Alina AgÃ¼ero

List of Publications by Year
in descending order

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51 papers	1,195 citations	331670 21 h-index	395702 33 g-index
51 all docs	51 docs citations	51 times ranked	857 citing authors

#	Article	IF	Citations
1	Thermal cyclic resistance and long term inter-diffusion properties of slurry aluminide coatings modified with Si. Results in Surfaces and Interfaces, 2022, 6, 100042.	2.4	3
2	Dynamic corrosion testing of metals in solar salt for concentrated solar power. Solar Energy Materials and Solar Cells, 2021, 232, 111331.	6.2	18
3	Steam Oxidation of Aluminide-Coated and Uncoated TP347HFG Stainless Steel under Atmospheric and Ultra-Supercritical Steam Conditions at 700 Â°C. Coatings, 2020, 10, 839.	2.6	3
4	Three-dimensional characterization of an oxide scale on ATI 718PlusÂ® superalloy. Corrosion Science, 2020, 169, 108634.	6.6	5
5	Durability testing of solar receiver coatings: Experimental results for T91 and VM12 substrates. AIP Conference Proceedings, 2020, , .	0.4	0
6	Microstructure of an oxide scale formed on ATI 718Plus superalloy during oxidation at 850 Â°C characterised using analytical electron microscopy. International Journal of Materials Research, 2019, 110, 42-48.	0.3	4
7	Microstructural studies of the scale on Sanicro 25 after 25,000â€¯h of oxidation in steam using advanced electron microscopy techniques. Surface and Coatings Technology, 2019, 377, 124901.	4.8	4
8	Accelerated aging of absorber coatings for CSP receivers under real high solar flux â€“ Evolution of their optical properties. Solar Energy Materials and Solar Cells, 2019, 193, 92-100.	6.2	29
9	Three-dimensional imaging and characterization of the oxide scale formed on a polycrystalline nickel-based superalloy. Scripta Materialia, 2019, 167, 16-20.	5.2	10
10	Microstructure, Chemical- and Phase Composition of Sanicro 25 Austenitic Steel After Oxidation in Steam at 700ÂÂ°C. Oxidation of Metals, 2018, 89, 183-195.	2.1	11
11	Long-term behaviour of Nb and Cr nitrides nanostructured coatings under steam at 650ÂÂ°C. Mechanistic considerations. Journal of Alloys and Compounds, 2018, 739, 549-558.	5.5	7
12	Accelerated ageing of solar receiver coatings: Experimental results for T91 and VM12 steel substrates. AIP Conference Proceedings, 2018, , .	0.4	7
13	Protective coatings for high temperature molten salt heat storage systems in solar concentration power plants. AIP Conference Proceedings, 2018, , .	0.4	19
14	High temperature molten salt corrosion behavior of aluminide and nickel-aluminide coatings for heat storage in concentrated solar power plants. Surface and Coatings Technology, 2018, 349, 1148-1157.	4.8	43
15	Aluminum Solid-Solution Coating for High-Temperature Corrosion Protection. Oxidation of Metals, 2017, 88, 145-154.	2.1	2
16	Aluminide slurry coatings for protection of ferritic steel in molten nitrate corrosion for concentrated solar power technology. AIP Conference Proceedings, 2017, , .	0.4	16
17	Performance of HIPIMS deposited CrN/NbN nanostructured coatings exposed to 650ÂÂ°C in pure steam environment. Materials Chemistry and Physics, 2016, 179, 110-119.	4.0	26
18	Diffusion and lifetime modeling for slurry aluminide coating on P92 at 650â€‰Â°C with a computational and experimental approach. Materials and Corrosion - Werkstoffe Und Korrosion, 2016, 67, 1261-1268.	1.5	3

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19	Corrosion Resistance of Novel Coatings on Ferritic Steels for Oxycombustionâ€“Supercritical Steam Boilers: Preliminary Results. Oxidation of Metals, 2016, 85, 263-281.	2.1	11
20	Laboratory corrosion testing of coatings and substrates simulating coal combustion under a low NO_x burner atmosphere. Materials and Corrosion - Werkstoffe Und Korrosion, 2014, 65, 149-160.	1.5	11
21	Effects of a Steam Pre-treatment on the Formation and Transformation of Alumina Phases on Fe Aluminide Coatings. Oxidation of Metals, 2013, 79, 601-611.	2.1	9
22	Anomalous steam oxidation behavior of a creep resistant martensitic 9Âwt. % Cr steel. Materials Chemistry and Physics, 2013, 141, 432-439.	4.0	11
23	Oxidation under pure steam: Cr based protective oxides and coatings. Surface and Coatings Technology, 2013, 237, 30-38.	4.8	35
24	Aluminum slurry coatings to replace cadmium for aeronautic applications. Surface and Coatings Technology, 2012, 213, 229-238.	4.8	22
25	Metal Dusting Protective Coatings. A Literature Review. Oxidation of Metals, 2011, 76, 23-42.	2.1	41
26	HVOF-Deposited WCCoCr as Replacement for Hard Cr in Landing Gear Actuators. Journal of Thermal Spray Technology, 2011, 20, 1292-1309.	3.1	53
27	Comparison between field and laboratory steam oxidation testing on aluminide coatings on P92. Materials and Corrosion - Werkstoffe Und Korrosion, 2011, 62, 561-568.	1.5	22
28	HVOF coatings for steam oxidation protection. Materials and Corrosion - Werkstoffe Und Korrosion, 2008, 59, 393-401.	1.5	20
29	Microstructures of thin and thick slurry aluminide coatings on Inconel 690. Surface and Coatings Technology, 2008, 202, 1479-1485.	4.8	38
30	Progress in the development of coatings for protection of new generation steam plant components. Energy Materials, 2008, 3, 35-44.	0.1	32
31	Deposition process of slurry iron aluminide coatings. Materials at High Temperatures, 2008, 25, 257-265.	1.0	23
32	Cyclic oxidation and mechanical behaviour of slurry aluminide coatings for steam turbine components. Surface and Coatings Technology, 2007, 201, 6253-6260.	4.8	100
33	Surface engineering and environmental issues. Revista De Metalurgia, 2007, 43, .	0.5	0
34	High temperature corrosion resistant coatings for gas turbine components. Revista De Metalurgia, 2007, 43, .	0.5	1
35	Steam Oxidation Testing of Coatings for Next Generation Steam Power Plant Components. Materials Science Forum, 2006, 522-523, 205-212.	0.3	9
36	Long exposure steam oxidation testing and mechanical properties of slurry aluminide coatings for steam turbine components. Surface and Coatings Technology, 2005, 200, 1219-1224.	4.8	90

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37	Low temperature MOCVD process for fast aluminium deposition on metallic substrates. Materials and Corrosion - Werkstoffe Und Korrosion, 2005, 56, 937-941.	1.5	11
38	Steam Oxidation of Slurry Aluminide Coatings on Ferritic Steels for Advanced Coal-Fired Steam Power Plants. Materials Science Forum, 2004, 461-464, 957-964.	0.3	30
39	Hot corrosion study of coated separator plates of molten carbonate fuel cells by slurry aluminides. Surface and Coatings Technology, 2002, 161, 293-301.	4.8	30
40	Steam Oxidation Resistant Coatings for Steam Turbine Components: A Feasibility Study. Materials Science Forum, 2001, 369-372, 939-946.	0.3	26
41	Thermal spray coatings for molten carbonate fuel cells separator plates. Surface and Coatings Technology, 2001, 146-147, 578-585.	4.8	27
42	Al Slurry Coatings for Molten Carbonate Fuel Cell Separator Plates. Materials Science Forum, 2001, 369-372, 759-766.	0.3	5
43	Recubrimientos protectores para componentes de turbinas de aviaciÃ³n y de generaciÃ³n de energÃa depositados por proyecciÃ³n por plasma. Boletin De La Sociedad Espanola De Ceramica Y Vidrio, 2000, 39, 540-547.	1.9	1
44	Novel Low Temperature CVD Process for TiN Coatings. Materials and Processing Report, 1991, 6, 4-5.	0.0	0
45	Crystal and molecular structure of the tungsten-carbene complex [cyclic] W[C(CH2)3CH2](OCH2-tert-Bu)2Br2 and of its gallium tribromide adduct. A structural approach to the mechanism of olefin metathesis. Journal of the American Chemical Society, 1988, 110, 1488-1493.	13.7	61
46	Transformation of ethanol into 1,3-butadiene over magnesium oxide/silica catalysts. Applied Catalysis, 1988, 43, 117-131.	0.8	104
47	Tungsten Wittig reagents: an efficient synthesis of Î±-functionalised tri- and tetrasubstituted alkenes. Journal of the Chemical Society Chemical Communications, 1986, , 531-533.	2.0	41
48	Recent advances in the chemistry of tungstenâ€"carbene complexes. Journal of Molecular Catalysis, 1986, 36, 1-12.	1.2	62
49	Generalized synthesis of pentaco-ordinated tungsten(IV) carbene complexes. Journal of the Chemical Society Chemical Communications, 1985, , 793.	2.0	21
50	Microstructural Evolution of Slurry Fe Aluminide Coatings during High Temperature Steam Oxidation. Materials Science Forum, 0, 595-598, 251-259.	0.3	29
51	Long Term Diffusion Studies in Fe Aluminide Coatings Deposited by Slurry Application on Ferritic Steel. Defect and Diffusion Forum, 0, 289-292, 243-251.	0.4	9