

Yu-Yong Chen

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Spheroidization behavior of (TiB+TiC+Y ₂ O ₃)/ β -Ti alloy during annealing. Journal of Alloys and Compounds, 2022, 893, 162312.	5.5	9
2	The tensile creep behavior of a B ₄ C-bearing high Nb containing TiAl alloy. Intermetallics, 2022, 141, 107410.	3.9	14
3	Microstructure evolution, mechanical properties and high temperature deformation of (TiB+TiC)/Ti-3.5Al-5Mo-6V-3Cr-2Sn-0.5Fe titanium alloy. Materials Characterization, 2022, 184, 111616. ¹²	4.4	12
4	Microstructural modulation of TiAl alloys for controlling ultra-precision machinability. International Journal of Machine Tools and Manufacture, 2022, 174, 103851.	13.4	17
5	Effect of TiB, TiC and Y ₂ O ₃ on tensile properties and creep behavior at 650°C of titanium matrix composites. Journal of Alloys and Compounds, 2022, 908, 164699.	5.5	10
6	The β phase recrystallization mechanism and mechanical properties of a near- β titanium matrix composite. Intermetallics, 2022, 147, 107597.	3.9	11
7	The effect of deformation parameters on the dynamic recrystallization and microstructure evolution of the quasi-continuous network reinforced TiAl/B ₄ C composites. Journal of Materials Science, 2022, 57, 11748-11760.	3.7	5
8	Microscale investigation of perovskite-Ti ₃ AlC strengthening and plastic deformation in high niobium containing TiAl alloys. Journal of Alloys and Compounds, 2021, 857, 157563.	5.5	8
9	Effect of cooling rate on solidification microstructure and mechanical properties of TiB ₂ -containing TiAl alloy. Transactions of Nonferrous Metals Society of China, 2021, 31, 391-403.	4.2	7
10	Microstructure and high-temperature tensile property of TiAl alloy produced by selective electron beam melting. Rare Metals, 2021, 40, 3635-3644.	7.1	12
11	Hot Deformation Behavior and Hot Rolling Properties of a Nano-Y ₂ O ₃ Addition Near- β Titanium Alloy. Metals, 2021, 11, 837.	2.3	3
12	Direct Rolling of TiC p /Ti-6Al-4V Composite for Improved Microstructure, Mechanical Properties, and High-Temperature Oxidation Resistance. Advanced Engineering Materials, 2021, 23, 2100079.	3.5	1
13	Deformation behavior and microstructure evolution of as-cast Ti ₂ ZrMo _{0.5} Nb _{0.5} high entropy alloy. Journal of Materials Research and Technology, 2021, 13, 2469-2481.	5.8	13
14	The high temperature wetting and corrosion mechanism analysis of Nb by TiAl alloy melt. Corrosion Science, 2021, 186, 109316.	6.6	9
15	Effect of nano-Y ₂ O ₃ addition on the creep behavior of an as-cast near- β titanium alloy. Materials Characterization, 2021, 178, 111249.	4.4	16
16	Elevated temperature performance and creep behavior of Y ₂ O ₃ reinforced Ti-48Al-6Nb alloy at the brittle-ductile transition temperature. Journal of Alloys and Compounds, 2021, 871, 159497.	5.5	17
17	Effect of solution treatment and aging on microstructure, tensile properties and creep behavior of a hot-rolled β high strength titanium alloy with a composition of Ti-3.5Al-5Mo-6V-3Cr-2Sn-0.5Fe-0.1B-0.1C. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2021, 823, 141728.	5.6	16
18	Creep deformation and rupture behavior of a high Nb containing TiAl alloy reinforced with Y ₂ O ₃ particles. Materials Characterization, 2021, 179, 111355.	4.4	11

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19	Self-Induced Internal Corrosion Stress Transgranular Cracking in Gradient-Structural Polycrystalline Materials at High Temperature. <i>Metals</i> , 2021, 11, 1465.	2.3	0
20	High-temperature microstructure stability and fracture toughness of TiAl alloy prepared via electron beam smelting and selective electron beam melting. <i>Intermetallics</i> , 2021, 136, 107259.	3.9	23
21	Metastable phase and microstructural degradation of a TiAl alloy produced via selective electron beam melting. <i>Vacuum</i> , 2021, 192, 110491.	3.5	15
22	The investigation of microstructure evolution, deformation behavior and processing performance of the high niobium containing TiAl alloys. <i>Intermetallics</i> , 2021, 138, 107336.	3.9	10
23	Low-temperature superplasticity of β^2 -stabilized Ti-43Al-9V-Y alloy sheet with bimodal β^3 -grain-size distribution. <i>Journal of Materials Science and Technology</i> , 2021, 95, 225-236.	10.7	13
24	Effect of residual stresses on the mechanical properties of Ti-TiAl laminate composites fabricated by hot-pack rolling. <i>Materials Characterization</i> , 2020, 166, 110394.	4.4	17
25	High temperature tensile properties, deformation, and fracture behavior of a hybrid-reinforced titanium alloy composite. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020, 788, 139516.	5.6	21
26	Hot Deformation Behavior and Microstructural Evolution of PM Ti43Al9V0.3Y with Fine Equiaxed β^3 and B2 Grain Microstructure. <i>Materials</i> , 2020, 13, 896.	2.9	2
27	High Nb-TiAl Intermetallic Blades Fabricated by Isothermal Die Forging Process at Low Temperature. <i>Metals</i> , 2020, 10, 757.	2.3	6
28	Influence of nano-Y2O3 addition on microstructure and tensile properties of high-Al TiAl alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020, 794, 139803.	5.6	35
29	Microstructure evolution during forging deformation of (TiB+TiC+Y2O3)/ β^2 -Ti composite: DRX and globularization behavior. <i>Journal of Alloys and Compounds</i> , 2020, 827, 154170.	5.5	32
30	The effect of nano-Y2O3 addition on tensile properties and creep behavior of as-cast TiAl alloy. <i>Journal of Alloys and Compounds</i> , 2020, 825, 153852.	5.5	27
31	Microstructure Evolution and Mechanical Properties of PM-Ti43Al9V0.3Y Alloy. <i>Materials</i> , 2020, 13, 198.	2.9	9
32	Effect of TiB2 addition on microstructure and fluidity of cast TiAl alloy. <i>Vacuum</i> , 2020, 174, 109210.	3.5	22
33	Selective Electron Beam Melting of TiAl Alloy: Metallurgical Defects, Tensile Property, and Determination of Process Window. <i>Advanced Engineering Materials</i> , 2020, 22, 2000194.	3.5	15
34	High temperature tensile properties and fracture behavior of Y2O3-bearing Ti-48Al-2Cr-2Nb alloy. <i>Intermetallics</i> , 2020, 126, 106933.	3.9	22
35	Prediction of interfacial phase formation and mechanical properties of Ti6Al4V-Ti43Al9V laminate composites. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020, 782, 139173.	5.6	12
36	The improved properties and microstructure of β^2 -solidify TiAl alloys by boron addition and multi steps forging process. <i>Scientific Reports</i> , 2019, 9, 12393.	3.3	13

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37	Effect of nano Y2O3 addition on microstructure and room temperature tensile properties of Ti-48Al-2Cr-2Nb alloy. Vacuum, 2019, 170, 108779.	3.5	23
38	The Influences of Process Annealing Temperature on Microstructure and Mechanical Properties of near β^2 High Strength Titanium Alloy Sheet. Materials, 2019, 12, 1478.	2.9	7
39	Improving mechanical properties of near beta titanium alloy by high-low duplex aging. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2019, 754, 702-707.	5.6	16
40	Microstructure, texture and mechanical properties of Ti-43Al-9V-0.2Y alloy hot-rolled at various temperatures. Journal of Alloys and Compounds, 2019, 777, 795-805.	5.5	24
41	Relationship between microstructure and tensile properties on a near- β^2 titanium alloy after multidirectional forging and heat treatment. Rare Metals, 2019, 38, 336-342.	7.1	17
42	The effect of carbon addition on the high-temperature properties of β^2 solidification TiAl alloys. Journal of Alloys and Compounds, 2019, 775, 441-448.	5.5	49
43	Microstructure evolution and tensile properties of conventional cast TiAl-based alloy with trace Ni addition. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2018, 715, 41-48.	5.6	31
44	Mechanical properties, deformation behavior and microstructure evolution of Ti-43Al-6Nb-1Mo-1Cr alloys. Materials Characterization, 2018, 136, 69-83.	4.4	23
45	A high-performance β^2 -solidifying TiAl alloy sheet: Multi-type lamellar microstructure and phase transformation. Materials Characterization, 2018, 138, 136-144.	4.4	34
46	Microstructure, texture and tensile property as a function of scanning speed of Ti-47Al-2Cr-2Nb alloy fabricated by selective electron beam melting. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2018, 713, 195-205.	5.6	48
47	A high-performance β^2 -stabilized Ti-43Al-9V-0.2Y alloy sheet with a nano-scaled antiphase domain. Materials Letters, 2018, 214, 182-185.	2.6	14
48	Effect of cold rolling process on microstructure and mechanical properties of high strength β^2 titanium alloy thin sheets. Progress in Natural Science: Materials International, 2018, 28, 711-717.	4.4	16
49	The Difference of Lamellar Structure Formation between Ti-45Al-5.4V-3.6Nb-Y Alloy and Ti-44Al-4Nb-4V-0.3Mo-Y Alloy. Metals, 2018, 8, 566.	2.3	0
50	The effect of boron addition on the deformation behavior and microstructure of β^2 -solidify TiAl alloys. Materials Characterization, 2018, 145, 312-322.	4.4	15
51	The tensile and fracture toughness properties of a (TiB _w +TiC _p)/Ti-3.5Al-5Mo-6V-3Cr-2Sn-0.5Fe composites after heat treatment. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2018, 729, 21-28.	5.6	19
52	The effect of boron addition on the high-temperature properties and microstructure evolution of high Nb containing TiAl alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2018, 733, 190-198.	5.6	37
53	A Novel Composition Design Method for Beta-Gamma TiAl Alloys with Excellent Hot Workability. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2018, 49, 5574-5584.	2.2	15
54	Effects of direct rolling deformation on the microstructure and tensile properties of the 2.5 vol% (TiB _w +TiC _p)/Ti composites. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2017, 684, 645-651.	5.6	59

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55	Hot pack rolling nearly lamellar Ti-44Al-8Nb-(W, B, Y) alloy with different rolling reductions: Lamellar colonies evolution and tensile properties. <i>Materials and Design</i> , 2017, 121, 202-212.	7.0	70
56	Phase transformations of the L1 2 -Ti 3 Al phase in $\hat{\beta}$ -TiAl alloy. <i>Materials and Design</i> , 2017, 121, 61-68.	7.0	21
57	Hot deformation behavior and microstructural evolution of as-forged Ti-44Al-8Nb-(W, B, Y) alloy with nearly lamellar microstructure. <i>Intermetallics</i> , 2017, 81, 62-72.	3.9	30
58	Relationships among reinforcement volume fraction, microstructure and tensile properties of (TiB w) Tj ETQq0 0 0 rgBT /Overlock 10 Tf Properties, Microstructure and Processing, 2017, 701, 16-23.	5.6	33
59	High strength in high Nb containing TiAl alloy sheet with fine duplex microstructure produced by hot pack rolling. <i>Journal of Alloys and Compounds</i> , 2017, 695, 3495-3502.	5.5	49
60	Effects of carbon and boron addition on microstructure and mechanical properties of TiAl alloys. <i>Journal of Alloys and Compounds</i> , 2017, 728, 206-221.	5.5	33
61	Microstructural Characterization of Melt Extracted High-Nb-Containing TiAl-Based Fiber. <i>Materials</i> , 2017, 10, 195.	2.9	1
62	Low Temperature Phase Transformations in Copper-Quenched Ti-44.5Al-8Nb-2.5V Alloy. <i>Materials</i> , 2017, 10, 201.	2.9	1
63	Dynamic Recrystallization of the Constituent $\hat{\beta}$ Phase and Mechanical Properties of Ti-43Al-9V-0.2Y Alloy Sheet. <i>Materials</i> , 2017, 10, 1089.	2.9	9
64	Hot deformation behavior and dynamic recrystallization of a $\hat{\beta}$ -solidifying TiAl alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016, 652, 231-238.	5.6	55
65	Microstructural evolution, hot workability, and mechanical properties of Ti-43Al-2Cr-2Mn-0.2Y alloy. <i>Materials and Design</i> , 2016, 89, 1020-1027.	7.0	47
66	Microstructure characterization and tensile properties of a Ni-containing TiAl-based alloy with heat treatment. <i>Rare Metals</i> , 2016, 35, 26-34.	7.1	16
67	Microstructure evolution of Ti-46Al-6Nb-(Si,B) alloys during heat treatment with W addition. <i>Rare Metals</i> , 2016, 35, 85-92.	7.1	8
68	Microstructure and properties of a beta-solidifying TiAl-based alloy with different refiners. <i>Rare Metals</i> , 2016, 35, 42-47.	7.1	13
69	Hot Deformation Behavior of Ti-3.5Al-5Mo-6V-3Cr-2Sn-0.5Fe Alloy in $\hat{\alpha}$ + $\hat{\beta}$ Field. <i>Metals</i> , 2015, 5, 216-227.	2.3	13
70	Modeling of TiAl Alloy Grating by Investment Casting. <i>Metals</i> , 2015, 5, 2328-2339.	2.3	7
71	Grain refinement by trace TiB ₂ addition in conventional cast TiAl-based alloy. <i>Materials Characterization</i> , 2015, 106, 112-122.	4.4	44
72	Microstructure characterization, mechanical properties and toughening mechanism of TiB ₂ -containing conventional cast TiAl-based alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015, 645, 8-19.	5.6	23

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73	Effect of Nb addition on microstructure, mechanical properties and castability of β -type Ti-Mo alloys. Transactions of Nonferrous Metals Society of China, 2015, 25, 2214-2220.	4.2	44
74	Effect of aging heat treatment on microstructure and tensile properties of a new β high strength titanium alloy. Journal of Alloys and Compounds, 2014, 586, 588-592.	5.5	99
75	Effect of heat treatment on microstructure and mechanical properties of a new β high strength titanium alloy. Materials & Design, 2014, 55, 183-190.	5.1	124
76	Characterization of hot deformation behavior of as-forged TiAl alloy. Intermetallics, 2014, 55, 66-72.	3.9	41
77	Microstructure and mechanical properties of large size Ti-43Al-9V-0.2Y alloy pancake produced by pack-forging. Intermetallics, 2013, 34, 29-34.	3.9	43
78	Evolution of grain boundary and texture in as-forged Ti-45Al-9Nb-Y alloy during tensile test at different temperature. Intermetallics, 2012, 27, 31-37.	3.9	13
79	Microstructure and mechanical properties of large size as-cast Ti-43Al-9V-0.2Y (at.%) alloy ingot from brim to centre. Materials & Design, 2012, 33, 485-490.	5.1	19
80	High temperature deformation behavior of Ti-46Al-2Cr-4Nb-0.2Y alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2012, 539, 107-114.	5.6	25
81	Tribological behavior study on Ti-Nb-Sn/hydroxyapatite composites in simulated body fluid solution. Journal of the Mechanical Behavior of Biomedical Materials, 2012, 10, 97-107.	3.1	10
82	Microstructure and fracture toughness of a β phase containing TiAl alloy. Intermetallics, 2011, 19, 1405-1410.	3.9	80
83	Ti-Nb-Sn/hydroxyapatite composites synthesized by mechanical alloying and high frequency induction heated sintering. Journal of the Mechanical Behavior of Biomedical Materials, 2011, 4, 2074-2080.	3.1	22
84	EFFECTS OF THERMO-MECHANICAL TREATMENTS ON MICROSTRUCTURE OF Ti-43Al-9V-Y ALLOY. International Journal of Modern Physics B, 2009, 23, 1009-1013.	2.0	0
85	Effects of minor yttrium addition on hot deformability of lamellar Ti-45Al-5Nb alloy. Transactions of Nonferrous Metals Society of China, 2007, 17, 58-63.	4.2	23
86	Effects of yttrium on microstructures and properties of Ti-17Al-27Nb alloy. Transactions of Nonferrous Metals Society of China, 2006, 16, 316-320.	4.2	13
87	Effect of Yttrium Addition on Microstructures and Room Temperature Tensile Properties of Ti-47 Al Alloy. Journal of Rare Earths, 2006, 24, 352-356.	4.8	32
88	SYNTHESIS OF NANOSTRUCTURED GAMMA-TiAl BASED POWDERS AND BULK ALLOYS USING HIGH ENERGY MECHANICAL MILLING AND HIP. International Journal of Modern Physics B, 2006, 20, 4183-4188.	2.0	4
89	Fabrication of Thin-Walled High Temperature Titanium Alloy Component by Investment Casting. Materials and Manufacturing Processes, 0, , 121130131826005.	4.7	2