

# AidÃ© M Torres-Huerta

## List of Publications by Year in descending order

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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	In Situ Growth of Silver Nanoparticles on Chitosan Matrix for the Synthesis of Hybrid Electrospun Fibers: Analysis of Microstructural and Mechanical Properties. <i>Polymers</i> , 2022, 14, 674.	2.0	11
2	Reutilization of waste biomass from sugarcane bagasse and orange peel to obtain carbon foams: Applications in the metal ions removal. <i>Science of the Total Environment</i> , 2022, 831, 154883.	3.9	16
3	$\langle \text{mml:math xmlns:mml}=\text{"http://www.w3.org/1998/Math/MathML"} \text{ altimg}=\text{"si1.svg"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \rangle L \langle \text{mml:mi} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mi} \rangle a \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mn} \rangle 0.7 \langle \text{mml:mn} \rangle \langle \text{mml:mn} \rangle$		

#	ARTICLE	IF	CITATIONS
19	Sugarcane Bagasse-, Orange Peel-Derived Adsorbent Materials: Thermal and Morphological Studies. <i>Journal of Nanoscience and Nanotechnology</i> , 2020, 20, 4563-4573.	0.9	3
20	Natural Soil Clays from a Phaeozem to Synthesize a Nanocomposite with Exhausted Coffee Grounds and Ag- and TiO <sub>2</sub> -Nanoparticles for Water, Air, or Soil Decontamination. <i>Polish Journal of Environmental Studies</i> , 2020, 30, 871-880.	0.6	1
21	Investigation of ZnO/Waterborne Polyurethane Hybrid Coatings for Corrosion Protection of AISI 1018 Carbon Steel Substrates. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2019, 50, 4798-4813.	1.1	10
22	Dataset of the synthesis parameters to deposit YSZ on stainless steel AISI 316L by sputtering technique. <i>Data in Brief</i> , 2019, 26, 104480.	0.5	0
23	Data supporting the production of dietary fibers from sugarcane bagasse and sugarcane tops using microwave - assisted alkaline treatments. <i>Data in Brief</i> , 2019, 24, 104026.	0.5	6
24	Data supporting the morphological/topographical properties and the degradability on PET/PLA and PET/chitosan blends. <i>Data in Brief</i> , 2019, 25, 104012.	0.5	7
25	Corrosion investigation of new hybrid organic/inorganic coatings for carbon steel substrates: Electrochemical and surface characterizations. <i>Progress in Organic Coatings</i> , 2019, 135, 51-64.	1.9	11
26	Production of dietary fibers from sugarcane bagasse and sugarcane tops using microwave-assisted alkaline treatments. <i>Industrial Crops and Products</i> , 2019, 135, 159-169.	2.5	43
27	Functionality of TERGO Powders during the Synthesis of PANI-Based Composites for Electrical Devices. <i>Journal of Nanomaterials</i> , 2019, 2019, 1-17.	1.5	1
28	Stabilized landfill leachate treatment using <i>Guadua amplexifolia</i> bamboo as a source of activated carbon: kinetics study. <i>Environmental Technology (United Kingdom)</i> , 2019, 40, 768-783.	1.2	11
29	PREPARATION AND DEGRADATION STUDY OF HDPE/PLA POLYMER BLENDS FOR PACKAGING APPLICATIONS. <i>Revista Mexicana De Ingeniera Quimica</i> , 2019, 19, 251-271.	0.2	6
30	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. <i>Journal of Alloys and Compounds</i> , 2018, 746, 688-698.	2.8	33
31	Electrochemical alternative to obtain reduced graphene oxide by pulse potential: Effect of synthesis parameters and study of corrosion properties. <i>Diamond and Related Materials</i> , 2018, 88, 167-188.	1.8	13
32	PLA degradation pathway obtained from direct polycondensation of 2-hydroxypropanoic acid using different chain extenders. <i>Journal of Materials Science</i> , 2018, 53, 10846-10871.	1.7	13
33	Dispersion of upconverting nanostructures of CePO <sub>4</sub> using rod and semi-spherical morphologies into transparent PMMA/PU IPNs by the sequential route. <i>Polymer</i> , 2018, 142, 356-374.	1.8	8
34	Synthesis of Rh nanoparticles in alcohols: magnetic and electrocatalytic properties. <i>Journal of Materials Science</i> , 2018, 53, 8933-8950.	1.7	8
35	Study of reinforcing steel corrosion behaviour treated by bluing and cerium chemical conversion treatments, part I: Conventional electrochemical techniques. <i>Cement and Concrete Composites</i> , 2018, 90, 202-217.	4.6	10
36	Synthesis and surface characterization of the La <sub>0.7-x</sub> Pr <sub>x</sub> Ca <sub>0.3</sub> MnO <sub>3</sub> (LPCM) perovskite by a non-conventional microwave irradiation method. <i>Journal of Alloys and Compounds</i> , 2018, 735, 1750-1758.	2.8	35

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37	Experimental data in support of characterization of the CePO <sub>4</sub> dispersion into transparent PMMA/PU IPNs by the sequential route. Data in Brief, 2018, 21, 2350-2359.	0.5	2
38	Dataset on electrochemical reduced graphene oxide production: Effect of synthesis parameters. Data in Brief, 2018, 21, 598-603.	0.5	3
39	Synthesis and Characterization of BiOCl Powders with Soft Templates. Journal of Inorganic and Organometallic Polymers and Materials, 2018, 28, 2350-2364.	1.9	4
40	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
41	Effect of CePO <sub>4</sub> 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
42	Optical properties of nanocrystalline La <sub>2</sub> O <sub>3</sub> dielectric films deposited by radio frequency magnetron sputtering. Thin Solid Films, 2017, 636, 615-621.	0.8	7
43	Intensification of Electrochemical Performance of AA7075 Aluminum Alloys Using Rare Earth Functionalized Water-Based Polymer Coatings. Polymers, 2017, 9, 178.	2.0	11
44	Influence of Phases Content on Pt/TiO <sub>2</sub> , Pd/TiO <sub>2</sub> Catalysts for Degradation of 4-Chlorophenol at Room Temperature. Journal of Nanomaterials, 2016, 2016, 1-15.	1.5	19
45	Synthesis of Dense Fine-Grained Ceramics by Sol-Gel Technique of RE-substituted Bi <sub>1-x</sub> A <sub>x</sub> FeO <sub>3</sub> Nanopowders (A=Al <sup>3+</sup> , Y <sup>3+</sup> , Dy <sup>3+</sup> , Ce <sup>3+</sup> ): Structural, Electrical, and Magnetic Characterization. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2016, 47, 1720-1728.	1.1	3
46	Enhancement of optical properties and dependence of the crystal structure, morphological properties of PrPO <sub>4</sub> by microwave-assisted-hydrothermal synthesis. Ceramics International, 2016, 42, 774-788.	2.3	4
47	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
48	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
49	Self-Adaptive Differential Evolution Hyper-Heuristic with Applications in Process Design. Computacion Y Sistemas, 2016, 20, .	0.2	6
50	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
51	Microwave-assisted hydrothermal synthesis of CePO <sub>4</sub> nanostructures: Correlation between the structural and optical properties. Journal of Alloys and Compounds, 2015, 643, S209-S218.	2.8	32
52	Corrosion studies of PPy/Ni organic-inorganic hybrid bilayer coatings on commercial carbon steel. Journal of Solid State Electrochemistry, 2015, 19, 1073-1089.	1.2	8
53	Role of Preparation Method on the Microstructure and Mechanical Properties of PPy/Ni Organic-Inorganic Hybrid Bilayer Coatings on Carbon Steel. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2015, 46, 1741-1755.	1.1	1
54	Influence of ZrO <sub>2</sub> nanoparticles and thermal treatment on the properties of PMMA/ZrO <sub>2</sub> hybrid coatings. Journal of Alloys and Compounds, 2015, 643, S150-S158.	2.8	52

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55	Comparative assessment of miscibility and degradability on PET/PLA and PET/chitosan blends. <i>European Polymer Journal</i> , 2014, 61, 285-299.	2.6	61
56	Synthesis and Electrochemical Characterization of Ni Nanoparticles by Hydrazine Reduction using Hydroxyethyl cellulose as Capping Agent. <i>Electrochimica Acta</i> , 2014, 127, 228-238.	2.6	15
57	Optimal conditions for the deposition of novel anticorrosive coatings by RF magnetron sputtering for aluminum alloy AA6082. <i>Journal of Alloys and Compounds</i> , 2014, 615, S437-S443.	2.8	11
58	Improvement of adhesion and barrier properties of biomedical stainless steel by deposition of YSZ coatings using RF magnetron sputtering. <i>Materials Characterization</i> , 2014, 91, 50-57.	1.9	17
59	Effect of ZrO <sub>2</sub> :SiO <sub>2</sub> dispersion on the thermal stability, mechanical properties and corrosion behavior of hybrid coatings deposited on carbon steel. <i>Journal of Alloys and Compounds</i> , 2014, 615, S423-S432.	2.8	11
60	Solid solutions of La-doped BiFeO <sub>3</sub> obtained by the Pechini method with improvement in their properties. <i>Ceramics International</i> , 2014, 40, 9225-9233.	2.3	40
61	Analysis of degradation process during the incorporation of ZrO <sub>2</sub> :SiO <sub>2</sub> ceramic nanostructures into polyurethane coatings for the corrosion protection of carbon steel. <i>Journal of Materials Science</i> , 2013, 48, 1067-1084.	1.7	23
62	Influence of Surface Pre-Treatment On Electrochemical Properties of CeO <sub>2</sub> thin Films Deposited by R.F. Sputtering On AA7075 Aluminum Alloy. <i>ECS Transactions</i> , 2013, 47, 157-166.	0.3	3
63	Stabilized Metal Nanoparticles from Organometallic Precursors for Low Temperature Fuel Cells. <i>Recent Patents on Nanotechnology</i> , 2013, 7, 13-25.	0.7	17
64	Kinetics of hydrogen evolution reaction on stabilized Ni, Pt and Ni@Pt nanoparticles obtained by an organometallic approach. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 4798-4811.	3.8	77
65	Effect of the Heavy Metals Cu, Ni, Cd and Zn on the Growth and Reproduction of Epigeic Earthworms ( <i>E. fetida</i> ) during the Vermistabilization of Municipal Sewage Sludge. <i>Water, Air, and Soil Pollution</i> , 2012, 223, 915-931.	1.1	39
66	Characterization of ZrO <sub>2</sub> thin films deposited by MOCVD as ceramic coatings. <i>Journal of Materials Science</i> , 2012, 47, 2300-2309.	1.7	7
67	Stabilized Metal Nanoparticles from Organometallic Precursors for Low Temperature Fuel Cells. <i>Recent Patents on Nanotechnology</i> , 2012, 7, 13-25.	0.7	6
68	Synthesis and characterization of bismuth alkaline titanate powders. <i>Journal of Alloys and Compounds</i> , 2011, 509, S375-S379.	2.8	0
69	Electrochemical performance of Ni@RE (RE = rare earth) as electrode material for hydrogen evolution reaction in alkaline medium. <i>International Journal of Hydrogen Energy</i> , 2011, 36, 135-151.	3.8	122
70	Effect of the substrate on the properties of ZnO@MgO thin films grown by atmospheric pressure metal-organic chemical vapor deposition. <i>Thin Solid Films</i> , 2011, 519, 6044-6052.	0.8	11
71	Development of Corrosion Coatings by Controlled Chemical Precipitation Method for Biomedical Applications Using AISI 316 L Stainless Steel. <i>ECS Transactions</i> , 2011, 36, 187-196.	0.3	1
72	Bath Conditions Role in Promoting Corrosion Protection on Aluminum Alloy using Rare Earth Conversion Coatings. <i>Journal of the Electrochemical Society</i> , 2011, 159, C40-C57.	1.3	12

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73	XPS and EIS studies of sputtered Al <sup>3+</sup> -Ce films formed on AA6061 aluminum alloy in 3.5% NaCl solution. <i>Journal of Applied Electrochemistry</i> , 2010, 40, 639-651.	1.5	20
74	Preparation of ZnO:CeO <sub>2</sub> thin films by AP-MOCVD: Structural and optical properties. <i>Journal of Solid State Chemistry</i> , 2010, 183, 2205-2217.	1.4	19
75	Microstructural evolution of the system Ni <sup>2+</sup> -ZrO <sub>2</sub> -SiO <sub>2</sub> synthesized by the sol-gel process. <i>Journal of Alloys and Compounds</i> , 2010, 495, 574-577.	2.8	4
76	Electrochemical Evaluation of MgO-CeO <sub>2</sub> Coatings on AA6066 Aluminum Alloy by MOCVD. <i>ECS Transactions</i> , 2009, 20, 447-458.	0.3	2
77	Synthesis of ZnO- CeO <sub>2</sub> thin films by APCVD. <i>ECS Transactions</i> , 2009, 25, 467-474.	0.3	3
78	Characterization of cerium-based conversion coatings for corrosion protection of AISI-1010 commercial carbon steel. <i>Journal of Solid State Electrochemistry</i> , 2009, 13, 1785-1799.	1.2	45
79	Characterization of ceramic sol-gel coatings as an alternative chemical conversion treatment on commercial carbon steel. <i>Electrochimica Acta</i> , 2009, 54, 2932-2940.	2.6	40
80	Comparative study of the synthesis of KReO <sub>4</sub> using acrylamide sol-gel and solid-state reaction methods. <i>Journal of Sol-Gel Science and Technology</i> , 2009, 51, 175-181.	1.1	5
81	Synthesis and Characterization of Chromate Conversion Coatings on GALVALUME and Galvanized Steel Substrates. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2009, 40, 1631-1644.	1.1	6
82	Effective corrosion protection of AA6061 aluminum alloy by sputtered Al <sup>3+</sup> -Ce coatings. <i>Electrochimica Acta</i> , 2009, 55, 498-503.	2.6	27
83	Synthesis and electrochemical characterization of stabilized nickel nanoparticles. <i>International Journal of Hydrogen Energy</i> , 2009, 34, 1664-1676.	3.8	62
84	Structural and electrochemical performance of sputtered Al <sup>3+</sup> -Ce films on AA6061 aluminum alloy substrates. <i>Surface and Coatings Technology</i> , 2009, 204, 571-579.	2.2	11
85	MOCVD of zirconium oxide thin films: Synthesis and characterization. <i>Applied Surface Science</i> , 2009, 255, 4792-4795.	3.1	27
86	Electrochemical behaviour of ceramic yttria stabilized zirconia on carbon steel synthesized via sol-gel process. <i>Journal of Alloys and Compounds</i> , 2009, 483, 437-441.	2.8	20
87	Thermodynamic study of CVD-ZrO <sub>2</sub> phase diagrams. <i>Journal of Alloys and Compounds</i> , 2009, 483, 394-398.	2.8	11
88	Synthesis of Transparent ZrO <sub>2</sub> Thin Films by MOCVD. <i>ECS Transactions</i> , 2009, 25, 475-482.	0.3	4
89	Synthesis by Sol-gel Route and Characterization of Ceria Doped Silica Coatings on Commercial Carbon Steel. <i>Portugaliae Electrochimica Acta</i> , 2009, 27, 257-267.	0.4	2
90	Transition Temperature of Lead-Free Piezoelectric Ceramics by Electrochemical Impedance Spectroscopy. <i>Portugaliae Electrochimica Acta</i> , 2009, 27, 363-369.	0.4	1

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91	HDS, HDN and HDA activities of nickel-molybdenum catalysts supported on alumina. Fuel Processing Technology, 2008, 89, 788-796.	3.7	18
92	Electrochemical performance of crystalline Ni-Co-Mo-Fe electrodes obtained by mechanical alloying on the oxygen evolution reaction. International Journal of Hydrogen Energy, 2007, 32, 4142-4152.	3.8	28
93	Support effects on hydrotreating activity of NiMo catalysts. Materials Characterization, 2007, 58, 864-873.	1.9	17
94	Preparation and characterization of IrO <sub>2</sub> -YSZ nanocomposite electrodes by MOCVD. Solid State Ionics, 2007, 178, 1608-1616.	1.3	17
95	Study to improve the quality of a Mexican straight run gasoil over NiMo/Al <sub>2</sub> O <sub>3</sub> catalysts. Applied Surface Science, 2006, 253, 1205-1214.	3.1	9
96	Influence of Fe contamination and temperature on mechanically alloyed Co-Ni-Mo electrodes for hydrogen evolution reaction in alkaline water. Materials Characterization, 2006, 56, 138-146.	1.9	28
97	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
98	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
99	Kinetic study of hydrogen evolution reaction on Ni <sub>30</sub> Mo <sub>70</sub> , Co <sub>30</sub> Mo <sub>70</sub> , Co <sub>30</sub> Ni <sub>70</sub> and Co <sub>10</sub> Ni <sub>20</sub> Mo <sub>70</sub> alloy electrodes. Materials Characterization, 2005, 55, 83-91.	1.9	48
100	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
101	Preparation and Characterization of Nano - Composite Electrodes by MOCVD. Journal of Metastable and Nanocrystalline Materials, 2004, 20-21, 393-398.	0.1	1
102	Effect of Pd Addition on the Nanostructure and Properties of Pd/TiO <sub>2</sub> Catalysts for the Photocatalytic Degradation of 4-Chlorophenol. Journal of Nano Research, 0, 28, 9-20.	0.8	6
103	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
104	Valorization of sawdust biomass for biopolymer extraction <i>via</i> green method: Comparison with conventional process. International Journal of Energy Research, 0, , .	2.2	0