

Sophia Alexandra Tsipas

List of Publications by Year in descending order

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Version: 2024-02-01

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docs citations

59
times ranked

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citing authors

#	ARTICLE	IF	CITATIONS
1	Extrusion-based additive manufacturing of Ti ₃ SiC ₂ and Cr ₂ AlC MAX phases as candidates for high temperature heat exchangers. <i>Journal of the European Ceramic Society</i> , 2022, 42, 841-849.	2.8	8
2	Sinterability, Mechanical Properties and Wear Behavior of Ti ₃ SiC ₂ and Cr ₂ AlC MAX Phases. <i>Ceramics</i> , 2022, 5, 55-74.	1.0	5
3	Improvement of wear resistance of low-cost powder metallurgy Î ² -titanium alloys for biomedical applications. <i>Surface and Coatings Technology</i> , 2022, 434, 128207.	2.2	19
4	Strategies to Control In Vitro Degradation of Mg Scaffolds Processed by Powder Metallurgy. <i>Metals</i> , 2022, 12, 566.	1.0	0
5	Study of the synthesis of MAX phase Ti ₃ SiC ₂ powders by pressureless sintering. <i>Boletin De La Sociedad Espanola De Ceramica Y Vidrio</i> , 2021, 60, 41-52.	0.9	24
6	Injection moulding of porous MAX phase Ti ₃ SiC ₂ without using space-holder. <i>Powder Technology</i> , 2021, 380, 96-105.	2.1	8
7	Thermophysical properties of porous Ti ₂ AlC and Ti ₃ SiC ₂ produced by powder metallurgy. <i>Journal of Alloys and Compounds</i> , 2021, 857, 158145.	2.8	14
8	Effect of the Deposition Time and Heating Temperature on the Structure of Chromium Silicides Synthesized by Pack Cementation Process. <i>Corrosion and Materials Degradation</i> , 2021, 2, 210-226.	1.0	3
9	Multi-component boron and niobium coating on M2 high speed steel processed by powder metallurgy. <i>Surface and Coatings Technology</i> , 2020, 384, 125306.	2.2	16
10	Interactions between wear and corrosion on cast and sintered Ti-12Nb alloy in comparison with the commercial Ti-6Al-4V alloy. <i>Corrosion Science</i> , 2020, 176, 108925.	3.0	15
11	Beta Titanium Alloys Produced from Titanium Hydride: Effect of Alloying Elements on Titanium Hydride Decomposition. <i>Metals</i> , 2020, 10, 682.	1.0	15
12	Oxidation and Corrosion Behavior of New Low-Cost Ti-7Fe-3Al and Ti-7Fe-5Cr Alloys from Titanium Hydride Powders. <i>Metals</i> , 2020, 10, 254.	1.0	8
13	Development of Tiâ€“Nb and Tiâ€“Nbâ€“Fe beta alloys from TiH ₂ powders. <i>Powder Metallurgy</i> , 2019, 62, 44-53.	0.9	14
14	Dry sliding wear behaviour of Î ² -type Ti-Nb and Ti-Mo surfaces designed by diffusion treatments for biomedical applications. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2019, 91, 335-344.	1.5	26
15	DiseÃ±o y caracterizaciÃ³n de tres aleaciones multiprincipales ligeras potencialmente candidatas a aleaciones de alta entropÃa. <i>Revista De Metalurgia</i> , 2019, 55, 147.	0.1	2
16	Cellular behaviour of bone marrow stromal cells on modified Ti-Nb surfaces. <i>Materials and Design</i> , 2018, 140, 452-459.	3.3	23
17	Role of beta-stabilizing elements on the microstructure and mechanical properties evolution of modified PM Ti surfaces designed for biomedical applications. <i>Powder Metallurgy</i> , 2018, 61, 90-99.	0.9	5
18	In-vitro study of the bioactivity and cytotoxicity response of Ti surfaces modified by Nb and Mo diffusion treatments. <i>Surface and Coatings Technology</i> , 2018, 335, 148-158.	2.2	20

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19	Corrosion and tribocorrosion behaviour of β -type Ti-Nb and Ti-Mo surfaces designed by diffusion treatments for biomedical applications. <i>Corrosion Science</i> , 2018, 140, 51-60.	3.0	59
20	Influence of porosity on elastic properties of Ti ₂ AlC and Ti ₃ SiC ₂ MAX phase foams. <i>Journal of Alloys and Compounds</i> , 2018, 764, 24-35.	2.8	25
21	Experimental and thermodynamic considerations of Mg ₂ Si coatings deposited by pack cementation process. <i>Superlattices and Microstructures</i> , 2017, 101, 76-86.	1.4	3
22	Processing and analysis of FeNbC cermets. <i>International Journal of Refractory Metals and Hard Materials</i> , 2017, 62, 29-36.	1.7	4
23	Surface Modification of Powder Metallurgy Titanium by Colloidal Techniques and Diffusion Processes for Biomedical Applications. <i>Advanced Engineering Materials</i> , 2017, 19, 1600207.	1.6	6
24	The Effects of Nb and Mo Addition on Microstructure and Mechanical Behaviour of Ti-6Al-4V Alloy. <i>Journal of Surface Science and Technology</i> , 2017, 33, 53.	0.3	13
25	Molybdeno-Aluminizing of Powder Metallurgy and Wrought Ti and Ti-6Al-4V alloys by Pack Cementation process. <i>Materials Characterization</i> , 2016, 118, 494-504.	1.9	21
26	Boronizing of Iron-Based Alloys. , 2016, , 376-400.		4
27	MAX phase Ti ₂ AlC foams using a leachable space-holder material. <i>Journal of Alloys and Compounds</i> , 2015, 646, 1036-1042.	2.8	28
28	MAX phase foams produced via powder metallurgy process using water soluble space holder. <i>Powder Metallurgy</i> , 2015, 58, 95-99.	0.9	7
29	Cermets based on FeAl ϵ -NbC from composite powders: Design of composition and processing. <i>International Journal of Refractory Metals and Hard Materials</i> , 2015, 48, 324-332.	1.7	10
30	Influence of heat treatment on the high temperature oxidation mechanisms of an Fe ϵ -TiCN cermet. <i>Journal of Alloys and Compounds</i> , 2014, 591, 72-79.	2.8	27
31	Oxidation and corrosion protection by halide treatment of powder metallurgy Ti and Ti6Al4V alloy. <i>Corrosion Science</i> , 2014, 88, 263-274.	3.0	22
32	Influence of carbon content on the sinterability of an FeCr matrix cermet reinforced with TiCN. <i>International Journal of Refractory Metals and Hard Materials</i> , 2013, 36, 283-288.	1.7	25
33	Flow, thermal and structural application of Ni-foam as volumetric solar receiver. <i>Solar Energy Materials and Solar Cells</i> , 2013, 109, 185-191.	3.0	31
34	Microstructure and elevated-temperature erosion-oxidation behaviour of aluminized 9Cr-1Mo Steel. <i>Applied Surface Science</i> , 2012, 259, 674-684.	3.1	10
35	Green synthesis and characterization of silver nanoparticles produced using Arbutus Unedo leaf extract. <i>Materials Letters</i> , 2012, 76, 18-20.	1.3	210
36	Boro-aluminising of P91 steel by pack cementation for protection against steam oxidation. <i>Corrosion Engineering Science and Technology</i> , 2011, 46, 697-700.	0.7	2

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37	Effect of substrate temperature on the microstructure and properties of thick plasma-sprayed YSZ TBCs. Journal of the European Ceramic Society, 2011, 31, 2923-2929.	2.8	44
38	The use of dolomite as foaming agent and its effect on the microstructure of aluminium metal foams – Comparison to titanium hydride. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2011, 382, 118-123.	2.3	9
39	Fabrication and examination of oxidation resistance of zinc coated copper and brass components by chemical deposition. Surface Engineering, 2011, 27, 362-367.	1.1	7
40	Surface Modification of Nickel Foams by a Slurry Aluminizing Process. , 2010, , .		0
41	A novel method for producing Al-foams and evaluation of their compression behavior. Journal of Porous Materials, 2010, 17, 773-777.	1.3	21
42	Effect of dopants on the phase stability of zirconia-based plasma sprayed thermal barrier coatings. Journal of the European Ceramic Society, 2010, 30, 61-72.	2.8	108
43	Symmetry effects and their influence on the mechanical behavior of open and closed cell Al foams. Materials & Design, 2010, 31, 4490-4495.	5.1	7
44	Boride coatings obtained by pack cementation deposited on powder metallurgy and wrought Ti and Ti-6Al-4V. Surface and Coatings Technology, 2010, 205, 2340-2347.	2.2	30
45	The effect of Al and Cr additions on pack cementation zinc coatings. Applied Surface Science, 2010, 256, 3618-3623.	3.1	25
46	Determination of Mechanical and Corrosion Properties of Boride Coating on P91 Steel. Key Engineering Materials, 2010, 438, 89-96.	0.4	0
47	Aluminizing nickel foam by a slurry coating process. Materials Letters, 2009, 63, 1387-1389.	1.3	10
48	Sintering characteristics of plasma sprayed zirconia coatings containing different stabilisers. Surface and Coatings Technology, 2009, 203, 1069-1074.	2.2	100
49	Improvement of 9% Ferritic Steel Against Cyclic Oxidation by CVD-FBR Al-Mn Coating. Oxidation of Metals, 2008, 69, 77-94.	1.0	3
50	Boroaluminide coatings on ferritic-martensitic steel deposited by low-temperature pack cementation. Surface and Coatings Technology, 2008, 202, 3263-3271.	2.2	32
51	Study of the cyclic oxidation resistance of Al coated ferritic steels with 9 and 12%Cr. Corrosion Science, 2007, 49, 3850-3865.	3.0	36
52	Al-Mn CVD-FBR protective coatings for hot corrosion application. Surface and Coatings Technology, 2007, 201, 4489-4495.	2.2	10
53	A steady-state Bi-substrate technique for measurement of the thermal conductivity of ceramic coatings. Surface and Coatings Technology, 2006, 201, 1414-1420.	2.2	38
54	Silicon coating on ferritic steels by CVD-FBR technology. Surface and Coatings Technology, 2006, 201, 3953-3958.	2.2	6

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55	An Analytical Model for Simulation of Heat Flow in Plasma-Sprayed Thermal Barrier Coatings. Journal of Thermal Spray Technology, 2005, 14, 205-214.	1.6	78
56	The Effect of a High Thermal Gradient on Sintering and Stiffening in the Top Coat of a Thermal Barrier Coating System. Journal of Thermal Spray Technology, 2004, 13, 370-376.	1.6	59
57	Effect of high energy ball milling on titanium-hydroxyapatite powders. Powder Metallurgy, 2003, 46, 73-77.	0.9	8
58	MECHANICAL AND OXIDATION PROPERTIES OF Ni3Al-BASED ALLOYS. Materials and Manufacturing Processes, 2001, 16, 127-140.	2.7	4