

Yuanfei

List of Publications by Year in descending order

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79
papers

1,827
citations

236612

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docs citations

81
times ranked

1107
citing authors

#	ARTICLE	IF	CITATIONS
1	Characterization of hot deformation behavior of as-cast TC21 titanium alloy using processing map. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011, 528, 1757-1763.	2.6	117
2	Development of constitutive relationship model of Ti600 alloy using artificial neural network. <i>Computational Materials Science</i> , 2010, 48, 686-691.	1.4	98
3	Characterization of the hot deformation behavior of a Ti-22Al-25Nb alloy using processing maps based on the Murty criterion. <i>Intermetallics</i> , 2012, 20, 1-7.	1.8	83
4	Embedding boron into Ti powder for direct laser deposited titanium matrix composite: Microstructure evolution and the role of nano-TiB network structure. <i>Composites Part B: Engineering</i> , 2021, 211, 108683.	5.9	70
5	Investigation of microstructure and mechanical properties of hot worked NiAl bronze alloy with different deformation degree. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015, 643, 17-24.	2.6	58
6	Effect of ECAP numbers on microstructure and properties of titanium matrix composite. <i>Materials & Design</i> , 2015, 75, 113-119.	5.1	52
7	Reinforcements stimulated dynamic recrystallization behavior and tensile properties of extruded (TiB+TiC+Al ₂ O ₃)/Ti6Al4V composites. <i>Journal of Alloys and Compounds</i> , 2017, 699, 874-881.	2.8	49
8	Effect of extrusion dies angle on the microstructure and properties of (TiB+TiC)/Ti6Al4V in situ titanium matrix composite. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016, 667, 317-325.	2.6	48
9	Strengthening mechanism of friction stir processed and post heat treated NiAl bronze alloy: Effect of rotation rates. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017, 685, 439-446.	2.6	47
10	Configuration design and fabrication of laminated titanium matrix composites. <i>Materials and Design</i> , 2016, 99, 219-224.	3.3	45
11	Determination of the influence of processing parameters on the mechanical properties of the Ti-6Al-4V alloy using an artificial neural network. <i>Computational Materials Science</i> , 2012, 60, 239-244.	1.4	43
12	Modeling the correlation between microstructure and the properties of the Ti-6Al-4V alloy based on an artificial neural network. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011, 528, 8757-8764.	2.6	42
13	Optimization of forging process parameters of Ti600 alloy by using processing map. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011, 529, 393-400.	2.6	41
14	Rapid in-situ reaction synthesis of novel TiC and carbon nanotubes reinforced titanium matrix composites. <i>Journal of Materials Science and Technology</i> , 2017, 33, 1165-1171.	5.6	41
15	Characterization of the diffusion bonding behavior of pure Ti and Ni with different surface roughness during hot pressing. <i>Materials & Design</i> , 2015, 65, 1001-1010.	5.1	39
16	The influence of thermomechanical processing on microstructural evolution of Ti600 titanium alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011, 528, 8410-8416.	2.6	36
17	Effects of extrusion ratio on microstructural evolution and mechanical behavior of in situ synthesized Ti-6Al-4V composites. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017, 688, 155-163.	2.6	35
18	Effects of microstructure on the stress corrosion cracking behavior of nickel-aluminum bronze alloy in 3.5% NaCl solution. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018, 733, 361-373.	2.6	35

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19	TiB nano-whiskers reinforced titanium matrix composites with novel nano-reticulated microstructure and high performance via composite powder by selective laser melting. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021, 799, 140137.	2.6	35
20	Columnar to equiaxed grain transition of laser deposited Ti6Al4V using nano-sized B4C particles. <i>Composites Part B: Engineering</i> , 2021, 212, 108667.	5.9	33
21	The impact of matrix texture and whisker orientation on property anisotropy in titanium matrix composites: Experimental and computational evaluation. <i>Composites Part B: Engineering</i> , 2021, 212, 108682.	5.9	31
22	Configuration of new fiber-like structure driven high matching of strength-ductility in TiB reinforced titanium matrix composites. <i>Composites Part B: Engineering</i> , 2022, 231, 109564.	5.9	31
23	Modeling of constitutive relationship of Ti-25V-15Cr-0.2Si alloy during hot deformation process by fuzzy-neural network. <i>Materials & Design</i> , 2010, 31, 4380-4385.	5.1	30
24	An ANFIS model for the prediction of flow stress of Ti600 alloy during hot deformation process. <i>Computational Materials Science</i> , 2011, 50, 2273-2279.	1.4	29
25	Preparation of TiNi films by diffusion technology and the study of the formation sequence of the intermetallics in Ti-Ni systems. <i>Journal of Materials Research</i> , 2014, 29, 2707-2716.	1.2	27
26	Optimization of chemical composition for TC11 titanium alloy based on artificial neural network and genetic algorithm. <i>Computational Materials Science</i> , 2011, 50, 1064-1069.	1.4	26
27	Prediction of flow stress in isothermal compression of Ti60 alloy using an adaptive network-based fuzzy inference system. <i>Materials & Design</i> , 2011, 32, 4676-4683.	5.1	26
28	Effect of solid carburization on surface microstructure and hardness of Ti-6Al-4V alloy and (TiB+La ₂ O ₃)/Ti-6Al-4V composite. <i>Transactions of Nonferrous Metals Society of China</i> , 2016, 26, 1871-1877.	1.7	26
29	Roles of reinforcements in twin nucleation and nano- β precipitation in the hybrid TiB/TiC-reinforced titanium matrix composites during high-temperature fatigue. <i>Scripta Materialia</i> , 2021, 196, 113758.	2.6	26
30	Insight into the formation mechanism and interaction of matrix/TiB whisker textures and their synergistic effect on property anisotropy in titanium matrix composites. <i>Journal of Materials Science and Technology</i> , 2022, 110, 1-13.	5.6	25
31	Visual assessment of special rod-like β -Ti precipitates within the in situ TiC crystals and the mechanical responses of titanium matrix composites. <i>Composites Part B: Engineering</i> , 2022, 230, 109511.	5.9	25
32	Microstructure-Tensile Properties Correlation for the Ti-6Al-4V Titanium Alloy. <i>Journal of Materials Engineering and Performance</i> , 2015, 24, 1754-1762.	1.2	22
33	Prediction of the mechanical properties of forged Ti-10V-2Fe-3Al titanium alloy using FNN. <i>Computational Materials Science</i> , 2011, 50, 1009-1015.	1.4	21
34	Superior superplasticity and multiple accommodation mechanisms in TiB reinforced near- β titanium matrix composites. <i>Composites Part B: Engineering</i> , 2022, 238, 109940.	5.9	21
35	Constructing processing map of Ti40 alloy using artificial neural network. <i>Transactions of Nonferrous Metals Society of China</i> , 2011, 21, 159-165.	1.7	20
36	Investigation on the Microstructure of Direct Laser Additive Manufactured Ti6Al4V Alloy. <i>Materials Research</i> , 2015, 18, 24-28.	0.6	20

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37	Response relationship between loading condition and corrosion fatigue behavior of nickel-aluminum bronze alloy and its crack tip damage mechanism. <i>Materials Characterization</i> , 2018, 144, 356-367.	1.9	19
38	Microstructures and mechanical properties of hot indirect extruded in situ (TiB+TiC)/Ti6Al4V composites: Effect of extrusion temperature. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021, 811, 140988.	2.6	19
39	Controllable mechanical anisotropy of selective laser melted Ti6Al4V: A new perspective into the effect of grain orientations and primary grain structure. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021, 827, 142031.	2.6	19
40	Compressive response and microstructural evolution of bimodal sized particulates reinforced (TiB+La ₂ O ₃)/Ti composites. <i>Journal of Alloys and Compounds</i> , 2018, 732, 524-535.	2.8	18
41	Isothermal deformation and spheroidization mechanism of (TiB+La ₂ O ₃)/Ti composites with different initial structures. <i>Materials Characterization</i> , 2018, 146, 15-24.	1.9	18
42	Influences of heat treatment on fatigue crack growth behavior of NiAl bronze (NAB) alloy. <i>Journal of Materials Research</i> , 2015, 30, 3041-3048.	1.2	17
43	Temperature sensitivity of mechanical properties and microstructure during moderate temperature deformation of selective laser melted Ti-6Al-4V alloy. <i>Materials Characterization</i> , 2020, 165, 110342.	1.9	16
44	Texture Evolution and Dynamic Recrystallization Behavior of Hybrid-Reinforced Titanium Matrix Composites: Enhanced Strength and Ductility. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2020, 51, 2276-2290.	1.1	16
45	Effect of temperature on microstructure and mechanical properties of ECAPed (TiB+La ₂ O ₃)/Ti-6Al-4V composites. <i>Materials Characterization</i> , 2018, 146, 149-158.	1.9	15
46	Prediction of Tensile Property of Hydrogenated Ti600 Titanium Alloy Using Artificial Neural Network. <i>Journal of Materials Engineering and Performance</i> , 2011, 20, 335-340.	1.2	14
47	Fabrication and characterization of laminated Ti-(TiB+La ₂ O ₃)/Ti composite. <i>Progress in Natural Science: Materials International</i> , 2015, 25, 453-459.	1.8	14
48	Effect of Microstructures on Fatigue Crack Growth Behavior of Friction Stir Processed NiAl Bronze Alloy. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2017, 48, 1121-1132.	1.1	14
49	Particulate induced dynamic globularization/recrystallization and unique superplasticity in TiB/near- α Ti matrix composites. <i>Materials Characterization</i> , 2020, 167, 110458.	1.9	14
50	Simultaneously improving the strength and ductility of the as-sintered (TiB+La ₂ O ₃)/Ti composites by in-situ planting ultra-fine networks into the composite powder. <i>Scripta Materialia</i> , 2022, 218, 114835.	2.6	14
51	Modeling the relationship between hydrogen content and mechanical property of Ti600 alloy by using ANFIS. <i>Applied Mathematical Modelling</i> , 2013, 37, 5705-5714.	2.2	13
52	Investigation of the Microstructure and Corrosion Properties of Friction Stir Processed Cast NiAl Bronze. <i>Materials Transactions</i> , 2015, 56, 1523-1529.	0.4	13
53	Microstructure characteristics of ECAP-processed (TiB+La ₂ O ₃)/Ti-6Al-4V composites. <i>Journal of Alloys and Compounds</i> , 2017, 726, 57-66.	2.8	13
54	Synergistic strengthening behavior and microstructural optimization of hybrid reinforced titanium matrix composites during thermomechanical processing. <i>Materials Characterization</i> , 2020, 168, 110527.	1.9	12

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55	The Low-Cycle Fatigue Behavior, Failure Mechanism and Prediction of SLM Ti-6Al-4V Alloy with Different Heat Treatment Methods. <i>Materials</i> , 2021, 14, 6276.	1.3	12
56	Novel strategy of planting nano-TiB fibers with ultra-fine network distribution into Ti-composite powder and its thermal transition mechanism. <i>Composites Communications</i> , 2022, 29, 101002.	3.3	12
57	Intelligent method to develop constitutive relationship of Ti-6Al-2Zr-1Mo-1V alloy. <i>Transactions of Nonferrous Metals Society of China</i> , 2012, 22, 1457-1461.	1.7	8
58	A study on the prediction of mechanical properties of titanium alloy based on adaptive fuzzy-neural network. <i>Materials & Design</i> , 2011, 32, 3354-3360.	5.1	7
59	Microstructural evolution in titanium matrix composites processed by multi-pass equal-channel angular pressing. <i>Journal of Materials Science</i> , 2019, 54, 7931-7942.	1.7	6
60	Enhanced strength-ductility synergy in fiber-like structural titanium matrix composites by controlling TiB content. <i>Journal of Alloys and Compounds</i> , 2022, 915, 165399.	2.8	6
61	Flow behavior and processing map of forging commercial purity titanium powder compact. <i>Journal of Materials Research</i> , 2015, 30, 1056-1064.	1.2	5
62	Study on the Hot Processing Parameters-Impact Toughness Correlation of Ti-6Al-4V Alloy. <i>Journal of Materials Engineering and Performance</i> , 2016, 25, 1741-1748.	1.2	5
63	In-situ investigation on the anisotropic behavior of the additively manufactured dual-phase Ti-6Al-4V alloy. <i>Materials Characterization</i> , 2022, 189, 112003.	1.9	5
64	Influence of Post Heat Treatment on Microstructure and Mechanical Property of Ti6Al4V Parts Produced by Selective Laser Melting. <i>Materials Science Forum</i> , 0, 898, 1312-1317.	0.3	4
65	Understanding the Role of Multi-scale Reinforcements on Severe Plastic Deformation of Titanium Matrix Composites. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2020, 51, 1732-1743.	1.1	4
66	Optimizing the local microstructure and mechanical properties of variable section particulate reinforced titanium matrix composites component based on numerical simulation and isothermal forming. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022, 829, 142161.	2.6	4
67	Enhanced Ductility of $(\text{TiB}+\text{La}_{2}\text{O}_{3})/\text{IMI}834$ Composite by TRIPLEX Heat Treatment. <i>Materials Transactions</i> , 2016, 57, 1691-1697.	0.4	3
68	Effect of Heat Treatment on Creep Properties of in situ Synthesized $(\text{TiB}+\text{La}_{2}\text{O}_{3})/\text{Ti}$ Composite. <i>Frontiers in Materials</i> , 2019, 6, .	1.2	3
69	Understanding the High-Temperature Fatigue Crack Growth from Exceptional Nano- \pm Phases and $\{10\bar{1}0\}$ Deformation Twins in Hot Deformed Titanium Alloy. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2021, 52, 1212-1231.	1.1	3
70	Development of a database system for operational use in the selection of titanium alloys. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2011, 18, 444-449.	2.4	2
71	Quantitative analysis of the effect of β -phase on mechanical property of Ti-6Al-4V alloy during hot working process. <i>International Journal of Modern Physics B</i> , 2015, 29, 1540012.	1.0	2
72	The effect of severe plastic deformation on the microstructure and mechanical properties of $(\text{TiB}+\text{TiC})$ reinforced titanium matrix composites. <i>IOP Conference Series: Materials Science and Engineering</i> , 2017, 194, 012030.	0.3	2

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73	Analysis of Power-Split for the Transmission System Based on Deformation Compatibility. Applied Mechanics and Materials, 0, 441, 291-294.	0.2	1
74	Investigation of the Effect of Argon Arc Welding Parameters on Properties of Thin Plate of <i>In Situ</i> Titanium Matrix Composites. Materials Science Forum, 2016, 849, 436-442.	0.3	1
75	The Formation of 10^{-2} Deformation Twin in Hybrid TiB-TiC Reinforced Titanium Matrix Composites. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2021, 52, 350-363.	1.1	1
76	Modeling of Helical Gear Power Tri-Branching Transmission Based on Loaded Tooth Contact Analysis. Applied Mechanics and Materials, 0, 372, 543-546.	0.2	0
77	Deformation and fracture behavior of in-situ Ti composites reinforced with TiB/nano-sized particles. MATEC Web of Conferences, 2020, 321, 08004.	0.1	0
78	Multi-scale reinforcements stimulated dynamic recrystallization and mechanical behavior of as-extruded titanium matrix composites. MATEC Web of Conferences, 2020, 321, 08005.	0.1	0
79	Development of constitutive equations for hot working of titanium matrix composites. MATEC Web of Conferences, 2020, 321, 03033.	0.1	0