

Guney Guven Yapici

List of Publications by Year in descending order

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Version: 2024-02-01

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 | Mechanical twinning and texture evolution in severely deformed Ti-6Al-4V at high temperatures. <i>Acta Materialia</i> , 2006, 54, 3755-3771. | 3.8 | 169 |
| 2 | Mechanical flow anisotropy in severely deformed pure titanium. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2006, 434, 294-302. | 2.6 | 81 |
| 3 | Workability characteristics and mechanical behavior modeling of severely deformed pure titanium at high temperatures. <i>Materials & Design</i> , 2014, 53, 749-757. | 5.1 | 52 |
| 4 | On the mechanical behavior of cold deformed aluminum 7075 alloy at elevated temperatures. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016, 670, 81-89. | 2.6 | 52 |
| 5 | Microstructural refinement and deformation twinning during severe plastic deformation of 316L stainless steel at high temperatures. <i>Journal of Materials Research</i> , 2004, 19, 2268-2278. | 1.2 | 47 |
| 6 | High temperature characteristics of Al ₂ O ₃ /SiC metal matrix composite fabricated by friction stir processing. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018, 731, 487-494. | 2.6 | 41 |
| 7 | Application of a novel friction stir spot welding process on dissimilar aluminum joints. <i>Journal of Manufacturing Processes</i> , 2018, 35, 282-288. | 2.8 | 30 |
| 8 | Severe plastic deformation as a processing tool for strengthening of additive manufactured alloys. <i>Journal of Manufacturing Processes</i> , 2021, 68, 788-795. | 2.8 | 29 |
| 9 | Elevated Temperature Mechanical Behavior of Severely Deformed Titanium. <i>Journal of Materials Engineering and Performance</i> , 2014, 23, 1834-1844. | 1.2 | 28 |
| 10 | Enhancement in mechanical behavior and wear resistance of severe plastically deformed two-phase Zn-Al alloys. <i>International Journal of Materials Research</i> , 2007, 98, 332-338. | 0.1 | 23 |
| 11 | High Temperature Deformation Behavior of 4340 Steel: Activation Energy Calculation and Modeling of Flow Response. <i>Journal of Iron and Steel Research International</i> , 2013, 20, 133-139. | 1.4 | 22 |
| 12 | Graphene as a Piezoresistive Material in Strain Sensing Applications. <i>Micromachines</i> , 2022, 13, 119. | 1.4 | 22 |
| 13 | Effect of severe plastic deformation on the damping behavior of titanium. <i>Materials Letters</i> , 2019, 244, 100-103. | 1.3 | 21 |
| 14 | High Temperature Flow Response Modeling of Ultra-Fine Grained Titanium. <i>Metals</i> , 2015, 5, 1315-1327. | 1.0 | 17 |
| 15 | Optimization of the intermediate layer friction stir spot welding process. <i>International Journal of Advanced Manufacturing Technology</i> , 2019, 104, 993-1004. | 1.5 | 15 |
| 16 | Design and development of a durable series elastic actuator with an optimized spring topology. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2021, 235, 7848-7858. | 1.1 | 13 |
| 17 | On the development of a novel multi-phase high-entropy alloy with transformation-induced plasticity effect. <i>Journal of Alloys and Compounds</i> , 2022, 905, 164014. | 2.8 | 13 |
| 18 | On the fatigue and fracture behavior of keyhole-free friction stir spot welded joints in an aluminum alloy. <i>Journal of Materials Research and Technology</i> , 2021, 11, 40-49. | 2.6 | 12 |

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|----|---|-----|-----------|
| 19 | Effect of layer architecture on the mechanical behavior of accumulative roll bonded interstitial free steel/aluminum composites. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021, 818, 141387. | 2.6 | 12 |
| 20 | On the mechanical behavior of accumulative roll bonded lightweight composite. <i>Materials Research Express</i> , 2019, 6, 096581. | 0.8 | 10 |
| 21 | Fatigue characteristics of continuous welded rails and the effect of residual stress on fatigue-ratchetting interaction. <i>Mechanics of Advanced Materials and Structures</i> , 2020, 27, 473-480. | 1.5 | 10 |
| 22 | Simultaneous improvement in strength and ductility of severely deformed niobium alloy. <i>Materials Letters</i> , 2020, 279, 128443. | 1.3 | 10 |
| 23 | Hardness and wear resistance of roller burnished 316L stainless steel. <i>Materials Today: Proceedings</i> , 2021, 47, 2405-2409. | 0.9 | 10 |
| 24 | PVA/gelatin-based hydrogel coating of nickel-titanium alloy for improved tissue-implant interface. <i>Applied Physics A: Materials Science and Processing</i> , 2021, 127, 1. | 1.1 | 7 |
| 25 | An In-Silico Corrosion Model for Biomedical Applications for Coupling With In-Vitro Biocompatibility Tests for Estimation of Long-Term Effects. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021, 9, 718026. | 2.0 | 7 |
| 26 | On the High-Temperature Flow Response of Friction Stir Processed Magnesium Metal Matrix Composites. <i>Journal of Engineering Materials and Technology, Transactions of the ASME</i> , 2021, 143, . | 0.8 | 7 |
| 27 | Effect of Purity Levels on the High-Temperature Deformation Characteristics of Severely Deformed Titanium. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2017, 48, 999-1012. | 1.1 | 6 |
| 28 | Effect of Stress Aging Induced Precipitates on Corrosion Behavior of NiTi Shape Memory Alloys. <i>Metals and Materials International</i> , 2021, 27, 3968-3974. | 1.8 | 6 |
| 29 | On the Friction Stir Processing of Additiveâ€Manufactured 316L Stainless Steel. <i>Advanced Engineering Materials</i> , 2022, 24, . | 1.6 | 6 |
| 30 | Fracture Behavior of Ultrafine-Grained Titanium Under Tension at Elevated Temperatures. <i>Journal of Engineering Materials and Technology, Transactions of the ASME</i> , 2020, 142, . | 0.8 | 4 |
| 31 | Application of Novel Constrained Groove Pressing Routes on Austenitic Stainless Steel. <i>Transactions of the Indian Institute of Metals</i> , 2021, 74, 2599-2608. | 0.7 | 3 |
| 32 | Evaluating the Mechanical Behavior of ARB Processed Aluminum Composites Using Shear Punch Testing. <i>Materials Science Forum</i> , 0, 986, 86-92. | 0.3 | 3 |
| 33 | Hot Deformation Behavior of Ultra-Fine Grained Pure Ti. <i>Advanced Materials Research</i> , 2013, 829, 10-14. | 0.3 | 2 |
| 34 | Discrete-time Integral Sliding Mode Control of a smart joint for minimally invasive surgeries. , 2016, , . | | 2 |
| 35 | Development of an Antagonistically Actuated Smart Joint. <i>Materials Science Forum</i> , 2017, 887, 104-107. | 0.3 | 2 |
| 36 | Effect of heat treatment on the corrosion-fatigue of NiTi shape memory alloy. <i>AIP Conference Proceedings</i> , 2019, , . | 0.3 | 2 |

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|----|--|-----|-----------|
| 37 | Effect of processing parameters on the strength of keyhole free friction stir spot aluminum welds. AIP Conference Proceedings, 2019, , . | 0.3 | 2 |
| 38 | 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 |
| 39 | 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 |
| 40 | Manufacturing and Mechanical Behavior of Titanium-Steel Composite by Accumulative Roll Bonding. Key Engineering Materials, 0, 882, 89-95. | 0.4 | 2 |
| 41 | Low-Cycle Fatigue Behavior of Friction Stir-Welded Copper Joints. Journal of Materials Engineering and Performance, 2021, 30, 8643-8651. | 1.2 | 2 |
| 42 | 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 |
| 43 | Advanced Surface Enhancement of a High Strength Aluminum Alloy Through Friction Stir Processing. Lecture Notes in Mechanical Engineering, 2022, , 8-12. | 0.3 | 1 |
| 44 | Effect of External Stress on the POST-Aging MECHANICAL Properties of Rolled Magnesium Alloys. , 2020, , . | | 1 |
| 45 | Effects of interlayer on the friction stir spot welding of stainless steel. Materials Today: Proceedings, 2022, 62, 4291-4294. | 0.9 | 1 |
| 46 | Influence of warm rolling and aging on the microstructural evolution and mechanical behavior of AZ31 magnesium alloy. AIP Conference Proceedings, 2019, , . | 0.3 | 0 |
| 47 | Mechanical Behavior of Constrained Groove Pressed Stainless Steel and Pure Zinc. Key Engineering Materials, 0, 882, 28-34. | 0.4 | 0 |
| 48 | 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 |