

Thermal behavior of copper processed by ECAP with an

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Enhancement of orientation gradients during simple shear deformation by application of simple compression. <i>Journal of Applied Physics</i> , 2015, 117, .	2.5	51
2	Thermal stability of Cu-Cr-Zr alloy processed by equal-channel angular pressing. <i>Materials Characterization</i> , 2016, 118, 527-534.	4.4	37
3	An investigation on rolling texture transition in copper preprocessed by equal channel angular pressing. <i>Journal of Materials Science</i> , 2016, 51, 5609-5624.	3.7	11
4	Microstructural evolution and micro/meso-deformation behavior in pure copper processed by equal-channel angular pressing. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016, 664, 114-125.	5.6	48
5	High Pressure Torsion Extrusion as a new severe plastic deformation process. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016, 664, 247-256.	5.6	110
6	Long-term thermal stability of Equal Channel Angular Pressed 2024 aluminum alloy. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016, 677, 307-315.	5.6	14
7	Effect of equal channel angular pressing on the thermal-annealing-induced microstructure and texture evolution of cold-rolled copper. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016, 674, 186-192.	5.6	33
8	Stabilizing nanostructures in metals using grain and twin boundary architectures. <i>Nature Reviews Materials</i> , 2016, 1, .	48.7	671
9	The significance of self-annealing at room temperature in high purity copper processed by high-pressure torsion. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016, 656, 55-66.	5.6	81
10	Influence of alloying with hafnium on the microstructure, texture, and properties of Cu-Cr alloy after equal channel angular pressing. <i>Journal of Materials Science</i> , 2016, 51, 5493-5501.	3.7	27
11	Microstructural evolution and mechanical properties of low SFE Cu-Al alloys processed by cryorolling followed by short-annealing. <i>Materials and Design</i> , 2016, 99, 552-564.	7.0	33
12	Study of the transition from EHL to BL regions under friction of Ag and Ni. I. Analysis of acoustic emission. <i>Tribology International</i> , 2017, 113, 189-196.	5.9	9
13	Severe plastic deformation of four FCC metals during friction under lubricated conditions. <i>Wear</i> , 2017, 386-387, 49-57.	3.1	20
14	Effect of the severe plastic deformation temperature on the diffusion properties of the grain boundaries in ultrafine-grained metals. <i>Russian Metallurgy (Metally)</i> , 2017, 2017, 413-425.	0.5	3
15	A study of stored energy in ultra-fined grained aluminum machined by electrical discharge machining. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2017, 231, 4470-4478.	2.1	7
16	Negative Temperature Dependence of Recrystallized Grain Size: Formulation and Experimental Confirmation on Copper. <i>Materials</i> , 2017, 10, 308.	2.9	5
17	Negative temperature dependence of recrystallized grain size: analytical formulation and experimental confirmation. <i>IOP Conference Series: Materials Science and Engineering</i> , 2017, 167, 012044.	0.6	1
18	Effect of Equal Channel Angular Pressing (ECAP) on Erosion-Corrosion of Pure Copper. <i>Applied Sciences (Switzerland)</i> , 2017, 7, 1250.	2.5	15

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19	Heterogeneous structure controlled by shear bands in partially recrystallized nano-laminated copper. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018, 721, 226-233.	5.6	10
20	Microstructure and nanohardness of Ag and Ni under friction in boundary lubrication. <i>Wear</i> , 2018, 404-405, 62-70.	3.1	10
21	The influence of an ECAP-based deformation process on the microstructure and properties of electrolytic tough pitch copper. <i>Journal of Materials Science</i> , 2018, 53, 3862-3875.	3.7	13
22	Deformation Microstructure and Chemical Composition of Surface Layers of Cu and Al Under Friction in Lubricated Conditions. <i>Tribology Letters</i> , 2018, 66, 1.	2.6	6
23	Mechanical performance and cell response of pure titanium with ultrafine-grained structure produced by severe plastic deformation. , 2018, , 419-454.		9
24	Influence of microstructure on thermal stability of ultrafine-grained Cu processed by equal channel angular pressing. <i>Journal of Materials Science</i> , 2018, 53, 13173-13185.	3.7	30
25	Thermal Stability, Grain Growth Kinetics, and Mechanical Properties of Bulk Ultrafine-Grained AA6063/SiC Composites with Varying Reinforcement Sizes. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2019, 50, 4288-4306.	2.2	17
26	Effect of ECAP on microstructure and tensile properties of A390 aluminum alloy. <i>Transactions of Nonferrous Metals Society of China</i> , 2019, 29, 931-940.	4.2	35
27	Effect of Severe Plastic Deformation on the Conductivity and Strength of Copper-Clad Aluminium Conductors. <i>Metals</i> , 2019, 9, 960.	2.3	9
28	Tailoring One-Pass Asymmetric Rolling of Extra Low Carbon Steel for Shear Texture and Recrystallization. <i>Materials</i> , 2019, 12, 1935.	2.9	10
29	Effect of Plastic Deformation and Damage Development during Friction of fcc Metals in the Conditions of Boundary Lubrication. <i>Lubricants</i> , 2019, 7, 45.	2.9	13
30	Microstructural evolution and mechanical behavior of copper processed by low strain amplitude multi-directional forging. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019, 756, 474-483.	5.6	13
31	Effects of electro-discharge machining process on ultra-fined grain copper. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2019, 233, 5341-5349.	2.1	4
32	High thermal stability and excellent mechanical properties of ultrafine-grained high-purity copper sheets subjected to asymmetric cryorolling. <i>Materials Characterization</i> , 2019, 153, 34-45.	4.4	33
33	Grain refinement and mechanical properties of metals processed by constrained groove pressing. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019, 504, 012027.	0.6	2
34	The Influence of A Cross-Channel Extrusion Process on The Microstructure and Properties of Copper. <i>Materials</i> , 2019, 12, 3995.	2.9	2
35	Structural heterogeneity of ultrafine-grained FCC metals processed through equal-channel angular pressing on mesoscale level. <i>AIP Conference Proceedings</i> , 2019, , .	0.4	0
36	Response of microstructure to annealing in in situ Cu-Nb microcomposite. <i>Journal of Materials Science</i> , 2019, 54, 840-850.	3.7	9

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37	An investigation of the stored energy and thermal stability in a Cu-Ni-Si alloy processed by high-pressure torsion. <i>Philosophical Magazine</i> , 2020, 100, 688-712.	1.6	15
38	Stabilization of ultrafine-grained microstructure in high-purity copper by gas-filled pores produced by severe plastic deformation. <i>Scripta Materialia</i> , 2020, 178, 29-33.	5.2	11
39	Friction, wear and deformed structure of Ag and Ni under early stages of scratching. <i>Wear</i> , 2020, 462-463, 203510.	3.1	1
40	Influence of Strain Amplitude on the Microstructural Evolution and Flow Properties of Copper Processed by Multidirectional Forging. <i>Advanced Engineering Materials</i> , 2020, 22, 1901510.	3.5	6
41	Influence of processing route on bonding of AA6082 and MgAZ31B by severe plastic deformation process. <i>Materials Today: Proceedings</i> , 2021, 46, 3716-3722.	1.8	5
42	Investigation of the stress-strain state and microstructure transformation of copper busbars in the deformation zone during continuous extrusion. <i>Russian Journal of Non-Ferrous Metals</i> , 2021, 1, 36-48.	0.1	0
43	Investigation of the Stress-Strain State and Microstructure Transformation of Electrotechnical Copper Buses in the Deformation Zone during Continuous Extrusion. <i>Russian Journal of Non-Ferrous Metals</i> , 2021, 62, 179-189.	0.6	4
44	Optimization of processing temperature and back pressure of equal channel angular pressing for achieving crack-free fine grained magnesium. <i>Materials Today: Proceedings</i> , 2021, 47, 4611-4616.	1.8	5
45	Influence of a prior pressurization treatment on creep behaviour of an ultrafine-grained Zr-2.5%Nb alloy. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021, 820, 141570.	5.6	5
46	Effect of processing route on microstructure, mechanical and dry sliding wear behavior of commercially pure magnesium processed by ECAP with back pressure. <i>Transactions of the Indian Institute of Metals</i> , 2021, 74, 2659-2669.	1.5	14
47	Impurity effect on recrystallization and grain growth in severe plastically deformed copper. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021, 824, 141786.	5.6	10
48	Exploring the size effect in scaling up ECAP using the theory of similarity. <i>Journal of Materials Processing Technology</i> , 2021, 298, 117290.	6.3	3
49	Structure and mechanical properties of a hybrid material with copper matrix and steel fibers after ECAP. <i>Materials Research Express</i> , 2017, 4, 125011.	1.6	3
50	Dynamic Steady State by Unlimited Unidirectional Plastic Deformation of Crystalline Materials Deforming by Dislocation Glide at Low to Moderate Temperatures. <i>Metals</i> , 2020, 10, 66.	2.3	9
51	Microstructure homogeneity of ultrafine-grained copper prepared by severe plastic deformation process. <i>AIP Conference Proceedings</i> , 2021, , .	0.4	0
52	Joining of two similar PA-6 rods through equal channel angular press based Y-shape extrusion channel. <i>CIRP Journal of Manufacturing Science and Technology</i> , 2022, 36, 133-142.	4.5	1
53	High Thermal Stability of Nanocrystalline Fe <sub>2</sub> Co <sub>0.2</sub> V <sub>0.5</sub> High-Entropy Alloy by Twin Boundary and Sluggish Diffusion. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
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55	Thermal stability of Copper processed by Multidirectional forging: Effect of deformation amplitude and cumulative Strain. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022, , 143299.	5.6	0
56	High thermal stability of nanocrystalline FeNi <sub>2</sub> CoMo <sub>0.2</sub> V <sub>0.5</sub> high-entropy alloy by twin boundary and sluggish diffusion. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022, 848, 143399.	5.6	17
57	Recent Advances in the Equal Channel Angular Pressing of Metallic Materials. <i>Processes</i> , 2022, 10, 2181.	2.8	5
58	A review on thermal stability of nanostructured materials. <i>Journal of Alloys and Compounds</i> , 2023, 938, 168528.	5.5	3
59	Investigation of the Effect of ECAP Parameters on Hardness, Tensile Properties, Impact Toughness, and Electrical Conductivity of Pure Cu through Machine Learning Predictive Models. <i>Materials</i> , 2022, 15, 9032.	2.9	4
60	Optimizing the ECAP processing parameters of pure Cu through experimental, finite element, and response surface approaches. <i>Reviews on Advanced Materials Science</i> , 2023, 62, .	3.3	6
61	Multi-directional forging. , 2023, , .		0
62	The effect of the structural parameters on the friction and wear properties of some FCC metals. <i>Journal of Materials Research and Technology</i> , 2023, 24, 3913-3924.	5.8	2
63	Improving surface integrity of electrical discharge machined ultra-fined grain Al-2017 by applying RC-type generator. <i>Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering</i> , 0, , .	2.5	0
64	Promising elevated temperature mechanical properties of novel lightweight Fe <sub>47</sub> Mn <sub>25</sub> Al <sub>13</sub> Cr <sub>7</sub> Ni <sub>5</sub> C <sub>3</sub> medium-entropy alloy. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2024, 893, 146132.	5.6	0
65	Mechanical softening of CuX alloys at elevated temperatures studied via high temperature scanning indentation. <i>Materials and Design</i> , 2024, 240, 112865.	7.0	0