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## High tensile ductility in a nanostructured metal

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2329	Materials science: nanomaterial advantage. <i>Nature</i> , <b>2002</b> , 419, 887, 889	50.4	288
2328	Microsample tensile testing of nanocrystalline copper. <b>2003</b> , 48, 1581-1586		191
2327	AlMg alloy engineered with bimodal grain size for high strength and increased ductility. <b>2003</b> , 49, 297-302		289
2326	Using atomic force microscopy to evaluate the development of mesoscopic shear planes in materials processed by severe plastic deformation. <b>2003</b> , 358, 114-121		38
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1805	Grain Refinement of Vanadium by Low Temperature Severe Plastic Deformation. <b>2010</b> , 638-642, 1934-1939	3
1804	Effects of Nano / Meso Harmonic Microstructure on Mechanical Properties in Austenitic Stainless Steel Produced by MM / HRS Process. <b>2010</b> , 638-642, 1790-1795	6
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1747	Effect of stacking fault energy on deformation behavior of cryo-rolled copper and copper alloys. <b>2011</b> , 529, 230-236	72
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1726	Effects of stacking fault energy, strain rate and temperature on microstructure and strength of nanostructured Cu/Al alloys subjected to plastic deformation. <b>2011</b> , 59, 6048-6058	102
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1718	High strength, nano-structured Mg <sub>2</sub> Al <sub>3</sub> Zn alloy. <b>2011</b> , 528, 2180-2191	64
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1716	Fracture toughness and fatigue crack growth characteristics of nanotwinned copper. <b>2011</b> , 59, 2437-2446	143
1715	High temperature tensile properties of cryorolled Al-4wt%Cu-3wt%TiB <sub>2</sub> in-situ composites. <b>2011</b> , 64, 63-66	16
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1711	Localized Deformation in Multiphase, Ultra-Fine-Grained 6 Pct Mn Transformation-Induced Plasticity Steel. <b>2011</b> , 42, 3638-3651	144
1710	Visco-Plastic Flow of Metal in Dynamic Conditions of Complex Strain Scheme. <b>2011</b> , 42, 2881-2897	42
1709	Effect of Annealing on Thermal Stability, Precipitate Evolution, and Mechanical Properties of Cryorolled Al 7075 Alloy. <b>2011</b> , 42, 3208-3217	33
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1694	Influence of solutes and second phase particles on work hardening behavior of Al 6063 alloy processed by cryorolling. <b>2011</b> , 528, 3147-3160	61
1693	Enhancing strength and ductility of Mg <sub>2</sub> Gd <sub>0.5</sub> Zr alloy by forming a bi-ultrafine microstructure. <b>2011</b> , 528, 4300-4311	24
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1558	In situ martensitic phase reinforced FeNbNiMn ultrafine composite with enhanced mechanical properties. <b>2012</b> , 531, 51-54	11
1557	High tensile ductility via enhanced strain hardening in ultrafine-grained Cu. <b>2012</b> , 532, 106-110	61

1556	Microstructural evolution and aging behavior of cryorolled Al <sub>3</sub> Zn <sub>2</sub> Mg alloy. <b>2012</b> , 535, 129-135	47
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1538	Simulation of shear banding in heterophase co-deformation: Example of plane strain compressed Cu <sub>3</sub> Ag and Cu <sub>3</sub> Nb metal matrix composites. <b>2013</b> , 61, 4591-4606	53
1537	Strength and ductility in ultrafine-grained wrought aluminum alloys. <b>2013</b> , 49, 520-524	20
1536	Tensile properties and work hardening behaviors of ultrafine grained carbon steel and pure iron processed by warm high pressure torsion. <b>2013</b> , 581, 8-15	45
1535	The effects of equal channel angular extrusion on the mechanical and electrical properties of alumina dispersion-strengthened copper alloys. <b>2013</b> , 565, 450-458	25
1534	Tailoring grain size distribution for optimizing strength and ductility of multi-modal Zr. <b>2013</b> , 108, 228-230	19
1533	High-Temperature Tensile Properties of Nano-Oxide Dispersion Strengthened Ferritic Steels Produced by Mechanical Alloying and Spark Plasma Sintering. <b>2013</b> , 44, 2461-2465	37
1532	Mechanical annealing of cryorolled Zr. <b>2013</b> , 581, 133-139	3
1531	High-strength Ti <sub>3</sub> Al <sub>2</sub> V with ultrafine-grained structure fabricated by high energy ball milling and spark plasma sintering. <b>2013</b> , 585, 408-414	80
1530	Mechanical properties of AlMgSi alloy sheets produced using asymmetric cryorolling and ageing treatment. <b>2013</b> , 568, 212-218	43
1529	Fabrication of ultra-thin nanostructured bimetallic foils by Accumulative Roll Bonding and Asymmetric Rolling. <b>2013</b> , 3, 2373	32
1528	Heterogeneous duplex structured Ti <sub>3</sub> NbMo alloys with high strength and large plastic deformability. <b>2013</b> , 574, 546-551	12
1527	Stable ductility of an electrodeposited nanocrystalline Ni <sub>20</sub> wt.%Fe alloy in tensile plastic deformation. <b>2013</b> , 553, 99-105	7
1526	Enhanced strength and ductility of friction stir processed CuAl alloys with abundant twin boundaries. <b>2013</b> , 68, 751-754	46
1525	Mechanically driven annealing twinning induced by cyclic deformation in nanocrystalline Cu. <b>2013</b> , 68, 988-991	20
1524	On the deformation mechanism of ultrafine-grained titanium with multilayered hierarchical structure. <b>2013</b> , 582, 162-169	3
1523	Optimizing strength and ductility of austenitic stainless steels through equal-channel angular pressing and adding nitrogen element. <b>2013</b> , 587, 185-191	26
1522	Columnar grains-covered small grains Cu <sub>3</sub> N alloy prepared by two-phase zone continuous casting. <b>2013</b> , 23, 94-101	10
1521	Formation process and mechanical properties of 0.2% carbon steel with bimodal microstructures subjected to heavy-reduction single-pass hot/warm compression. <b>2013</b> , 567, 29-37	19

1520	Copper foils with gradient structure in thickness direction and different roughnesses on two surfaces fabricated by double rolling. <b>2013</b> , 20, 1170-1175	9
1519	Study on cryorolled AlCu alloy using X-ray diffraction line profile analysis and evaluation of strengthening mechanisms. <b>2013</b> , 52, 785-790	63
1518	Effect of Annealing on Mechanical Properties of Copper Alloys Deformed at Cryogenic Temperature. <b>2013</b> , 745-746, 363-370	5
1517	Studying the elastic properties of nanocrystalline copper using a model of randomly packed uniform grains. <b>2013</b> , 79, 56-62	29
1516	Influences of magnetic annealing on the grain growth in a cryoECAPed 1050 aluminum alloy. <b>2013</b> , 84, 188-195	10
1515	Effect of stacking fault energy on mechanical behavior of cold-forging Cu and Cu alloys. <b>2013</b> , 47, 372-376	29
1514	Precipitation phenomena in an ultrafine-grained Al alloy. <b>2013</b> , 61, 2163-2178	160
1513	Inhomogeneous yielding and work hardening of a fine grained AlMg alloy. <b>2013</b> , 585, 455-459	9
1512	Comparison of microstructures and strengths of an Al0.5Mg alloy subjected to severe plastic deformation at room and liquid nitrogen temperatures. <b>2013</b> , 581, 26-30	14
1511	High Strength and High Ductility in Nanostructured Aluminium-Based Intermetallics Produced by High-Pressure Torsion. <b>2013</b> , 765, 558-562	2
1510	Design of radiation tolerant materials via interface engineering. <b>2013</b> , 25, 6975-9	248
1509	Healing of nanocracks by disclinations. <b>2013</b> , 111, 145501	42
1508	Biomimetic synthesis of an ultrathin platinum nanowire network with a high twin density for enhanced electrocatalytic activity and durability. <b>2013</b> , 52, 12577-81	164
1507	The Influence of High Magnetic Field on the Stability of CryoECAPed 1050 Alloy. <b>2013</b> , 774-776, 968-973	
1506	Nanoscale room temperature creep of nanocrystalline nickel pillars at low stresses. <b>2013</b> , 41, 53-64	64
1505	Extreme grain refinement by severe plastic deformation: A wealth of challenging science. <b>2013</b> , 61, 782-817	1230
1504	Nanometer to micrometer scaled inhomogeneous etching of bulk metallic glasses by ion sputtering. <b>2013</b> , 34, 75-82	4
1503	Gradient ultrafine ferrite and martensite structure and its tensile properties by asymmetric rolling in low carbon microalloyed steel. <b>2013</b> , 583, 205-209	16

1502	Room temperature creep behavior of free-standing Cu films with bimodal grain size distribution. <b>2013</b> , 68, 849-852	7
1501	Mechanical properties of Cr-alloyed MoSi <sub>2</sub> -based nanocomposite coatings with a hierarchical structure. <b>2013</b> , 565, 127-133	16
1500	The influence of strain rate, deformation temperature and stacking fault energy on the mechanical properties of Cu alloys. <b>2013</b> , 583, 199-204	30
1499	Enhancing the stability of $\beta$ phase in TiZr via severe plastic deformation. <b>2013</b> , 588, 416-419	7
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1496	Influence of size of nanoparticles and plasma pressure compaction on microstructural development and hardness of bulk tungsten samples. <b>2013</b> , 24, 190-199	13
1495	Effect of annealing on microstructure and mechanical properties of large dimensional bulk nanocrystalline FeAlCr alloy prepared by aluminothermic reaction. <b>2013</b> , 582, 1-7	4
1494	Double-peak age strengthening of cold-worked 2024 aluminum alloy. <b>2013</b> , 61, 1624-1638	82
1493	Evolution of lattice defects, disordered/ordered phase transformations and mechanical properties in NiAlTi intermetallics by high-pressure torsion. <b>2013</b> , 563, 221-228	18
1492	Nanostructured high-strength molybdenum alloys with unprecedented tensile ductility. <b>2013</b> , 12, 344-50	549
1491	Work hardening in ultrafine-grained titanium: Multilayering and grading. <b>2013</b> , 61, 2840-2852	35
1490	Grain refinement effect on cryogenic tensile ductility in a FeMn $\alpha$ twinning-induced plasticity steel. <b>2013</b> , 49, 234-241	47
1489	High-strength and thermally stable bulk nanolayered composites due to twin-induced interfaces. <b>2013</b> , 4, 1696	238
1488	Effect of severe plastic deformation on creep behaviour of a TiBAl $\alpha$ V alloy. <b>2013</b> , 48, 4789-4795	28
1487	Mechanical behavior of microstructure engineered multi-length-scale titanium over a wide range of strain rates. <b>2013</b> , 61, 3781-3798	33
1486	Biaxial Deformation Behavior and Enhanced Formability of Ultrafine-Grained Pure Copper. <b>2013</b> , 44, 2399-2408	18
1485	Constitutive Modeling of the Mechanical Properties of V-added Medium Manganese TRIP Steel. <b>2013</b> , 44, 3136-3146	73



1484	Novel high-strength NiCuCoTiTa alloy with plasticity. <b>2013</b> , 15, 1	14
1483	A Comparison of Low Cycle Fatigue Behaviour of UFG Al Produced by Different Rolling Techniques. <b>2013</b> , 413-419	
1482	Shear bands in metallic glasses. <b>2013</b> , 74, 71-132	1018
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1478	Mechanical characterization of mechanically alloyed ultrafine-grained Ti5Si3+40vol% $\beta$ TiAl composites. <b>2013</b> , 579, 18-25	8
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1474	Grain size effect on deformation twinning and detwinning. <b>2013</b> , 48, 4467-4475	104
1473	An improved atomistic simulation based mixed-mode cohesive zone law considering non-planar crack growth. <b>2013</b> , 50, 3346-3360	22
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1469	Effect of deposition rate on the microstructure of electron beam evaporated nanocrystalline palladium thin films. <b>2013</b> , 539, 145-150	19
1468	Simulation on the deformation behaviors of nanotwinned Cu considering the angle effect between loading axis and twin boundary. <b>2013</b> , 77, 322-329	7
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1464	A theoretical study of the structure-property relations in ultra-fine metallic materials with fractal microstructures. <b>2013</b> , 559, 543-548	2
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1460	Tough ultrafine-grained Ti through multilayering and grading. <b>2013</b> , 68, 309-312	5
1459	Microstructures and impact toughness behavior of Al 5083 alloy processed by cryorolling and afterwards annealing. <b>2013</b> , 20, 759-769	45
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1437	Formation and Mechanical Properties of Bimodal Microstructures in 0.2% Carbon Steel by Heavy-Reduction Hot Compression. <b>2013</b> , 3297-3302	
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1433	Harmonic structure formation and deformation behavior in a (F) two phase stainless steel. <b>2014</b> , 63, 012027	2
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1414	Microstructures and tensile properties of 304 steel with dual nanocrystalline and microcrystalline austenite content prepared by aluminothermic reaction casting. <b>2014</b> , 94, 478-486	9
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1398	Numerical investigation of fracture behavior of nanostructured Cu with bimodal grain size distribution. <b>2014</b> , 225, 1093-1106	18
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1396	Comparison Between Different Processing Schedules for the Development of Ultrafine-Grained Dual-Phase Steel. <b>2014</b> , 45, 2466-2479	12
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1393	Copper nanoparticles on bleached cotton fabric: in situ synthesis and characterization. <b>2014</b> , 21, 2119-2132	60
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1365	Simultaneous improvement of tensile strength and ductility in micro-duplex structure consisting of austenite and ferrite. <b>2014</b> , 618, 563-571	17
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1360	Microstructure features and mechanical properties of a UFG Al-Mg-Si alloy produced via SPD. <b>2014</b> , 63, 012116	2
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1358	Gradient nanostructure and residual stresses induced by Ultrasonic Nano-crystal Surface Modification in 304 austenitic stainless steel for high strength and high ductility. <b>2014</b> , 613, 274-288	192
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1344	Texture and microstructure evolution during non-crystallographic shear banding in a plane strain compressed CuAg metal matrix composite. <b>2014</b> , 76, 238-251	25
1343	Producing laminated NiAl with bimodal distribution of grain size by solid-liquid reaction treatment. <b>2014</b> , 590, 318-322	22
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1341	Nano crystalline high energy milled 5083 Al powder deposited using cold spray. <b>2014</b> , 305, 797-804	28



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1339	Influence of slip and twinning on the crystallographic stability of bimetal interfaces in nanocomposites under deformation. <b>2014</b> , 72, 137-147	32
1338	Hierarchical ultrafine-grained network mediated high strength and large plasticity in an Al-based alloy. <b>2014</b> , 124, 28-31	10
1337	Improving the tensile ductility and uniform elongation of high-strength ultrafine-grained Al alloys by lowering the grain boundary misorientation angle. <b>2014</b> , 78-79, 25-28	61
1336	Effect of Post Cryorolling Treatments on Microstructural and Mechanical Behaviour of Ultrafine Grained AlMgSi Alloy. <b>2014</b> , 30, 998-1005	18
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1332	Ultrahigh dense and gradient nano-precipitates generated by warm laser shock peening for combination of high strength and ductility. <b>2014</b> , 609, 195-203	64
1331	Mechanical behavior and tensile/compressive strength asymmetry of ultrafine structured TiNbNiCoAl alloys with bi-modal grain size distribution. <b>2014</b> , 62, 14-20	21
1330	The effects of multi-cyclic thermo-mechanical treatment on the grain refinement and tensile properties of a metastable austenitic steel. <b>2014</b> , 583, 357-360	17
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1149	Alternative Fabrication Routes toward Oxide-Dispersion-Strengthened Steels and Model Alloys. <b>2016</b> , 47, 5313-5324	25
1148	Initial texture effects on the thermal stability and grain growth behavior of nanocrystalline Ni thin films. <b>2016</b> , 675, 110-119	13
1147	Mechanical properties and fracture mechanisms of ultrafine grained Cu-9.6% Zn alloy processed by multiaxial cryoforging. <b>2016</b> , 675, 403-414	23
1146	Deformation and damage mechanisms of a bimodal 12Cr-ODS steel under high-temperature cyclic loading. <b>2016</b> , 93, 1-17	12
1145	Enhanced mechanical properties of pure copper with a mixture microstructure of nanocrystalline and ultrafine grains. <b>2016</b> , 185, 546-549	13
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1141	Outstanding mechanical properties of high-pressure torsion processed multiscale TWIP-cored three layer steel sheet. <b>2016</b> , 123, 122-125	16
1140	Stabilization of nanocrystalline alloys at high temperatures via utilizing high-entropy grain boundary complexions. <b>2016</b> , 124, 160-163	67
1139	High strength and high ductility copper obtained by topologically controlled planar heterogeneous structures. <b>2016</b> , 124, 103-107	26
1138	Deformation-Induced Martensite: A New Paradigm for Exceptional Steels. <b>2016</b> , 28, 7753-7	48
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1135	Bulk Ultrafine-Grained Interstitial-Free Steel Processed by Equal-Channel Angular Pressing Followed by Flash Annealing. <b>2016</b> , 25, 5157-5166	10
1134	Manipulating the interfacial structure of nanomaterials to achieve a unique combination of strength and ductility. <b>2016</b> , 7, 10802	146
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1132	Increasing strength and conductivity of Cu alloy through abnormal plastic deformation of an intermetallic compound. <b>2016</b> , 6, 30907	28
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1129	Enhanced intergranular corrosion resistance and tensile strength in 304 stainless steel with dispersed nanocrystallines in microcrystalline austenite. <b>2016</b> , 31, 1691-1701	4
1128	Microstructural and tensile behavior of Fe-36%Ni alloy after cryorolling and subsequent annealing. <b>2016</b> , 670, 275-279	19
1127	Harmonic structure design of Ti-6Al-4V alloy by High-pressure gas milling process. <b>2016</b> , 2, 192-201	1
1126	The saturation state of strength and ductility of bimodal nanostructured metals. <b>2016</b> , 175, 131-134	14
1125	Mechanical Properties and Microstructural Evolution in Al 2014 Alloy Processed Through Multidirectional Cryoforging. <b>2016</b> , 25, 3031-3045	38

1124	Strength and ductility of gradient structured copper obtained by surface mechanical attrition treatment. <b>2016</b> , 105, 89-95	74
1123	Simultaneous Grain Growth and Grain Refinement in Bulk Ultrafine-Grained Copper under Tensile Deformation at Room Temperature. <b>2016</b> , 47, 3785-3789	13
1122	A comparative study on the microstructure and mechanical behavior of titanium: Ultrafine grain vs. coarse grain. <b>2016</b> , 669, 226-245	40
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1118	Controlling strength and ductility: Dislocation-based model of necking instability and its verification for ultrafine grain 316L steel. <b>2016</b> , 106, 295-303	45
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1103	Effect of cold rolling on recrystallization and tensile behavior of a high-Mn steel. <b>2016</b> , 112, 180-187	61
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1082	Material properties and failure prediction of ultrafine grained materials with bimodal grain size distribution. <b>2017</b> , 33, 125-136	7
1081	Microstructure and Mechanical Properties of Ultrafine-Grained Interstitial-Free Steel Processed by ECAP. <b>2017</b> , 70, 917-926	7
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1077	Low temperature carbonization of cellulose nanocrystals for high performance carbon anode of sodium-ion batteries. <b>2017</b> , 33, 37-44	130
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1072	Microstructures-based constitutive analysis for mechanical properties of gradient-nanostructured 304 stainless steels. <b>2017</b> , 128, 375-390	60
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1068	Intrinsic fracture toughness of bulk nanostructured Cu with nanoscale deformation twins. <b>2017</b> , 133, 1-4	17
1067	Effect of bimodal grain size distribution on fatigue properties of Ti-6Al-4V alloy with harmonic structure under four-point bending. <b>2017</b> , 687, 269-275	26
1066	Tailoring Microstructure and Tribological Properties of Cold Deformed TiZrAlV Alloy by Thermal Treatment. <b>2017</b> , 30, 493-498	4
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1063	Effect of deformation temperature on precipitation, microstructural evolution, mechanical and corrosion behavior of 6082 Al alloy. <b>2017</b> , 27, 475-492	28
1062	Mechanical properties and microstructure of ultrafine grained commercial purity aluminium prepared by cryo-hydrostatic extrusion. <b>2017</b> , 695, 178-192	12
1061	Effect of abnormal grain growth on microstructure and mechanical properties of friction stir welded SPCC steel plates. <b>2017</b> , 694, 81-92	15
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645	Microstructure and mechanical properties of Al <sub>3</sub> Mg <sub>2</sub> Sc alloy sheets produced by cryorolling. <b>2019</b> , 740-741, 49-62	19
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640	Microstructure control of cold-sprayed pure iron coatings formed using mechanically milled powder. <b>2019</b> , 357, 129-139	9
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618	Deformation mechanisms and strain rate sensitivity of bimodal and ultrafine-grained copper. <b>2020</b> , 186, 363-373	18
617	Microstructure refinement for superior ductility of AlSi alloy by electron beam melting. <b>2020</b> , 32, 100982	11
616	Microstructure stability and tensile properties of Cu-3Ag-1Zr alloy fabricated by rapid solidification and cold rolling. <b>2020</b> , 160, 110091	3
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608	Multimodal grain structure and tensile properties of cold-rolled titanium after short-duration annealing. <b>2020</b> , 160, 110095	6
607	Effects of cold rolling and low-temperature annealing on microstructure and mechanical properties of rapidly solidified CuAg-0.5Zr alloy. <b>2020</b> , 773, 138829	2
606	A Unique Bimodal Microstructure Induced by Ultrafine Inclusions to Improve Mechanical Properties of Low-Carbon Steels Produced by Twin-Roll Casting. <b>2020</b> , 91, 1900471	
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584	Dislocation-grain boundary interaction in metallic materials: Competition between dislocation transmission and dislocation source activation. <b>2020</b> , 145, 104158	12
583	Novel approach for the development of tailored heterogenous structures in steel. <b>2020</b> , 13, 100831	1
582	Investigation on the Durability of Ti-6Al-4V Alloy Designed in a Harmonic Structure via Powder Metallurgy: Fatigue Behavior and Specimen Size Parameter Issue. <b>2020</b> , 10, 636	3
581	Size-dependent formation and thermal stability of high-order twins in hierarchical nanotwinned metals. <b>2020</b> , 128, 102685	12
580	Friction and wear behavior of nano/ultrafine-grained and heterogeneous ultrafine-grained 18Cr8Ni austenitic stainless steels. <b>2020</b> , 152, 106520	8
579	Mechanical Properties of Ultrafine-Grained Aluminum in the Temperature Range 4.2B00 K. <b>2020</b> , 62, 1048-1055	1
578	Superconducting Cu/Nb nanolaminate by coded accumulative roll bonding and its helium damage characteristics. <b>2020</b> , 197, 212-223	16
577	Grain coarsening of nano laminated structure in martensite steel under sliding wear. <b>2020</b> , 151, 106381	4
576	Strategies to Achieve High Strength and Ductility of Pulsed Electrodeposited Nanocrystalline Co-Cu by Tuning the Deposition Parameters. <b>2020</b> , 25,	1
575	Improvement of flow strength and scratch resistance of Ti/Cu nanocrystalline metal multilayer thin films by tailoring layer thickness and modulation ratio. <b>2020</b> , 404, 126461	3
574	Stress-strain partitioning behavior and mechanical properties of dual-phase steel using finite element analysis. <b>2020</b> , 25, 101658	6
573	Microstructure and Mechanical Properties of Ultrafine-Grained Copper by Accumulative Roll Bonding and Subsequent Annealing. <b>2020</b> , 13,	4
572	Twin boundary-dislocation interactions in nanocrystalline Cu-30% Zn alloys prepared by high pressure torsion. <b>2020</b> , 9, 11958-11967	4
571	The Effect of a Composite Nanostructure on the Mechanical Properties of a Novel Al-Cu-Mn Alloy through Multipass Cold Rolling and Aging. <b>2020</b> , 10, 8109	1
570	Harmonic Structure Design: A Strategy for Outstanding Mechanical Properties in Structural Materials. <b>2020</b> , 10, 1615	6
569	Ultrahigh strength and ductility in newly developed materials with coherent nanolamellar architectures. <b>2020</b> , 11, 6240	59
568	Significant transitions of mechanical properties by changing temperature in Cu-Al alloys with heterogeneous microstructures. <b>2020</b> , 168, 110546	0
567	Evolution of microstructures and mechanical properties of ultrahigh strength, pure electrodeposited Cu during self-annealing. <b>2020</b> , 846, 156488	1

566	Improving the mechanical strength of ternary beta titanium alloy (Ti-Ta-Sn) foams, using a bimodal microstructure. <b>2020</b> , 195, 108945	3
565	Grain boundaries dependence of plastic deformation in nanocrystalline Cu film investigated by phase field and molecular dynamics methods. <b>2020</b> , 254, 123506	4
564	Multiscale analysis of mechanical behavior of multilayer steel structures fabricated by wire and arc additive manufacturing. <b>2020</b> , 21, 461-470	5
563	A preliminary study of oxides of Fe doped with Ba, Co, Cu and synthesized by the citrate sol-gel combustion route. <b>2020</b> , 1541, 012013	1
562	Study of Surface Layer Hardening after Treatment Complex Tool. <b>2020</b> , 303, 89-96	
561	Multistage work hardening assisted by multi-type twinning in ultrafine-grained heterostructural eutectic high-entropy alloys. <b>2020</b> , 41, 62-71	61
560	Deformation analysis of Al Alloy AA2024 through equal channel angular pressing for aircraft structures. <b>2020</b> , 1-15	5
559	Novel precipitation and enhanced tensile properties in selective laser melted Cu-Sn alloy. <b>2020</b> , 13, 100861	8
558	Facile manufacturing of bimodal grained copper with nanoparticles. <b>2020</b> , 281, 128606	2
557	Granular Carbides-Assisted Ultrafine-Ferrite Fabrication in the Pearlitic Steel Without Severe Plastic Deformation and Annealing. <b>2020</b> , 33, 1645-1656	2
556	Athermal strength of pure aluminum is significantly decreased by severe plastic deformation and it is markedly augmented by subsequent annealing. <b>2020</b> , 10, 14090	1
555	The Effect of Microstructure Morphology on Indentation Response of Ta/Ti Nanocomposite Thin Films. <b>2020</b> , 51, 5677-5690	2
554	Heterogeneous solute segregation suppresses strain localization in nanocrystalline Ag-Ni alloys. <b>2020</b> , 200, 91-100	5
553	Heterogeneous Microstructure of Low-Carbon Microalloyed Steel and Mechanical Properties. <b>2020</b> , 29, 7045-7051	3
552	Influence of Silica Rich CRT and BN on Mechanical, Wear and Corrosion Characteristics of Copper-Surface Composite Processed Through Friction Stir Processing. <b>2020</b> , 13, 3431	2
551	Lightweight, tough, and sustainable cellulose nanofiber-derived bulk structural materials with low thermal expansion coefficient. <b>2020</b> , 6, eaaz1114	88
550	Bimodal microstructure dispersed with nanosized precipitates makes strong aluminum alloy with large ductility. <b>2020</b> , 191, 108695	5
549	Making ultrastrong steel tough by grain-boundary delamination. <b>2020</b> , 368, 1347-1352	73

548	Effect of rolling temperatures on mechanical and fracture behavior of AA 3003 alloy and pure Cu. <b>2020</b> , 2, 1	2
547	Local softening behavior accompanied by dislocation multiplication accelerates the failure of Ti <sub>0.8</sub> Al <sub>0.2</sub> Sn <sub>0.2</sub> Zr <sub>0.2</sub> Mo <sub>0.1</sub> Si alloy under dwell fatigue load. <b>2020</b> , 186, 33-38	6
546	Microstructural characteristics of AZ31 alloys rolled at room and cryogenic temperatures and their variation during annealing. <b>2020</b> , 8, 537-545	5
545	Strong and plastic metallic composites with nanolayered architectures. <b>2020</b> , 195, 240-251	13
544	A superior strength-ductility combination in gradient structured Cu <sub>3</sub> Al <sub>2</sub> Ni alloys with proper stacking fault energy and processing time. <b>2020</b> , 789, 139619	5
543	In-situ Fe <sub>2</sub> P reinforced bulk Cu <sub>3</sub> Be immiscible alloy with nanotwinned Cu produced by selective laser melting. <b>2020</b> , 838, 155592	9
542	Improved mechanical property of nanolaminated graphene (reduced graphene oxide)/Al <sub>0.5</sub> Mg <sub>0.5</sub> Si composite rendered by facilitated ageing process. <b>2020</b> , 787, 139541	12
541	An additively manufactured AlCuMnZr alloy microstructure and tensile mechanical properties. <b>2020</b> , 12, 100758	9
540	High-strength and high-ductility AlCoCrFeNi <sub>2.1</sub> eutectic high-entropy alloy achieved via precipitation strengthening in a heterogeneous structure. <b>2020</b> , 186, 336-340	59
539	Effect of Grain Size on Superplastic Deformation of Metallic Materials. <b>2020</b> ,	0
538	Effects of grain and twin boundary on friction and contact characteristics of CuZrAl nanocrystallines. <b>2020</b> , 524, 146458	14
537	Ductility and strain hardening in gradient and lamellar structured materials. <b>2020</b> , 186, 321-325	47
536	A strong and ductile medium-entropy alloy resists hydrogen embrittlement and corrosion. <b>2020</b> , 11, 3081	46
535	Microstructure Evolution and Mechanical Stability of Supersaturated Solid Solution Co-Rich Nanocrystalline Co-Cu Produced by Pulsed Electrodeposition. <b>2020</b> , 13,	1
534	Enhancement of Impact Toughness Via Tailoring Deformation Compatibility of Constituent Phases in Duplex Q&P Steel with Excellent Strength and Ductility. <b>2020</b> , 51, 2097-2117	10
533	Microstructure, Element Distribution, and Mechanical Property of Cu <sub>9</sub> Ni <sub>6</sub> Sn Alloys by Conventional Casting and Twin-Roll Casting. <b>2020</b> , 51, 1469-1474	2
532	Critical microstructures and defects in heterostructured materials and their effects on mechanical properties. <b>2020</b> , 189, 129-144	63
531	Development of single phase bimodal microstructure in bulk ultrafine-grained low carbon steel. <b>2020</b> , 26, 1514-1519	1

530	A new method for the preparation of transparent Y2O3 nanocrystalline ceramic with an average grain size of 20nm. <b>2020</b> , 182, 57-61	3
529	Influence of nanotwins on hydrogen embrittlement of TWIP (twinning-induced plasticity) steel processed by high-pressure torsion. <b>2020</b> , 783, 139273	4
528	Microstructure-Property Relations in the Tensile Behavior of Bimodal Nanostructured Metals. <b>2020</b> , 22, 2000097	4
527	Single-crystalline-like stainless steel 316L with different geometries fabricated by laser powder bed fusion. <b>2020</b> , 5, 41-49	8
526	Simultaneous Electrodeposition of Silver and Tungsten from [EMIm]Cl:AlCl3 Ionic Liquids outside the Glove Box. <b>2020</b> , 10, 553	1
525	Ultra-high hardness with exceptional thermal stability of a nanocrystalline CoCrFeNiMn high-entropy alloy prepared by inert gas condensation. <b>2020</b> , 187, 335-339	28
524	Achieving high ductility in layered carbon nanotube/copper composite prepared by composite electrodeposition. <b>2020</b> , 108, 107992	3
523	Concurrently improving uniform elongation and strength of ultrafine-grained AlLi alloy. <b>2020</b> , 792, 139848	7
522	High-entropy alloys with heterogeneous microstructure: Processing and mechanical properties. <b>2020</b> , 100709	78
521	Mechanical properties of the solution treated and quenched AlCuTi alloy (AA2195) sheet during high strain rate deformation at room temperature. <b>2020</b> , 793, 139880	5
520	Effect of rolling deformation on microstructure and mechanical properties of 2205 duplex stainless steel with micro-nano structure. <b>2020</b> , 34, 2050269	1
519	Microstructure and Mechanical Properties of 5052 Al Alloy by Cryogenic Rolling. <b>2020</b> , 993, 86-91	0
518	Overcoming mechanical fragility in Sm-Co permanent magnet materials. <b>2020</b> , 196, 528-538	6
517	Exceptional tensile properties under cryogenic temperature in heterogeneous laminates induced by non-uniform martensite transformation and strain delocalization. <b>2020</b> , 791, 139780	6
516	Tuning heterostructures with powder metallurgy for high synergistic strengthening and hetero-deformation induced hardening. <b>2020</b> , 777, 139074	9
515	A New Ultra-High-Strength AB83 Alloy by Combining Extrusion and Caliber Rolling. <b>2020</b> , 13,	0
514	Tailoring strength-ductility balance of caliber-rolled AZ31 Mg alloy through subsequent annealing. <b>2020</b> , 8, 163-171	20
513	Energy storage oscillation of metallic glass induced by high-intensity elastic stimulation. <b>2020</b> , 116, 081901	7

512	Critical Assesment 37: Harmonic-structure materials - idea, status and perspectives. <b>2020</b> , 36, 517-526	12
511	Effects of Q&T parameters on phase transformation, microstructure, precipitation and mechanical properties in a PS-30Cr2Nb pipeline steel. <b>2020</b> , 7, 016536	1
510	Low-temperature annealing behavior and tensile properties of the rapidly solidified Cu3Ag0.5Zr0.4Cr0.35Nb alloy reinforced by cold rolling. <b>2020</b> , 828, 154371	
509	Strategy for managing both high strength and large ductility in structural materials—Sequential nucleation of different deformation modes based on a concept of plaston. <b>2020</b> , 181, 35-42	27
508	Crossover from Deformation Twinning to Lattice Dislocation Slip in Metal/Graphene Composites with Bimodal Structures. <b>2020</b> , 10, 47	
507	Metallic glass instability induced by the continuous dislocation absorption at an amorphous/crystalline interface. <b>2020</b> , 189, 10-24	11
506	Design and analysis of additive manufactured bimodal structures obtained by cold spray deposition. <b>2020</b> , 33, 101131	10
505	Effect of heterostructure and hetero-deformation induced hardening on the strength and ductility of brass. <b>2020</b> , 186, 644-655	56
504	Microstructure evolution and high density of nanotwinned ultrafine Si in hypereutectic Al-Si alloy by laser surface remelting. <b>2020</b> , 161, 110147	11
503	The Strongest Size in Gradient Nanograined Metals. <b>2020</b> , 20, 1440-1446	20
502	Exploring the Hall-Petch relation and strengthening mechanism of bimodal-grained MgAlZn alloys. <b>2020</b> , 833, 155004	23
501	Microstructure and tensile behavior of nanostructured gradient TWIP steel. <b>2020</b> , 785, 139346	7
500	An overview of tailoring strain delocalization for strength-ductility synergy. <b>2020</b> , 113, 100675	93
499	Towards homogeneous distribution of coarse grain in a tri-modal Al-based composites utilizing localized grain growth. <b>2020</b> , 366, 107-111	5
498	Heterogeneous precipitation mediated heterogeneous nanostructure enhances strength-ductility synergy in severely cryo-rolled and annealed CoCrFeNiNb high entropy alloy. <b>2020</b> , 10, 6056	19
497	Balancing strength and plasticity of dual-phase amorphous/crystalline nanostructured Mg alloys. <b>2020</b> , 29, 066201	3
496	Termination of local strain concentration led to better tensile ductility in multilayered 2N/4N Al sheet. <b>2020</b> , 782, 139240	6
495	Enhanced strength and ductility synergy in aluminum composite with heterogeneous structure. <b>2020</b> , 787, 139431	8

494	Effects of Cyclic Heat Treatment on Microstructure and Mechanical Properties of 13%Cr-4%Ni Martensitic Stainless Steel. <b>2020</b> , 29, 2478-2490	8
493	In vitro and in vivo studies on pure Mg, Mg $\square$ Ca and Mg $\square$ Sr alloys processed by equal channel angular pressing. <b>2020</b> , 2, 96-108	8
492	Deformation of Healed Rock Joints Under Tension: Experimental Study and Empirical Model. <b>2020</b> , 53, 3353-3362	7
491	Atomic electron tomography in three and four dimensions. <b>2020</b> , 45, 290-297	16
490	Effect of Multi-Pass Caliber Rolling on Dilute Extruded Mg-Bi-Ca Alloy. <b>2020</b> , 10, 332	0
489	Alloy design strategies to increase strength and its trade-offs together. <b>2021</b> , 117, 100720	29
488	A modified kinematic hardening model considering hetero-deformation induced hardening for bimodal structure based on crystal plasticity. <b>2021</b> , 191, 106068	6
487	Strengthening the bimodal-grained powder metallurgy ferritic steels with Cu addition by aging hardening. <b>2021</b> , 800, 140312	3
486	Heterostructured materials: superior properties from hetero-zone interaction. <b>2021</b> , 9, 1-31	160
485	Heterogeneous magnesium matrix nanocomposites with high bending strength and fracture toughness. <b>2021</b> , 855, 157359	3
484	Simultaneously enhanced strength and strain hardening capacity in FeMnCoCr high-entropy alloy via harmonic structure design. <b>2021</b> , 191, 196-201	29
483	Investigating the compressive strength and strain localization of nanotwinned nickel alloys. <b>2021</b> , 204, 116507	4
482	On the low-cycle fatigue response of CoCrNiFeMn high entropy alloy with ultra-fine grain structure. <b>2021</b> , 205, 116540	24
481	Breakthrough the strength-ductility trade-off in a high-entropy alloy at room temperature via cold rolling and annealing. <b>2021</b> , 800, 140264	12
480	Bimodal-grained high-strength nickel-base ODS alloy fabricated by mechanical alloying and hot extrusion. <b>2021</b> , 26, 101921	5
479	Nanograin formation in dimple ridges due to local severe-plastic-deformation during ductile fracture. <b>2021</b> , 194, 113631	2
478	Overcoming the strength-ductility trade-off of an aluminum matrix composite by novel core-shell structured reinforcing particulates. <b>2021</b> , 206, 108541	21
477	Strong resistance to hydrogen embrittlement via surface shielding in multi-layered austenite/martensite steel sheets. <b>2021</b> , 800, 140319	1



476	Additive manufacturing of isotropic-grained, high-strength and high-ductility copper alloys. <b>2021</b> , 38, 101751	4
475	Microstructure and Mechanical Properties of Powder Metallurgical TiAl-Based Alloy Made by Micron Bimodal-Sized Powders. <b>2021</b> , 30, 269-280	1
474	A practical model for efficient anti-fatigue design and selection of metallic materials: II. Parameter analysis and fatigue strength improvement. <b>2021</b> , 70, 250-267	6
473	Regenerated isotropic wood. <b>2021</b> , 8, nwaa230	16
472	A practical model for efficient anti-fatigue design and selection of metallic materials: I. Model building and fatigue strength prediction. <b>2021</b> , 70, 233-249	7
471	Realizing Structural Metallic Materials with Both High Strength and Large Ductility through Nucleation Control of Different Deformation Modes. <b>2021</b> , 60, 8-12	0
470	Effect of Bimodal Grain Size Distribution on the Strain Hardening Behavior of a Medium-Entropy Alloy. <b>2021</b> , 34, 465-475	1
469	Revealing grain coarsening and detwinning in bimodal Cu under tension. <b>2021</b> , 60, 15-24	0
468	Self-toughened high entropy alloy with a body-centred cubic structure. <b>2021</b> , 13, 3602-3612	3
467	Ultra-high tensile strength via precipitates and enhanced martensite transformation in a FeNiAlC alloy. <b>2021</b> , 803, 140498	1
466	Microstructure and mechanical properties of bimetallic copper/brass laminates fabricated via accumulative press bonding. <b>2021</b> , 803, 140710	2
465	Effect of cryogenic heat treatment & ageing on ultra fine grained aluminium-lithium alloy- A review. <b>2021</b> , 45, 338-348	1
464	Plastic accommodation during tensile deformation of gradient structure. <b>2021</b> , 64, 1534-1544	9
463	Investigation on mechanical properties of aluminium lithium alloy through rolling. <b>2021</b> , 45, 392-398	1
462	Equal channel angular processing—modern deforming technique for quality products. <b>2021</b> , 381-423	
461	Deformation in Nanomaterials. <b>2021</b> , 83-180	
460	Imaging Dislocation Cores in Severe Plastically Deformed Nanocrystalline CP-Ti Alloy Through Geometrical Phase Analysis of Spherical Aberration-Corrected HRTEM Images. <b>2021</b> , 65-75	0
459	A Study on the Phase Formation and Magnetic Properties of FeNiCoCuM (M = Mo, Nb) High-Entropy Alloys Processed Through Powder Metallurgy. <b>2021</b> , 52, 1044-1058	2

458	Microstructure evolution and tensile properties of as-rolled TiB/TA15 composites with network microstructure. <b>2021</b> , 804, 140783	12
457	Effect of Processing Parameters on Mechanical Properties of Deformed and Partitioned (D&P) Medium Mn Steels. <b>2021</b> , 11, 356	1
456	A comprehensive review of aluminium matrix composite reinforcement and fabrication methodologies. <b>2021</b> , 3, 015007	1
455	Enhancing mechanical properties of consolidated nanocrystalline copper powder by means of equal channel angular pressing method. <b>2021</b> , 56, 531-538	0
454	Constitutive modeling of size-dependent deformation behavior in nano-dual-phase glass-crystal alloys. <b>2021</b> , 137, 102918	3
453	Achieving single-pass high-reduction rolling and enhanced mechanical properties of AZ91 alloy by RD-ECAP pre-processing. <b>2021</b> , 804, 140717	7
452	Celluloses as support materials for antibacterial agents: a review. <b>2021</b> , 28, 2715-2761	8
451	Grain-size gradient structure by abnormal grain growth. <b>2021</b> , 11, 62-69	0
450	Effect of Annealing Time on Microstructure Stability and Mechanical Behavior of Ferrite-Cementite Steel with Multiscale Lamellar Structure. <b>2021</b> , 52, 1023-1033	2
449	Breaking Material Property Trade-offs via Macrodesign of Microstructure. <b>2021</b> , 21, 3191-3197	9
448	Microstructure-Electron work function relationship: A crucial step towards Electronic metallurgy <b>2021</b> , 26, 101977	1
447	Enhancing Interfacial Contact in Solid-State Batteries with a Gradient Composite Solid Electrolyte. <b>2021</b> , 17, e2006578	8
446	Initiation of fatigue damage in ultrafine grained metal films. <b>2021</b> , 206, 116599	4
445	Processing of bulk nanolamellar tantalum and justification of strengthening by grain boundary pre-stressed model. <b>2021</b> , 138, 102939	2
444	Influence of heterogeneous microstructures on the mechanical properties of low-temperature friction stir processed AZ91D Mg alloy. <b>2021</b> , 809, 141004	7
443	Fabrication of high strength carbon nanotube/7055Al composite by powder metallurgy combined with subsequent hot extrusion. <b>2021</b> , 64, 1081-1091	1
442	Altering the surface wettability of copper sheet using overlapping laser shock imprinting. <b>2021</b> , 543, 148736	5
441	Development of High Performance of Al Alloys via Cryo-Forming: A Review. <b>2021</b> , 23, 2001533	10

440	Optimizing the strength and ductility of CuAl alloy by an ideal grain structure. <b>2021</b> , 807, 140906	1
439	Line profile analysis of synchrotron X-ray diffraction data of iron powder with bimodal microstructural profile parameters. <b>2021</b> , 54, 498-512	1
438	Experimental and modelling assessment of ductility in a precipitation hardening AlMgScZr alloy. <b>2021</b> , 139, 102971	11
437	Multi-heterostructure and mechanical properties of N-doped FeMnCoCr high entropy alloy. <b>2021</b> , 139, 102965	19
436	Strengthening and toughening strategies of weld metal for in-situ nanoparticle reinforced tin bronze alloy. <b>2021</b> , 26, 309-315	0
435	Insight to the evolution of nano precipitates by cryo rolling plus warm rolling and their effect on mechanical properties in Al 6061 alloy. <b>2021</b> , 811, 141072	1
434	Excellent wear resistance of multicomponent nanocrystalline W-Cu based composite. <b>2021</b> , 861, 158627	9
433	Architected multi-metal CoCrFeMnNi-Inconel 718 lamellar composite by high-pressure torsion. <b>2021</b> , 195, 113722	12
432	Friction stir engineering for fabrication of ultra-refined CuNiMgZn alloys. <b>2021</b> , 291, 129596	2
431	Influence of Texture on the Mechanical Properties of a Mg-6Al-1Zn-0.9Sn Alloy Processed by ECAP. <b>2021</b> , 14,	2
430	On Novel Copper Based Alloys Development via Friction Stir Alloying. <b>2021</b> , 11, 498	2
429	Laser powder bed fusion of high-strength Sc/Zr-modified AlMg alloy: phase selection, microstructural/mechanical heterogeneity, and tensile deformation behavior. <b>2021</b> , 95, 40-40	12
428	Enhanced electrical conductivity and mechanical properties in thermally stable fine-grained copper wire. <b>2021</b> , 2,	15
427	Recovery of Ductility in Ultrafine-Grained Low Carbon Steel Processed by Electropulsing. <b>2021</b> , 52, 2992	2
426	Highly pressurized helium nanobubbles promote stacking-fault-mediated deformation in FeNiCoCr high-entropy alloy. <b>2021</b> , 210, 116843	9
425	Inhibiting the detrimental Cu protrusion in Cu through-silicon-via by highly (111)-oriented nanotwinned Cu. <b>2021</b> , 197, 113782	3
424	In situ thermomechanical processing to avoid grain boundary precipitation and strength-ductility loss of age hardening alloys. <b>2021</b> , 31, 1205-1216	2
423	In situ correlation between metastable phase-transformation mechanism and kinetics in a metallic glass. <b>2021</b> , 12, 2839	7

4 <sup>22</sup>	A micromechanical model for heterogeneous nanograined metals with shape effect of inclusions and geometrically necessary dislocation pileups at the domain boundary. <b>2021</b> , 144, 103024	4
4 <sup>21</sup>	3D FEM simulation on Deformation and Strain analysis for grain refinement of Mg Alloy passed through ECAP. <b>2021</b> , 1149, 012024	1
4 <sup>20</sup>	Stepwise Microstructure Development and Investigation of Mechanical Behavior of Pure Mo, Mo-Ni, and Nano-Y <sub>2</sub> O <sub>3</sub> -Dispersed Mo-Ni Alloys Fabricated by Mechanical Alloying and Pressureless Sintering. <b>2021</b> , 30, 6039-6048	
4 <sup>19</sup>	A novel dynamic technique to form reverse grain size gradient microstructure in pure copper. <b>2021</b> , 291, 129581	0
4 <sup>18</sup>	Temperature-dependent reversed fracture behavior of multilayered TiBw/Ti <sub>3</sub> Si(Al) composites. <b>2021</b> , 141, 102998	11
4 <sup>17</sup>	Revealing Nanoscale deformation mechanisms caused by shear-based material removal on individual grains of a Ni-based superalloy. <b>2021</b> , 212, 116929	3
4 <sup>16</sup>	Dynamic recrystallization of Silver nanocubes during high-velocity impacts. <b>2021</b> , 212, 116892	4
4 <sup>15</sup>	Lamellar-structured Al-based alloys with high strength and plasticity. <b>2021</b> , 865, 158927	1
4 <sup>14</sup>	Achieving high strength and ductility in a heterogeneous-grain-structured CrCoNi alloy processed by cryorolling and subsequent short-annealing. <b>2021</b> , 141610	5
4 <sup>13</sup>	Structure optimization for improving the strength and ductility of heterogeneous carbon nanotube/AlCuMg composites. <b>2021</b> , 178, 190-201	11
4 <sup>12</sup>	Strain hardening behavior, strain rate sensitivity and hot deformation maps of AISI 321 austenitic stainless steel. 1	1
4 <sup>11</sup>	Effect of De-Twinning on Tensile Strength of Nano-Twinned Cu Films. <b>2021</b> , 11,	1
4 <sup>10</sup>	Effect of stacking fault energy on deformation mechanisms in Cu and Cu-30% Zn alloy with gradient structure obtained by SMAT. <b>2021</b> , 865, 158863	7
4 <sup>09</sup>	Metal hybrids processed by high-pressure torsion: synthesis, microstructure, mechanical properties and developing trends. 1-35	2
4 <sup>08</sup>	Impact of scandium on mechanical properties, corrosion behavior, friction and wear performance, and cytotoxicity of a $\beta$ -type Ti-24Nb-38Zr-2Mo alloy for orthopedic applications. <b>2021</b> , 134, 791-803	6
4 <sup>07</sup>	Gradient plasticity in gradient nanocrystalline metals: Extra toughness from dislocation migration. <b>2021</b> , 158, 103879	3
4 <sup>06</sup>	In-situ TEM Cryoindentation of Nanocrystalline Copper. <b>2021</b> , 27, 1492-1493	
4 <sup>05</sup>	Corrosion behavior of AZ91 Mg alloy with a heterogeneous structure produced by ECAP. <b>2021</b> , 187, 109517	12

404	Enhanced strengthening and hardening via self-stabilized dislocation network in additively manufactured metals. <b>2021</b> , 50, 79-79	14
403	Twin-boundary assisted crack tip plasticity and toughening in lamellar $\text{TiAl}$ . <b>2021</b> , 213, 116924	10
402	Enhanced Thermal Stability of the Low-Carbon Ultrafine Grain Steel with Nanoprecipitates. 2100320	0
401	Achieving high strength and ductility in ODS-W alloy by employing oxide@W core-shell nanopowder as precursor. <b>2021</b> , 12, 5052	11
400	Bimodal Microstructure Design of CrMnFeCoNi High-Entropy Alloy Using Powder Metallurgy. <b>2021</b> , 70, 648-655	2
399	Microstructure and Mechanical Behavior of ARMCO Fe Severely Plastically Deformed by Combination of Constrained Groove Pressing and Cold Rolling. <b>2021</b> , 30, 8196	2
398	Tailoring the metastable reversed austenite from metastable Mn-rich carbides. <b>2021</b> , 214, 116986	5
397	Strategic Alliance Enables Fast-Track Engineering and Expedient Deployment of Novel Flowable Sensors & Water Reactive Nano-Composite Plugs in MENA. <b>2021</b> ,	
396	Investigation of the strengthening mechanism in 316L stainless steel produced with laser powder bed fusion. <b>2021</b> , 822, 141699	4
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