Nobuhiro Tsuji

List of Publications by Year in Descending Order

459 papers	19,036 citations	66 h-index	129 g-index
482 ext. papers	21,632 ext. citations	3 avg, IF	7 L-index

#	Paper	IF	Citations
459	Evolution of microstructure and mechanical properties during annealing of heavily rolled AlCoCrFeNi2.1 eutectic high-entropy alloy. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2022**, 833, 142558	5.3	0
458	Proposing the Concept of Plaston and Strategy to Manage Both High Strength and Large Ductility in Advanced Structural Materials, on the Basis of Unique Mechanical Properties of Bulk Nanostructured Metals **2022**, 3-34		1
457	Significant Bauschinger effect and back stress strengthening in an ultrafine grained pure aluminum fabricated by severe plastic deformation process. *Scripta Materialia*, **2022**, 211, 114503	5.6	3
456	Mechanisms of remarkable wear reduction and evolutions of subsurface microstructure and nano-mechanical properties during dry sliding of nano-grained Ti6Al4V alloy: A comparative study. *Tribology International*, **2022**, 169, 107464	4.9	1
455	Effective grain size refinement of an Fe-24Ni-0.3C metastable austenitic steel by a modified two-step cold rolling and annealing process utilizing the deformation-induced martensitic transformation and its reverse transformation. *Journal of Materials Research and Technology*, **2022**, 17, 2690-2699	5.5	1
454	Effect of hydrogen on evolution of deformation microstructure in low-carbon steel with ferrite microstructure. *Acta Materialia*, **2022**, 225, 117549	8.4	3
453	Achieving excellent mechanical properties in type 316 stainless steel by tailoring grain size in homogeneously recovered or recrystallized nanostructures. *Acta Materialia*, **2022**, 226, 117629	8.4	3
452	Direct observation of grain boundary formation in bcc iron through TEM in situ compression test. *Scripta Materialia*, **2022**, 207, 114275	5.6	0
451	Advanced Thermomechanical Processing of Steels **2022**, 223-234		
450	Nanomaterials by severe plastic deformation: review of historical developments and recent advances. *Materials Research Letters*, **2022**, 10, 163-256	7.4	26
449	Hydrogen-Related Fracture Behavior under Constant Loading Tensile Test in As-Quenched Low-Carbon Martensitic Steel. *Metals*, **2022**, 12, 440	2.3	0
448	In-situ observations of static recrystallization and texture formation in a cold-rolled CoCrFeMnNi high entropy alloy. *Scripta Materialia*, **2022**, 215, 114706	5.6	1
447	Hydrogen embrittlement behaviors at different deformation temperatures in as-quenched low-carbon martensitic steel. *International Journal of Hydrogen Energy*, **2021**, 47, 3131-3131	6.7	1
446	A correlation between grain boundary character and deformation twin nucleation mechanism in coarse-grained high-Mn austenitic steel. *Scientific Reports*, **2021**, 11, 8468	4.9	8
445	Effects of local stress, strain, and hydrogen content on hydrogen-related fracture behavior in low-carbon martensitic steel. *Acta Materialia*, **2021**, 210, 116828	8.4	10
444	Microstructure, texture and mechanical properties of sandwiched ARB6/2/6 2N Al fabricated by accumulative roll bonding. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2021**, 817, 141356	5.3	0
443	A unique three-stage dependence of yielding behavior and strain-hardening ability in Ti-10V-2Fe-3Al alloy on phase fraction. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2021**, 821, 141609	5.3	1

442	Crystallographic analysis of fatigue fracture initiation in 8Ni-0.1C martensitic steel. *International Journal of Fatigue*, **2021**, 143, 105921	5	2
441	Heterostructured materials: superior properties from hetero-zone interaction. *Materials Research Letters*, **2021**, 9, 1-31	7.4	160
440	Deformation mechanism of bimodal microstructure in Ti-6Al-4V alloy: The effects of intercritical annealing temperature and constituent hardness. *Journal of Materials Science and Technology*, **2021**, 71, 138-151	9.1	15
439	Realizing Structural Metallic Materials with Both High Strength and Large Ductility through Nucleation Control of Different Deformation Modes. *Materia Japan*, **2021**, 60, 8-12	0.1	0
438	Mesoscopic nature of serration behavior in high-Mn austenitic steel. *Acta Materialia*, **2021**, 205, 116543	8.4	11
437	Mechanical response of dislocation interaction with grain boundary in ultrafine-grained interstitial-free steel. *Acta Materialia*, **2021**, 206, 116621	8.4	18
436	Direct observation of local chemical ordering in a few nanometer range in CoCrNi medium-entropy alloy by atom probe tomography and its impact on mechanical properties. *Physical Review Materials*, **2021**, 5,	3.2	2
435	Unique transition of yielding mechanism and unexpected activation of deformation twinning in ultrafine grained Fe-31Mn-3Al-3Si alloy. *Scientific Reports*, **2021**, 11, 15870	4.9	7
434	Grain size altering yielding mechanisms in ultrafine grained high-Mn austenitic steel: Advanced TEM investigations. *Journal of Materials Science and Technology*, **2021**, 86, 192-203	9.1	9
433	Investigating the dislocation reactions on □{111} twin boundary during deformation twin nucleation process in an ultrafine-grained high-manganese steel. *Scientific Reports*, **2021**, 11, 19298	4.9	1
432	Effect of high pressure torsion process on the microhardness, microstructure and tribological property of Ti6Al4V alloy. *Journal of Materials Science and Technology*, **2021**, 94, 183-195	9.1	7
431	Achieving large super-elasticity through changing relative easiness of deformation modes in Ti-Nb-Mo alloy by ultra-grain refinement. *Materials Research Letters*, **2021**, 9, 223-230	7.4	3
430	Tensile Deformation of Ultrafine-Grained Fe-Mn-Al-Ni-C Alloy Studied by In Situ Synchrotron Radiation X-ray Diffraction. *Crystals*, **2020**, 10, 1115	2.3	4
429	Yield strength and misfit volumes of NiCoCr and implications for short-range-order. *Nature Communications*, **2020**, 11, 2507	17.4	61
428	Grain refinement mechanisms in BCC ferritic steel and FCC austenitic steel highly deformed under different temperatures and strain rates. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2020**, 790, 139708	5.3	2
427	Strain-dependence of deformation microstructures in ultra-low-C IF steel deformed to high strains by torsion at elevated temperatures. *Nano Materials Science*, **2020**, 2, 83-95	10.2	1
426	Strategy for managing both high strength and large ductility in structural materials□sequential nucleation of different deformation modes based on a concept of plaston. *Scripta Materialia*, **2020**, 181, 35-42	5.6	27
425	Two-stage Hall-Petch relationship in Cu with recrystallized structure. *Journal of Materials Science and Technology*, **2020**, 48, 31-35	9.1	28

424	Effect of initial dislocation density on hydrogen accumulation behavior in martensitic steel. *Scripta Materialia*, **2020**, 178, 318-323	5.6	17
423	Effect of Elemental Combination on Microstructure and Mechanical Properties of Quaternary Refractory Medium Entropy Alloys. *Materials Transactions*, **2020**, 61, 577-586	1.3	3
422	Plastic strain-induced sequential martensitic transformation. *Scripta Materialia*, **2020**, 185, 36-41	5.6	13
421	Ultra-Grain Refinement of High Entropy Alloys. *Funtai Oyobi Fummatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy*, **2020**, 67, 113-120	0.2	1
420	Influence of microtexture on ultrasonic reflection in Ti-6Al-4V alloy hot-forged in □ region. *MATEC Web of Conferences*, **2020**, 321, 11021	0.3	
419	Unique high-temperature deformation dominated by grain boundary sliding in heterogeneous necklace structure formed by dynamic recrystallization in HfNbTaTiZr BCC refractory high entropy alloy. *Acta Materialia*, **2020**, 183, 64-77	8.4	43
418	Microstructural evolution and mechanical properties of nanostructured Cu/Ni multilayer fabricated by accumulative roll bonding. *Journal of Alloys and Compounds*, **2020**, 819, 152956	5.7	8
417	Influence of Fe addition in CP titanium on phase transformation, microstructure and mechanical properties during high pressure torsion. *Journal of Alloys and Compounds*, **2020**, 822, 153604	5.7	17
416	Enhanced mechanical properties in □Ti alloy aged from recrystallized ultrafine □grains. *Materials and Design*, **2020**, 195, 109017	8.1	8
415	Significant transitions of mechanical properties by changing temperature in Cu-Al alloys with heterogeneous microstructures. *Materials Characterization*, **2020**, 168, 110546	3.9	0
414	Transition of dominant deformation mode in bulk polycrystalline pure Mg by ultra-grain refinement down to sub-micrometer. *Acta Materialia*, **2020**, 198, 35-46	8.4	45
413	Effect of Cobalt-Content on Mechanical Properties of Non-Equiatomic Co□CrNi Medium Entropy Alloys. *Materials Transactions*, **2020**, 61, 587-595	1.3	7
412	A Concentrated AlCl-Diglyme Electrolyte for Hard and Corrosion-Resistant Aluminum Electrodeposits. *ACS Applied Materials & Interfaces*, **2020**, 12, 43289-43298	9.5	7
411	Deformation behavior study in a model dual phase system of copper□martensitic steel using in-situ synchrotron X-ray diffraction. *IOP Conference Series: Materials Science and Engineering*, **2020**, 895, 012002	0.4	0
410	Heterogeneity and Homogeneity in 2/4 N Multilayered Al Fabricated by Accumulative Roll Bonding and Annealing. *Journal of Materials Engineering and Performance*, **2020**, 29, 6147-6154	1.6	
409	Challenging Ultra Grain Refinement of Ferrite in Low-C Steel Only by Heat Treatment. *Frontiers in Materials*, **2020**, 7,	4	1
408	Investigation on the Microstructure and Mechanical Properties of Ti-1.0Fe Alloy with Equiaxed □+□ Microstructures. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, **2020**, 51, 2851-2862	2.3	4
407	Ultra-strong, ductile and thermally stable ultrafine grained 5083 Al alloy fabricated by high pressure torsion using pre-sintered powders. *Materialia*, **2019**, 8, 100448	3.2	8

406	On the strain hardening abilities of □□titanium alloys: The roles of strain partitioning and interface length density. *Journal of Alloys and Compounds*, **2019**, 811, 152040	5.7	22
405	Achieving bi-lamellar microstructure with both high tensile strength and large ductility in Ti□Al□V alloy by novel thermomechanical processing. *Materialia*, **2019**, 8, 100479	3.2	15
404	Investigation on the hot deformation behaviors and globularization mechanisms of lamellar Ti□Al□V alloy within a wide range of deformation temperatures. *Materialia*, **2019**, 8, 100480	3.2	14
403	Synergistic effect by Al addition in improving mechanical performance of CoCrNi medium-entropy alloy. *Journal of Alloys and Compounds*, **2019**, 800, 372-378	5.7	43
402	Statistical representation of the microstructure and strength for a two-phase Ti□Al□V. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2019**, 759, 313-319	5.3	3
401	Unique deformation behavior and microstructure evolution in high temperature processing of HfNbTaTiZr refractory high entropy alloy. *Acta Materialia*, **2019**, 171, 132-145	8.4	53
400	Effect of elemental combination on friction stress and Hall-Petch relationship in face-centered cubic high / medium entropy alloys. *Acta Materialia*, **2019**, 171, 201-215	8.4	89
399	Global view for grain refinement in ultra-low-C IF steel during high-strain deformation at various temperatures and strain rates. *Materialia*, **2019**, 6, 100262	3.2	11
398	Nature of dynamic ferrite transformation revealed by in-situ neutron diffraction analysis during thermomechanical processing. *Scripta Materialia*, **2019**, 165, 44-49	5.6	20
397	Nanostructuring with Structural-Compositional Dual Heterogeneities Enhances Strength-Ductility Synergy in Eutectic High Entropy Alloy. *Scientific Reports*, **2019**, 9, 11505	4.9	38
396	Change of Deformation Mechanisms Leading to High Strength and Large Ductility in Mg-Zn-Zr-Ca Alloy with Fully Recrystallized Ultrafine Grained Microstructures. *Scientific Reports*, **2019**, 9, 11702	4.9	27
395	Yielding nature and Hall-Petch relationships in Ti-6Al-4V alloy with fully equiaxed and bimodal microstructures. *Scripta Materialia*, **2019**, 172, 77-82	5.6	56
394	Microstructure Evolution and Phase Transformation of Ti-1.0 wt%Fe Alloy with an Equiaxed □+□ Initial Microstructure during High-Pressure Torsion and Subsequent Annealing. *Advanced Engineering Materials*, **2019**, 21, 1900607	3.5	4
393	Engineering heterogeneous microstructure by severe warm-rolling for enhancing strength-ductility synergy in eutectic high entropy alloys. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2019**, 764, 138226	5.3	32
392	Bi-lamellar microstructure in Ti□Al□V: Microstructure evolution and mechanical properties. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing* , **2019**, 762, 138077	5.3	31
391	Grain refinement and age precipitation in aluminum alloys using ARB process. *Keikinzoku/Journal of Japan Institute of Light Metals*, **2019**, 69, 149-156	0.3	
390	Formation Mechanism of Ultrafine Grained Microstructures: Various Possibilities for Fabricating Bulk Nanostructured Metals and Alloys. *Materials Transactions*, **2019**, 60, 1518-1532	1.3	23
389	Effect of Hydrogen on the Substructure of Lenticular Martensite in Fe-31Ni Alloy. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, **2019**, 50, 4027-4036	2.3	4

388	Mechanical and microstructural analysis on hydrogen-related fracture in a martensitic steel. *International Journal of Hydrogen Energy*, **2019**, 44, 29034-29046	6.7	16
387	Linking local and heterogeneous deformation behavior to global deformation of materials by in-situ experimental techniques. *IOP Conference Series: Materials Science and Engineering*, **2019**, 580, 012012	0.4	
386	Understanding on Peculiar Mechanical Properties of Ultrafine Grained Aluminum. *Keikinzoku/Journal of Japan Institute of Light Metals*, **2019**, 69, 555-561	0.3	2
385	In-situ neutron diffraction study on the deformation of a TRIP-assisted multi-phase steel composed of ferrite, austenite and martensite. *IOP Conference Series: Materials Science and Engineering*, **2019**, 580, 012036	0.4	
384	Deformation microstructures and strength of face-centered cubic high/medium entropy alloys. *IOP Conference Series: Materials Science and Engineering*, **2019**, 580, 012053	0.4	1
383	Mechanism of huge L□ders-type deformation in ultrafine grained austenitic stainless steel. *Scripta Materialia*, **2019**, 159, 28-32	5.6	51
382	Resistance to mechanically small fatigue crack growth in ultrafine grained interstitial-free steel fabricated by accumulative roll-bonding. *International Journal of Fatigue*, **2019**, 118, 117-125	5	10
381	Microstructure evolution during thermomechanical processing in 3Mn-0.1C medium-Mn steel. *Materials Science and Technology*, **2019**, 35, 2101-2108	1.5	6
380	Effect of thermomechanical processing at □+□ two-phase temperatures on microstructure and mechanical property of 5Mn-0.1C-2Si medium-manganese steel. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2019**, 743, 57-66	5.3	6
379	Strength□ductility balance in an ultrafine-grained non-equiatomic Fe50(CoCrMnNi)50 medium-entropy alloy with a fully recrystallized microstructure. *Journal of Alloys and Compounds*, **2019**, 780, 959-966	5.7	20
378	Effect of aluminum addition on solid solution strengthening in CoCrNi medium-entropy alloy. *Journal of Alloys and Compounds*, **2019**, 781, 866-872	5.7	56
377	Simultaneous Strength-Ductility Enhancement of a Nano-Lamellar AlCoCrFeNi Eutectic High Entropy Alloy by Cryo-Rolling and Annealing. *Scientific Reports*, **2018**, 8, 3276	4.9	126
376	Overcoming the strength□uctility trade-off via the formation of a thermally stable and plastically unstable austenitic phase in cold-worked steel. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2018**, 721, 74-80	5.3	5
375	Dynamic Transformation Mechanism for Producing Ultrafine Grained Steels. *Advanced Engineering Materials*, **2018**, 20, 1701016	3.5	14
374	Influence of Grain Size on Work-Hardening Behavior of Fe-24Ni-0.3C Metastable Austenitic Steel. *Minerals, Metals and Materials Series*, **2018**, 95-98	0.3	1
373	In Situ Neutron Diffraction Study on Microstructure Evolution During Thermo-Mechanical Processing of Medium Manganese Steel. *Minerals, Metals and Materials Series*, **2018**, 155-158	0.3	1
372	Relationship Between Applied Stress and Hydrogen-Related Fracture Behavior in Martensitic Steel. *Minerals, Metals and Materials Series*, **2018**, 227-231	0.3	
371	Ultrafine grained structure and improved mechanical properties of low temperature friction stir spot welded 6061-T6 Al alloys. *Materials Characterization*, **2018**, 135, 124-133	3.9	30

370	Characterization of cold-rolled heterogeneous microstructure formed by multimodal deformation in an Fe-Ni-Al-C alloy with lattice softening. *Materials and Design*, **2018**, 153, 166-176	8.1	3
369	Effect of low temperature on tensile properties of AlCoCrFeNi2.1 eutectic high entropy alloy. *Materials Chemistry and Physics*, **2018**, 210, 207-212	4.4	56
368	Hot deformation behavior of CoCrFeMnNi FCC high entropy alloy. *Materials Chemistry and Physics*, **2018**, 210, 176-186	4.4	73
367	Remarkable transitions of yield behavior and Lüders deformation in pure Cu by changing grain sizes. *Scripta Materialia*, **2018**, 142, 88-91	5.6	78
366	Unique effect of carbon addition on development of deformation texture through changes in slip activation and twin deformation in heavily cold-rolled Fe-3% Si alloys. *Acta Materialia*, **2018**, 157, 196-208	8.4	13
365	Deformation behavior of as-cast and as-extruded Mg97Zn1Y2 alloys during compression, as tracked by in situ neutron diffraction. *International Journal of Plasticity*, **2018**, 111, 288-306	7.6	20
364	Ultrafine-grained CuAg7Zr0.05 alloy with fully recrystallized microstructure. *Materialia*, **2018**, 3, 162-168	3.2	5
363	Factors determining room temperature mechanical properties of bimodal microstructures in Ti-6Al-4V alloy. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2018**, 730, 217-222	5.3	34
362	Preface to Special Issue on Recent Advances in the Understanding of Peculiar Properties of High-Entropy Alloys. *Materia Japan*, **2018**, 57, 311-311	0.1	
361	Texture and Mechanical Properties of Al–Mg Alloy with Unimodal and Bimodal Grain-Structures Formed by Accumulative Roll Bonding and Annealing. *Materials Transactions*, **2018**, 59, 1147-1155	1.3	3
360	Unique Effect of Carbon Addition on Development of Deformation and Recrystallization Textures in Heavily Cold-Rolled Fe-3%Si Alloys. *Materials Science Forum*, **2018**, 941, 890-895	0.4	
359	Possibility of Microstructure Control in High Entropy Alloys. *Materia Japan*, **2018**, 57, 317-322	0.1	1
358	Microstructure Evolution and Change in Mechanical Properties of Medium Mn Steels during Thermomechanical Processing. *Materials Science Forum*, **2018**, 941, 346-351	0.4	1
357	Effect of Grain Size on Mechanical Properties of Mg-0.3at.%Y Dilute Alloy. *Materials Science Forum*, **2018**, 941, 790-795	0.4	
356	Deformation-assisted diffusion for the enhanced kinetics of dynamic phase transformation. *Materials Research Letters*, **2018**, 6, 641-647	7.4	11
355	Crystallographic feature of hydrogen-related fracture in 2Mn-0.1C ferritic steel. *International Journal of Hydrogen Energy*, **2018**, 43, 11298-11306	6.7	24
354	Mechanism of Dynamic Formation of Ultrafine Ferrite Grains during High Temperature Processing in Steel . *Advanced Engineering Materials*, **2017**, 19, 1600778	3.5	5
353	Cold-rolling and recrystallization textures of a nano-lamellar AlCoCrFeNi2.1 eutectic high entropy alloy. *Intermetallics*, **2017**, 84, 42-51	3.5	68

352	Cooperative strain accommodation over grains in martensitic transformation from Fe-Ni nanocrystalline austenite. *Philosophical Magazine Letters*, **2017**, 97, 132-139	1	5
351	A novel ultrafine-grained Fe 22Mn 0.6C TWIP steel with superior strength and ductility. *Materials Characterization*, **2017**, 126, 74-80	3.9	59
350	The phase stability of equiatomic CoCrFeMnNi high-entropy alloy: Comparison between experiment and calculation results. *Journal of Alloys and Compounds*, **2017**, 719, 189-193	5.7	62
349	Role of Different Kinds of Boundaries Against Cleavage Crack Propagation in Low-Temperature Embrittlement of Low-Carbon Martensitic Steel. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, **2017**, 48, 3261-3268	2.3	5
348	Microstructural and crystallographic features of hydrogen-related fracture in lath martensitic steels. *Materials Science and Technology*, **2017**, 33, 1524-1532	1.5	27
347	Post-uniform elongation and tensile fracture mechanisms of Fe-18Mn-0.6C-xAl twinning-induced plasticity steels. *Acta Materialia*, **2017**, 131, 435-444	8.4	41
346	Friction stress and Hall-Petch relationship in CoCrNi equi-atomic medium entropy alloy processed by severe plastic deformation and subsequent annealing. *Scripta Materialia*, **2017**, 134, 33-36	5.6	196
345	Fracture surface topography analysis of the hydrogen-related fracture propagation process in martensitic steel. *International Journal of Fracture*, **2017**, 205, 73-82	2.3	19
344	Simultaneously enhanced strength and ductility of Mg-Zn-Zr-Ca alloy with fully recrystallized ultrafine grained structures. *Scripta Materialia*, **2017**, 131, 1-5	5.6	88
343	Hydrogen embrittlement behaviors of ultrafine-grained 22Mn0.6C austenitic twinning induced plasticity steel. *Journal of Materials Research*, **2017**, 32, 4592-4604	2.5	14
342	Investigation of the grain size effect on mechanical properties of Ti-6Al-4V alloy with equiaxed and bimodal microstructures. *IOP Conference Series: Materials Science and Engineering*, **2017**, 219, 012013	0.4	6
341	On the Stability of Reversely Formed Austenite and Related Mechanism of Transformation in an Fe-Ni-Mn Martensitic Steel Aided by Electron Backscattering Diffraction and Atom Probe Tomography. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, **2017**, 48, 5244-5257	2.3	12
340	Deformation Induced Martensitic Transformation and Its Initial Microstructure Dependence in a High Alloyed Duplex Stainless Steel. *Steel Research International*, **2017**, 88, 1700169	1.6	7
339	Reason for high strength and good ductility in dual phase steels composed of soft ferrite and hard martensite. *IOP Conference Series: Materials Science and Engineering*, **2017**, 219, 012008	0.4	6
338	Enhanced mechanical properties in fully recrystallized ultrafine grained ZKX600 Mg alloy. *IOP Conference Series: Materials Science and Engineering*, **2017**, 219, 012055	0.4	1
337	Microstructures and mechanical property of a Fe-Ni-Al-C alloy containing B2 intermetallic compounds. *IOP Conference Series: Materials Science and Engineering*, **2017**, 219, 012020	0.4	1
336	Mechanical properties of fully martensite microstructure in Ti-6Al-4V alloy transformed from refined beta grains obtained by rapid heat treatment (RHT). *Scripta Materialia*, **2017**, 138, 66-70	5.6	41
335	SEM/EBSD Analysis on Globularization Behavior of Lamellar Microstructure in Ti-6Al-4V During Hot Deformation and Annealing. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, **2017**, 48, 4237-4246	2.3	23

334	Effect of strain rate on hydrogen embrittlement in low-carbon martensitic steel. *International Journal of Hydrogen Energy*, **2017**, 42, 3371-3379	6.7	80
333	Novel thermomechanical processing methods for achieving ultragrain refinement of low-carbon steel without heavy plastic deformation. *Materials Research Letters*, **2017**, 5, 61-68	7.4	31
332	Effect of severe cold-rolling and annealing on microstructure and mechanical properties of AlCoCrFeNi2.1 eutectic high entropy alloy. *IOP Conference Series: Materials Science and Engineering*, **2017**, 194, 012018	0.4	17
331	Ultimate Rolling Texture in Pure Aluminum Highly Deformed by Accumulative Roll Bonding: Taylor Orientation Formed beyond Grain Subdivision. *Materials Transactions*, **2017**, 58, 1127-1133	1.3	1
330	Structural refinement and property optimization in an Fe-23Cr-8.5Ni duplex stainless steel. *IOP Conference Series: Materials Science and Engineering*, **2017**, 219, 012045	0.4	
329	Realizing Ultrafine Grained Steel by Simple Hot Deformation Using Dynamic Transformation and Subsequent Dynamic Recrystallization Mechanisms. *IOP Conference Series: Materials Science and Engineering*, **2017**, 194, 012026	0.4	2
328	Change of deformation mechanisms in ultrafine grained Mg-Zn-Zr-Ca alloy. *IOP Conference Series: Materials Science and Engineering*, **2017**, 194, 012016	0.4	1
327	Characterization of microstructure and mechanical property of pure titanium with different Fe addition processed by severe plastic deformation and subsequent annealing. *IOP Conference Series: Materials Science and Engineering*, **2017**, 194, 012020	0.4	5
326	Ductility and Formability of Ultrafine-Grained Metallic Materials. *Journal of the Japan Society for Technology of Plasticity*, **2017**, 58, 196-201	0.3	
325	Mechanical Properties and Deformation Mechanism of Mg□ Alloy with Various Grain Sizes. *Minerals, Metals and Materials Series*, **2017**, 283-287	0.3	1
324	Strength and Ductility of Ultrafine Grained ZKX600 Mg Alloy **2016**, 245-250		
323	Thermomechanical Processing of Medium Manganese Steels. *Materials Science Forum*, **2016**, 879, 90-94	0.4	5
322	Effect of Precipitate on Microstructure Evolution and Hardness of Al-Cu Alloy during Torsion Deformation. *Materials Science Forum*, **2016**, 872, 33-37	0.4	1
321	Fatigue properties of ARB-processed Ti sheets with crystallographic texture. *International Journal of Fatigue*, **2016**, 92, 18-24	5	6
320	Mechanical Properties of Fine-Grained and Ultrafine-Grained Ti-6Al-4V with Equiaxed and Bimodal Microstructures. *Materials Science Forum*, **2016**, 879, 344-349	0.4	3
319	Microstructure and Mechanical Properties of ARB Processed Aluminium with Different Purities. *Materials Transactions*, **2016**, 57, 1720-1728	1.3	14
318	The Effect of Initial Microstructure on the Mechanical Properties of Bi-lamellar Ti-6Al-4V **2016**, 633-640		
317	Effect of grain refinement on hydrogen embrittlement behaviors of high-Mn TWIP steel. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2016**, 651, 935-944	5.3	77

316	Ultrafine-Grained AlCoCrFeNi2.1 Eutectic High-Entropy Alloy. *Materials Research Letters*, **2016**, 4, 174-179	7.4	205
315	Ductility Sensitivity to Stacking Fault Energy and Grain Size in Cu–Al Alloys. *Materials Research Letters*, **2016**, 4, 112-117	7.4	16
314	Grain Refinement and Texture Evolution in Highly Deformed Ferrite During High-Temperature Torsion Deformation of IF Steel **2016**, 71-78		
313	Strength and Ductility of Ultrafine Grained ZKX600 Mg Alloy **2016**, 245-250		
312	Effect of Accumulative Roll Bonding (ARB) and Subsequent Aging on Microstructure and Mechanical Properties of 2024 Al Alloy. *Materials Transactions*, **2016**, 57, 1462-1470	1.3	7
311	Microstructure and Mechanical Properties of Dissimilar Friction Stir Welding between Ultrafine Grained 1050 and 6061-T6 Aluminum Alloys. *Metals*, **2016**, 6, 249	2.3	10
310	Investigation on the Bi-Lamellar Microstructure in Ti-6Al-4V **2016**, 663-667		1
309	Contactless electrical conductivity measurement of metallic submicron-grain material: Application to the study of aluminum with severe plastic deformation. *Review of Scientific Instruments*, **2016**, 87, 053905	1.7	3
308	Effect of imposed strain and annealing temperature on uniform elongation in A5052 alloy processed by accumulative roll bonding. *Mechanical Engineering Journal*, **2016**, 3, 16-00139-16-00139	0.5	2
307	Combination of dynamic transformation and dynamic recrystallization for realizing ultrafine-grained steels with superior mechanical properties. *Scientific Reports*, **2016**, 6, 39127	4.9	36
306	Grain Subdivision Mechanism Related to Partial Disclinations in Severe Plastic Deformation: A Molecular Dynamics Study. *Materials Transactions*, **2016**, 57, 1392-1398	1.3	5
305	Special Issue on Advanced Materials Science in Bulk Nanostructured Metals III. *Materials Transactions*, **2016**, 57, 1385-1385	1.3	1
304	Effect of Grain Size on Mechanical Properties of Dual Phase Steels Composed of Ferrite and Martensite. *MRS Advances*, **2016**, 1, 811-816	0.7	2
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