

Peng Xue

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/9087114/publications.pdf>

Version: 2024-02-01

76
papers

3,017
citations

147801

31
h-index

175258

52
g-index

76
all docs

76
docs citations

76
times ranked

1737
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | High strength and ductility achieved in friction stir processed Ni-Co based superalloy with fine grains and nanotwins. <i>Journal of Materials Science and Technology</i> , 2022, 106, 162-172. | 10.7 | 8 |
| 2 | Evolution mechanisms of microstructure and mechanical properties in a friction stir welded ultrahigh-strength quenching and partitioning steel. <i>Journal of Materials Science and Technology</i> , 2022, 102, 213-223. | 10.7 | 16 |
| 3 | Defect formation, microstructure evolution, and mechanical properties of bobbin tool friction stir welded 2219-T8 alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022, 832, 142414. | 5.6 | 15 |
| 4 | Welding behavior of an ultrahigh-strength quenching and partitioning steel by fusion and solid-state welding methods. <i>Journal of Materials Research and Technology</i> , 2022, 17, 1289-1301. | 5.8 | 7 |
| 5 | Static spheroidization and its effect on superplasticity of fine lamellae in nugget of a friction stir welded Ti-6Al-4V joint. <i>Journal of Materials Science and Technology</i> , 2022, 119, 1-10. | 10.7 | 10 |
| 6 | Effect of static annealing on superplastic behavior of a friction stir welded Ti-6Al-4V alloy joint and microstructural evolution during deformation. <i>Journal of Materials Science and Technology</i> , 2022, 130, 112-123. | 10.7 | 10 |
| 7 | Improved strength with good conductivity in Cu-Cr-Zr alloys: Determinant effect of under-aging treatment before rolling and aging. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022, 848, 143395. | 5.6 | 16 |
| 8 | Microstructure and mechanical properties of electron beam welded TiZrNbTa refractory high entropy alloy. <i>Materials Today Communications</i> , 2022, 32, 103847. | 1.9 | 4 |
| 9 | Enhanced combination of mechanical properties and electrical conductivity of a hard state Cu-Cr-Zr alloy via one-step friction stir processing. <i>Journal of Materials Processing Technology</i> , 2021, 288, 116880. | 6.3 | 27 |
| 10 | Evolution of Quasicrystals and Long-Period Stacking Ordered Structures During Severe Plastic Deformation and Mixing of Dissimilar Mg Alloys Upon Friction Stir Welding. <i>Acta Metallurgica Sinica (English Letters)</i> , 2021, 34, 12-24. | 2.9 | 6 |
| 11 | Realising equal-strength welding with good conductivity in Cu-Cr-Zr alloy via friction stir welding. <i>Science and Technology of Welding and Joining</i> , 2021, 26, 448-454. | 3.1 | 8 |
| 12 | Effect of Rotation Rate on Microstructure and Mechanical Properties of Friction Stir Processed Ni-Fe-Based Superalloy. <i>Acta Metallurgica Sinica (English Letters)</i> , 2021, 34, 1407-1420. | 2.9 | 3 |
| 13 | Microstructural refinement mechanism and its effect on toughness in the nugget zone of high-strength pipeline steel by friction stir welding. <i>Journal of Materials Science and Technology</i> , 2021, 93, 221-231. | 10.7 | 23 |
| 14 | Achieving equal fatigue strength to base material in a friction stir welded 5083-H19 aluminium alloy joint. <i>Science and Technology of Welding and Joining</i> , 2020, 25, 81-88. | 3.1 | 16 |
| 15 | Microstructural Evolution and Mechanical Behavior of Friction-Stir-Welded DP1180 Advanced Ultrahigh Strength Steel. <i>Acta Metallurgica Sinica (English Letters)</i> , 2020, 33, 58-66. | 2.9 | 15 |
| 16 | Microstructure and Mechanical Properties of X80 Pipeline Steel Joints by Friction Stir Welding Under Various Cooling Conditions. <i>Acta Metallurgica Sinica (English Letters)</i> , 2020, 33, 88-102. | 2.9 | 24 |
| 17 | Microstructure and mechanical properties of double-side friction stir welded 6082Al ultra-thick plates. <i>Journal of Materials Science and Technology</i> , 2020, 41, 105-116. | 10.7 | 48 |
| 18 | Improving mechanical properties of friction-stir-spot-welded advanced ultra-high-strength steel with additional water cooling. <i>Science and Technology of Welding and Joining</i> , 2020, 25, 336-344. | 3.1 | 16 |

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 19 | Achieving equal strength joint to parent metal in a friction stir welded ultra-high strength quenching and partitioning steel. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020, 793, 139979. | 5.6 | 17 |
| 20 | Microstructure, crystallography, and toughness in nugget zone of friction stir welded high-strength pipeline steel. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020, 791, 139620. | 5.6 | 19 |
| 21 | Achieving a strong polypropylene/aluminum alloy friction spot joint via a surface laser processing pretreatment. <i>Journal of Materials Science and Technology</i> , 2020, 50, 103-114. | 10.7 | 38 |
| 22 | Effect of grain ultra-refinement on corrosion behavior of ultra-high strength high nitrogen stainless steel. <i>Corrosion Science</i> , 2020, 174, 108847. | 6.6 | 27 |
| 23 | Improved high cycle fatigue property of ultrafine grained pure aluminum. <i>Materials Letters</i> , 2020, 277, 128289. | 2.6 | 6 |
| 24 | High-cycle fatigue and fracture behavior of double-side friction stir welded 6082Al ultra-thick plates. <i>Engineering Fracture Mechanics</i> , 2020, 226, 106887. | 4.3 | 8 |
| 25 | Achieving a High-Strength CoCrFeNiCu High-Entropy Alloy with an Ultrafine-Grained Structure via Friction Stir Processing. <i>Acta Metallurgica Sinica (English Letters)</i> , 2020, 33, 947-956. | 2.9 | 40 |
| 26 | Effect of heat-input on pitting corrosion behavior of friction stir welded high nitrogen stainless steel. <i>Journal of Materials Science and Technology</i> , 2019, 35, 1278-1283. | 10.7 | 17 |
| 27 | A novel approach to achieve high yield strength high nitrogen stainless steel with superior ductility and corrosion resistance. <i>Materials Letters</i> , 2019, 242, 91-94. | 2.6 | 8 |
| 28 | Microstructure and Corrosion Resistance of Friction Stir Welded High Nitrogen Stainless Steel Joint. <i>Corrosion</i> , 2019, 75, 790-798. | 1.1 | 4 |
| 29 | Improved cyclic softening behavior of ultrafine-grained Cu with high microstructural stability. <i>Scripta Materialia</i> , 2019, 166, 10-14. | 5.2 | 19 |
| 30 | Achieving an ultra-high strength in a low alloyed Al alloy via a special structural design. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019, 755, 28-36. | 5.6 | 20 |
| 31 | Microstructural evolution of aluminum alloy during friction stir welding under different tool rotation rates and cooling conditions. <i>Journal of Materials Science and Technology</i> , 2019, 35, 972-981. | 10.7 | 70 |
| 32 | High-Speed Friction Stir Welding of SiCp/Al-Mg-Si-Cu Composite. <i>Acta Metallurgica Sinica (English)</i> 2019, 33, 1000-1006. | 2.9 | 10 |
| 33 | An approach to enhancement of Mg alloy joint performance by additional pass of friction stir processing. <i>Journal of Materials Processing Technology</i> , 2019, 264, 336-345. | 6.3 | 23 |
| 34 | Effect of Processing Parameters on Plastic Flow and Defect Formation in Friction-Stir-Welded Aluminum Alloy. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2018, 49, 2673-2683. | 2.2 | 22 |
| 35 | Achieving ultra-high strength friction stir welded joints of high nitrogen stainless steel by forced water cooling. <i>Journal of Materials Science and Technology</i> , 2018, 34, 2183-2188. | 10.7 | 31 |
| 36 | Realising equal strength welding to parent metal in precipitation-hardened Al-Mg-Si alloy via low heat input friction stir welding. <i>Science and Technology of Welding and Joining</i> , 2018, 23, 478-486. | 3.1 | 16 |

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 37 | Low-temperature superplasticity of nugget zone of friction stir welded Al-Mg alloy joint. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018, 727, 177-183. | 5.6 | 6 |
| 38 | Fabrication of large-bulk ultrafine grained 6061 aluminum alloy by rolling and low-heat-input friction stir welding. <i>Journal of Materials Science and Technology</i> , 2018, 34, 112-118. | 10.7 | 46 |
| 39 | Achieving superior low temperature and high strain rate superplasticity in submerged friction stir welded Ti-6Al-4V alloy. <i>Science China Materials</i> , 2018, 61, 417-423. | 6.3 | 10 |
| 40 | Material flow and void defect formation in friction stir welding of aluminium alloys. <i>Science and Technology of Welding and Joining</i> , 2018, 23, 677-686. | 3.1 | 37 |
| 41 | Enhanced Mechanical Properties of Al-36Si Composite via Friction Stir Processing and Subsequent Heat Treatment. <i>Materials Transactions</i> , 2018, 59, 1513-1519. | 1.2 | 0 |
| 42 | A comparative research on bobbin tool and conventional friction stir welding of Al-Mg-Si alloy plates. <i>Materials Characterization</i> , 2018, 145, 20-28. | 4.4 | 39 |
| 43 | Enhanced Mechanical Properties of Friction Stir Welded 5083Al-H19 Joints with Additional Water Cooling. <i>Journal of Materials Science and Technology</i> , 2017, 33, 1009-1014. | 10.7 | 62 |
| 44 | Microstructural and Mechanical Evolution of a Low Carbon Steel by Friction Stir Processing. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2017, 48, 3869-3879. | 2.2 | 17 |
| 45 | Evolution of local texture and its effect on mechanical properties and fracture behavior of friction stir welded joint of extruded Mg-3Al-1Zn alloy. <i>Materials Characterization</i> , 2017, 128, 14-22. | 4.4 | 44 |
| 46 | Improving joint performance of friction stir welded wrought Mg alloy by controlling non-uniform deformation behavior. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017, 707, 426-434. | 5.6 | 29 |
| 47 | Simultaneously improving mechanical properties and damping capacity of Al-Mg-Si alloy through friction stir processing. <i>Materials Characterization</i> , 2017, 131, 425-430. | 4.4 | 48 |
| 48 | Microstructural evolution and pitting corrosion behavior of friction stir welded joint of high nitrogen stainless steel. <i>Materials and Design</i> , 2016, 110, 802-810. | 7.0 | 45 |
| 49 | Microstructure and mechanical properties of friction stir processed Cu with an ideal ultrafine-grained structure. <i>Materials Characterization</i> , 2016, 121, 187-194. | 4.4 | 41 |
| 50 | Intrinsic high cycle fatigue behavior of ultrafine grained pure Cu with stable structure. <i>Science China Materials</i> , 2016, 59, 531-537. | 6.3 | 32 |
| 51 | Impact toughness of friction stir processed low carbon steel used in shipbuilding. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016, 672, 40-48. | 5.6 | 46 |
| 52 | Enhanced mechanical properties of medium carbon steel casting via friction stir processing and subsequent annealing. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016, 670, 153-158. | 5.6 | 35 |
| 53 | Achieving superior low-temperature superplasticity for lamellar microstructure in nugget of a friction stir welded Ti-6Al-4V joint. <i>Scripta Materialia</i> , 2016, 122, 26-30. | 5.2 | 42 |
| 54 | Superplastic Constitutive Equation Including Percentage of High-Angle Grain Boundaries as a Microstructural Parameter. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2016, 47, 546-559. | 2.2 | 12 |

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 55 | Achieving ultrafine-grained ferrite structure in friction stir processed weld metal. <i>Materials Letters</i> , 2016, 162, 161-164. | 2.6 | 31 |
| 56 | Effect of Interfacial Microstructure Evolution on Mechanical Properties and Fracture Behavior of Friction Stir-Welded Al-Cu Joints. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2015, 46, 3091-3103. | 2.2 | 73 |
| 57 | Effects of heating rates on microstructure and superplastic behavior of friction stir processed 7075 aluminum alloy. <i>Journal of Materials Science</i> , 2015, 50, 1006-1015. | 3.7 | 15 |
| 58 | Achieving ultrafine-grained structure in a pure nickel by friction stir processing with additional cooling. <i>Materials & Design</i> , 2014, 56, 848-851. | 5.1 | 39 |
| 59 | Enhanced mechanical properties in friction stir welded low alloy steel joints via structure refining. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014, 606, 322-329. | 5.6 | 28 |
| 60 | Enhanced strength and ductility of friction stir processed Cu-Al alloys with abundant twin boundaries. <i>Scripta Materialia</i> , 2013, 68, 751-754. | 5.2 | 62 |
| 61 | Achieving ultrafine dual-phase structure with superior mechanical property in friction stir processed plain low carbon steel. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013, 575, 30-34. | 5.6 | 52 |
| 62 | Achieving Large-area Bulk Ultrafine Grained Cu via Submerged Multiple-pass Friction Stir Processing. <i>Journal of Materials Science and Technology</i> , 2013, 29, 1111-1115. | 10.7 | 54 |
| 63 | Microstructure and mechanical properties of friction stir welded X80 pipeline steel joint under additional cooling. , 2013, , 445-448. | | 2 |
| 64 | Effect of ball-milling time on mechanical properties of carbon nanotubes reinforced aluminum matrix composites. <i>Composites Part A: Applied Science and Manufacturing</i> , 2012, 43, 2161-2168. | 7.6 | 249 |
| 65 | Microstructural evolution and mechanical properties of ultrafine grained Al ₃ Ti/Al-5.5Cu composites produced via hot pressing and subsequent friction stir processing. <i>Materials Chemistry and Physics</i> , 2012, 134, 294-301. | 4.0 | 36 |
| 66 | High tensile ductility via enhanced strain hardening in ultrafine-grained Cu. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012, 532, 106-110. | 5.6 | 77 |
| 67 | Microstructural evolution in recrystallized and unrecrystallized Al-Mg-Sc alloys during superplastic deformation. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012, 547, 55-63. | 5.6 | 65 |
| 68 | Effect of Rotation Rate on Microstructures and Mechanical Properties of FSW Mg-Zn-Y-Zr Alloy Joints. <i>Journal of Materials Science and Technology</i> , 2011, 27, 1157-1164. | 10.7 | 29 |
| 69 | Superplastic Behavior of Friction Stir Processed ZK60 Magnesium Alloy. <i>Materials Transactions</i> , 2011, 52, 2278-2281. | 1.2 | 15 |
| 70 | Achieving friction stir welded pure copper joints with nearly equal strength to the parent metal via additional rapid cooling. <i>Scripta Materialia</i> , 2011, 64, 1051-1054. | 5.2 | 98 |
| 71 | Effect of Multiple-Pass Friction Stir Processing Overlapping on Microstructure and Mechanical Properties of As-Cast NiAl Bronze. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2011, 42, 2125-2135. | 2.2 | 26 |
| 72 | Effect of friction stir welding parameters on the microstructure and mechanical properties of the dissimilar Al-Cu joints. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011, 528, 4683-4689. | 5.6 | 316 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 73 | Achieving high property friction stir welded aluminium/copper lap joint at low heat input. Science and Technology of Welding and Joining, 2011, 16, 657-661. | 3.1 | 77 |
| 74 | Effect of Heat Input Conditions on Microstructure and Mechanical Properties of Friction-Stir-Welded Pure Copper. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2010, 41, 2010-2021. | 2.2 | 76 |
| 75 | Enhanced mechanical properties of friction stir welded dissimilar Al-Cu joint by intermetallic compounds. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2010, 527, 5723-5727. | 5.6 | 264 |
| 76 | Inhomogeneous microstructure and mechanical properties of friction stir processed NiAl bronze. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2009, 524, 119-128. | 5.6 | 75 |