Fei Yin

List of Publications by Year
in descending order

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	Preparation of carbon coated MoS2 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
2	Heterogeneous damage in Li-ion batteries: Experimental analysis and theoretical modeling. Journal of the Mechanics and Physics of Solids, 2019, 129, 160-183.	2.3	164
3	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
4	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
5	Constitutive modeling for flow behavior of GCr15 steel under hot compression experiments. Materials & Design, 2013, 43, 393-401.	5.1	101
6	Ultrastrong nanocrystalline stainless steel and its Hall-Petch relationship in the nanoscale. Scripta Materialia, 2018, 155, 26-31.	2.6	72
7	Microstructural modeling and simulation for GCr15 steel during elevated temperature deformation. Materials & Design, 2014, 55, 560-573.	5.1	65
8	Facile and Green Preparation for the Formation of MoO₂-GO Composites as Anode Material for Lithium-Ion Batteries. Journal of Physical Chemistry C, 2014, 118, 24890-24897.	1.5	58
9	Understanding the nanostructure evolution and the mechanical strengthening of the M50 bearing steel during ultrasonic shot peening. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2022, 836, 142721.	2.6	52
10	Strain rate sensitivity of the ultrastrong gradient nanocrystalline 316L stainless steel and its rate-dependent modeling at nanoscale. International Journal of Plasticity, 2020, 129, 102696.	4.1	46
11	Overview of ultrasonic shot peening. Surface Engineering, 2017, 33, 651-666.	1.1	44
12	Numerical modelling and experimental approach for surface morphology evaluation during ultrasonic shot peening. Computational Materials Science, 2014, 92, 28-35.	1.4	42
13	Ultrasonic shot peening. International Journal of Computational Materials Science and Surface Engineering, 2013, 5, 189.	0.2	32
14	Study of Static Recrystallization Behaviors of GCr15 Steel Under Two-Pass Hot Compression Deformation. Journal of Materials Engineering and Performance, 2015, 24, 930-935.	1.2	32
15	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
16	Surface Nanocrystallization and Numerical Modeling of Low Carbon Steel by Means of Ultrasonic Shot Peening. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2015, 46, 1253-1261.	1.1	28
17	Nanograined surface fabricated on the pure copper by ultrasonic shot peening and an energy-density based criterion for peening intensity quantification. Journal of Manufacturing Processes, 2018, 32, 656-663.	2.8	27
18	Ultrastrong medium entropy alloy with simultaneous strength-ductility improvement via heterogeneous nanocrystalline structures. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2021, 823, 141631.	2.6	16

#	Article	IF	Citations
19	Enhanced Impact Toughness of Previously Cold Rolled High-Carbon Chromium Bearing Steel with Rare Earth Addition. Journal of Materials Engineering and Performance, 2021, 30, 8178-8187.	1.2	15
20	Enhanced Wear Resistance of the Ultrastrong Ultrasonic Shot-Peened M50 Bearing Steel with Gradient Nanograins. Metals, 2022, 12, 424.	1.0	13
21	Enhanced Mechanical and Biological Performance of an Extremely Fine Nanograined 316L Stainless Steel Cellâ€“Substrate Interface Fabricated by Ultrasonic Shot Peening. ACS Biomaterials Science and Engineering, 2018, 4, 1609-1621.	2.6	12
22	Deformation-induced dissolution of copper precipitation in 1.5wt%Cu-bearing antibacterial Fe-17wt%Cr alloy during plastic deformation process. Materials and Design, 2018, 157, 469-477.	3.3	12
23	Enhanced human osteoblast cell functions by â€œnet-likeâ€•nanostructured cell-substrate interface in orthopedic applications. Materials Letters, 2017, 189, 275-278.	1.3	11
24	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
25	Numerical modelling and experimental approach for shot velocity evaluation during ultrasonic shot peening. International Journal of Computational Materials Science and Surface Engineering, 2015, 6, 97.	0.2	6
26	In-situ method to produce nanograined metallic powders/flakes via ultrasonic shot peening. Journal of Manufacturing Processes, 2017, 26, 393-398.	2.8	6
27	An experiment study on a novel constructive hot ring rolling process. Procedia Manufacturing, 2020, 50, 134-138.	1.9	1