Shun Guo

List of Publications by Year
in descending order

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33	578	623734 14	642732 23
papers	citations	h-index	g-index

33	33	33	626
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Design and fabrication of a metastable Î²-type titanium alloy with ultralow elastic modulus and high strength. Scientific Reports, 2015, 5, 14688.	3.3	100
2	A metastable Î²-type Tiâ€“Nb binary alloy with low modulus and high strength. Journal of Alloys and Compounds, 2015, 644, 411-415.	5.5	50
3	A Î²-type TiNbZr alloy with low modulus and high strength for biomedical applications. Progress in Natural Science: Materials International, 2014, 24, 157-162.	4.4	44
4	Microstructural evolution and mechanical behavior of metastable Î²-type Tiâ€“25Nbâ€“2Moâ€“4Sn alloy with high strength and low modulusMicrostructural evolution and mechanical behavior of metastable Î²-type Tiâ€“25Nbâ€“2Moâ€“4Sn alloy with high strength and low modulusretain–>. Progress in Natural Science: Materials International, 2013, 23, 174-182.	4.4	31
5	Suppression of isothermal Ï‰ phase by dislocation tangles and grain boundaries in metastable Î²-type titanium alloys. Journal of Alloys and Compounds, 2013, 550, 35-38.	5.5	29
6	In situ synchrotron X-ray diffraction study of deformation behaviour of a metastable Î²-type Ti-33Nb-4Sn alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2017, 692, 81-89.	5.6	29
7	Design of low modulus Î²-type titanium alloys by tuning shear modulus C44. Journal of Alloys and Compounds, 2018, 745, 579-585.	5.5	29
8	A Novel Metastable Ti-25Nb-2Mo-4Sn Alloy with High Strength and Low Youngâ€™s Modulus. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2012, 43, 3447-3451.	2.2	23
9	A metastable Î²-type Zr-4Mo-4Sn alloy with low cost, low Young's modulus and low magnetic susceptibility for biomedical applications. Journal of Alloys and Compounds, 2018, 754, 232-237.	5.5	20
10	Design and fabrication of a low modulus Î²-type Tiâ€“Nbâ€“Zr alloy by controlling martensitic transformation. Rare Metals, 2018, 37, 789-794.	7.1	19
11	Î±â€² martensite Tiâ€“10Nbâ€“2Moâ€“4Sn alloy with ultralow elastic modulus and High strength. Materials Letters, 2014, 133, 236-239.	2.6	18
12	Microstructure and microhardness of a novel TiZrAlV alloy by laser gas nitriding at different laser powers. Rare Metals, 2020, 39, 270-278.	7.1	17
13	Metastable Î²-type Ti-30Nb-1Mo-4Sn Alloy with Ultralow Youngâ€™s Modulus and High Strength. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2014, 45, 547-550.	2.2	16
14	Design and fabrication of a (Î²+Î±") dual-phase Ti-Nb-Sn alloy with linear deformation behavior for biomedical applications. Journal of Alloys and Compounds, 2019, 805, 517-521.	5.5	16
15	A sandwich-structured Nb/NiTi composite with good bio-compatibility, near-linear-elastic deformation and large elastic admissible strain. Composites Part B: Engineering, 2021, 207, 108586.	12.0	14
16	Effect of thermo-mechanical treatment on mechanical and elastic properties of Tiâ€“36Nbâ€“5Zr alloy. Progress in Natural Science: Materials International, 2015, 25, 229-235.	4.4	13
17	Dynamic recrystallization behavior of Feâ€“20Crâ€“30Niâ€“0.6Nbâ€“2Alâ€“Mo alloy. Rare Metals, 2019, 38, 181-188.	7.1	13
18	Wear response of metastable Î²-type Tiâ€“25Nbâ€“2Moâ€“4Sn alloy for biomedical applications. Rare Metals, 2015, 34, 564-568.	7.1	12

#	Article	IF	Citations
19	Possible contribution of low shear modulus C44 to the low Young's modulus of Ti-36Nb-5Zr alloy. Applied Physics Letters, 2014, 105, .	3.3	10
20	One-step removal of insoluble oily compounds and water-miscible contaminants from water by underwater superoleophobic graphene oxide-coated cotton. Cellulose, 2017, 24, 5605-5614.	4.9	10
21	In situ synchrotron X-ray diffraction analysis of deformation behavior of a Nb/NiTi composite for biomedical applications. Rare Metals, 2021, 40, 600-606.	7.1	9
22	Microstructural evolution and mechanical behavior of metastable Î²-type Tiâ€“30Nbâ€“1Moâ€“4Sn alloy with low modulus and high strength. Progress in Natural Science: Materials International, 2015, 25, 414-418.	4.4	7
23	Tribological properties of Cu-based composites with S-doped NbSe2. Rare Metals, 2015, 34, 407-412.	7.1	7
24	Mechanism and threshold fluence of nanosecond pulsed laser paint removal. Rare Metals, 2022, 41, 1022-1031.	7.1	7
25	Deformation behavior of a novel sandwich-like TiNb/NiTi composite with good biocompatibility and superelasticity. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2020, 794, 139784.	5.6	6
26	Mechanisms of near-linear elastic deformation behavior in a binary metastable Î²-type Ti-Nb alloy with large recoverable strain. Materials Characterization, 2022, 187, 111858.	4.4	6
27	Uniaxial tensile deformation behavior of a sandwich-like structural TiNb-NiTi composite for biomedical applications. Rare Metals, 2021, 40, 3627-3634.	7.1	5
28	In Situ Synchrotron X-ray Diffraction Investigations of the Nonlinear Deformation Behavior of a Low Modulus Î²-Type Ti36Nb5Zr Alloy. Metals, 2020, 10, 1619.	2.3	4
29	Single crystal shear moduli of Î²-phase stabilized by thermomechanical treatment in TiNbSn alloys with ultralow elastic modulus. Materials Letters, 2021, 285, 129103.	2.6	4
30	Design and fabrication of a Nb/NiTi superelastic composite with high critical stress for inducing martensitic transformation and large recoverable strain for biomedical applications. Materials Science and Engineering C, 2020, 112, 110894.	7.3	3
31	Achieving a combination of decent biocompatibility and large near-linear-elastic deformation behavior in shell-core-like structural TiNb/NiTi composite. Journal of the Mechanical Behavior of Biomedical Materials, 2021, 123, 104789.	3.1	3
32	Direct evidence for competition between metastable Ï‰ and equilibrium Î± phases in aged Î²-type Ti alloys. Rare Metals, 2014, 33, 390-393.	7.1	2
33	Rare earth texture analysis of rectangular extruded Mg alloys and a comparison of different alloying adding ways. Rare Metals, 2016, 35, 850-857.	7.1	2