

Yusheng

List of Publications by Year in descending order

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68
papers

3,623
citations

159585

30
h-index

133252

59
g-index

70
all docs

70
docs citations

70
times ranked

2596
citing authors

#	ARTICLE	IF	CITATIONS
1	Microstructural evolution and nanostructure formation in copper during dynamic plastic deformation at cryogenic temperatures. <i>Acta Materialia</i> , 2008, 56, 230-241.	7.9	536
2	Effect of the Zener-Hollomon parameter on the microstructures and mechanical properties of Cu subjected to plastic deformation. <i>Acta Materialia</i> , 2009, 57, 761-772.	7.9	214
3	Realizing High Figure of Merit in Phase-Separated Polycrystalline Sn _{1-x} Pb _x Se. <i>Journal of the American Chemical Society</i> , 2016, 138, 13647-13654.	13.7	201
4	Simultaneously enhancing strength and ductility of a high-entropy alloy via gradient hierarchical microstructures. <i>International Journal of Plasticity</i> , 2019, 123, 178-195.	8.8	201
5	Achieving High Thermoelectric Figure of Merit in Polycrystalline SnSe via Introducing Sn Vacancies. <i>Journal of the American Chemical Society</i> , 2018, 140, 499-505.	13.7	180
6	Superior strength and ductility of 316L stainless steel with heterogeneous lamella structure. <i>Journal of Materials Science</i> , 2018, 53, 10442-10456.	3.7	175
7	Effect of heterostructure and hetero-deformation induced hardening on the strength and ductility of brass. <i>Acta Materialia</i> , 2020, 186, 644-655.	7.9	146
8	Effect of thermal annealing on mechanical properties of a nanostructured copper prepared by means of dynamic plastic deformation. <i>Scripta Materialia</i> , 2008, 59, 475-478.	5.2	137
9	Effects of grain size on tensile property and fracture morphology of 316L stainless steel. <i>Materials Letters</i> , 2019, 254, 116-119.	2.6	116
10	Gradient Structured Copper by Rotationally Accelerated Shot Peening. <i>Journal of Materials Science and Technology</i> , 2017, 33, 758-761.	10.7	105
11	Quantifying the synergetic strengthening in gradient material. <i>Scripta Materialia</i> , 2018, 150, 22-25.	5.2	94
12	High thermoelectric performance of n-type Bi ₂ Te _{2.7} Se _{0.3} via nanostructure engineering. <i>Journal of Materials Chemistry A</i> , 2018, 6, 9642-9649.	10.3	93
13	Optimizing the strength, ductility and electrical conductivity of a Cu-Cr-Zr alloy by rotary swaging and aging treatment. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019, 746, 211-216.	5.6	87
14	Dense dispersed shear bands in gradient-structured Ni. <i>International Journal of Plasticity</i> , 2020, 124, 186-198.	8.8	77
15	Ultrastrong low-carbon nanosteel produced by heterostructure and interstitial mediated warm rolling. <i>Science Advances</i> , 2020, 6, .	10.3	75
16	High strength and high electrical conductivity in bulk nanograined Cu embedded with nanoscale twins. <i>Applied Physics Letters</i> , 2007, 91, .	3.3	61
17	Design for strength-ductility synergy of 316L stainless steel with heterogeneous lamella structure through medium cold rolling and annealing. <i>Vacuum</i> , 2018, 157, 128-135.	3.5	60
18	Evolution of twinning systems and variants during sequential twinning in cryo-rolled titanium. <i>International Journal of Plasticity</i> , 2019, 112, 52-67.	8.8	54

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19	Deformation mechanisms of 304L stainless steel with heterogeneous lamella structure. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019, 742, 409-413.	5.6	49
20	Formation of nanocrystalline structure in tantalum by sliding friction treatment. <i>International Journal of Refractory Metals and Hard Materials</i> , 2014, 45, 71-75.	3.8	46
21	Dry sliding tribological properties of nanostructured copper subjected to dynamic plastic deformation. <i>Wear</i> , 2011, 271, 1609-1616.	3.1	45
22	Fabrication of Al/Mg/Al Composites via Accumulative Roll Bonding and Their Mechanical Properties. <i>Materials</i> , 2016, 9, 951.	2.9	44
23	Microstructural evolution and mechanical properties of Mg-9.8Gd-2.7Y-0.4Zr alloy produced by repetitive upsetting. <i>Journal of Materials Science and Technology</i> , 2018, 34, 1067-1075.	10.7	42
24	Synergetic deformation-induced extraordinary softening and hardening in gradient copper. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019, 752, 217-222.	5.6	41
25	Rock-salt-type nanoprecipitates lead to high thermoelectric performance in undoped polycrystalline SnSe. <i>RSC Advances</i> , 2017, 7, 8258-8263.	3.6	40
26	Microstructures and Mechanical Properties of a Gradient Nanostructured 316L Stainless Steel Processed by Rotationally Accelerated Shot Peening. <i>Advanced Engineering Materials</i> , 2018, 20, 1800402.	3.5	40
27	Soft/hard copper/bronze laminates with superior mechanical properties. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019, 756, 213-218.	5.6	37
28	Improved corrosion resistance of 316LN stainless steel performed by rotationally accelerated shot peening. <i>Applied Surface Science</i> , 2019, 481, 1305-1312.	6.1	36
29	Tribological Behavior of the 316L Stainless Steel with Heterogeneous Lamella Structure. <i>Materials</i> , 2018, 11, 1839.	2.9	33
30	Thermal stability and tensile property of 316L stainless steel with heterogeneous lamella structure. <i>Vacuum</i> , 2018, 152, 261-264.	3.5	32
31	Slip, twinning and twin-twin interaction in a gradient structured titanium. <i>Materials Characterization</i> , 2019, 149, 52-62.	4.4	31
32	Impact property of high-strength 316L stainless steel with heterostructures. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019, 754, 457-460.	5.6	28
33	Microstructural evolution and mechanical properties of a 5052 Al alloy with gradient structures. <i>Journal of Materials Research</i> , 2017, 32, 4443-4451.	2.6	27
34	Hardening after annealing in nanostructured 316L stainless steel. <i>Nano Materials Science</i> , 2020, 2, 80-82.	8.8	27
35	Grain size effect on deformation mechanisms and mechanical properties of titanium. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020, 773, 138721.	5.6	27
36	Ultrafine-Grained Microstructure and Improved Mechanical Behaviors of Friction Stir Welded Cu and Cu-30Zn Joints. <i>Acta Metallurgica Sinica (English Letters)</i> , 2018, 31, 878-886.	2.9	26

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37	Microstructure and mechanical properties of Al-TiB ₂ /TiC in situ composites improved via hot rolling. Transactions of Nonferrous Metals Society of China, 2017, 27, 2548-2554.	4.2	24
38	Microstructure Evolution and Mechanical Properties of Al-TiB ₂ /TiC In Situ Aluminum-Based Composites during Accumulative Roll Bonding (ARB) Process. Materials, 2017, 10, 109.	2.9	23
39	Promising Tensile and Fatigue Properties of Commercially Pure Titanium Processed by Rotary Swaging and Annealing Treatment. Materials, 2018, 11, 2261.	2.9	21
40	On the Heterogeneity of Local Shear Strain Induced by High-Pressure Torsion. Advanced Engineering Materials, 2020, 22, 1900477.	3.5	20
41	Simultaneously improving the tensile strength and ductility of the AlNp/ Al composites by the particle's hierarchical structure with bimodal distribution and nano-network. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2020, 770, 138519.	5.6	19
42	Gradient structure induced simultaneous enhancement of strength and ductility in AZ31 Mg alloy with twin-twin interactions. Journal of Magnesium and Alloys, 2023, 11, 2872-2882.	11.9	19
43	Effect of quenching processes on microstructures and tribological behaviors of polycrystalline diamond compact (PCD/WC-Co) in annealing treatment. Diamond and Related Materials, 2017, 79, 79-87.	3.9	18
44	Microstructures and Mechanical Properties of Commercially Pure Ti Processed by Rotationally Accelerated Shot Peening. Materials, 2018, 11, 366.	2.9	17
45	Yielding and fracture behaviors of coarse-grain/ultrafine-grain heterogeneous-structured copper with transitional interface. Transactions of Nonferrous Metals Society of China, 2019, 29, 588-594.	4.2	16
46	Effect of Rolling Strain on the Mechanical and Tribological Properties of 316L Stainless Steel. Journal of Tribology, 2019, 141, .	1.9	14
47	Reactive synthesis of hexagonal Ti ₅ P ₃ .16 crystals and their heterogenous nucleating mechanism on primary Si. Journal of Alloys and Compounds, 2019, 777, 8-17.	5.5	14
48	Enhanced tensile properties of 316L stainless steel processed by a novel ultrasonic resonance plastic deformation technique. Materials Letters, 2019, 236, 342-345.	2.6	14
49	Deformation mechanisms and enhanced mechanical properties of 304L stainless steel at liquid nitrogen temperature. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2020, 798, 140133.	5.6	13
50	Effects of geometric dimension and grain size on impact properties of 316L stainless steel. Materials Letters, 2021, 284, 128908.	2.6	13
51	Enhanced irradiation and corrosion resistance of 316LN stainless steel with high densities of dislocations and twins. Journal of Nuclear Materials, 2019, 517, 234-240.	2.7	12
52	Grain size effect on deformation twin thickness in a nanocrystalline metal with low stacking-fault energy. Journal of Materials Research, 2019, 34, 2398-2405.	2.6	11
53	Layer-by-layer corrosion behavior of 316LN stainless steel with a gradient-nanostructured surface. Electrochemistry Communications, 2020, 110, 106642.	4.7	11
54	Enhanced pitting resistance through designing a high-strength 316L stainless steel with heterostructure. Journal of Materials Research and Technology, 2021, 10, 132-137.	5.8	10

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55	Grain size and temperature mediated twinning ability and strength-ductility correlation in pure titanium. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022, 849, 143461.	5.6	10
56	Enhanced tensile properties of 316L steel via grain refinement and low-strain rolling. <i>Materials Science and Technology</i> , 2019, 35, 1497-1503.	1.6	9
57	Effective Surface Nano-Crystallization of Ni2FeCoMo0.5V0.2 Medium Entropy Alloy by Rotationally Accelerated Shot Peening (RASP). <i>Entropy</i> , 2020, 22, 1074.	2.2	9
58	Enhanced mechanical properties of ultrafine-lamella 304L stainless steel processed by multidirectional hot forging. <i>Vacuum</i> , 2021, 187, 110116.	3.5	8
59	Quasi in-situ investigation on the $\langle 111 \rangle$ twin pair in cryogenic rolled Ti. <i>Materials Characterization</i> , 2020, 163, 110237.	4.4	6
60	Effect of shot peening on the residual stress and mechanical behaviour of low-temperature and high-temperature annealed martensitic gear steel 18CrNiMo7-6. <i>IOP Conference Series: Materials Science and Engineering</i> , 2017, 219, 012046.	0.6	5
61	Enhanced Corrosion Resistance of SA106B Low-Carbon Steel Fabricated by Rotationally Accelerated Shot Peening. <i>Metals</i> , 2019, 9, 872.	2.3	5
62	A novel fracture behavior of the 304L stainless steel with heterogeneous lamella structure. <i>Vacuum</i> , 2021, 188, 110187.	3.5	5
63	Formation of nano-grains dominated by twin-twin intersection for a RASP-processed 316L stainless steel. <i>Journal of Materials Research and Technology</i> , 2022, 18, 3150-3157.	5.8	5
64	Effect of structural orientation on the impact properties of a soft/hard copper/brass laminate. <i>Vacuum</i> , 2021, 191, 110388.	3.5	4
65	Dislocation dissociation induces secondary twinning in titanium. <i>Journal of Materials Science</i> , 2020, 55, 11679-11686.	3.7	3
66	Effect of triple junctions on deformation twinning in a nanostructured Cu-Zn alloy: A statistical study using transmission Kikuchi diffraction. <i>Beilstein Journal of Nanotechnology</i> , 2016, 7, 1501-1506.	2.8	1
67	Novel techniques for processing metallic materials with controllable soft/hard laminates. <i>Materials Letters</i> , 2019, 246, 92-94.	2.6	1
68	Investigation of heat transfer between 22MnB5 and KDAH1 hot work tool steel. <i>Materials Science and Technology</i> , 2021, 37, 1073-1081.	1.6	0