

Eddie LÃ³pez Honorato

List of Publications by Year in descending order

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51
papers

969
citations

394390

19
h-index

454934

30
g-index

51
all docs

51
docs citations

51
times ranked

860
citing authors

#	ARTICLE	IF	CITATIONS
1	Fluidized bed chemical vapor deposition of pyrolytic carbon â€“ I. Effect of deposition conditions on microstructure. Carbon, 2009, 47, 396-410.	10.3	80
2	TRISO coated fuel particles with enhanced SiC properties. Journal of Nuclear Materials, 2009, 392, 219-224.	2.7	63
3	Characterization of the anisotropy of pyrolytic carbon by Raman spectroscopy. Carbon, 2010, 48, 881-890.	10.3	63
4	Control of stoichiometry, microstructure, and mechanical properties in SiC coatings produced by fluidized bed chemical vapor deposition. Journal of Materials Research, 2008, 23, 1785-1796.	2.6	58
5	Structure and mechanical properties of pyrolytic carbon produced by fluidized bed chemical vapor deposition. Nuclear Engineering and Design, 2008, 238, 3121-3128.	1.7	53
6	Effect of the degree of oxidation of graphene oxide on As(III) adsorption. Journal of Hazardous Materials, 2020, 384, 121440.	12.4	53
7	Silver Diffusion in Coated Fuel Particles. Journal of the American Ceramic Society, 2010, 93, 3076-3079.	3.8	45
8	Thermal conductivity mapping of pyrolytic carbon and silicon carbide coatings on simulated fuel particles by time-domain thermoreflectance. Journal of Nuclear Materials, 2008, 378, 35-39.	2.7	43
9	Silver Diffusion in Silicon Carbide Coatings. Journal of the American Ceramic Society, 2011, 94, 3064-3071.	3.8	36
10	Fluidized bed chemical vapor deposition of pyrolytic carbon-III. Relationship between microstructure and mechanical properties. Carbon, 2015, 91, 346-357.	10.3	35
11	Fluidized bed chemical vapor deposition of pyrolytic carbon â€“ II. Effect of deposition conditions on anisotropy. Carbon, 2009, 47, 251-262.	10.3	33
12	Youngâ€™s modulus measurements of SiC coatings on spherical particles by using nanoindentation. Journal of Nuclear Materials, 2009, 393, 22-29.	2.7	30
13	Effect of UV radiation on the structure of graphene oxide in water and its impact on cytotoxicity and As(III) adsorption. Chemosphere, 2020, 249, 126160.	8.2	29
14	Fabrication of Silicon Carbide (SiC) Coatings from Pyrolysis of Polycarbosilane/Aluminum. Journal of Inorganic and Organometallic Polymers and Materials, 2011, 21, 534-540.	3.7	22
15	Characterization of the porosity in TRISO coated fuel particles and its effect on the relative thermal diffusivity. Nuclear Engineering and Design, 2013, 265, 668-674.	1.7	22
16	A study of the microstructure and mechanical properties of SiC coatings on spherical particles. Journal of the European Ceramic Society, 2012, 32, 1775-1786.	5.7	21
17	Effect of Microstructure on the Resilience of Silicon Carbide to Palladium Attack. Journal of the American Ceramic Society, 2010, 93, 4135-4141.	3.8	20
18	Improvements to the sintering of yttria-stabilized zirconia by the addition of Ni. Ceramics International, 2012, 38, 6777-6782.	4.8	20

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19	Silicon carbide polytype characterisation in coated fuel particles by Raman spectroscopy and ²⁹ Si magic angle spinning NMR. <i>Journal of Nuclear Materials</i> , 2013, 433, 199-205.	2.7	20
20	Silver and Cesium Diffusion Dynamics at the $\hat{1}^2$ -SiC $\hat{1}\hat{5}$ Grain Boundary Investigated with Density Functional Theory Molecular Dynamics and Metadynamics. <i>Journal of Physical Chemistry A</i> , 2014, 118, 915-926.	2.5	20
21	Polymer derived SiC environmental barrier coatings with superwetting properties. <i>Ceramics International</i> , 2017, 43, 11289-11295.	4.8	17
22	Effect of Thermal Treatment on Microstructure and Fracture Strength of SiC Coatings. <i>Journal of the American Ceramic Society</i> , 2013, 96, 1610-1616.	3.8	16
23	Density functional theory metadynamics of silver, caesium and palladium diffusion at $\hat{1}^2$ -SiC grain boundaries. <i>Journal of Nuclear Materials</i> , 2015, 458, 56-63.	2.7	15
24	Characterisation of the anisotropy of pyrolytic carbon coatings and the graphite matrix in fuel compacts by two modulator generalised ellipsometry and selected area electron diffraction. <i>Carbon</i> , 2012, 50, 680-688.	10.3	14
25	Development of ZrO ₂ and YSZ coatings deposited by PE-CVD below 800°C for the protection of Ni alloys. <i>Ceramics International</i> , 2020, 46, 15621-15630.	4.8	14
26	Coupling XRD, EXAFS, and ¹³ C NMR to Study the Effect of the Carbon Stoichiometry on the Local Structure of UC _{1±x} . <i>Inorganic Chemistry</i> , 2013, 52, 11669-11676.	4.0	12
27	Controlled Reduction of Graphene Oxide Using Sulfuric Acid. <i>Materials</i> , 2021, 14, 59.	2.9	11
28	Towards Cationic Gallium Derivatives: Metallacycles from the Reactions of Organogallium Compounds with Tetraorganodichalcogenoimidodiphosphinates and a New N-(Diphenylthiophosphinyl)thiourea Ligand. <i>European Journal of Inorganic Chemistry</i> , 2004, 2004, 3743.	2.0	10
29	Grain boundary complexions in silicon carbide. <i>Journal of the American Ceramic Society</i> , 2018, 101, 1009-1013.	3.8	10
30	A Study of the Microstructure and Vickers Indentation Fracture Toughness of Silicon Carbide Coatings on ^{TRISO} Fuel Particles. <i>Journal of the American Ceramic Society</i> , 2012, 95, 1086-1092.	3.8	9
31	Deposition of TRISO Particles With Superhard SiC Coatings and the Characterization of Anisotropy by Raman Spectroscopy. <i>Journal of Engineering for Gas Turbines and Power</i> , 2009, 131, .	1.1	8
32	Analysis of the anisotropy, stoichiometry and polytypes in pyrolytic carbon and silicon carbide coatings. <i>Journal of Nuclear Materials</i> , 2013, 432, 334-340.	2.7	8
33	Structure of UC ₂ and U ₂ C ₃ : XRD, ¹³ C NMR and EXAFS study. <i>Journal of Alloys and Compounds</i> , 2014, 589, 234-239.	5.5	8
34	Grain-boundary type and distribution in silicon carbide coatings and wafers. <i>Journal of Nuclear Materials</i> , 2018, 500, 176-183.	2.7	7
35	Production of few-layer graphene by wet media milling using organic solvents and different types of graphite. <i>Ceramics International</i> , 2020, 46, 2413-2420.	4.8	7
36	The effect of heat treatment on the microstructure and diffusion of silver in pyrolytic carbon coatings. <i>Carbon</i> , 2016, 109, 542-551.	10.3	6

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37	Influence of SiC microstructure on its corrosion behavior in molten FLiNaK salt. <i>Ceramics International</i> , 2021, 47, 15527-15532.	4.8	6
38	Impact of secondary salts, temperature, and pH on the colloidal stability of graphene oxide in water. <i>Nanoscale Advances</i> , 2022, 4, 2435-2443.	4.6	6
39	The chemical durability of glass and graphite-glass composite doped with cesium oxide. <i>Journal of Nuclear Materials</i> , 2013, 432, 529-538.	2.7	3
40	Polymer-derived SiC/C/Al environmental barrier coatings on carbon steel. <i>Advances in Applied Ceramics</i> , 2020, 119, 456-461.	1.1	3
41	Comparative study of three yttrium organometallic compounds for the stabilization of the cubic phase in YSZ deposited by PE-CVD. <i>Ceramics International</i> , 2021, 47, 4611-4624.	4.8	3
42	Elimination of Al ₄ C ₃ ; Phase in Al/SiC/P; Composites by HYSYCVD. <i>Materials Science Forum</i> , 0, 755, 9-14.	0.3	2
43	In silico design of calixarene-based arsenic acid removal agents. <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , 2016, 85, 169-174.	1.6	2
44	Production of aluminum nanoparticles by wet mechanical milling. <i>MRS Advances</i> , 2020, 5, 3133-3140.	0.9	2
45	Effect of Deposition Conditions on Phase Content and Mechanical Properties of Yttria-Stabilized Zirconia Thin Films Deposited by Sol-Gel/Dip-Coating. <i>Journal of Nanomaterials</i> , 2021, 2021, 1-9.	2.7	2
46	Understanding the 1600°C Fuel Temperature Limit of TRISO Coated Fuel Particles. <i>Materials Research Society Symposia Proceedings</i> , 2015, 1769, 1.	0.1	1
47	Effect of palladium on the microstructure and grain boundary complexions in SiC. <i>Journal of the American Ceramic Society</i> , 2019, 102, 6439-6442.	3.8	1
48	In Focus: Materials and the Environment Symposium. <i>Journal of Chemical Technology and Biotechnology</i> , 2016, 91, 2147-2147.	3.2	0
49	In focus: materials and the environment symposium (XXVII IMRC M ^o xico). <i>Journal of Chemical Technology and Biotechnology</i> , 2019, 94, 3427-3427.	3.2	0
50	Estudio piloto para la deposición de circona mediante plasma CVD. <i>Nexo</i> , 2021, 34, 15-30.	0.1	0
51	Corrosion behavior of ZrO ₂ and YSZ in molten FLiNaK salt. <i>MRS Advances</i> , 2022, 7, 19.	0.9	0