

Powder metallurgy of titanium “ past, present, and fu

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Porous Titanium Implants: A Review. <i>Advanced Engineering Materials</i> , 2018, 20, 1700648.	1.6	173
2	Research and Development of Ti and Ti alloys: Past, present and future. <i>IOP Conference Series: Materials Science and Engineering</i> , 0, 430, 012007.	0.3	8
3	An Efficient Powder Metallurgy Processing Route to Prepare High-Performance β -Ti-Nb Alloys Using Pure Titanium and Titanium Hydride Powders. <i>Metals</i> , 2018, 8, 516.	1.0	11
4	Preparation of Spherical Mo ₅ Si ₃ Powder by Inductively Coupled Thermal Plasma Treatment. <i>Metals</i> , 2018, 8, 604.	1.0	3
5	The Compactibility of Unsaturated Titanium Hydride Powders. <i>Journal of Materials Engineering and Performance</i> , 2018, 27, 5752-5761.	1.2	2
6	Mitigation of the Surface Oxidation of Titanium by Hydrogen. <i>Journal of Physical Chemistry C</i> , 2018, 122, 20691-20700.	1.5	15
7	The powder metallurgy performance of Ti-1Al-8V-5Fe alloys with unsaturated titanium hydride. <i>Materials and Manufacturing Processes</i> , 2018, 33, 1830-1834.	2.7	5
8	A Review of Metastable Beta Titanium Alloys. <i>Metals</i> , 2018, 8, 506.	1.0	392
9	Calciothermic Reduction and Electrolysis of Sulfides in CaCl ₂ Melt. <i>Minerals, Metals and Materials Series</i> , 2018, , 763-771.	0.3	2
10	Shape-controlled synthesis of titanium microparticles using calciothermic reduction concept. <i>Journal of Solid State Chemistry</i> , 2018, 267, 13-21.	1.4	5
11	Oxidation of Sintered β -Ti-0 Titanium. <i>Materials Science</i> , 2019, 54, 705-715.	0.3	0
12	Comparison of a commercial powder and a powder produced from Ti-6Al-4V chips and their effects on compacts sintered by the sinter-HIP method. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2019, 26, 878-888.	2.4	8
13	Review of the Effect of Oxygen on Titanium and Deoxygenation Technologies for Recycling of Titanium Metal. <i>Jom</i> , 2019, 71, 3209-3220.	0.9	30
14	Powder Size Influence on Tensile Properties and Porosity for PM Ti ₂ AlNb Alloy Prepared by Hot Isostatic Pressing. <i>Acta Metallurgica Sinica (English Letters)</i> , 2019, 32, 1329-1336.	1.5	8
15	Effect of Cold Rolling on Metal Hydrides. <i>Materials Transactions</i> , 2019, 60, 1571-1576.	0.4	25
16	Near Net Shape Manufacture of Titanium Alloy Components from Powder and Wire: A Review of State-of-the-Art Process Routes. <i>Metals</i> , 2019, 9, 689.	1.0	32
17	Effects of powder material and process parameters on the roll compaction, sintering and cold rolling of titanium sponge. <i>Powder Metallurgy</i> , 2019, 62, 307-321.	0.9	2
18	Preparation of spherical WTaMoNbV refractory high entropy alloy powder by inductively-coupled thermal plasma. <i>Materials Letters</i> , 2019, 255, 126513.	1.3	14

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19	Effect of Powder Size on Fatigue Properties of Ti-6Al-4V Powder Compact Using Hot Isostatic Pressing. <i>Jom</i> , 2019, 71, 3614-3620.	0.9	2
20	Low-cost and high-strength powder metallurgy Ti-Al-Mo-Fe alloy and its application. <i>Journal of Materials Science</i> , 2019, 54, 12049-12060.	1.7	15
21	Powder metallurgy of the porous Ti-13Nb-13Zr alloy of different powder grain size. <i>Materials and Manufacturing Processes</i> , 2019, 34, 915-920.	2.7	11
22	Production of Fine Titanium Powder from Titanium Sponge by the Shuttle of the Disproportionation Reaction in Molten NaCl-KCl. <i>Materials Transactions</i> , 2019, 60, 405-410.	0.4	5
23	Breaking through the strength-ductility trade-off dilemma in powder metallurgy Ti-6Al-4V titanium alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019, 754, 361-369.	2.6	45
24	High-Efficiency Preparation of Titanium through Electrolysis of Carbo-Sulfurized Titanium Dioxide. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 8340-8346.	3.2	18
25	Synthesis of Nb-Mo-Si based in situ composite powder by a hydrogenation-dehydrogenation reaction. <i>Materials Letters</i> , 2019, 248, 32-35.	1.3	3
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27	Development of lining materials for reactor vessel used in the CSIR titanium process. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019, 655, 012007.	0.3	2
28	Mechanical Properties of Ti-15Mo Alloy Prepared by Cryogenic Milling and Spark Plasma Sintering. <i>Metals</i> , 2019, 9, 1280.	1.0	7
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33	Manufacturing of Ti-10Nb based metal sheets by tape casting. <i>Materials Letters</i> , 2019, 237, 161-164.	1.3	15
34	An investigation of the reduction of TiO ₂ by Mg in H ₂ atmosphere. <i>Chemical Engineering Science</i> , 2019, 195, 484-493.	1.9	12
35	Characterization of Ti6Al4V-Ti6Al4V/30Ta Bilayer Components Processed by Powder Metallurgy for Biomedical Applications. <i>Metals and Materials International</i> , 2020, 26, 205-220.	1.8	13
36	Manufacturing of Titanium and Its Alloys. <i>Studies in Systems, Decision and Control</i> , 2020, , 61-74.	0.8	2

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38	Microstructure characterization of a high strength Ti-6Al-4V alloy prepared from a powder mixture of TiH ₂ and 60Al40V masteralloy powders. <i>Journal of Alloys and Compounds</i> , 2020, 818, 152815.	2.8	19
39	Analysis of microstructural facet fatigue failure in ultra-fine grained powder metallurgy Ti-6Al-4V produced through hydrogen sintering. <i>International Journal of Fatigue</i> , 2020, 131, 105355.	2.8	12
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46	Microstructure, mechanical and tribological properties of cold sprayed Ti6Al4V-CoCr composite coatings. <i>Composites Part B: Engineering</i> , 2020, 202, 108280.	5.9	28
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48	New development of powder metallurgy in automotive industry. <i>Journal of Central South University</i> , 2020, 27, 1611-1623.	1.2	17
49	Effect of arc plasma sintering process on formation of TiO ₂ surface layer for Ti-6Al-4V applications. <i>AIP Conference Proceedings</i> , 2020, , .	0.3	1
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57	Powder Casting: Producing Bulk Metal Components from Powder Without Compaction. Jom, 2020, 72, 3112-3120.	0.9	1
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81	Synthesis of Ti(C, O, N) from ilmenite at low temperature by a novel reducing and carbonitriding approach. <i>International Journal of Energy Research</i> , 2020, 44, 4861-4874.	2.2	9
82	Superior strength-ductility balance in hot pressed swarf-Ti-6Al-4V alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020, 788, 139574.	2.6	5
83	Prediction modeling of Type-I hot corrosion performance of Ti-Al-Mo-X (X=Cr, Mn) alloys in (Na ₂ SO ₄ /V ₂ O ₅) ₂ SO ₄ /Overlock 10 TF	2.8	31
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85	Comparison of deoxidation capability of solid solution and intermetallic titanium alloy powders deoxidized by calcium vapor. <i>Journal of Alloys and Compounds</i> , 2020, 828, 154220.	2.8	10
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147	Titanium and titanium based alloy prepared by spark plasma sintering method for biomedical implant applicationsâ€”a review. <i>Materials Research Express</i> , 2021, 8, 012001.	0.8	24
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