

# Yusheng

## List of Publications by Year in descending order

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68  
papers

3,623  
citations

159525

30  
h-index

133188

59  
g-index

70  
all docs

70  
docs citations

70  
times ranked

2596  
citing authors

#	ARTICLE	IF	CITATIONS
1	Gradient structure induced simultaneous enhancement of strength and ductility in AZ31 Mg alloy with twin-twin interactions. <i>Journal of Magnesium and Alloys</i> , 2023, 11, 2872-2882.	5.5	19
2	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.	2.6	5
3	Grain size and temperature mediated twinning ability and strength-ductility correlation in pure titanium. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022, 849, 143461.	2.6	10
4	Effects of geometric dimension and grain size on impact properties of 316L stainless steel. <i>Materials Letters</i> , 2021, 284, 128908.	1.3	13
5	Enhanced pitting resistance through designing a high-strength 316L stainless steel with heterostructure. <i>Journal of Materials Research and Technology</i> , 2021, 10, 132-137.	2.6	10
6	Enhanced mechanical properties of ultrafine-lamella 304L stainless steel processed by multidirectional hot forging. <i>Vacuum</i> , 2021, 187, 110116.	1.6	8
7	A novel fracture behavior of the 304L stainless steel with heterogeneous lamella structure. <i>Vacuum</i> , 2021, 188, 110187.	1.6	5
8	Investigation of heat transfer between 22MnB5 and KDAH P1 hot work tool steel. <i>Materials Science and Technology</i> , 2021, 37, 1073-1081.	0.8	0
9	Effect of structural orientation on the impact properties of a soft/hard copper/brass laminate. <i>Vacuum</i> , 2021, 191, 110388.	1.6	4
10	On the Heterogeneity of Local Shear Strain Induced by High-Pressure Torsion. <i>Advanced Engineering Materials</i> , 2020, 22, 1900477.	1.6	20
11	Dense dispersed shear bands in gradient-structured Ni. <i>International Journal of Plasticity</i> , 2020, 124, 186-198.	4.1	77
12	Hardening after annealing in nanostructured 316L stainless steel. <i>Nano Materials Science</i> , 2020, 2, 80-82.	3.9	27
13	Simultaneously improving the tensile strength and ductility of the AlNp/Al composites by the particle's hierarchical structure with bimodal distribution and nano-network. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020, 770, 138519.	2.6	19
14	Layer-by-layer corrosion behavior of 316LN stainless steel with a gradient-nanostructured surface. <i>Electrochemistry Communications</i> , 2020, 110, 106642.	2.3	11
15	Grain size effect on deformation mechanisms and mechanical properties of titanium. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020, 773, 138721.	2.6	27
16	Effective Surface Nano-Crystallization of Ni2FeCoMo0.5V0.2 Medium Entropy Alloy by Rotationally Accelerated Shot Peening (RASP). <i>Entropy</i> , 2020, 22, 1074.	1.1	9
17	Deformation mechanisms and enhanced mechanical properties of 304L stainless steel at liquid nitrogen temperature. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020, 798, 140133.	2.6	13
18	Ultrastrong low-carbon nanosteel produced by heterostructure and interstitial mediated warm rolling. <i>Science Advances</i> , 2020, 6, .	4.7	75

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19	Dislocation dissociation induces secondary twinning in titanium. Journal of Materials Science, 2020, 55, 11679-11686.	1.7	3
20	Quasi in-situ investigation on the $\langle 111 \rangle$ twin pair in cryogenic rolled Ti. Materials Characterization, 2020, 163, 110237.	1.9	6
21	Effect of heterostructure and hetero-deformation induced hardening on the strength and ductility of brass. Acta Materialia, 2020, 186, 644-655.	3.8	146
22	Evolution of twinning systems and variants during sequential twinning in cryo-rolled titanium. International Journal of Plasticity, 2019, 112, 52-67.	4.1	54
23	Effects of grain size on tensile property and fracture morphology of 316L stainless steel. Materials Letters, 2019, 254, 116-119.	1.3	116
24	Simultaneously enhancing strength and ductility of a high-entropy alloy via gradient hierarchical microstructures. International Journal of Plasticity, 2019, 123, 178-195.	4.1	201
25	Enhanced Corrosion Resistance of SA106B Low-Carbon Steel Fabricated by Rotationally Accelerated Shot Peening. Metals, 2019, 9, 872.	1.0	5
26	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.	1.7	16
27	Enhanced tensile properties of 316L steel via grain refinement and low-strain rolling. Materials Science and Technology, 2019, 35, 1497-1503.	0.8	9
28	Grain size effect on deformation twin thickness in a nanocrystalline metal with low stacking-fault energy. Journal of Materials Research, 2019, 34, 2398-2405.	1.2	11
29	Soft/hard copper/bronze laminates with superior mechanical properties. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2019, 756, 213-218.	2.6	37
30	Improved corrosion resistance of 316LN stainless steel performed by rotationally accelerated shot peening. Applied Surface Science, 2019, 481, 1305-1312.	3.1	36
31	Enhanced irradiation and corrosion resistance of 316LN stainless steel with high densities of dislocations and twins. Journal of Nuclear Materials, 2019, 517, 234-240.	1.3	12
32	Synergetic deformation-induced extraordinary softening and hardening in gradient copper. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2019, 752, 217-222.	2.6	41
33	Novel techniques for processing metallic materials with controllable soft/hard laminates. Materials Letters, 2019, 246, 92-94.	1.3	1
34	Impact property of high-strength 316L stainless steel with heterostructures. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2019, 754, 457-460.	2.6	28
35	Effect of Rolling Strain on the Mechanical and Tribological Properties of 316L Stainless Steel. Journal of Tribology, 2019, 141, .	1.0	14
36	Reactive synthesis of hexagonal Ti <sub>5</sub> P <sub>3</sub> crystals and their heterogenous nucleating mechanism on primary Si. Journal of Alloys and Compounds, 2019, 777, 8-17.	2.8	14

#	ARTICLE	IF	CITATIONS
37	Deformation mechanisms of 304L stainless steel with heterogeneous lamella structure. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019, 742, 409-413.	2.6	49
38	Slip, twinning and twin-twin interaction in a gradient structured titanium. <i>Materials Characterization</i> , 2019, 149, 52-62.	1.9	31
39	Optimizing the strength, ductility and electrical conductivity of a Cu-Cr-Zr alloy by rotary swaging and aging treatment. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019, 746, 211-216.	2.6	87
40	Enhanced tensile properties of 316L stainless steel processed by a novel ultrasonic resonance plastic deformation technique. <i>Materials Letters</i> , 2019, 236, 342-345.	1.3	14
41	Superior strength and ductility of 316L stainless steel with heterogeneous lamella structure. <i>Journal of Materials Science</i> , 2018, 53, 10442-10456.	1.7	175
42	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.	5.6	42
43	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.	1.5	26
44	Thermal stability and tensile property of 316L stainless steel with heterogeneous lamella structure. <i>Vacuum</i> , 2018, 152, 261-264.	1.6	32
45	Quantifying the synergetic strengthening in gradient material. <i>Scripta Materialia</i> , 2018, 150, 22-25.	2.6	94
46	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.	6.6	180
47	Promising Tensile and Fatigue Properties of Commercially Pure Titanium Processed by Rotary Swaging and Annealing Treatment. <i>Materials</i> , 2018, 11, 2261.	1.3	21
48	Tribological Behavior of the 316L Stainless Steel with Heterogeneous Lamella Structure. <i>Materials</i> , 2018, 11, 1839.	1.3	33
49	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.	1.6	40
50	Microstructures and Mechanical Properties of Commercially Pure Ti Processed by Rotationally Accelerated Shot Peening. <i>Materials</i> , 2018, 11, 366.	1.3	17
51	High thermoelectric performance of n-type Bi <sub>2</sub> Te <sub>2.7</sub> Se <sub>0.3</sub> via nanostructure engineering. <i>Journal of Materials Chemistry A</i> , 2018, 6, 9642-9649.	5.2	93
52	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.	1.6	60
53	Rock-salt-type nanoprecipitates lead to high thermoelectric performance in undoped polycrystalline SnSe. <i>RSC Advances</i> , 2017, 7, 8258-8263.	1.7	40
54	Effect of quenching processes on microstructures and tribological behaviors of polycrystalline diamond compact (PCD/WC-Co) in annealing treatment. <i>Diamond and Related Materials</i> , 2017, 79, 79-87.	1.8	18

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55	Microstructural evolution and mechanical properties of a 5052 Al alloy with gradient structures. <i>Journal of Materials Research</i> , 2017, 32, 4443-4451.	1.2	27
56	Gradient Structured Copper by Rotationally Accelerated Shot Peening. <i>Journal of Materials Science and Technology</i> , 2017, 33, 758-761.	5.6	105
57	Microstructure and mechanical properties of Al-TiB <sub>2</sub> /TiC in situ composites improved via hot rolling. <i>Transactions of Nonferrous Metals Society of China</i> , 2017, 27, 2548-2554.	1.7	24
58	Microstructure Evolution and Mechanical Properties of Al-TiB <sub>2</sub> /TiC In Situ Aluminum-Based Composites during Accumulative Roll Bonding (ARB) Process. <i>Materials</i> , 2017, 10, 109.	1.3	23
59	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.	0.3	5
60	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.	1.5	1
61	Fabrication of Al/Mg/Al Composites via Accumulative Roll Bonding and Their Mechanical Properties. <i>Materials</i> , 2016, 9, 951.	1.3	44
62	Realizing High Figure of Merit in Phase-Separated Polycrystalline Sn <sub>x</sub> Pb <sub>x</sub> Se. <i>Journal of the American Chemical Society</i> , 2016, 138, 13647-13654.	6.6	201
63	Formation of nanocrystalline structure in tantalum by sliding friction treatment. <i>International Journal of Refractory Metals and Hard Materials</i> , 2014, 45, 71-75.	1.7	46
64	Dry sliding tribological properties of nanostructured copper subjected to dynamic plastic deformation. <i>Wear</i> , 2011, 271, 1609-1616.	1.5	45
65	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.	3.8	214
66	Microstructural evolution and nanostructure formation in copper during dynamic plastic deformation at cryogenic temperatures. <i>Acta Materialia</i> , 2008, 56, 230-241.	3.8	536
67	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.	2.6	137
68	High strength and high electrical conductivity in bulk nanograined Cu embedded with nanoscale twins. <i>Applied Physics Letters</i> , 2007, 91, .	1.5	61