

Fei Yin

List of Publications by Year in descending order

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Version: 2024-02-01

27
papers

1,353
citations

471371

17
h-index

552653

26
g-index

27
all docs

27
docs citations

27
times ranked

1596
citing authors

#	ARTICLE	IF	CITATIONS
1	Understanding the nanostructure evolution and the mechanical strengthening of the M50 bearing steel during ultrasonic shot peening. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022, 836, 142721.	2.6	52
2	Enhanced Wear Resistance of the Ultrastrong Ultrasonic Shot-Peened M50 Bearing Steel with Gradient Nanograins. <i>Metals</i> , 2022, 12, 424.	1.0	13
3	Ultrastrong medium entropy alloy with simultaneous strength-ductility improvement via heterogeneous nanocrystalline structures. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021, 823, 141631.	2.6	16
4	Enhanced Impact Toughness of Previously Cold Rolled High-Carbon Chromium Bearing Steel with Rare Earth Addition. <i>Journal of Materials Engineering and Performance</i> , 2021, 30, 8178-8187.	1.2	15
5	An experiment study on a novel constructive hot ring rolling process. <i>Procedia Manufacturing</i> , 2020, 50, 134-138.	1.9	1
6	Strain rate sensitivity of the ultrastrong gradient nanocrystalline 316L stainless steel and its rate-dependent modeling at nanoscale. <i>International Journal of Plasticity</i> , 2020, 129, 102696.	4.1	46
7	Heterogeneous damage in Li-ion batteries: Experimental analysis and theoretical modeling. <i>Journal of the Mechanics and Physics of Solids</i> , 2019, 129, 160-183.	2.3	164
8	Nanograined surface fabricated on the pure copper by ultrasonic shot peening and an energy-density based criterion for peening intensity quantification. <i>Journal of Manufacturing Processes</i> , 2018, 32, 656-663.	2.8	27
9	Enhanced Mechanical and Biological Performance of an Extremely Fine Nanograined 316L Stainless Steel Cell-Substrate Interface Fabricated by Ultrasonic Shot Peening. <i>ACS Biomaterials Science and Engineering</i> , 2018, 4, 1609-1621.	2.6	12
10	Deformation-induced dissolution of copper precipitation in 1.5wt%Cu-bearing antibacterial Fe-17wt%Cr alloy during plastic deformation process. <i>Materials and Design</i> , 2018, 157, 469-477.	3.3	12
11	Ultrastrong nanocrystalline stainless steel and its Hall-Petch relationship in the nanoscale. <i>Scripta Materialia</i> , 2018, 155, 26-31.	2.6	72
12	Overview of ultrasonic shot peening. <i>Surface Engineering</i> , 2017, 33, 651-666.	1.1	44
13	In-situ method to produce nanograined metallic powders/flakes via ultrasonic shot peening. <i>Journal of Manufacturing Processes</i> , 2017, 26, 393-398.	2.8	6
14	Enhanced human osteoblast cell functions by "net-like" nanostructured cell-substrate interface in orthopedic applications. <i>Materials Letters</i> , 2017, 189, 275-278.	1.3	11
15	Numerical modelling and experimental approach for shot velocity evaluation during ultrasonic shot peening. <i>International Journal of Computational Materials Science and Surface Engineering</i> , 2015, 6, 97.	0.2	6
16	Surface Nanocrystallization and Numerical Modeling of Low Carbon Steel by Means of Ultrasonic Shot Peening. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2015, 46, 1253-1261.	1.1	28
17	Study of Static Recrystallization Behaviors of GCr15 Steel Under Two-Pass Hot Compression Deformation. <i>Journal of Materials Engineering and Performance</i> , 2015, 24, 930-935.	1.2	32
18	Microstructural modeling and simulation for GCr15 steel during elevated temperature deformation. <i>Materials & Design</i> , 2014, 55, 560-573.	5.1	65

#	ARTICLE	IF	CITATIONS
19	Facile and Green Preparation for the Formation of MoO ₂ -GO Composites as Anode Material for Lithium-ion Batteries. Journal of Physical Chemistry C, 2014, 118, 24890-24897.	1.5	58
20	Preparation of carbon coated MoS ₂ flower-like nanostructure with self-assembled nanosheets as high-performance lithium-ion battery anodes. Journal of Materials Chemistry A, 2014, 2, 7862.	5.2	226
21	Numerical modelling and experimental approach for surface morphology evaluation during ultrasonic shot peening. Computational Materials Science, 2014, 92, 28-35.	1.4	42
22	Constitutive modeling for flow behavior of GCr15 steel under hot compression experiments. Materials & Design, 2013, 43, 393-401.	5.1	101
23	Ultrasonic shot peening. International Journal of Computational Materials Science and Surface Engineering, 2013, 5, 189.	0.2	32
24	Back propagation neural network based calculation model for predicting wear of fine-blanking die during its whole lifetime. Computational Materials Science, 2012, 59, 140-151.	1.4	28
25	Back Propagation neural network modeling for warpage prediction and optimization of plastic products during injection molding. Materials & Design, 2011, 32, 1844-1850.	5.1	110
26	A hybrid of back propagation neural network and genetic algorithm for optimization of injection molding process parameters. Materials & Design, 2011, 32, 3457-3464.	5.1	127
27	Investigation of Die Wear during Fine-Blanking Process of a Kind of Automobile Synchronizer Slipper by FEM and Experiments. Advanced Materials Research, 0, 314-316, 643-652.	0.3	7