Study on laser weldingâ€”brazing of zinc coated steel to aluminum alloy with a zinc based filler. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011, 528, 1497-1503.	2.6	192
2	Wire-arc additive manufacturing of nickel aluminum bronze/stainless steel hybrid parts â€” Interfacial characterization, prospects, and problems. <i>Materialia</i> , 2020, 13, 100834.	1.3	55
3	Microstructural evolution and mechanical behavior of nickel aluminum bronze Cu-9Al-4Fe-4Ni-1Mn fabricated through wire-arc additive manufacturing. <i>Additive Manufacturing</i> , 2019, 30, 100872.	1.7	42
4	Deformation mechanisms and fracture of electron beam melted Tiâ€”6Alâ€”4V. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020, 771, 138652.	2.6	27
5	Compressive strength and hot deformation behavior of TX32 magnesium alloy with 0.4% Al and 0.4% Si additions. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011, 528, 6964-6970.	2.6	26
6	Atom probe tomography study of Î²-phases in additively manufactured nickel aluminum bronze in as-built and heat-treated conditions. <i>Materials and Design</i> , 2021, 202, 109541.	3.3	26
7	Hot workability analysis with processing map and texture characteristics of as-cast TX32 magnesium alloy. <i>Journal of Materials Science</i> , 2013, 48, 5236-5246.	1.7	25
8	Hot working mechanisms and texture development in Mg-3Sn-2Ca-0.4Al alloy. <i>Materials Chemistry and Physics</i> , 2012, 136, 1081-1091.	2.0	22
9	Review on Hot Working Behavior and Strength of Calciumâ€”Containing Magnesium Alloys. <i>Advanced Engineering Materials</i> , 2018, 20, 1701102.	1.6	18
10	Effect of silicon content on hot working, processing maps, and microstructural evolution of cast TX32â€”0.4Al magnesium alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014, 606, 11-23.	2.6	16
11	Wire-arc additive manufactured nickel aluminum bronze with enhanced mechanical properties using heat treatments cycles. <i>Additive Manufacturing</i> , 2020, 36, 101510.	1.7	15
12	Processing Map of AZ31-1Ca-1.5 vol.% Nano-Alumina Composite for Hot Working. <i>Materials and Manufacturing Processes</i> , 2015, 30, 1161-1167.	2.7	13
13	Role of loading direction on compressive deformation behavior of extruded ZK60 alloy plate in a wide range of temperature. <i>Journal of Alloys and Compounds</i> , 2018, 744, 289-300.	2.8	13
14	Corrosion Behaviour of Electron Beam Melted Ti6Al4V: Effects of Microstructural Variation. <i>Journal of the Electrochemical Society</i> , 2020, 167, 131505.	1.3	11
15	Hot Deformation Behavior and Processing Map of Mg-3Sn-2Ca-0.4Al-0.4Zn Alloy. <i>Metals</i> , 2018, 8, 216.	1.0	9
16	High Temperature Strength and Hot Working Technology for As-Cast Mgâ€”1Znâ€”1Ca (ZX11) Alloy. <i>Metals</i> , 2017, 7, 405.	1.0	8
17	High Temperature Deformation and Microstructural Features of TXA321 Magnesium Alloy: Correlations with Processing Map. <i>Advanced Engineering Materials</i> , 2013, 15, 761-766.	1.6	7
18	Effect of aluminum on microstructural evolution during hot deformation of TX32 magnesium alloy. <i>Journal of Materials Science</i> , 2014, 49, 5885-5898.	1.7	7

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19	Comparative study of microstructure and texture of cast and homogenized TX32 magnesium alloy after hot deformation. <i>Metals and Materials International</i> , 2015, 21, 134-146.	1.8	7
20	Workability Characteristics and Deformation Mechanisms of Die-Cast AM60 and AZ91 Magnesium Alloys: Correlation with Processing Maps. <i>Journal of Materials Engineering and Performance</i> , 2019, 28, 123-139.	1.2	7
21	Characterization of Mg -precipitates in wire-arc additive manufactured nickel aluminum bronze: A combined transmission Kikuchi diffraction and atom probe tomography study. <i>Additive Manufacturing</i> , 2021, 46, 102137.	1.7	6
22	Optimization of Thermo-Mechanical Processing for Forging of Newly Developed Creep-Resistant Magnesium Alloy ABaX633. <i>Metals</i> , 2017, 7, 513.	1.0	4
23	Metallurgical Assessment of Additive Manufactured Nickel Aluminum Bronze-316L Stainless Steel Bimetallic Structure: Effect of Deposit Geometry on the Interfacial Characteristics and Cracking. <i>Journal of Materials Engineering and Performance</i> , 2021, 30, 8746-8762.	1.2	4
24	Effect of Calcium on the Hot Working Behavior of AZ31-1.5 vol.% Nano-Alumina Composite Prepared by Disintegrated Melt Deposition (DMD) Processing. <i>Metals</i> , 2018, 8, 699.	1.0	3
25	Connected Process Design for Hot Working of a Creep-Resistant Mg-4Al-2Ba-2Ca Alloy (ABaX422). <i>Metals</i> , 2018, 8, 463.	1.0	3
26	Development of a laboratory-scale Upset Protrusion Joining (UPJ) system for dissimilar materials. <i>International Journal of Advanced Manufacturing Technology</i> , 2021, 113, 2725-2738.	1.5	3
27	Hot Forging Behavior of Mg-8Al-4Ba-4Ca (ABaX844) Alloy and Validation of Processing Map. <i>Minerals, Metals and Materials Series</i> , 2018, , 289-296.	0.3	2
28	Deformation Mechanisms and Formability Window for As-Cast $\text{Mg-6Al-2Ca-1Sn-0.3Sr}$ Alloy (MRI 230D). <i>Journal of Materials Engineering and Performance</i> , 2018, 27, 1440-1449.	1.2	1
29	Texture Evolution and Anisotropy of Plastic Flow in Hot Compression of Extruded ZK60-T5 Magnesium Alloy Plate. <i>Metals</i> , 2019, 9, 1170.	1.0	0
30	Texture evolution during hot deformation processing of Mg-3Sn-2Ca-0.4Al Alloy. , 2012, , 295-300.		0
31	Textural Changes in Hot Compression of Disintegrated Melt Deposition (DMD)-Processed AZ31-1Ca-1.5 vol. % Nano-Alumina Composite. <i>Materials Performance and Characterization</i> , 2019, 8, 766-781.	0.2	0
32	Evaluating the Characteristics of Cast AZ91 Magnesium Alloy for Upset Protrusion Joining Method. <i>Journal of Materials Engineering and Performance</i> , 0, , 1.	1.2	0
33	Upset Protrusion Joining (UPJ) characteristics of cast AM60 magnesium alloy to join with dissimilar material. <i>International Journal of Advanced Manufacturing Technology</i> , 2022, 120, 329-348.	1.5	0