

List of Publications by Year in descending order

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papers

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citing authors

#	ARTICLE	IF	CITATIONS
1	A review on wear-resistant coating with high hardness and high toughness on the surface of titanium alloy. <i>Journal of Alloys and Compounds</i> , 2021, 882, 160645.	5.5	93
2	In situ fabrication of titanium carbide particulates-reinforced iron matrix composites. <i>Materials & Design</i> , 2011, 32, 3790-3795.	5.1	53
3	Investigation of the adhesion strength and deformation behaviour of in situ fabricated NbC coatings by scratch testing. <i>Surface and Coatings Technology</i> , 2016, 299, 135-142.	4.8	46
4	New strategy to grow TiC coatings on titanium alloy: Contact solid carburization by cast iron. <i>Journal of Alloys and Compounds</i> , 2018, 745, 637-643.	5.5	43
5	Fracture toughness of WC-Fe cermet in W-WC-Fe composite by nanoindentation. <i>Journal of Alloys and Compounds</i> , 2017, 728, 788-796.	5.5	32
6	Evaluation of Fracture Toughness of Tantalum Carbide Ceramic Layer: A Vickers Indentation Method. <i>Journal of Materials Engineering and Performance</i> , 2016, 25, 3057-3064.	2.5	31
7	Fe-W-C thermodynamics and in situ preparation of tungsten carbide-reinforced iron-based surface composites by solid-phase diffusion. <i>International Journal of Refractory Metals and Hard Materials</i> , 2016, 57, 42-49.	3.8	30
8	Microstructure and kinetics study on tantalum carbide coating produced on gray cast iron in situ. <i>Surface and Coatings Technology</i> , 2016, 286, 347-353.	4.8	27
9	Microstructure and mechanical properties of TiC-Fe surface gradient coating on a pure titanium substrate prepared in situ. <i>Journal of Alloys and Compounds</i> , 2019, 771, 406-417.	5.5	26
10	Fabrication, microstructure and abrasive wear characteristics of an in situ tantalum carbide ceramic gradient composite. <i>Ceramics International</i> , 2015, 41, 12950-12957.	4.8	24
11	Fabrication of TaC coating on tantalum by interstitial carburization. <i>Journal of Alloys and Compounds</i> , 2019, 790, 189-196.	5.5	23
12	Preparation of a gradient nanostructured surface TaC layer-reinforced Fe substrate by in situ reaction. <i>Journal of Alloys and Compounds</i> , 2017, 712, 204-212.	5.5	22
13	Fabrication of Mo ₂ C coating on molybdenum by contact solid carburization. <i>Applied Surface Science</i> , 2018, 462, 48-54.	6.1	20
14	Microstructural and Mechanical Properties of In Situ WC-Fe/Fe Composites. <i>Journal of Materials Engineering and Performance</i> , 2015, 24, 4561-4568.	2.5	17
15	Microstructure and impact properties of Ta-TaC core-shell rod-reinforced iron-based composite fabricated by in situ solid-phase diffusion. <i>Journal of Alloys and Compounds</i> , 2018, 768, 340-348.	5.5	16
16	Infiltration casting and in situ fabrication of tantalum carbide particulate-reinforced iron matrix composites. <i>Journal of Composite Materials</i> , 2012, 46, 895-901.	2.4	13
17	Fabrication of niobium carbide coating on niobium by interstitial carburization. <i>International Journal of Refractory Metals and Hard Materials</i> , 2020, 88, 105187.	3.8	12
18	Growth kinetics of WC-Fe layer formed at the surface iron during solid-phase diffusion. <i>Ceramics International</i> , 2016, 42, 16941-16947.	4.8	11

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19	Effects of soaking time on the microstructure and mechanical properties of Nb-NbC/Fe core-shell rod-reinforced cast-iron-matrix composite fabricated through two-step in situ solid-phase diffusion. <i>Journal of Materials Research and Technology</i> , 2020, 9, 12308-12317.	5.8	11
20	A novel iron matrix composite fabricated by two-step in situ reaction: Microstructure, formation mechanism and mechanical properties. <i>Journal of Alloys and Compounds</i> , 2021, 855, 157442.	5.5	11
21	Fabrication of (Ta,W)C surface gradient layer on Ta-10W alloy by in situ solid-phase diffusion. <i>Applied Surface Science</i> , 2019, 493, 1317-1325.	6.1	10
22	Microstructure and formation mechanism of WC coating on tungsten fabricated by interstitial carburization: A multiscale investigation. <i>Applied Surface Science</i> , 2020, 513, 145868.	6.1	10
23	A key to tune the grain size gradient of the TiC coating on titanium by interstitial carburization: The timing for pressing. <i>Journal of Alloys and Compounds</i> , 2020, 817, 152725.	5.5	9
24	Microstructure and compressive properties of V ₈ C ₇ /Fe core-shell rod-reinforced iron-based composite fabricated via two-step in-situ reaction. <i>Vacuum</i> , 2020, 176, 109302.	3.5	7
25	Preparation of V ₈ C ₇ -Fe/iron dual-scale composite via two-step in situ reaction. <i>Journal of Materials Research and Technology</i> , 2020, 9, 4114-4122.	5.8	7
26	A new strategy to efficiently fabricate tungsten carbide coating on tungsten: Two-step interstitial carburization. <i>Surface and Coatings Technology</i> , 2020, 389, 125579.	4.8	6
27	Microstructure and mechanical properties of ZrC coating on zirconium fabricated by interstitial carburization. <i>Journal of Alloys and Compounds</i> , 2020, 834, 155110.	5.5	6
28	The investigation on the fabrication and microstructure of a novel core-shell structure reinforced iron matrix composite. <i>Vacuum</i> , 2021, 194, 110611.	3.5	6
29	Fabrication of a novel molybdenum carbide composite coating with double-layer structure on cast iron via in situ solid-phase diffusion. <i>Materials Characterization</i> , 2022, 183, 111613.	4.4	5
30	Microstructure and Fracture Toughness of Compact TiC-Fe Gradient Coating Fabricated on Cast Iron Substrate by Two-Step In Situ Reaction. <i>Jom</i> , 2020, 72, 2154-2163.	1.9	4
31	In Situ Preparation of Micro-Nano Tantalum Carbide Ceramic. <i>Jom</i> , 2020, 72, 2974-2982.	1.9	3
32	Microstructure, formation mechanism and mechanical properties of ZrC-Fe coating on cast iron via in situ solid-phase diffusion. <i>Journal of Materials Research and Technology</i> , 2021, 13, 727-736.	5.8	0