Guney Guven Yapici

List of Publications by Year
in descending order

48 papers	810 citations	623188 14 h-index	525886 27 g-index
48 all docs	48 docs citations	48 times ranked	676 citing authors

#	Article	IF	Citations
1	Advanced Surface Enhancement of a High Strength Aluminum Alloy Through Friction Stir Processing. Lecture Notes in Mechanical Engineering, 2022, , 8-12.	0.3	1
2	Graphene as a Piezoresistive Material in Strain Sensing Applications. Micromachines, 2022, 13, 119.	1.4	22
3	On the development of a novel multi-phase highÂentropy alloy with transformation-induced plasticity effect. Journal of Alloys and Compounds, 2022, 905, 164014.	2.8	13
4	On the Friction Stir Processing of Additiveâ€Manufactured 316L Stainless Steel. Advanced Engineering Materials, 2022, 24, .	1.6	6
5	Effects of interlayer on the friction stir spot welding of stainless steel. Materials Today: Proceedings, 2022, 62, 4291-4294.	0.9	1
6	Hardness and wear resistance of roller burnished 316L stainless steel. Materials Today: Proceedings, 2021, 47, 2405-2409.	0.9	10
7	On the fatigue and fracture behavior of keyhole-free friction stir spot welded joints in an aluminum alloy. Journal of Materials Research and Technology, 2021, 11, 40-49.	2.6	12
8	PVA/gelatin-based hydrogel coating of nickel-titanium alloy for improved tissue-implant interface. Applied Physics A: Materials Science and Processing, 2021, 127, 1.	1.1	7
9	Design and development of a durable series elastic actuator with an optimized spring topology. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2021, 235, 7848-7858.	1.1	13
10	Effect of layer architecture on the mechanical behavior of accumulative roll bonded interstitial free steel/aluminum composites. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2021, 818, 141387.	2.6	12
11	Low-Cycle Fatigue Behavior of Friction Stir-Welded Copper Joints. Journal of Materials Engineering and Performance, 2021, 30, 8643-8651.	1.2	2
12	Application of Novel Constrained Groove Pressing Routes on Austenitic Stainless Steel. Transactions of the Indian Institute of Metals, 2021, 74, 2599-2608.	0.7	3
13	Severe plastic deformation as a processing tool for strengthening of additive manufactured alloys. Journal of Manufacturing Processes, 2021, 68, 788-795.	2.8	29
14	An In-Silico Corrosion Model for Biomedical Applications for Coupling With In-Vitro Biocompatibility Tests for Estimation of Long-Term Effects. Frontiers in Bioengineering and Biotechnology, 2021, 9, 718026.	2.0	7
15	Effect of Stress Aging Induced Precipitates on Corrosion Behavior of NiTi Shape Memory Alloys. Metals and Materials International, 2021, 27, 3968-3974.	1.8	6
16	Effect of aging on the mechanical behavior of aluminum-steel composites processed by accumulative roll bonding. Materials Today: Proceedings, 2021, 47, 2401-2404.	0.9	0
17	On the High-Temperature Flow Response of Friction Stir Processed Magnesium Metal Matrix Composites. Journal of Engineering Materials and Technology, Transactions of the ASME, 2021, 143, .	0.8	7
18	Fatigue characteristics of continuous welded rails and the effect of residual stress on fatigue-ratchetting interaction. Mechanics of Advanced Materials and Structures, 2020, 27, 473-480.	1.5	10

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19	Simultaneous improvement in strength and ductility of severely deformed niobium alloy. Materials Letters, 2020, 279, 128443.	1.3	10
20	Evaluation of NaOH pre-treatment on the corrosion behavior and surface characteristics of hydroxyapatite coated NiTi alloy. Applied Physics A: Materials Science and Processing, 2020, 126, 1.	1.1	1
21	Influence of Heat Treatment Parameters on the Functional Behavior and Corrosion Performance of a Shape Memory Wire Actuator. Materials Science Forum, 2020, 986, 55-60.	0.3	2
22	Fracture Behavior of Ultrafine-Grained Titanium Under Tension at Elevated Temperatures. Journal of Engineering Materials and Technology, Transactions of the ASME, 2020, 142, .	0.8	4
23	Effect of External Stress on the POST-Aging MECHANICAL Properties of Rolled Magnesium Alloys. , 2020, , .		1
24	On the mechanical behavior of accumulative roll bonded lightweight composite. Materials Research Express, 2019, 6, 096581.	0.8	10
25	Effect of heat treatment on the corrosion-fatigue of NiTi shape memory alloy. AIP Conference Proceedings, 2019, , .	0.3	2
26	Influence of warm rolling and aging on the microstructural evolution and mechanical behavior of AZ31 magnesium alloy. AIP Conference Proceedings, 2019, , .	0.3	0
27	Effect of processing parameters on the strength of keyhole free friction stir spot aluminum welds. AIP Conference Proceedings, 2019, , .	0.3	2
28	Optimization of the intermediate layer friction stir spot welding process. International Journal of Advanced Manufacturing Technology, 2019, 104, 993-1004.	1.5	15
29	Effect of severe plastic deformation on the damping behavior of titanium. Materials Letters, 2019, 244, 100-103.	1.3	21
30	Application of a novel friction stir spot welding process on dissimilar aluminum joints. Journal of Manufacturing Processes, 2018, 35, 282-288.	2.8	30
31	High temperature characteristics of Al2024/SiC metal matrix composite fabricated by friction stir processing. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2018, 731, 487-494.	2.6	41
32	Effect of Purity Levels on the High-Temperature Deformation Characteristics of Severely Deformed Titanium. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2017, 48, 999-1012.	1.1	6
33	Development of an Antagonistically Actuated Smart Joint. Materials Science Forum, 2017, 887, 104-107.	0.3	2
34	Discrete-time Integral Sliding Mode Control of a smart joint for minimally invasive surgeries. , 2016, , .		2
35	On the mechanical behavior of cold deformed aluminum 7075 alloy at elevated temperatures. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2016, 670, 81-89.	2.6	52
36	High Temperature Flow Response Modeling of Ultra-Fine Grained Titanium. Metals, 2015, 5, 1315-1327.	1.0	17

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37	Workability characteristics and mechanical behavior modeling of severely deformed pure titanium at high temperatures. Materials & Design, 2014, 53, 749-757.	5.1	52
38	Elevated Temperature Mechanical Behavior of Severely Deformed Titanium. Journal of Materials Engineering and Performance, 2014, 23, 1834-1844.	1.2	28
39	High Temperature Deformation Behavior of 4340 Steel: Activation Energy Calculation and Modeling of Flow Response. Journal of Iron and Steel Research International, 2013, 20, 133-139.	1.4	22
40	Hot Deformation Behavior of Ultra-Fine Grained Pure Ti. Advanced Materials Research, 2013, 829, 10-14.	0.3	2
41	Enhancement in mechanical behavior and wear resistance of severe plastically deformed two-phase Znâ€“Al alloys. International Journal of Materials Research, 2007, 98, 332-338.	0.1	23
42	Mechanical twinning and texture evolution in severely deformed Tiâ€“6Alâ€“4V at high temperatures. Acta Materialia, 2006, 54, 3755-3771.	3.8	169
43	Mechanical flow anisotropy in severely deformed pure titanium. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2006, 434, 294-302.	2.6	81
44	Microstructural refinement and deformation twinning during severe plastic deformation of 316L stainless steel at high temperatures. Journal of Materials Research, 2004, 19, 2268-2278.	1.2	47
45	Effects of Aging on the Microstructure and Phase Transformation Behavior of Cu-Al-Mn Shape Memory Alloy. Key Engineering Materials, 0, 882, 21-27.	0.4	2
46	Mechanical Behavior of Constrained Groove Pressed Stainless Steel and Pure Zinc. Key Engineering Materials, 0, 882, 28-34.	0.4	0
47	Manufacturing and Mechanical Behavior of Titanium-Steel Composite by Accumulative Roll Bonding. Key Engineering Materials, 0, 882, 89-95.	0.4	2
48	Evaluating the Mechanical Behavior of ARB Processed Aluminum Composites Using Shear Punch Testing. Materials Science Forum, 0, 986, 86-92.	0.3	3