AidÃ© M Torres-Huerta

List of Publications by Year
in descending order

104 papers	1,568 citations	361045 20 h-index	377514 34 g-index
104 all docs	104 docs citations	104 times ranked	2180 citing authors

#	Article	IF	Citations
1	Electrochemical performance of Niâ€“RE (RE = rare earth) as electrode material for hydrogen evolution reaction in alkaline medium. International Journal of Hydrogen Energy, 2011, 36, 135-151.	3.8	122
2	Kinetics of hydrogen evolution reaction on stabilized Ni, Pt and Niâ€“Pt nanoparticles obtained by an organometallic approach. International Journal of Hydrogen Energy, 2012, 37, 4798-4811.	3.8	77
3	Synthesis and electrochemical characterization of stabilized nickel nanoparticles. International Journal of Hydrogen Energy, 2009, 34, 1664-1676.	3.8	62
4	Comparative assessment of miscibility and degradability on PET/PLA and PET/chitosan blends. European Polymer Journal, 2014, 61, 285-299.	2.6	61
5	Influence of ZrO2 nanoparticles and thermal treatment on the properties of PMMA/ZrO2 hybrid coatings. Journal of Alloys and Compounds, 2015, 643, S150-S158.	2.8	52
6	Kinetic study of hydrogen evolution reaction on Ni30 Mo70, Co30Mo70, Co30Ni70 and Co10Ni20Mo70 alloy electrodes. Materials Characterization, 2005, 55, 83-91.	1.9	48
7	Characterization of cerium-based conversion coatings for corrosion protection of AISI-1010 commercial carbon steel. Journal of Solid State Electrochemistry, 2009, 13, 1785-1799.	1.2	45
8	Production of dietary fibers from sugarcane bagasse and sugarcane tops using microwave-assisted alkaline treatments. Industrial Crops and Products, 2019, 135, 159-169.	2.5	43
9	Characterization of ceramic solâ€“gel coatings as an alternative chemical conversion treatment on commercial carbon steel. Electrochimica Acta, 2009, 54, 2932-2940.	2.6	40
10	Solid solutions of La-doped BiFeO3 obtained by the Pechini method with improvement in their properties. Ceramics International, 2014, 40, 9225-9233.	2.3	40
11	Effect of the Heavy Metals Cu, Ni, Cd and Zn on the Growth and Reproduction of Epigeic Earthworms (E. fetida) during the Vermistabilization of Municipal Sewage Sludge. Water, Air, and Soil Pollution, 2012, 223, 915-931.	1.1	39
12	Morphological and Mechanical Properties Dependence of PLA Amount in PET Matrix Processed by Single-Screw Extrusion. Polymer-Plastics Technology and Engineering, 2016, 55, 672-683.	1.9	35
13	Synthesis and surface characterization of the La0.7-xPrxCa0.3MnO3 (LPCM) perovskite by a non-conventional microwave irradiation method. Journal of Alloys and Compounds, 2018, 735, 1750-1758.	2.8	35
14	Effect of deposition parameters on structural, mechanical and electrochemical properties in Ti/TiN thin films on AISI 316L substrates produced by r. f. magnetron sputtering. Journal of Alloys and Compounds, 2018, 746, 688-698.	2.8	33
15	Microwave-assisted hydrothermal synthesis of CePO4 nanostructures: Correlation between the structural and optical properties. Journal of Alloys and Compounds, 2015, 643, S209-S218.	2.8	32
16	Influence of Fe contamination and temperature on mechanically alloyed Coâ€“Niâ€“Mo electrodes for hydrogen evolution reaction in alkaline water. Materials Characterization, 2006, 56, 138-146.	1.9	28
17	Electrochemical performance of crystalline Niâ€“Coâ€“Moâ€“Fe electrodes obtained by mechanical alloying on the oxygen evolution reaction. International Journal of Hydrogen Energy, 2007, 32, 4142-4152.	3.8	28
18	Effective corrosion protection of AA6061 aluminum alloy by sputtered Alâ€“Ce coatings. Electrochimica Acta, 2009, 55, 498-503.	2.6	27

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19	MOCVD of zirconium oxide thin films: Synthesis and characterization. Applied Surface Science, 2009, 255, 4792-4795.	3.1	27
20	Thermal, Mechanical and UV-Shielding Properties of Poly(Methyl Methacrylate)/Cerium Dioxide Hybrid Systems Obtained by Melt Compounding. Polymers, 2015, 7, 1638-1659.	2.0	24
21	Analysis of degradation process during the incorporation of ZrO2:SiO2 ceramic nanostructures into polyurethane coatings for the corrosion protection of carbon steel. Journal of Materials Science, 2013, 48, 1067-1084.	1.7	23
22	Activated carbon production from the Guadua amplexifolia using a combination of physical and chemical activation. Journal of Thermal Analysis and Calorimetry, 2016, 124, 1383-1398.	2.0	21
23	Electrochemical behaviour of ceramic yttria stabilized zirconia on carbon steel synthesized via solâ€“gel process. Journal of Alloys and Compounds, 2009, 483, 437-441.	2.8	20
24	XPS and EIS studies of sputtered Alâ€“Ce films formed on AA6061 aluminum alloy in 3.5% NaCl solution. Journal of Applied Electrochemistry, 2010, 40, 639-651.	1.5	20
25	Preparation of ZnO:CeO2â€“x thin films by AP-MOCVD: Structural and optical properties. Journal of Solid State Chemistry, 2010, 183, 2205-2217.	1.4	19
26	Influence of Phases Content on Pt/TiO₂, Pd/TiO₂Catalysts for Degradation of 4-Chlorophenol at Room Temperature. Journal of Nanomaterials, 2016, 2016, 1-15.	1.5	19
27	HDS, HDN and HDA activities of nickelâ€“molybdenum catalysts supported on alumina. Fuel Processing Technology, 2008, 89, 788-796.	3.7	18
28	Support effects on hydrotreating activity of NiMo catalysts. Materials Characterization, 2007, 58, 864-873.	1.9	17
29	Preparation and characterization of IrO2â€“YSZ nanocomposite electrodes by MOCVD. Solid State Ionics, 2007, 178, 1608-1616.	1.3	17
30	Stabilized Metal Nanoparticles from Organometallic Precursors for Low Temperature Fuel Cells. Recent Patents on Nanotechnology, 2013, 7, 13-25.	0.7	17
31	Improvement of adhesion and barrier properties of biomedical stainless steel by deposition of YSZ coatings using RF magnetron sputtering. Materials Characterization, 2014, 91, 50-57.	1.9	17
32	CVD Conditions for MWCNTs Production and Their Effects on the Optical and Electrical Properties of PPy/MWCNTs, PANI/MWCNTs Nanocomposites by In Situ Electropolymerization. Polymers, 2021, 13, 351.	2.0	17
33	Influence of operating conditions on proton conductivity of nanocellulose films using two agroindustrial wastes: Sugarcane bagasse and pinewood sawdust. Carbohydrate Polymers, 2020, 238, 116171.	5.1	16
34	Reutilization of waste biomass from sugarcane bagasse and orange peel to obtain carbon foams: Applications in the metal ions removal. Science of the Total Environment, 2022, 831, 154883.	3.9	16
35	Synthesis and Electrochemical Characterization of Ni Nanoparticles by Hydrazine Reduction using Hydroxyethyl cellulose as Capping Agent. Electrochimica Acta, 2014, 127, 228-238.	2.6	15
36	Efficient stabilization of in situ fabrication of PtxPd1-x nanostructures for electro-oxidation of methanol in alkaline medium. International Journal of Hydrogen Energy, 2020, 45, 4570-4586.	3.8	15

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37	Effect on the processability, structure and mechanical properties of highly dispersed in situ ZnO:CS nanoparticles into PVA electrospun fibers. Journal of Materials Research and Technology, 2021, 11, 929-945.	2.6	14
38	Electrochemical alternative to obtain reduced graphene oxide by pulse potential: Effect of synthesis parameters and study of corrosion properties. Diamond and Related Materials, 2018, 88, 167-188.	1.8	13
39	PLA degradation pathway obtained from direct polycondensation of 2-hydroxypropanoic acid using different chain extenders. Journal of Materials Science, 2018, 53, 10846-10871.	1.7	13
40	Bath Conditions Role in Promoting Corrosion Protection on Aluminum Alloy using Rare Earth Conversion Coatings. Journal of the Electrochemical Society, 2011, 159, C40-C57.	1.3	12
41	Structural and electrochemical performance of sputtered Alâ€“Ce films on AA6061 aluminum alloy substrates. Surface and Coatings Technology, 2009, 204, 571-579.	2.2	11
42	Thermodynamic study of CVDâ€“ZrO2 phase diagrams. Journal of Alloys and Compounds, 2009, 483, 394-398.	2.8	11
43	Effect of the substrate on the properties of ZnOâ€“MgO thin films grown by atmospheric pressure metal-organic chemical vapor deposition. Thin Solid Films, 2011, 519, 6044-6052.	0.8	11
44	Optimal conditions for the deposition of novel anticorrosive coatings by RF magnetron sputtering for aluminum alloy AA6082. Journal of Alloys and Compounds, 2014, 615, S437-S443.	2.8	11
45	Effect of ZrO2:SiO2 dispersion on the thermal stability, mechanical properties and corrosion behavior of hybrid coatings deposited on carbon steel. Journal of Alloys and Compounds, 2014, 615, S423-S432.	2.8	11
46	Intensification of Electrochemical Performance of AA7075 Aluminum Alloys Using Rare Earth Functionalized Water-Based Polymer Coatings. Polymers, 2017, 9, 178.	2.0	11
47	Corrosion investigation of new hybrid organic/inorganic coatings for carbon steel substrates: Electrochemical and surface characterizations. Progress in Organic Coatings, 2019, 135, 51-64.	1.9	11
48	Stabilized landfill leachate treatment using Guadua amplexifolia bamboo as a source of activated carbon: kinetics study. Environmental Technology (United Kingdom), 2019, 40, 768-783.	1.2	11
49	In Situ Growth of Silver Nanoparticles on Chitosan Matrix for the Synthesis of Hybrid Electrospun Fibers: Analysis of Microstructural and Mechanical Properties. Polymers, 2022, 14, 674.	2.0	11
50	Study of reinforcing steel corrosion behaviour treated by bluing and cerium chemical conversion treatments, part I: Conventional electrochemical techniques. Cement and Concrete Composites, 2018, 90, 202-217.	4.6	10
51	Investigation of ZnO/Waterborne Polyurethane Hybrid Coatings for Corrosion Protection of AISI 1018 Carbon Steel Substrates. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2019, 50, 4798-4813.	1.1	10
52	Study to improve the quality of a Mexican straight run gasoil over NiMo/Î³-Al2O3 catalysts. Applied Surface Science, 2006, 253, 1205-1214.	3.1	9
53	Energy down-converting LaPO4 nanoparticles highly dispersed into poly(lactic acid) electrospun fibers: microstructural and optical properties. Ceramics International, 2020, 46, 25273-25284.	2.3	9
54	An assembly strategy of polylactic acid (PLA)-SiO2 nanocomposites embedded in polypropylene (PP) matrix. Journal of Materials Research and Technology, 2021, 14, 2150-2164.	2.6	9

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55	Corrosion studies of PPy/Ni organicâ€“inorganic hybrid bilayer coatings on commercial carbon steel. Journal of Solid State Electrochemistry, 2015, 19, 1073-1089.	1.2	8
56	Dispersion of upconverting nanostructures of CePO4 using rod and semi-spherical morphologies into transparent PMMA/PU IPNs by the sequential route. Polymer, 2018, 142, 356-374.	1.8	8
57	Synthesis of Rh nanoparticles in alcohols: magnetic and electrocatalytic properties. Journal of Materials Science, 2018, 53, 8933-8950.	1.7	8
58	Production of BN nanostructures by pulsed laser ablation in liquids: Influence of the applied Nd:YAG harmonics on the structural, optical and photoluminescence properties. Ceramics International, 2020, 46, 21667-21680.	2.3	8
59	Characterization of ZrO2 thin films deposited by MOCVD as ceramic coatings. Journal of Materials Science, 2012, 47, 2300-2309.	1.7	7
60	Optical properties of nanocrystalline La2O3 dielectric films deposited by radio frequency magnetron sputtering. Thin Solid Films, 2017, 636, 615-621.	0.8	7
61	Fabrication of Sputtered Ce/La, La/Ce Oxide Bilayers on AA6061 and AA7075 Aluminum Alloys for the Development of Corrosion Protective Coatings. Materials, 2018, 11, 1114.	1.3	7
62	Data supporting the morphological/topographical properties and the degradability on PET/PLA and PET/chitosan blends. Data in Brief, 2019, 25, 104012.	0.5	7
63	Microwave irradiation synthesis to obtain La0.7-xPrxCa0.3MnO3 perovskites: Electrical and electrochemical performance. Journal of Alloys and Compounds, 2021, 851, 156882.	2.8	7
64	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.svg"><mml:mrow><mml:mi>L</mml:mi><mml:msub><mml:mi>a</mml:mi><mml:mrow><mml:mn>0.7</mml:mn><mml:mo		

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73	Synthesis of Transparent ZrO2 Thin Films by MOCVD. ECS Transactions, 2009, 25, 475-482.	0.3	4
74	Microstructural evolution of the system Niâ€“ZrO2â€“SiO2 synthesized by the solâ€“gel process. Journal of Alloys and Compounds, 2010, 495, 574-577.	2.8	4
75	Enhancement of optical properties and dependence of the crystal structure, morphological properties of PrPO4 by microwave-assisted-hydrothermal synthesis. Ceramics International, 2016, 42, 774-788.	2.3	4
76	Synthesis and Characterization of BiOCl Powders with Soft Templates. Journal of Inorganic and Organometallic Polymers and Materials, 2018, 28, 2350-2364.	1.9	4
77	Influence of Alumina Crystal Size on the Hydrotreating Activity of Supported NiMo Catalysts Using Real Feedstock. Petroleum Science and Technology, 2006, 24, 485-506.	0.7	3
78	Synthesis of ZnO- CeO2 thin films by APCVD. ECS Transactions, 2009, 25, 467-474.	0.3	3
79	Influence of Surface Pre-Treatment On Electrochemical Properties of CeO2 thin Films Deposited by R.F. Sputtering On AA7075 Aluminum Alloy. ECS Transactions, 2013, 47, 157-166.	0.3	3
80	Synthesis of Dense Fine-Grained Ceramics by Solâ€“Gel Technique of RE-substituted Bi1â^'x A x FeO3 Nanopowders (AÂ=ÂLa3+, Y3+, Dy3+, Ce3+): Structural, Electrical, and Magnetic Characterization. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2016, 47, 1720-1728.	1.1	3
81	Effect of CePO4 nanostructures in transparent PMMA/castor-oil based PU IPNs on thermal stability, optical and mechanical properties. Journal of Polymer Research, 2017, 24, 1.	1.2	3
82	Dataset on electrochemical reduced graphene oxide production: Effect of synthesis parameters. Data in Brief, 2018, 21, 598-603.	0.5	3
83	Evaluation of Sugarcane Agroindustrial Wastes as Substrate in Soilless Cultivation of Tomato (S.) Tj ETQq1 1 0.784314 rgBT /Overloc	1.3	3
84	Sugarcane Bagasse-, Orange Peel-Derived Adsorbent Materials: Thermal and Morphological Studies. Journal of Nanoscience and Nanotechnology, 2020, 20, 4563-4573.	0.9	3
85	Preparation of Pt-YSZ Nanocomposites by MOCVD and Their Electrochemical Properties. Journal of Metastable and Nanocrystalline Materials, 2005, 24-25, 399-402.	0.1	2
86	Electrochemical Evaluation of MgO-CeO2 Coatings on AA6066 Aluminum Alloy by MOCVD. ECS Transactions, 2009, 20, 447-458.	0.3	2
87	Experimental data in support of characterization of the CePO4 dispersion into transparent PMMA/PU IPNs by the sequential route. Data in Brief, 2018, 21, 2350-2359.	0.5	2
88	Nanocomposite Synthesis from a Natural Clay-Rich Soils and Exhausted Coffee Grounds for Environmental Applications. Journal of Nano Research, 0, 63, 47-63.	0.8	2
89	Dataset of operating conditions to Isolate Cellulose Nanocrystalline from Sugarcane Bagasse and Pinewood Sawdust as Possible Material to Fabricate Polymer Electrolyte Membranes. Data in Brief, 2020, 30, 105597.	0.5	2
90	Synthesis by Sol-gel Route and Characterization of Ceria Doped Silica Coatings on Commercial Carbon Steel. Portugaliae Electrochimica Acta, 2009, 27, 257-267.	0.4	2

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91	Study of cellulose extraction from disposable cups for potential application as a reinforcement ofÂengineering polymers. MRS Advances, 2021, 6, 881-884.	0.5	2
92	Preparation and Characterization of Nano - Composite Electrodes by MOCVD. Journal of Metastable and Nanocrystalline Materials, 2004, 20-21, 393-398.	0.1	1
93	Electrocatalytic Activity of Nano-Crystalline Ni-Co-Mo-Fe Alloys on the Oxygen Evolution Reaction (OER). ECS Transactions, 2006, 3, 135-148.	0.3	1
94	Development of Corrosion Coatings by Controlled Chemical Precipitation Method for Biomedical Applications Using AISI 316 L Stainless Steel. ECS Transactions, 2011, 36, 187-196.	0.3	1
95	Role of Preparation Method on the Microstructure and Mechanical Properties of PPy/Ni Organicâ€“Inorganic Hybrid Bilayer Coatings on Carbon Steel. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2015, 46, 1741-1755.	1.1	1
96	Functionality of TERGO Powders during the Synthesis of PANI-Based Composites for Electrical Devices. Journal of Nanomaterials, 2019, 2019, 1-17.	1.5	1
97	Data supporting the elemental composition, the morphological and thermal properties of MnPhos/waterborne poly(urethane)(WPU) coatings for carbon steel. Data in Brief, 2020, 29, 105121.	0.5	1
98	Data that support the structural, chemical and morphological characterization and its influence on the electrochemical performance of stabilized PdxPt1-x alloys as electrode materials for methanol oxidation in alkaline medium. Data in Brief, 2020, 29, 105172.	0.5	1
99	Analysis of the Dynamical Capabilities into the Public Research Institutes to Their Strategic Decision-Making. Sustainability, 2021, 13, 6672.	1.6	1
100	Transition Temperature of Lead-Free Piezoelectric Ceramics by Electrochemical Impedance Spectroscopy. Portugaliae Electrochimica Acta, 2009, 27, 363-369.	0.4	1
101	Natural Soil Clays from a Phaeozem to Synthesize a Nanocomposite with Exhausted Coffee Grounds and Ag- and TiO₂-Nanoparticles for Water, Air, or Soil Decontamination. Polish Journal of Environmental Studies, 2020, 30, 871-880.	0.6	1
102	Synthesis and characterization of bismuth alkaline titanate powders. Journal of Alloys and Compounds, 2011, 509, S375-S379.	2.8	0
103	Dataset of the synthesis parameters to deposit YSZ on stainless steel AISI 316L by sputtering technique. Data in Brief, 2019, 26, 104480.	0.5	0
104	Valorization of sawdust biomass for biopolymer extraction via green method: Comparison with conventional process. International Journal of Energy Research, 0, , .	2.2	0