V Anil Kumar

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/187282/publications.pdf

Version: 2024-02-01

65	620	759233 12	713466 21
papers	citations	h-index	g-index

65	65	65	457
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Microstructural and Mechanical Characterization of 1.6-mm-Thick Nimonic-75 Superalloy Welds. Materials Performance and Characterization, 2022, 11, 200-209.	0.3	0
2	On the anisotropy in room-temperature mechanical properties of laser powder bed fusion processed Ti6Al4V-ELI alloy for aerospace applications. Journal of Materials Science, 2022, 57, 9599-9618.	3.7	6
3	Influence of Retrogression and Reaging Treatment on Intergranular Corrosion Resistance and Exfoliation Corrosion Resistance in AA7010 Aluminum Alloy. Materials Performance and Characterization, 2021, 10, 1-10.	0.3	0
4	Processing and Characterization of 3D-Printed Inconel-718 Component through Laser Powder Bed Fusion Route for High-Temperature Space Application. , 2021, 6, 133-146.		2
5	Microstructure Evolution during Hot Working of Nb-10Hf-1Ti Refractory Alloy. , 2021, 6, 111-121.		4
6	Hot deformation characteristics and microstructure evolution of Tiâ€“5Alâ€“3Moâ€“1.5V alloy. International Journal of Advances in Engineering Sciences and Applied Mathematics, 2021, 13, 49-62.	1.1	3
7	Microstructure Evolution during High-Temperature Deformation of Ti-5Al-5V-2Mo-1Cr-1Fe Alloy under Compression. Journal of Materials Engineering and Performance, 2021, 30, 3258-3272.	2.5	6
8	Effect of Retrogression and Re-Aging on Tensile Mechanical Properties in Transverse Direction of Extruded Rods from Aluminum Alloy AA7049. Metal Science and Heat Treatment, 2021, 63, 42-46.	0.6	1
9	Differential Heat Treatment Response of Cast plus Homogenized and Forged Billets of Aluminum Alloy AA7075. Journal of Materials Engineering and Performance, 2021, 30, 7863-7870.	2.5	0
10	High Temperature Tensile Deformation Response of Î³â€‰+â€‰Î±2 Titanium Aluminide Processed through Ingot Metallurgy Route. Transactions of the Indian Institute of Metals, 2021, 74, 2081-2092.	1.5	1
11	Effect of Pre- and Post Weld Heat Treatment on Microstructure Development and Mechanical Properties of 0.3%C-CrMoV (ESR) High-Strength Low-Alloy Steel. Journal of Materials Engineering and Performance, 2021, 30, 7835-7850.	2.5	2
12	Influence of heat treatment on the microstructure evolution and elevated temperature mechanical properties of Hastelloy-X processed by laser directed energy deposition. Journal of Alloys and Compounds, 2021, 868, 159207.	5.5	13
13	Tailoring the Microstructure and Mechanical Properties of Titanium Alloy Ti6Al4V Forgings with Different Combinations of Thermo-Mechanical Processing and Heat Treatment Cycles. , 2021, 6, 839-855.		4
14	Hot Deformation Studies on Î²0 Stabilized TiAl Alloy Made Through Ingot Metallurgy Route. Transactions of the Indian Institute of Metals, 2021, 74, 2977-2989.	1.5	2
15	Recent advances in processing of titanium alloys and titanium aluminides for space applications: A review. Journal of Materials Research, 2021, 36, 689-716.	2.6	49
16	Investigation on effect of optimized RRA in strength and SCC resistance for aluminium alloy AA7010. Materials Today: Proceedings, 2020, 27, 2385-2389.	1.8	8
17	Characterization and Qualification of LPBF Additively Manufactured AISI-316L Stainless Steel Brackets for Aerospace Application. , 2020, 5, 603-616.		25
18	Effect of boron on microstructure evolution and hot tensile deformation behavior of Ti-5Al-5V-5Mo-1Cr-1Fe alloy. Journal of Alloys and Compounds, 2020, 831, 154672.	5.5	16

#	Article	IF	Citations
19	Hot deformation behavior of Hastelloy-X preforms built using directed energy deposition based laser additive manufacturing. Materials Letters, 2020, 270, 127737.	2.6	9
20	Simulation and Experimental Validation of EBW Studies in Austenitic Stainless Steel AISI-321. , 2020, 5, 581-592.		3
21	Hot Deformation Behavior of Aluminum Alloys AA7010 and AA7075. Journal of Materials Engineering and Performance, 2019, 28, 5021-5036.	2.5	23
22	Role of microstructure on the tension/compression asymmetry in a two-phase Ti-5Al-3Mo-1.5V titanium alloy. Journal of Alloys and Compounds, 2019, 795, 151-162.	5.5	19
23	Evolution of microstructure in niobium rich (<mml:math) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 597 Td (xmlns:mml="http://www based titanium aluminide alloy during hot compression. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2019, 754, 709-718.	5.6	17
24	Effect of Test Temperature on Tensile Behavior of Ti-5Al-5V-2Mo-1Cr-1Fe (Î±+Î²) Titanium Alloy with Initial Microstructures in Hot Forged and Heat Treated Conditions. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2019, 50, 2702-2719.	2.2	10
25	Optimization of Heat Treatment Cycles and Characterization of Aluminum Alloy AA7010. Journal of Materials Engineering and Performance, 2019, 28, 776-787.	2.5	5
26	Effect of Strain Rate and Temperature on the Tensile Flow Behavior and Microstructure Evolution in Fe-0.3 Pct C-CrMoV Grade Steel. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2019, 50, 161-178.	2.2	8
27	Melting and Thermomechanical Processing of High Strength 0.3%Câ€“CrMoV (ESR) Steel. Transactions of the Indian Institute of Metals, 2018, 71, 1475-1485.	1.5	4
28	Mechanical Behavior of Commercially Pure Titanium Weldments at Lower Temperatures. Journal of Materials Engineering and Performance, 2018, 27, 2192-2204.	2.5	9
29	Tensile Behavior of Electron Beam-Welded and Post-Weld Vacuum-Annealed Nb-10% Hf-1% Ti Refractory Alloy Weldments. Journal of Materials Engineering and Performance, 2018, 27, 353-360.	2.5	2
30	Effect of Prior Thermomechanical Treatment on Annealed Microstructure and Microhardness in Cobalt-Based Superalloy Co-20Cr-15W-10Ni. High Temperature Materials and Processes, 2018, 37, 333-339.	1.4	1
31	Reactive and liquid-phase sintering techniques. , 2018, , 303-318.		9
32	Investigation on mechanical properties and microstructure of Ti-5Al-5V-5Mo-1Cr-1Fe Titanium alloy butt welded EBW joints. Materials Today: Proceedings, 2018, 5, 28061-28070.	1.8	1
33	High-Temperature Tensile Behaviors of Base Metal and Electron Beam-Welded Joints of Ni-20Cr-9Mo-4Nb Superalloy. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2018, 49, 2654-2672.	2.2	3
34	Effect of Heat Treatment and Combination of Cold Rolling and Heat Treatment on Microstructure and Mechanical Properties of Titanium Alloy Ti6Al2V2Zr1.5Mo. Journal of Materials Engineering and Performance, 2018, 27, 4405-4422.	2.5	3
35	Development of Large-Sized Titanium Alloy Ti6Al4V and Nickel-Based Superalloy Inconel-718 Forgings for Reusable Launch Vehicle-Technology Demonstrator Flight. Current Science, 2018, 114, 131.	0.8	3
36	Plasma Arc Welding of High Strength 0.3Â% Câ€“CrMoV (ESR) Steel. Transactions of the Indian Institute of Metals, 2017, 70, 1317-1322.	1.5	7

#	Article	IF	Citations
37	Studies on Similar and Dissimilar Metal EBW Joints of Fe-31Ni-5Co and Co-20Cr-15W-10Ni Alloys. Journal of Materials Engineering and Performance, 2017, 26, 2963-2973.	2.5	1
38	Development of ductile Î³+Î±2 titanium aluminide through ingot metallurgy route, thermomechanical processing and characterization. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2017, 703, 124-136.	5.6	12
39	Effect of Heat Treatment Parameters on the Microstructure and Properties of Inconel-625 Superalloy. Journal of Materials Engineering and Performance, 2017, 26, 3048-3057.	2.5	29
40	Evaluation of High Temperature Properties and Microstructural Characterization of Resistance Spot Welded Steel Lap Shear Joints. High Temperature Materials and Processes, 2016, 35, 145-151.	1.4	1
41	Hot workability and microstructure control in Co20Cr15W10Ni cobalt-based superalloy. Journal of Alloys and Compounds, 2016, 676, 527-541.	5.5	38
42	Effect of Variants of Thermomechanical Working and Annealing Treatment on Titanium Alloy Ti6Al4V Closed Die Forgings. Journal of Materials Engineering and Performance, 2016, 25, 2551-2562.	2.5	7
43	Effect of Prior and Post-Weld Heat Treatment on Electron Beam Weldments of (Î±Â+ÂÎ²) Titanium alloy Ti-5Al-3Mo-1.5V. Journal of Materials Engineering and Performance, 2016, 25, 2147-2156.	2.5	12
44	Strain hardening of Titanium alloy Ti6Al4V sheets with prior heat treatment and cold working. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2016, 662, 537-550.	5.6	72
45	Study on Variants of Solution Treatment and Aging Cycle of Titanium Alloy Ti6Al4V. Journal of Materials Engineering and Performance, 2016, 25, 1492-1501.	2.5	21
46	Melting and Microstructure Analysis of Î²-Ti Alloy Tiâ€“5Alâ€“5Moâ€“5Vâ€“1Crâ€“1Fe With and Without Boron. Transactions of the Indian Institute of Metals, 2015, 68, 207-215.	1.5	7
47	Effect of Cooling Medium on Solution Treatment Response of Titanium Alloy Ti-5Al-5V-2Mo. Materials Science Forum, 2015, 830-831, 123-126.	0.3	2
48	Solution Treatment and Aging (STA) Study of Ti Alloy Ti5Al3Mo1.5V. Journal of Materials Engineering and Performance, 2015, 24, 24-31.	2.5	7
49	Development of Titanium Alloy Hemispherical Forging for Pressure Vessel of Launch Vehicle. Materials Science Forum, 2015, 830-831, 3-6.	0.3	3
50	Study of Aluminum Alloy AA2219 After Heat Treatment. Metal Science and Heat Treatment, 2015, 57, 350-353.	0.6	15
51	Processing and Characterization of Superinvar for Space Application. Materials Science Forum, 2015, 830-831, 30-33.	0.3	2
52	Solution Treatment and Aging of Thick Rings from Titanium Alloy TI6AL4V. Metal Science and Heat Treatment, 2015, 57, 169-174.	0.6	8
53	Development and Characterization of 15Cr-5Ni-1W Martensitic Precipitation Hardening Stainless Steel for Aerospace Applications. Materials Science Forum, 2015, 830-831, 15-18.	0.3	2
54	Development of High Nitrogen Stainless Steel for Cryogenic Applications. Materials Science Forum, 2015, 830-831, 23-26.	0.3	5

#	Article	IF	Citations
55	Multi-stage heat treatment of aluminum alloy AA7049. Transactions of Nonferrous Metals Society of China, 2013, 23, 1570-1575.	4.2	45
56	Development of Hardening and Tempering Cycle for High Strength Low Alloy Fastener Grade Steel. Materials Science Forum, 2012, 710, 506-510.	0.3	0
57	Aging Behavior in 15-5 PH Precipitation Hardening Martensitic Stainless Steel. Materials Science Forum, 2012, 710, 483-488.	0.3	13
58	Investigation of Cracks Generated in Columbium Alloy (C-103) Sheets During Deep Drawing Operation. Journal of Failure Analysis and Prevention, 2010, 10, 228-232.	0.9	9
59	Equal Channel Angular Pressing of Al Alloy AA2219. Advanced Materials Research, 2009, 67, 53-58.	0.3	1
60	Investigation of Cracks Generated During Flow Forming of Nbâ€“Hfâ€“Ti Alloy Sheet. Journal of Failure Analysis and Prevention, 2007, 7, 424-428.	0.9	8
61	Electron Beam Welding Studies on Nb-Hf-Ti Refractory Alloy. Materials Science Forum, 0, 710, 608-613.	0.3	7
62	Age Hardening Behavior in Al-8Zn-2Mg-2Cu Wrought Aluminum Alloy. Materials Science Forum, 0, 710, 527-532.	0.3	1
63	Manufacturing of Inconel 718 Based Honeycomb Panels for Metallic Thermal Protection Systems. Materials Science Forum, 0, 710, 197-202.	0.3	2
64	Processing and Characterization of Inconel 625 Nickel Base Superalloy. Materials Science Forum, 0, 830-831, 38-40.	0.3	9
65	Characterization of Titanium Alloy Ti6Al4V-ELI Components made by Laser Powder Bed Fusion Route for Space Applications. , 0, , 1.		3