

Kenong Xia

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103
papers

2,752
citations

27
h-index

50
g-index

107
ext. papers

3,161
ext. citations

4.1
avg, IF

5.37
L-index

#	Paper	IF	Citations
103	Additive manufacturing of strong and ductile Ti-6Al-4V by selective laser melting via in situ martensite decomposition. <i>Acta Materialia</i> , 2015 , 85, 74-84	8.4	620
102	A modified Hall-Petch relationship in ultrafine-grained titanium recycled from chips by equal channel angular pressing. <i>Scripta Materialia</i> , 2012 , 66, 785-788	5.6	181
101	Equal channel angular pressing of magnesium alloy AZ31. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2005 , 410-411, 324-327	5.3	176
100	Back pressure equal channel angular consolidation of pure Al particles. <i>Scripta Materialia</i> , 2005 , 53, 1225-1229	5.1	105
99	Effects of grain size on compressive behaviour in ultrafine grained pure Mg processed by equal channel angular pressing at room temperature. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011 , 528, 5993-5998	5.3	77
98	Nanostructured Al ₂ O ₃ composite formed in situ during consolidation of ultrafine Al particles by back pressure equal channel angular pressing. <i>Acta Materialia</i> , 2009 , 57, 4321-4330	8.4	67
97	The role of back pressure in the processing of pure aluminum by equal-channel angular pressing. <i>Acta Materialia</i> , 2007 , 55, 2351-2360	8.4	67
96	The toughening and strengthening of ceramic materials through discontinuous reinforcement. <i>Journal of Materials Science</i> , 1994 , 29, 5219-5231	4.3	66
95	Analysis of microstructure and strengthening in pure titanium recycled from machining chips by equal channel angular pressing using electron backscatter diffraction. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012 , 538, 252-258	5.3	61
94	Formation of an ultrafine-grained structure during equal-channel angular pressing of a titanium alloy with low phase stability. <i>Scripta Materialia</i> , 2009 , 60, 1012-1015	5.6	57
93	Controlling martensitic decomposition during selective laser melting to achieve best ductility in high strength Ti-6Al-4V. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019 , 744, 445-455	5.3	53
92	Formation of nanocrystalline structure in metastable beta Ti alloy during high pressure torsion: The role played by stress induced martensitic transformation. <i>Acta Materialia</i> , 2015 , 97, 146-155	8.4	53
91	Processing of a magnesium alloy by equal-channel angular pressing using a back-pressure. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2009 , 527, 205-211	5.3	49
90	Consolidation of Particles by Severe Plastic Deformation: Mechanism and Applications in Processing Bulk Ultrafine and Nanostructured Alloys and Composites. <i>Advanced Engineering Materials</i> , 2010 , 12, 724-729	3.5	48
89	Al ₂ O ₃ nanocomposites consolidated by back pressure equal channel angular pressing. <i>Composites Science and Technology</i> , 2009 , 69, 1997-2001	8.6	46
88	Substructural changes during hot deformation of an Fe-26Cr ferritic stainless steel. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2000 , 31, 21-27	2.3	40
87	High Ductility in a fully martensitic microstructure: a paradox in a Ti alloy produced by selective laser melting. <i>Materials Research Letters</i> , 2018 , 6, 627-633	7.4	38

86	Promoting nano/ultrafine-duplex structure via accelerated β precipitation in a β type titanium alloy severely deformed by high-pressure torsion. <i>Scripta Materialia</i> , 2013 , 68, 67-70	5.6	37
85	Shear, principal, and equivalent strains in equal-channel angular deformation. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2001 , 32, 2639-2647	2.3	35
84	Bulk cellulose plastic materials from processing cellulose powder using back pressure-equal channel angular pressing. <i>Carbohydrate Polymers</i> , 2012 , 87, 2470-2476	10.3	34
83	On the formation of an ultrafine-duplex structure facilitated by severe shear deformation in a Ti ₆₀ Mo β type titanium alloy. <i>Acta Materialia</i> , 2012 , 60, 5067-5078	8.4	33
82	Ultrafine-grained pure Ti recycled by equal channel angular pressing with high strength and good ductility. <i>Journal of Materials Processing Technology</i> , 2013 , 213, 469-476	5.3	32
81	Ultrafine pure aluminium through back pressure equal channel angular consolidation (BP-ECAC) of particles. <i>Journal of Materials Science</i> , 2007 , 42, 1551-1560	4.3	32
80	Recycling of titanium machining chips by severe plastic deformation consolidation. <i>Journal of Materials Science</i> , 2010 , 45, 4606-4612	4.3	30
79	Hardening and microstructural reactions in high-temperature equal-channel angular pressed Mg ₉₂ Nd ₈ Zn ₂ alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2010 , 527, 5092-5099	5.3	29
78	Kinetics of the β grain growth in a binary Ti ₄₄ Al alloy and a ternary Ti ₄₄ Al-0.15Gd alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2002 , 329-331, 430-434	5.3	28
77	Effects of addition of rare earth element Gd on the lamellar grain sizes of a binary Ti-44Al alloy. <i>Scripta Materialia</i> , 1999 , 41, 67-73	5.6	28
76	Pure aluminum with different grain size distributions by consolidation of particles using equal-channel angular pressing with back pressure. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008 , 493, 241-245	5.3	27
75	Effects of chip conditions on the solid state recycling of Ti-6Al-4V machining chips. <i>Journal of Materials Processing Technology</i> , 2016 , 238, 297-304	5.3	25
74	ECAP consolidation of Al matrix composites reinforced with in-situ β -Al ₂ O ₃ nanoparticles. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015 , 648, 113-122	5.3	23
73	Effects of Gd addition, lamellar spacing and loading direction on creep behaviour of a fully lamellar Ti ₄₄ Al ₅₅ Mn _{2.5} Nb alloy. <i>Acta Materialia</i> , 2004 , 52, 841-849	8.4	23
72	Ultrafine-grained titanium of high interstitial contents with a good combination of strength and ductility. <i>Applied Physics Letters</i> , 2008 , 92, 011924	3.4	22
71	A novel Ti-Fe composite coating deposited using laser cladding of low cost recycled nano-crystalline titanium powder. <i>Materials Letters</i> , 2018 , 229, 301-304	3.3	21
70	Formation of equiaxed β during ageing in a severely deformed metastable β Ti alloy. <i>Scripta Materialia</i> , 2016 , 124, 151-154	5.6	20
69	Mechanical properties of bulk aluminium consolidated from mechanically milled particles by back pressure equal channel angular pressing. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2010 , 527, 6533-6536	5.3	20

68	Natural polymer biocomposites produced from processing raw wood flour by severe shear deformation. <i>Carbohydrate Polymers</i> , 2014 , 113, 46-52	10.3	19
67	Microstructure observations in rare earth element Gd-modified Ti-44 at% Al. <i>Intermetallics</i> , 2000 , 8, 519-523	5.3	19
66	In situ synchrotron high-energy X-ray diffraction analysis on phase transformations in Ti-Al alloys processed by equal-channel angular pressing. <i>Journal of Synchrotron Radiation</i> , 2009 , 16, 825-34	2.4	18
65	High strength ultrafine/nanostructured aluminum produced by back pressure equal channel angular processing. <i>Applied Physics Letters</i> , 2007 , 91, 031901	3.4	17
64	Achieving Superior Strength and Ductility in Ti-6Al-4V Recycled from Machining Chips by Equal Channel Angular Pressing. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2014 , 45, 4089-4102	2.3	16
63	Significantly enhanced tensile strength and ductility in nickel aluminium bronze by equal channel angular pressing and subsequent heat treatment. <i>Journal of Materials Science</i> , 2013 , 48, 4749-4757	4.3	16
62	Nanocrystalline body-centred cubic beta-titanium alloy processed by high-pressure torsion. <i>International Journal of Materials Research</i> , 2009 , 100, 1662-1667	0.5	16
61	Bulk plastic materials obtained from processing raw powders of renewable natural polymers via back pressure equal channel angular consolidation (BP-ECAC). <i>European Polymer Journal</i> , 2008 , 44, 780-792	5.2	16
60	Stress induced martensitic transformation in metastable Ti-5Al-5Mo-5V-3Cr alloy: Triggering stress and interaction with deformation bands. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018 , 724, 75-79	5.3	15
59	Back pressure equal channel angular consolidation Application in producing aluminium matrix composites with fine flyash particles. <i>Journal of Materials Processing Technology</i> , 2007 , 192-193, 355-359	5.3	14
58	The comparison of effects of four rare earth elements additions on structures and grain sizes of Ti-44Al alloy. <i>Journal of Materials Science</i> , 2002 , 37, 1515-1522	4.3	13
57	Achieving Fine Beta Grain Structure in a Metastable Beta Titanium Alloy Through Multiple Forging-Annealing Cycles. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2016 , 47, 3633-3648	2.3	13
56	Biocompatible and Biodegradable Magnesium Oxide Nanoparticles with In Vitro Photostable Near-Infrared Emission: Short-Term Fluorescent Markers. <i>Nanomaterials</i> , 2019 , 9,	5.4	12
55	A comparative study of the effect of submicron porous and smooth ultrafine-grained Ti-20Mo surfaces on osteoblast responses. <i>Journal of Biomedical Materials Research - Part A</i> , 2018 , 106, 2020-2033	5.4	11
54	Bulk Ultrafine and Nanostructured Materials from Consolidation of Particles by Severe Plastic Deformation. <i>Materials Science Forum</i> , 2008 , 579, 61-74	0.4	11
53	High temperature deformation of an alumina composite reinforced with silicon carbide whiskers. <i>Acta Metallurgica Et Materialia</i> , 1995 , 43, 1421-1427		11
52	The Mechanical Properties at High Temperatures of SiC Whisker-Reinforced Alumina. <i>Materials Research Society Symposia Proceedings</i> , 1988 , 120, 265		11
51	Full density consolidation of pure aluminium powders by cold hydro-mechanical pressing. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011 , 528, 5784-5789	5.3	10

50	Ti-6Al-4V Recycled from Machining Chips by Equal Channel Angular Pressing. <i>Key Engineering Materials</i> , 2012 , 520, 295-300	0.4	10
49	Synthesis of Bulk Materials by Equal Channel Angular Consolidation of Particles. <i>Materials Science Forum</i> , 2006 , 503-504, 233-238	0.4	10
48	Deformation-free geometric recrystallisation in a metastable β Ti alloy produced by selective laser melting. <i>Materials Research Letters</i> , 2020 , 8, 117-122	7.4	9
47	Grain refinement in a metastable beta Ti alloy deformed to large strains at high strain rates. <i>Acta Materialia</i> , 2018 , 157, 174-185	8.4	9
46	Effect of Equal Channel Angular Pressing on Lamellar Microstructures in Nickel Aluminum Bronze. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2013 , 44, 5556-5566	2.3	9
45	The effect of back pressure on mechanical properties of an Mg-3 wt.% Al-1 wt.% Zn alloy with single pass equal channel angular pressing. <i>International Journal of Materials Research</i> , 2009 , 100, 1686-1690	0.5	9
44	Effects of oxidation and boron addition on tensile creep properties of cast Ti-6Al-4V-1Cr based alloys. <i>Intermetallics</i> , 2003 , 11, 325-330	3.5	9
43	Cellulose-wheat gluten bulk plastic materials produced from processing raw powders by severe shear deformation. <i>Carbohydrate Polymers</i> , 2013 , 92, 2206-11	10.3	8
42	Superior titanium from hybridised microstructures [A new strategy for future alloys. <i>Scripta Materialia</i> , 2019 , 173, 61-65	5.6	7
41	Metastable orthorhombic phases at ambient pressure in mechanically milled pure Ti and TiMg. <i>Scripta Materialia</i> , 2014 , 93, 32-35	5.6	7
40	Nano/ultrafine grained immiscible Fe-Cu alloy with ultrahigh strength produced by selective laser melting. <i>Materials Research Letters</i> , 2021 , 9, 247-254	7.4	7
39	Hybridisation of microstructures from three classes of titanium alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020 , 788, 139572	5.3	6
38	High electrical conductivity and elastic modulus composites comprising glass fiber-reinforced carbon-filled high-density polyethylene. <i>Journal of Thermoplastic Composite Materials</i> , 2013 , 26, 30-43	1.9	6
37	Effects of severe plastic deformation on grain refinement and martensitic transformation in a metastable β Ti alloy. <i>IOP Conference Series: Materials Science and Engineering</i> , 2015 , 89, 012055	0.4	6
36	Developing aluminum nanocomposites via severe plastic deformation. <i>Journal of Physics: Conference Series</i> , 2010 , 240, 012106	0.3	6
35	Effects of cerium on the microstructures and grain sizes of cast TiAl alloys. <i>Journal of Materials Science</i> , 2000 , 35, 975-980	4.3	6
34	Processing by severe plastic deformation:an ancient skill adapted for the modern world. <i>International Journal of Materials Research</i> , 2009 , 100, 1623-1631	0.5	5
33	Influence of whisker volume fraction on the creep behavior of alumina composites reinforced with silicon carbide. <i>Journal of Materials Research</i> , 1995 , 10, 2925-2932	2.5	5

32	Progress in Severe Plastic Deformation of Metastable Beta Ti Alloys. <i>Advanced Engineering Materials</i> , 2020 , 22, 1900471	3.5	5
31	Multiscale two-phase TiAl with high strength and plasticity through consolidation of particles by severe plastic deformation. <i>Scripta Materialia</i> , 2011 , 65, 711-714	5.6	4
30	Bulk Mg Produced by Back Pressure Equal Channel Angular Consolidation (BP- ECAC). <i>Materials Science Forum</i> , 2008 , 584-586, 114-118	0.4	4
29	Synthesis of Aluminium Based Bulk Materials from Micro and Nano Particles Using Back Pressure Equal Channel Angular Consolidation. <i>Materials Science Forum</i> , 2006 , 519-521, 1215-1220	0.4	4
28	Different tensile and compressive creep behaviours in a fully lamellar Ti ₄₄ Al ₄ Mn _{2.5} Nb _{0.15} Gd alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2002 , 329-331, 821-827	5.3	4
27	Intrinsically Ductile Failure in a Nanocrystalline Beta Titanium Alloy. <i>Advanced Engineering Materials</i> , 2011 , 13, 1108-1113	3.5	3
26	Bulk Al Materials from Back Pressure Equal Channel Angular Consolidation of Mechanically Milled Particles. <i>Materials Science Forum</i> , 2008 , 584-586, 428-433	0.4	3
25	High strength biocomposites consolidated from hardwood particles by severe plastic deformation. <i>Cellulose</i> , 2019 , 26, 1067-1084	5.5	3
24	Multiscale composition modulated TiAl composite processed by severe plastic deformation. <i>Journal of Materials Science</i> , 2014 , 49, 6543-6549	4.3	2
23	Microstructure and Mechanical Properties of Ultra-Fine Grain AZ80 Alloy Processed by Back Pressure Equal Channel Angular Pressing. <i>Materials Science Forum</i> , 2010 , 667-669, 547-552	0.4	2
22	Bulk Ultrafine and Nanostructured Materials from Consolidation of Particles by Back Pressure Equal Channel Angular Pressing. <i>Materials Science Forum</i> , 2008 , 584-586, 119-126	0.4	2
21	Examination of fracture surfaces of SiC whisker-reinforced alumina after high temperature creep deformation. <i>Journal of Materials Science Letters</i> , 1995 , 14, 188-189		2
20	Fracture behaviour at elevated temperatures of alumina matrix composites reinforced with silicon carbide whiskers. <i>Journal of Materials Science</i> , 1996 , 31, 5487-5492	4.3	2
19	Grain refinement in low SFE and particle-containing nickel aluminium bronze during severe plastic deformation at elevated temperatures. <i>Journal of Materials Science and Technology</i> , 2021 , 82, 57-68	9.1	2
18	Laser powder bed fusion of ultrahigh strength Fe-Cu alloys using elemental powders. <i>Additive Manufacturing</i> , 2021 , 47, 102270	6.1	2
17	Enhancing work hardening and ductility in additively manufactured Ti: roles played by grain orientation, morphology and substructure. <i>Journal of Materials Science and Technology</i> , 2022 , 105, 131-141	9.7	2
16	Consolidation of Pure Magnesium Powder by Equal-Channel Angular Pressing with Back Pressure. <i>Journal of Materials Engineering and Performance</i> , 2021 , 30, 2213-2219	1.6	2
15	Oxide Dissolution and Oxygen Diffusion in Solid-State Recycled Ti-6Al-4V: Numerical Modeling, Verification by Nanoindentation, and Effects on Grain Growth and Recrystallization. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2017 , 48, 5978-5989	2.3	1

14	Processing and characterization of Al-Al ₃ Nb prepared by mechanical alloying and equal channel angular pressing. <i>IOP Conference Series: Materials Science and Engineering</i> , 2017 , 194, 012008	0.4	1
13	Transformation of Lamellar Structures in Equal Channel Angular Pressing: Geometric Model and Application to Nickel Aluminum Bronze. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2015 , 46, 4202-4214	2.3	1
12	The Influence of Texture and Grain Size on Compressive Deformation Behavior of Pure Mg through Equal-Channel Angular Processing. <i>Materials Science Forum</i> , 2010 , 667-669, 385-390	0.4	1
11	TiAl Turbochargers for Automobile Application. <i>Materials Science Forum</i> , 2009 , 618-619, 559-562	0.4	1
10	Effect of Processing Method on Conductivity and Mechanical Properties of Glass Fibre Reinforced Carbon Black Filled Polyethylene. <i>Advanced Materials Research</i> , 2008 , 32, 131-136	0.5	1
9	Biocomposites Produced from Hardwood Particles by Equal Channel Angular Pressing Without Additives. <i>Journal of Composites Science</i> , 2019 , 3, 36	3	0
8	Microstructure and Damping Properties of Ultra Fine Grained Al Wires Reinforced by Al ₂ O ₃ Nanoparticles 2014 , 1347-1351		0
7	Biocomposites Produced from Hardwood Particles by Equal Channel Angular Pressing: Effects of Pre-Treatment. <i>Journal of Composites Science</i> , 2020 , 4, 181	3	0
6	Superior tensile properties in additively manufactured Ti alloys. <i>Australian Journal of Mechanical Engineering</i> , 1-7	1	0
5	Influence of precipitate size and morphology on grain refinement in nickel aluminium bronze. <i>IOP Conference Series: Materials Science and Engineering</i> , 2015 , 89, 012018	0.4	
4	Microstructure and Damping Properties of Ultra Fine Grained Al Wires Reinforced by Al ₂ O ₃ Nanoparticles 2014 , 1347-1351		
3	Nanostructured Dual Phase Ti-Al through Consolidation of Particles by Severe Plastic Deformation. <i>Materials Science Forum</i> , 2010 , 667-669, 63-68	0.4	
2	An Investigation of the Role of Processing in the High Temperature Creep of Whisker-Reinforced Alumina Composites. <i>Materials and Manufacturing Processes</i> , 1996 , 11, 589-604	4.1	
1	Plastic deformation of ordered intermetallic alloys 2005 , 164-202		