

Yang Yang

List of Publications by Year in descending order

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58
papers

3,893
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331670

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54
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58
all docs

58
docs citations

58
times ranked

3234
citing authors

#	ARTICLE	IF	CITATIONS
1	High-entropy alloy: challenges and prospects. <i>Materials Today</i> , 2016, 19, 349-362.	14.2	1,698
2	Relative effects of enthalpy and entropy on the phase stability of equiatomic high-entropy alloys. <i>Acta Materialia</i> , 2013, 61, 2628-2638.	7.9	1,004
3	Adiabatic shear band on the titanium side in the Ti/mild steel explosive cladding interface. <i>Acta Materialia</i> , 1996, 44, 561-565.	7.9	86
4	Microstructural characterization and evolution mechanism of adiabatic shear band in a near beta-Ti alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011, 528, 2787-2794.	5.6	79
5	Observation of the microstructure in the adiabatic shear band of 7075 aluminum alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2010, 527, 3529-3535.	5.6	72
6	Dynamic recrystallization in adiabatic shear band in α -titanium. <i>Materials Letters</i> , 2006, 60, 2198-2202.	2.6	64
7	Microstructure evolution within adiabatic shear band in peak aged ZK60 magnesium alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018, 711, 317-324.	5.6	52
8	Microstructure characteristics and formation mechanism of TC17 titanium alloy induced by laser shock processing. <i>Journal of Alloys and Compounds</i> , 2017, 722, 509-516.	5.5	48
9	Microstructure evolution in adiabatic shear band in fine-grain-sized Ti-3Al-5Mo-4.5V alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008, 473, 306-311.	5.6	45
10	Effects of microstructure on the adiabatic shearing behaviors of titanium alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011, 528, 3130-3133.	5.6	37
11	Evolution of precipitates in ZK60 magnesium alloy during high strain rate deformation. <i>Journal of Alloys and Compounds</i> , 2017, 705, 566-571.	5.5	35
12	Effect of orientation on self-organization of shear bands in 7075 aluminum alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011, 528, 2446-2453.	5.6	34
13	Effects of laser shock peening on microstructures and properties of 2195 Al-Li alloy. <i>Journal of Alloys and Compounds</i> , 2019, 781, 330-336.	5.5	34
14	Surface gradient microstructural characteristics and evolution mechanism of 2195 aluminum lithium alloy induced by laser shock peening. <i>Optics and Laser Technology</i> , 2019, 109, 1-7.	4.6	33
15	Adiabatic shear bands on the titanium side in the titanium/mild steel explosive cladding interface: Experiments, numerical simulation, and microstructure evolution. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2006, 37, 3131-3137.	2.2	32
16	Numerical and experimental studies of self-organization of shear bands in 7075 aluminium alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008, 496, 291-302.	5.6	29
17	Effect of phase composition on self-organization of shear bands in Ti-1300 titanium alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011, 528, 7506-7513.	5.6	27
18	Study on the microstructural characteristics of adiabatic shear band in solid-solution treated ZK60 magnesium alloy. <i>Materials Characterization</i> , 2019, 156, 109840.	4.4	24

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19	Effects of the phase content on dynamic damage evolution in Fe50Mn30Co10Cr10 high entropy alloy. <i>Journal of Alloys and Compounds</i> , 2021, 851, 156883.	5.5	24
20	Spall behaviors of high purity copper under sweeping detonation. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016, 651, 636-645.	5.6	23
21	Thermodynamics-kinetics of twinning/martensitic transformation in Fe50Mn30Co10Cr10 high-entropy alloy during adiabatic shearing. <i>Scripta Materialia</i> , 2020, 181, 115-120.	5.2	22
22	Damage and fracture mechanism of aluminium alloy thick-walled cylinder under external explosive loading. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008, 490, 378-384.	5.6	21
23	Diffusive transformation at high strain rate: On instantaneous dissolution of precipitates in aluminum alloy during adiabatic shear deformation. <i>Journal of Materials Research</i> , 2016, 31, 1220-1228.	2.6	21
24	Self-organization of adiabatic shear bands in ZK60 Magnesium alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016, 655, 321-330.	5.6	21
25	An examination of adiabatic shearing behavior in ZK60 alloy with different states of heat treatment. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017, 685, 57-64.	5.6	20
26	Effects of pre-notches on the self-organization behaviors of shear bands in aluminum alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2010, 527, 5084-5091.	5.6	19
27	Effect of heat treatment on adiabatic shear susceptibility in ZK60 magnesium alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016, 664, 146-154.	5.6	18
28	Effect of Strain on Microstructure Evolution of 1Cr18Ni9Ti Stainless Steel During Adiabatic Shearing. <i>Journal of Materials Engineering and Performance</i> , 2016, 25, 29-37.	2.5	17
29	Adiabatic shear bands in $\hat{\pm}$ -titanium tube under external explosive loading. <i>Journal of Materials Science</i> , 2007, 42, 8101-8105.	3.7	15
30	Microstructure evolution of 2195 Al-Li alloy subjected to high-strain-rate deformation. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014, 606, 299-303.	5.6	15
31	Effects of the phase interface on initial spallation damage nucleation and evolution in dual phase titanium alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018, 731, 385-393.	5.6	15
32	Multidimensional Study on Spall Behavior of High-Purity Copper Under Sliding Detonation. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2015, 46, 4070-4077.	2.2	14
33	X-ray quantitative analysis on spallation response in high purity copper under sweeping detonation. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016, 667, 54-60.	5.6	14
34	Effects of microstructure on the evolution of dynamic damage of Fe50Mn30Co10Cr10 high entropy alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021, 802, 140440.	5.6	14
35	Effects of different aging statuses and strain rate on the adiabatic shear susceptibility of 2195 aluminum-lithium alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012, 546, 279-283.	5.6	13
36	Effect of strain rate on microstructural evolution and thermal stability of 1050 commercial pure aluminum. <i>Transactions of Nonferrous Metals Society of China</i> , 2018, 28, 1-8.	4.2	13

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37	Adiabatic Shear Susceptibility of Fe ₅₀ Mn ₃₀ Co ₁₀ Cr ₁₀ High-Entropy Alloy. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2020, 51, 1771-1780.	2.2	13
38	Thermal stability of microstructures induced by laser shock peening in TC17 titanium alloy. Journal of Alloys and Compounds, 2018, 767, 253-258.	5.5	12
39	Effects of the phase interface on spallation damage nucleation and evolution in multiphase alloy. Journal of Alloys and Compounds, 2018, 740, 321-329.	5.5	11
40	Effect of the grain boundary character distribution on the self-organization of adiabatic shear bands in 1Cr18Ni9Ti austenitic stainless steel. Journal of Materials Science, 2019, 54, 7256-7270.	3.7	11
41	Study on the characteristics and thermal stability of nanostructures in adiabatic shear band of 2195 Al-Li alloy. Applied Physics A: Materials Science and Processing, 2015, 121, 1277-1284.	2.3	10
42	The void nucleation mechanism within lead phase during spallation of leaded brass. Philosophical Magazine, 2018, 98, 1975-1990.	1.6	10
43	3-D characterization of incipient spallation response in cylindrical copper under sweeping detonation. Journal of Materials Research, 2017, 32, 1499-1505.	2.6	9
44	Effects of the Phase Interface on Spallation Damage Nucleation and Evolution in Dual-Phase Steel. Steel Research International, 2020, 91, 1900583.	1.8	8
45	Microstructure Evolution of 1050 Commercial Purity Aluminum Processed by High-Strain-Rate Deformation. Journal of Materials Engineering and Performance, 2015, 24, 4307-4312.	2.5	6
46	Effect of Grain Boundary Character Distribution on the Adiabatic Shear Susceptibility. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2016, 47, 5589-5597.	2.2	6
47	The characteristics of void distribution in spalled high purity copper cylinder under sweeping detonation. Philosophical Magazine, 2018, 98, 752-765.	1.6	6
48	Effect of laser shock peening and annealing temperatures on stability of AA2195 alloy near-surface microstructure. Optics and Laser Technology, 2019, 119, 105569.	4.6	6
49	The Characteristic and Thermodynamics/Kinetics of Martensitic Transformation in Fe ₅₀ Mn ₃₀ Co ₁₀ Cr ₁₀ High-Entropy Alloy during Deformation/Heat Treatment. Advanced Engineering Materials, 2020, 22, 1900868.	3.5	6
50	Effect of Grain Size on Adiabatic Shear Susceptibility of Copper. Journal of Materials Engineering and Performance, 2021, 30, 2798-2805.	2.5	6
51	Two optimized post-heat treatments to achieve high-performance 90W-7Ni-3Fe alloys fabricated by laser-directed energy deposition. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2022, 833, 142561.	5.6	6
52	Microstructural evolution and thermal stability of 1050 commercial pure aluminum processed by high-strain-rate deformation. Journal of Materials Research, 2015, 30, 3502-3509.	2.6	4
53	Effects of Dynamic Multi-directional Loading on the Microstructural Evolution and Thermal Stability of Pure Aluminum. Journal of Materials Engineering and Performance, 2016, 25, 3924-3930.	2.5	4
54	Effects of the Phase Content on Spallation Damage Behavior in Dual-Phase Steel. Journal of Materials Engineering and Performance, 2021, 30, 5614-5624.	2.5	4

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55	Effect of strain rate on self-organisation of adiabatic shear bands in steel. Materials Science and Technology, 2020, 36, 556-563.	1.6	1
56	Grain boundary effects on spall behavior of high purity copper cylinder under sweeping detonation. Journal of Central South University, 2022, 29, 1107-1117.	3.0	1
57	Effects of fibrous Cr phase on the adiabatic shearing anisotropic behavior of the Cu-15Cr in-situ composite. Journal of Alloys and Compounds, 2022, 916, 165409.	5.5	1
58	Multi-dimensional Effect of Heat Treatment on Microstructure and Property of Ti6Al4V Alloy Fabricated by Selective Electron Beam Melting. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 0, , .	2.2	0