

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
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51
all docs

51
docs citations

51
times ranked

857
citing authors

#	ARTICLE	IF	CITATIONS
1	Transformation of ethanol into 1,3-butadiene over magnesium oxide/silica catalysts. Applied Catalysis, 1988, 43, 117-131.	0.8	104
2	Cyclic oxidation and mechanical behaviour of slurry aluminide coatings for steam turbine components. Surface and Coatings Technology, 2007, 201, 6253-6260.	4.8	100
3	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
4	Recent advances in the chemistry of tungsten-carbene complexes. Journal of Molecular Catalysis, 1986, 36, 1-12.	1.2	62
5	Crystal and molecular structure of the tungsten-carbene complex [cyclic] $W[C(CH_2)_3CH_2](OCH_2\text{-tert-Bu})_2Br_2$ 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
6	HVOF-Deposited WCCoCr as Replacement for Hard Cr in Landing Gear Actuators. Journal of Thermal Spray Technology, 2011, 20, 1292-1309.	3.1	53
7	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
8	Tungsten Wittig reagents: an efficient synthesis of β -functionalised tri- and tetrasubstituted alkenes. Journal of the Chemical Society Chemical Communications, 1986, , 531-533.	2.0	41
9	Metal Dusting Protective Coatings. A Literature Review. Oxidation of Metals, 2011, 76, 23-42.	2.1	41
10	Microstructures of thin and thick slurry aluminide coatings on Inconel 690. Surface and Coatings Technology, 2008, 202, 1479-1485.	4.8	38
11	Oxidation under pure steam: Cr based protective oxides and coatings. Surface and Coatings Technology, 2013, 237, 30-38.	4.8	35
12	Progress in the development of coatings for protection of new generation steam plant components. Energy Materials, 2008, 3, 35-44.	0.1	32
13	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
14	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
15	Microstructural Evolution of Slurry Fe Aluminide Coatings during High Temperature Steam Oxidation. Materials Science Forum, 0, 595-598, 251-259.	0.3	29
16	Accelerated aging of absorber coatings for CSP receivers under real high solar flux – Evolution of their optical properties. Solar Energy Materials and Solar Cells, 2019, 193, 92-100.	6.2	29
17	Thermal spray coatings for molten carbonate fuel cells separator plates. Surface and Coatings Technology, 2001, 146-147, 578-585.	4.8	27
18	Steam Oxidation Resistant Coatings for Steam Turbine Components: A Feasibility Study. Materials Science Forum, 2001, 369-372, 939-946.	0.3	26

#	ARTICLE	IF	CITATIONS
19	Performance of HIPIMS deposited CrN/NbN nanostructured coatings exposed to 650°C in pure steam environment. <i>Materials Chemistry and Physics</i> , 2016, 179, 110-119.	4.0	26
20	Deposition process of slurry iron aluminide coatings. <i>Materials at High Temperatures</i> , 2008, 25, 257-265.	1.0	23
21	Comparison between field and laboratory steam oxidation testing on aluminide coatings on P92. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , 2011, 62, 561-568.	1.5	22
22	Aluminum slurry coatings to replace cadmium for aeronautic applications. <i>Surface and Coatings Technology</i> , 2012, 213, 229-238.	4.8	22
23	Generalized synthesis of pentaco-ordinated tungsten(IV) carbene complexes. <i>Journal of the Chemical Society Chemical Communications</i> , 1985, , 793.	2.0	21
24	HVOF coatings for steam oxidation protection. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , 2008, 59, 393-401.	1.5	20
25	Protective coatings for high temperature molten salt heat storage systems in solar concentration power plants. <i>AIP Conference Proceedings</i> , 2018, , .	0.4	19
26	Dynamic corrosion testing of metals in solar salt for concentrated solar power. <i>Solar Energy Materials and Solar Cells</i> , 2021, 232, 111331.	6.2	18
27	Aluminide slurry coatings for protection of ferritic steel in molten nitrate corrosion for concentrated solar power technology. <i>AIP Conference Proceedings</i> , 2017, , .	0.4	16
28	Low temperature MOCVD process for fast aluminium deposition on metallic substrates. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , 2005, 56, 937-941.	1.5	11
29	Anomalous steam oxidation behavior of a creep resistant martensitic 9% Cr steel. <i>Materials Chemistry and Physics</i> , 2013, 141, 432-439.	4.0	11
30	Laboratory corrosion testing of coatings and substrates simulating coal combustion under a low NO _x burner atmosphere. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , 2014, 65, 149-160.	1.5	11
31	Corrosion Resistance of Novel Coatings on Ferritic Steels for Oxycombustion "Supercritical Steam Boilers: Preliminary Results. <i>Oxidation of Metals</i> , 2016, 85, 263-281.	2.1	11
32	Microstructure, Chemical- and Phase Composition of Sanicro 25 Austenitic Steel After Oxidation in Steam at 700°C. <i>Oxidation of Metals</i> , 2018, 89, 183-195.	2.1	11
33	Three-dimensional imaging and characterization of the oxide scale formed on a polycrystalline nickel-based superalloy. <i>Scripta Materialia</i> , 2019, 167, 16-20.	5.2	10
34	Steam Oxidation Testing of Coatings for Next Generation Steam Power Plant Components. <i>Materials Science Forum</i> , 2006, 522-523, 205-212.	0.3	9
35	Long Term Diffusion Studies in Fe Aluminide Coatings Deposited by Slurry Application on Ferritic Steel. <i>Defect and Diffusion Forum</i> , 0, 289-292, 243-251.	0.4	9
36	Effects of a Steam Pre-treatment on the Formation and Transformation of Alumina Phases on Fe Aluminide Coatings. <i>Oxidation of Metals</i> , 2013, 79, 601-611.	2.1	9

#	ARTICLE	IF	CITATIONS
37	Long-term behaviour of Nb and Cr nitrides nanostructured coatings under steam at 650°C. Mechanistic considerations. Journal of Alloys and Compounds, 2018, 739, 549-558.	5.5	7
38	Accelerated ageing of solar receiver coatings: Experimental results for T91 and VM12 steel substrates. AIP Conference Proceedings, 2018, , .	0.4	7
39	Al Slurry Coatings for Molten Carbonate Fuel Cell Separator Plates. Materials Science Forum, 2001, 369-372, 759-766.	0.3	5
40	Three-dimensional characterization of an oxide scale on ATI 718Plus® superalloy. Corrosion Science, 2020, 169, 108634.	6.6	5
41	Microstructure of an oxide scale formed on ATI 718Plus superalloy during oxidation at 850 °C characterised using analytical electron microscopy. International Journal of Materials Research, 2019, 110, 42-48.	0.3	4
42	Microstructural studies of the scale on Sanicro 25 after 25,000h of oxidation in steam using advanced electron microscopy techniques. Surface and Coatings Technology, 2019, 377, 124901.	4.8	4
43	Diffusion and lifetime modeling for slurry aluminide coating on P92 at 650°C with a computational and experimental approach. Materials and Corrosion - Werkstoffe Und Korrosion, 2016, 67, 1261-1268.	1.5	3
44	Steam Oxidation of Aluminide-Coated and Uncoated TP347HFG Stainless Steel under Atmospheric and Ultra-Supercritical Steam Conditions at 700 °C. Coatings, 2020, 10, 839.	2.6	3
45	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
46	Aluminum Solid-Solution Coating for High-Temperature Corrosion Protection. Oxidation of Metals, 2017, 88, 145-154.	2.1	2
47	Recubrimientos protectores para componentes de turbinas de aviación y de generación de energía depositados por proyección por plasma. Boletín De La Sociedad Española De Cerámica Y Vidrio, 2000, 39, 540-547.	1.9	1
48	High temperature corrosion resistant coatings for gas turbine components. Revista De Metalurgia, 2007, 43, .	0.5	1
49	Novel Low Temperature CVD Process for TiN Coatings. Materials and Processing Report, 1991, 6, 4-5.	0.0	0
50	Surface engineering and environmental issues. Revista De Metalurgia, 2007, 43, .	0.5	0
51	Durability testing of solar receiver coatings: Experimental results for T91 and VM12 substrates. AIP Conference Proceedings, 2020, , .	0.4	0