

Tao Chen

List of Publications by Year in descending order

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933447

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225
citing authors

#	ARTICLE	IF	CITATIONS
1	Laser cladding of nanoparticle TiC ceramic powder: Effects of process parameters on the quality characteristics of the coatings and its prediction model. Optics and Laser Technology, 2019, 116, 345-355.	4.6	75
2	Effects of heat treatment on microstructure and mechanical properties of TiC/TiB composite bioinert ceramic coatings in-situ synthesized by laser cladding on Ti6Al4V. Ceramics International, 2021, 47, 755-768.	4.8	46
3	Material removal model of ultrasonic elliptical vibration-assisted chemical mechanical polishing for hard and brittle materials. International Journal of Advanced Manufacturing Technology, 2017, 92, 81-99.	3.0	34
4	Effect of CeO ₂ on Microstructure and Wear Resistance of TiC Bioinert Coatings on Ti6Al4V Alloy by Laser Cladding. Materials, 2018, 11, 58.	2.9	33
5	Laser Cladding of Ti-Based Ceramic Coatings on Ti6Al4V Alloy: Effects of CeO ₂ Nanoparticles Additive on Wear Performance. Coatings, 2019, 9, 109.	2.6	33
6	Effect of Mo on Microstructures and Wear Properties of In Situ Synthesized Ti(C,N)/Ni-Based Composite Coatings by Laser Cladding. Materials, 2017, 10, 1047.	2.9	27
7	Laser Cladding In-Situ Ti(C,N) Particles Reinforced Ni-Based Composite Coatings Modified with CeO ₂ Nanoparticles. Metals, 2018, 8, 601.	2.3	25
8	Bioinert TiC ceramic coating prepared by laser cladding: Microstructures, wear resistance, and cytocompatibility of the coating. Surface and Coatings Technology, 2021, 423, 127635.	4.8	25
9	Path Planning for Laser Cladding Robot on Artificial Joint Surface Based on Topology Reconstruction. Algorithms, 2020, 13, 93.	2.1	11
10	Numerical simulation on evolution process of molten pool and solidification characteristics of melt track in selective laser melting of ceramic powder. Ceramics International, 2022, 48, 18302-18315.	4.8	11
11	Microstructure and Mechanical Properties of TiC/TiB Composite Ceramic Coatings In-Situ Synthesized by Ultrasonic Vibration-Assisted Laser Cladding. Coatings, 2022, 12, 99.	2.6	9
12	Process Parameter Optimization When Preparing Ti(C, N) Ceramic Coatings Using Laser Cladding Based on a Neural Network and Quantum-Behaved Particle Swarm Optimization Algorithm. Applied Sciences (Switzerland), 2020, 10, 6331.	2.5	8
13	Preparation of a hydroxyapatite-silver gradient bioactive ceramic coating with porous structure by laser cladding: A study of in vitro bioactivity. Ceramics International, 2022, 48, 30468-30481.	4.8	8
14	Combined Ultrasonic Elliptical Vibration and Chemical Mechanical Polishing of Monocrystalline Silicon. MATEC Web of Conferences, 2016, 82, 02001.	0.2	2
15	Growth pattern and morphology of micro nickel column by localized electrochemical deposition. , 2016, , .		1
16	Effect of voltage and gap on the morphology of the Ni micro-column by localized electrochemical deposition. , 2016, , .		0