Yan Li

List of Publications by Year
in descending order

75 papers	1,946 citations	172457 29 h-index	289244 40 g-index
75 all docs	75 docs citations	75 times ranked	1733 citing authors

#	Article	IF	Citations
1	Microstructure and shape memory effect of Tiâ€“20Zrâ€“10Nb alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2010, 527, 652-656.	5.6	96
2	Shape memory behavior in Tiâ€“Zr alloys. Scripta Materialia, 2011, 64, 584-587.	5.2	89
3	Shape memory characteristics of dual-phase Niâ€“Mnâ€“Ga based high temperature shape memory alloys. Scripta Materialia, 2007, 57, 599-601.	5.2	77
4	Effects of tensile and compressive deformation on corrosion behaviour of a Mgâ€“Zn alloy. Corrosion Science, 2015, 90, 445-450.	6.6	76
5	Superelasticity, corrosion resistance and biocompatibility of the Tiâ€“19Zrâ€“10Nbâ€“1Fe alloy. Materials Science and Engineering C, 2015, 50, 179-186.	7.3	58
6	Highly efficient solar steam generation via mass-produced carbon nanosheet frameworks. Carbon, 2019, 145, 352-358.	10.3	57
7	In vitro and in vivo corrosion and histocompatibility of pure Mg and a Mg-6Zn alloy as urinary implants in rat model. Materials Science and Engineering C, 2016, 68, 414-422.	7.3	55
8	Effect of Ta2O5/TiO2 thin film on mechanical properties, corrosion and cell behavior of the NiTi alloy implanted with tantalum. Materials Science and Engineering C, 2010, 30, 1227-1235.	7.3	49
9	Niâ€“Mnâ€“Ga high-temperature shape memory alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2006, 438-440, 1065-1070.	5.6	48
10	Microstructures and shape memory characteristics of dual-phase Coâ€“Niâ€“Ga high-temperature shape memory alloys. Acta Materialia, 2010, 58, 3655-3663.	7.9	47
11	Nano-hardness, wear resistance and pseudoelasticity of hafnium implanted NiTi shape memory alloy. Journal of the Mechanical Behavior of Biomedical Materials, 2012, 13, 174-184.	3.1	47
12	Surface characteristics, nano-indentation and corrosion behavior of Nb implanted NiTi alloy. Surface and Coatings Technology, 2011, 205, 4404-4410.	4.8	44
13	Biodegradation behavior of magnesium and ZK60 alloy in artificial urine and rat models. Bioactive Materials, 2017, 2, 53-62.	15.6	41
14	In vitro corrosion properties and cytocompatibility of Fe-Ga alloys as potential biodegradable metallic materials. Materials Science and Engineering C, 2017, 71, 60-66.	7.3	41
15	In situ synchrotron X-ray diffraction investigations of the physical mechanism of ultra-low strain hardening in Ti-30Zr-10Nb alloy. Acta Materialia, 2018, 154, 45-55.	7.9	40
16	Ni ion release, osteoblastâ€“material interactions, and hemocompatibility of hafniumâ€implanted NiTi alloy. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2012, 100B, 646-659.	3.4	37
17	Microstructure and mechanical properties of sintered porous magnesium using polymethyl methacrylate as the space holder. Materials Letters, 2015, 161, 583-586.	2.6	37
18	Role of Graphene Oxide Liquid Crystals in Hydrothermal Reduction and Supercapacitor Performance. ACS Applied Materials & Interfaces, 2016, 8, 22316-22323.	8.0	37

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19	Characterization and cytocompatibility of hierarchical porous TiO2 coatings incorporated with calcium and strontium by one-step micro-arc oxidation. Materials Science and Engineering C, 2020, 109, 110610.	7.3	36
20	Mechanical properties and oxidation characteristics of TiNiAl(Nb) intermetallics. Intermetallics, 2007, 15, 778-782.	3.9	35
21	Phase transformation behaviors and mechanical properties of TiNiMo shape memory alloys. Intermetallics, 2005, 13, 357-360.	3.9	34
22	A nanopump for low-temperature and efficient solar water evaporation. Journal of Materials Chemistry A, 2019, 7, 24311-24319.	10.3	34
23	Constrained phase-transformation of a TiNi shape-memory alloy. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2003, 34, 219-223.	2.2	32
24	Recent advances in photocatalytic decomposition of water and pollutants for sustainable application. Chemosphere, 2021, 276, 130201.	8.2	32
25	Effect of Zr on the martensitic transformation and the shape memory effect in Ti-Zr-Nb-Ta high-temperature shape memory alloys. Journal of Alloys and Compounds, 2018, 737, 672-677.	5.5	32
26	In vitro corrosion behavior and cytocompatibility of pure Fe implanted with Ta. Surface and Coatings Technology, 2017, 320, 201-205.	4.8	31
27	Microstructures and phase transformations of Ti-30Zr-xNb (x = 5, 7, 9, 13 at.%) shape memory alloys. Materials Characterization, 2016, 122, 1-5.	4.4	30
28	Strain induced martensite stabilization and shape memory effect of Tiâ€“20Zrâ€“10Nbâ€“4Ta alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2016, 658, 28-32.	5.6	30
29	Surface microstructures and corrosion resistance of Ni-Ti-Nb shape memory thin films. Applied Surface Science, 2017, 414, 63-67.	6.1	30
30	Improved cytocompatibility of Mg-1Ca alloy modified by Zn ion implantation and deposition. Materials Letters, 2017, 205, 87-89.	2.6	29
31	Martensitic transformations and the shape memory effect in Ti-Zr-Nb-Al high-temperature shape memory alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2017, 679, 14-19.	5.6	28
32	Tribocorrosion behavior of Ti-30Zr alloy for dental implants. Materials Letters, 2018, 218, 190-192.	2.6	28
33	Shape memory effect and phase transformations of Tiâ€“19.5Zrâ€“10Nbâ€“0.5Fe alloy. Scripta Materialia, 2015, 101, 99-102.	5.2	27
34	Thermal stability of dual-phase Ni58Mn25Ga17 high-temperature shape memory alloy. Scripta Materialia, 2010, 63, 35-38.	5.2	26
35	Effect of annealing temperature on the microstructure and superelasticity of Ti-19Zr-10Nb-1Fe alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2017, 688, 464-469.	5.6	25
36	Tribological behaviour of biomedical Tiâ€“Zr-based shape memory alloys. Rare Metals, 2017, 36, 478-484.	7.1	25

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37	Effective inhibition of nickel release by tantalum-implanted TiNi alloy and its cyto-compatibility evaluation in vitro. Journal of Materials Science, 2011, 46, 2529-2535.	3.7	24
38	Micro-abrasionâ€“corrosion behaviour of a biomedical Tiâ€“25Nbâ€“3Moâ€“3Zrâ€“2Sn alloy in simulated physiological fluid. Journal of the Mechanical Behavior of Biomedical Materials, 2016, 63, 361-374.	3.1	24
39	Mechanical and shape memory properties of Ni54Mn25Ga21 high-temperature shape memory alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2006, 438-440, 978-981.	5.6	22
40	Two-stage recovery strain of prestrained TiNi shape memory alloy after phase transformations under constraint. Materials Letters, 2001, 47, 286-289.	2.6	21
41	DSC study of the reverse martensitic transformation in prestrained TiNi shape memory alloy in different composites. Materials Letters, 2001, 51, 73-77.	2.6	21
42	Tribocorrosion behaviour of a biomedical Ti-25Nb-3Mo-3Zr-2Sn alloy in Ringer's solution. Materials Science and Engineering C, 2017, 76, 1094-1102.	7.3	21
43	Martensitic transformation, shape memory effect and superelasticity of Tiâ€“xZrâ€“(30â€“x)Nbâ€“4Ta alloys. Rare Metals, 2019, 38, 965-970.	7.1	21
44	Surface characteristics and corrosion resistance of biodegradable magnesium alloy ZK60 modified by Fe ion implantation and deposition. Progress in Natural Science: Materials International, 2014, 24, 547-553.	4.4	20
45	Superelasticity over a wide temperature range in metastable Î²-Ti shape memory alloys. Journal of Alloys and Compounds, 2021, 853, 157090.	5.5	17
46	Corrosion Behavior of Fe/Zr Composite Coating on ZK60 Mg Alloy by Ion Implantation and Deposition. Coatings, 2018, 8, 261.	2.6	16
47	Enhanced wear resistance of NiTi alloy by surface modification with Nb ion implantation. Rare Metals, 2014, 33, 244-248.	7.1	14
48	Sulfur-doped mesoporous carbon via thermal reduction of CS₂ by Mg for high-performance supercapacitor electrodes and Li-ion battery anodes. RSC Advances, 2018, 8, 19964-19970.	3.6	13
49	Microstructures and optical properties of TiO2/ZrO2 nanotube/nanoporous heterofilm prepared by anodizing of Ti/Zr/Ti multilayer films. Applied Surface Science, 2020, 503, 144316.	6.1	13
50	Nano-hydroxyapatite coated TiO2 nanotubes on Ti-19Zr-10Nb-1Fe alloy promotes osteogenesis in vitro. Colloids and Surfaces B: Biointerfaces, 2021, 207, 112019.	5.0	13
51	Improving tribological behavior of laser textured Ti-20Zr-10Nb-4Ta alloy with dimple surface. Materials Letters, 2021, 305, 130876.	2.6	13
52	Strain induced martensite stabilization in Î² Ti-Zr-Nb shape memory alloy. Materials Letters, 2020, 259, 126914.	2.6	12
53	Formation and cytocompatibility of a hierarchical porous coating on Ti-20Zr-10Nb-4Ta alloy by micro-arc oxidation. Surface and Coatings Technology, 2020, 404, 126471.	4.8	12
54	Phase transformation behaviors of prestrained TiNi shape memory alloy fibers under the constraint of a hard substrate. Materials Letters, 2001, 49, 224-227.	2.6	11

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55	Phase transformations and microstructural evolution in Ti-19.5Zr-10Nb-0.5Fe shape memory alloys. Materials Characterization, 2017, 133, 156-164.	4.4	11
56	Phase transformation and microstructure evolution of the deformed Ti-30Zr-5Nb shape memory alloy. Materials Characterization, 2017, 126, 81-85.	4.4	10
57	Shape memory behavior of Tiâ€“20Zrâ€“10Nbâ€“5Al alloy subjected to annealing treatment. Rare Metals, 2016, 35, 831-835.	7.1	9
58	High-temperature deformation behavior of a beta Tiâ€“3.0Alâ€“3.5Crâ€“2.0Feâ€“0.1B alloy. Rare Metals, 2018, 37, 217-224.	7.1	9
59	Microstructure and mechanical properties of Nb- and Mo-modified NiTiâ€“Al-based intermetallics processed by isothermal forging. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2014, 594, 229-234.	5.6	8
60	Corrosion resistance and cytocompatibility of Ti-20Zr-10Nb-4Ta alloy surface modified by a focused fiber laser. Science China Materials, 2018, 61, 516-524.	6.3	8
61	Effects of annealing temperature on microstructures and shape memory effect of Ti-19Zr-11Nb-2Ta alloy sheets. Journal of Alloys and Compounds, 2022, 897, 162728.	5.5	8
62	Electrochemical and corrosion behaviors of sputtered TiNi shape memory films. Smart Materials and Structures, 2016, 25, 035039.	3.5	7
63	The design strategy of intelligent biomedical magnesium with controlled-release platform. Materials Science and Engineering C, 2019, 97, 254-263.	7.3	7
64	Antibacterial properties and cytocompatibility of Ti-20Zr-10Nb-4Ta alloy surface with Ag microparticles by laser treatment. Surface and Coatings Technology, 2021, 425, 127716.	4.8	7
65	Crystal size induced reduction in thermal hysteresis of Ni-Ti-Nb shape memory thin films. Applied Physics Letters, 2016, 108, .	3.3	5
66	Anodic film growth and silver enrichment during anodizing of an Mg-0.6â€¯at.% Ag alloy in fluoride-containing organic electrolytes. Electrochimica Acta, 2018, 280, 300-307.	5.2	5
67	Synergistic antibacterial photocatalytic and photothermal properties over bowl-shaped TiO2 nanostructures on Ti-19Zr-10Nb-1Fe alloy. International Journal of Energy Production and Management, 2022, 9, rbac025.	3.7	5
68	Phase stability and hardness of some ternary Tiâ€“Zr based shape memory alloys. International Journal of Smart and Nano Materials, 0, , 1-11.	4.2	4
69	Preparation of Ti-Nb-Fe-O Nanotubes on Ti10NbxFe Alloy and the Application for Photocatalytic Degradation under Solar Irradiation. Catalysts, 2021, 11, 327.	3.5	3
70	Improved corrosion behavior of high-purity Mg surface modified by laser scanning and polycaprolactone spin coating. Materials Letters, 2021, 297, 129886.	2.6	3
71	Anticorrosive and antibacterial smart integrated strategy for biomedical magnesium. Journal of Magnesium and Alloys, 2023, 11, 2789-2800.	11.9	3
72	Preparation and optoelectronic properties of TiO2 thin films codoped with iron and molybdenum. Rare Metals, 2011, 30, 238-242.	7.1	2

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73	Nanotubular ZrTiO₄ Prepared on Sputter Deposited Zrâ˜Ti Films by Anodization. ChemElectroChem, 2021, 8, 4136-4140.	3.4	2
74	Improvement in the superelasticity of Tiâ€“19Zrâ€“11Nbâ€“4Ta shape memory alloy caused by aging treatments. Journal of Materials Research and Technology, 2022, 19, 1293-1297.	5.8	2
75	Two-way shape memory effect in a Tiâ€“Zrâ€“Nbâ€“Ta high-temperature shape memory alloy. Rare Metals, 2024, 43, 1257-1262.	7.1	0