

Hector Carreon

List of Publications by Year in descending order

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76
papers

383
citations

759055

12
h-index

887953

17
g-index

79
all docs

79
docs citations

79
times ranked

216
citing authors

#	ARTICLE	IF	CITATIONS
1	Thermoelectric detection of spherical tin inclusions in copper by magnetic sensing. Journal of Applied Physics, 2000, 88, 6495-6500.	1.1	25
2	Role of anisotropy in noncontacting thermoelectric materials characterization. Journal of Applied Physics, 2002, 91, 225.	1.1	25
3	Thermoelectric Nondestructuve Evaluation of Residual Stress in Shot-Peened Metals. Research in Nondestructuve Evaluation, 2002, 14, 59-80.	0.5	25
4	Utilization of Ultrasonic Measurements for Determining the Variations in Microstructure of Thermally Degraded 2205 Duplex Stainless Steel. Journal of Nondestructuve Evaluation, 2009, 28, 131-139.	1.1	22
5	Study of aging effects in a Ti-6Al-4V alloy with Widmanstätten and equiaxed microstructures by non-destructive means. AIP Conference Proceedings, 2014, , .	0.3	18
6	On the role of material property gradients in noncontacting thermoelectric NDE. NDT and E International, 2003, 36, 339-348.	1.7	17
7	Assessment of blasting induced effects on medical 316 LVM stainless steel by contacting and non-contacting thermoelectric power techniques. Surface and Coatings Technology, 2012, 206, 2941-2946.	2.2	17
8	Significance of the contacting and no contacting thermoelectric power measurements applied to grit blasted medical Ti6Al4V. Materials Science and Engineering C, 2013, 33, 1417-1422.	3.8	16
9	Thermoelectric detection of the magnetic field by fluxgate gradiometer on subsurface tin inclusions embedded in a copper bar. NDT and E International, 2006, 39, 22-28.	1.7	15
10	Thermoelectric non-destructive texture characterization in Ti-6Al-4V. NDT and E International, 2006, 39, 433-440.	1.7	15
11	Fretting damage assessment in Ti-6Al-4V by magnetic sensing. Wear, 2008, 265, 255-260.	1.5	14
12	Characterization of the alumina-zirconia ceramic system by ultrasonic velocity measurements. Materials Characterization, 2009, 60, 875-881.	1.9	13
13	Photocatalytic degradation of organic dyes by mesoporous nanocrystalline anatase. Materials Chemistry and Physics, 2011, 125, 474-478.	2.0	12
14	Detection of creep damage in a nickel-based superalloy turbine bucket using eddy current imaging. Nondestructuve Testing and Evaluation, 2009, 24, 233-241.	1.1	11
15	The effect of thermal aging on the strength and the thermoelectric power of the Ti-6Al-4V alloy. Physical Mesomechanics, 2017, 20, 447-456.	1.0	11
16	Nondestructuve characterization of the level of plastic deformation by thermoelectric power measurements in cold-rolled Ti-6Al-4V samples. Nondestructuve Testing and Evaluation, 2007, 22, 299-311.	1.1	10
17	Thermoelectric detection of hard alpha inclusion in Ti-6Al-4V by magnetic sensing. Journal of Alloys and Compounds, 2007, 427, 183-189.	2.8	10
18	Assessment of precipitates of aged Ti-6Al-4V alloy by ultrasonic attenuation. Philosophical Magazine, 2017, 97, 58-68.	0.7	10

#	ARTICLE	IF	CITATIONS
19	Thermoelectric detection of fretting damage in aerospace materials. Russian Journal of Nondestructive Testing, 2014, 50, 684-692.	0.3	9
20	Relation between hardness and ultrasonic velocity on pipeline steel welded joints. Nondestructive Testing and Evaluation, 2016, 31, 97-108.	1.1	8
21	Characterization of laser peening-induced effects on a biomedical Ti6Al4V alloy by thermoelectric means. Optical Engineering, 2014, 53, 122502.	0.5	7
22	Thermoelectric detection of inclusions in metallic biomaterials by magnetic sensing. AIP Advances, 2017, 7, .	0.6	7
23	On the exploitation of thermoelectric coupling for characterization of elliptical inclusions in metals. Experimental Thermal and Fluid Science, 2013, 44, 673-679.	1.5	6
24	Nondestructive Magnetic Monitoring of Residual Stresses in a Medical Ti-6Al-4V ELI Alloy Using a Fluxgate Sensor. Physical Mesomechanics, 2020, 23, 160-166.	1.0	6
25	On the evaluation of global laser-induced effects on a medical Ti-6Al-4V alloy by non-destructive techniques. Nondestructive Testing and Evaluation, 2019, 34, 193-204.	1.1	5
26	Study of the Degradation Effects on Aged Wood Beams from the Cathedral of Morelia, Mexico by Acoustic Birefringence Measurements. Russian Journal of Nondestructive Testing, 2020, 56, 1042-1049.	0.3	4
27	Monitoring of the Level of Residual Stress in Surface-Treated Specimens by a Noncontacting Thermoelectric Technique. AIP Conference Proceedings, 2003, , .	0.3	3
28	ACPD detection and evaluation of 475 °C embrittlement of aged 2507 super duplex stainless steels. AIP Conference Proceedings, 2017, , .	0.3	3
29	Study of the Precipitation Process in Aging Steel Pipeline Weldments by Thermoelectric Power Means. Applied Sciences (Switzerland), 2018, 8, 1489.	1.3	3
30	Ultrasonic determination of the elastic and shear modulus on aged wood. , 2019, , .		3
31	Behavior and Removal of Inclusions by Means of the Use of Mathematical and Physical Simulations as Well as the Measured Vibrations with an Accelerometer in a Funnel Mold in Thin Slab Continuous Casting. ISIJ International, 2015, 55, 1017-1024.	0.6	3
32	Sensing of Ellipsoidal Inclusions in a Biomedical Ti-6Al-4V Alloy by Magnetic Means. Russian Journal of Nondestructive Testing, 2019, 55, 785-790.	0.3	3
33	Thermoelectric Background Signature Due to the Presence of Material Property Gradients. AIP Conference Proceedings, 2004, , .	0.3	2
34	ULTRASONIC ATTENUATION MEASUREMENTS IN THERMALLY DEGRADED 2205 DUPLEX STAINLESS STEEL. , 2009, , .		2
35	Determination of the Elastic Properties at Aging of Medical Ti-6Al-4V ELI Alloy by Ultrasonic Velocity Measurements. Physical Mesomechanics, 2020, 23, 32-38.	1.0	2
36	Determination of the magnetic signature due to the presence of a nonlinear material property gradient in a nickel-based superalloy by thermoelectric means. NDT and E International, 2022, 128, 102629.	1.7	2

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37	Influence of plasma nitriding treatment on the micro-scale abrasive wear behavior of AISI 4140 steel. Materials Letters, 2022, 324, 132629.	1.3	2
38	On the exploitation of thermoelectric coupling for characterization of inclusions in metals. AIP Conference Proceedings, 2001, , .	0.3	1
39	Noncontacting thermoelectric detection of spherical inclusions in copper by magnetic sensing. AIP Conference Proceedings, 2001, , .	0.3	1
40	ANALYSIS OF SHEAR WAVE ACOUSTIC VELOCITY IN 2205 DUPLEX STAINLESS STEEL. AIP Conference Proceedings, 2008, , .	0.3	1
41	STUDY OF AGING EFFECTS IN 2205 DUPLEX STAINLESS STEEL USING THERMOELECTRIC POWER MEASUREMENT. , 2010, , .		1
42	NDE evaluation of the intergranular corrosion susceptibility of a 2205 duplex stainless steel using thermoelectric power and double loop electrochemical potentiokinetic reactivation methods. AIP Conference Proceedings, 2013, , .	0.3	1
43	Nondestructive thermoelectric evaluation of the grit blasting induced effects in metallic biomaterials. , 2013, , .		1
44	Detection of fretting damage in aerospace materials by thermoelectric means. , 2013, , .		1
45	Study of ultrasonic attenuation on aging precipitation in a Ti-6Al-4V alloy. AIP Conference Proceedings, 2017, , .	0.3	1
46	XPS Study of Corrosion Deposit in Stainless Steel Hardfacing. Microscopy and Microanalysis, 2018, 24, 1086-1087.	0.2	1
47	Structural Characterization of Cu10Mo Alloy Synthesized by Mechanical Alloying. Microscopy and Microanalysis, 2018, 24, 800-801.	0.2	1
48	Application of the thermoelectric effect for monitoring aging effects on Inconel 600. AIP Conference Proceedings, 2019, , .	0.3	1
49	Evaluation of the Precipitation Process of a Clad Pipe by the Thermoelectric Potential Technique. Metals, 2019, 9, 1274.	1.0	1
50	Analysis of microstructural parameters and quantification of phases in a plasma-nitrided AISI 4140 steel. Philosophical Magazine Letters, 2020, 100, 452-460.	0.5	1
51	Novel sustainable metallic powder production process with water used as milling medium. Clean Technologies and Environmental Policy, 2021, , 1-8.	2.1	1
52	Evaluation of Thermoelectric Methods for the Detection of Fretting Damage in 7075-T6 and Ti-6Al-4V Alloys. , 2015, , 435-442.		1
53	Ultrasonic Characterization of the Elastic Constants in an Aging Ti-6Al-4V ELI Alloy. , 2019, , .		1
54	Determination of the acoustic anisotropy on a recent and aged Mexican pine wood by ultrasound. , 2020, , .		1

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55	Anisotropic effects in noncontacting thermoelectric material characterization. AIP Conference Proceedings, 2002, , .	0.3	0
56	Thermoelectric nondestructive evaluation of residual stress in shot-peened metals. AIP Conference Proceedings, 2002, , .	0.3	0
57	CHARACTERIZATION OF THE LEVEL OF PLASTIC DEFORMATION IN COLD-ROLLED TI-6AL-4V SAMPLES BY THERMOELECTRIC POWER MEASUREMENTS. , 2009, , .		0
58	Non-Destructive Evaluation of Creep Damage in a Nickel Base Super-Alloy Turbine Bucket. , 2009, , .		0
59	Thermoelectric assessment of laser peening induced effects on a metallic biomaterial Ti6Al4V. , 2014, , .		0
60	Detection of Metallic Inclusions in Metals by Thermoelectric Coupling. Materials Research Society Symposia Proceedings, 2015, 1735, 98.	0.1	0
61	Synthesis of Ti-Nb-Ta-Zr Alloys Foams by Powder Metallurgy. Microscopy and Microanalysis, 2015, 21, 1043-1044.	0.2	0
62	Synthesis of Ti-Nb-Ta-Mn Alloys by Mechanical Alloying. Microscopy and Microanalysis, 2015, 21, 1045-1046.	0.2	0
63	Ultrasonic velocity testing of steel pipeline welded joints. , 2017, , .		0
64	Physical Simulation Behavior of the Slag in Gas Injection with Non-consumable Lance and Porous Plug for Secondary Refining Operations. Transactions of the Indian Institute of Metals, 2019, 72, 3261-3268.	0.7	0
65	Characterization of steel pipeline welded joints with artificial aging using TEP measurements. AIP Conference Proceedings, 2019, , .	0.3	0
66	Thermoelectric Nondestructive Characterization of Subsurface Inclusions. , 2005, , .		0
67	Effects of Texture on Thermoelectric Power in Ti-6Al-4V. , 2006, , .		0
68	Detection of Fretting Damage in a Titanium Alloy by the Magnetic Sensing of Thermoelectric Currents. , 2008, , .		0
69	Characterization of Grit Blasted Metallic Biomaterials by Thermoelectric Power Measurements. , 0, , 443-450.		0
70	High resolution transmission electron microscopy and molecular simulation analysis of $\mu\text{-Fe}_{2-3}\text{N}$ and Fe_4N formation for a nitrided 4140 steel. Revista De Metalurgia, 2015, 51, e041.	0.1	0
71	Superficial modification of a Ti-6Al-4V alloy by laser peening. , 2017, , .		0
72	Study of aluminum content in a welding metal by thermoelectric measurements. , 2018, , .		0

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73	Evaluation of a cladding steel pipe artificially aged by NDE. , 2020, , .		0
74	On the Exploitation of Thermoelectric Coupling for Characterization of Inclusions in Metals. , 2000, , .		0
75	Characterization of Shot-Peened Surfaces by a Noncontacting Thermoelectric Method. , 2000, , .		0
76	Electromagnetic Sensing of the Corrosion at Different Microstructural Phases in a Medical Ti-6Al-4V ELI Alloy. IEEE Transactions on Magnetics, 2022, 58, 1-4.	1.2	0