



Producción académica más relevante en los últimos 3 años

La siguiente tabla muestra la productividad académica mas relevante de los integrantes del Núcleo Académico del programa de Doctorado que participan en la línea de Generación y/o Aplicación del Conocimiento: Tribología y Materiales Avanzados (TMA).

Ávila Dávila Erika Osiris		
Artículos		
Título del artículo	Revista	Año
1.- Tuning H <sub>Au</sub> Cl <sub>4</sub> /Sodium Citrate Stoichiometry to Fabricate Chitosan-Au Nanocomposites	Polymers	2022
2.- Evaluation of Microstructural Deterioration for a Directionally Solidified Ni-Based Superalloy by X-ray Computed Tomography	Journal of Materials Engineering and Performance	2021
3.- Growth Kinetics of $\beta$ Precipitation in a Ferritic Matrix During Isothermal Aging of Cu-containing Fe-10at.%Ni-15at.%Al alloys	Materials Research	2021
4.- Water Jet Erosion Performance of Carbon Fiber and Glass Fiber Reinforced Polymers	Polymers	2021
5.- Relaxation Phenomena in Chitosan-Au Nanoparticle Thin Films	Polymers	2021
6.- Precipitation characterization and creep strength at 600°C for creep resistant Cr-Mo steel	ISIJ International	2020
Memorias de congreso		



Título del artículo	Congreso	Año
1.- Precipitation Process During Isothermal Aging of an Austenitic Stainless Fe-12Cr-10Mn-12Ni-5Mo-0.24 N-0.03C Steel and Its Effect on the Mechanical Properties	TMS 2022	2022
2.- Computational And Experimental Study Of Vibrational Modes And Natural Frequencies Of A Ti-Alloy Fan Blade	XXIX International Materials Research Congress	2021
3.- Study Of The Structural Integrity In A Fan Blade Of An Aeronautical Engine	XXIX International Materials Research Congress	2021
4.- Analysis of $\beta'$ (Cu <sub>4</sub> Ti) precipitation during isothermal aging of a Cu-4 wt% Ti alloy	Minerals, Metals and Materials Series	2020
5.- Characterization Microstructural of Kevlar-based Composites Obtained by Vacuum Infusion Process	Microscopy and Microanalysis Annual Conference	2020
<b>Palacios Pineda Luis Manuel</b>		
<b>Artículos</b>		
Título del artículo	Revista	Año
1.- A fractal model for current generation in porous electrodes	Journal of Electroanalytical Chemistry	2021
2.- Evaluation of Microstructural Deterioration for a Directionally Solidified Ni-Based Superalloy by X-ray Computed Tomography	Journal of Materials Engineering and Performance	2021
3.- Investigating the Mullins Effect and Energy Dissipation in Magnetorheological Polyurethane Elastomers	Molecular Sciences	2020



4.- Development, Fabrication, and Characterization of Composite Polycaprolactone Membranes Reinforced with TiO <sub>2</sub> Nanoparticles	Polymers	2019
5.- Investigation of the Effect of Carbonyl Iron Micro-Particles on the Mechanical and Rheological Properties of Isotropic and Anisotropic MREs: Constitutive Magneto-Mechanical Material Model	Polymers	2019
<b>Martínez Pérez Armando Irvin</b>		
<b>Artículos</b>		
<b>Título del artículo</b>	<b>Revista</b>	<b>Año</b>
1.- Solid particle erosive wear study of polymer composite materials for wind turbine applications	Polymer Composites	2021
2.- Mechanochemical synthesis, linear and nonlinear optical properties of a new oligophenyleneimine with indole terminal moiety for optoelectronic application	Journal of Materials Science: Materials in Electronics	2021
3.- Single Output and Algebraic Modal Parameters Identification of a Wind Turbine Blade Experimental Results	Applied Sciences	2021
4.- Water Jet Erosion Performance of Carbon Fiber and Glass Fiber Reinforced Polymers	Polymers	2021
5.- Characterization and sliding wear performance of PMMA reinforced with SiO <sub>2</sub> nanoparticles	Journal of Thermoplastic Composite Materials	2020
6.- Experimental study of temperature erosion tests on bidirectional coated and uncoated composites materials	Materials Research Express	2020
<b>Capítulos de libro</b>		
<b>Título del artículo</b>	<b>Libro</b>	<b>Año</b>



1.- Abrasive Wear Performance of Fe <sub>2</sub> B Layers Applied on Steel Substrates	Friction, Lubrication and wear	2019
<b>Memorias de congreso</b>		
<b>Título del artículo</b>	<b>Congreso</b>	<b>Año</b>
1.- SEM, EDS and XRD Study of Heavy-Duty Asbestos Brake Pads	Microscopy and Microanalysis Annual Conference	2019
<b>Patentes</b>		
<b>Título</b>	<b>Número</b>	<b>Fecha de expedición</b>
1.- Máquina de movimiento recíprocante para pruebas de desgaste	374026	04/03/2020
<b>Moreno Ríos Marisa</b>		
<b>Artículos</b>		
<b>Título del artículo</b>	<b>Revista</b>	<b>Año</b>
1.- Tuning H <sub>2</sub> AuCl <sub>4</sub> /Sodium Citrate Stoichiometry to Fabricate Chitosan-Au Nanocomposites	Polymers	2022
2.- Sand as a friction coefficient improver on asphalt ice layers	Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology	2022
3.- Influence of surface roughness and contact temperature on the performance of a railway lubricant grease	Materials Letters	2021
4.- A crevice corrosion assessment method for joints of mechanical components sealed with composite structure gaskets – The case of the engine cylinder head/mono-block joint	Engineering Failure Analysis	2021



5.- Water Jet Erosion Performance of Carbon Fiber and Glass Fiber Reinforced Polymers	Polymers	2021
6.- Relaxation Phenomena in Chitosan-Au Nanoparticle Thin Films	Polymers	2021
7.- Evaluation of surface modification in a steel track for the rubber tyred Metro	Wear	2019
<b>Capítulos de libro</b>		
<b>Título del artículo</b>	<b>Libro</b>	<b>Año</b>
1.- Abrasive Wear Performance of Fe <sub>2</sub> B Layers Applied on Steel Substrates	Friction, Lubrication and wear	2019
<b>Memorias de congreso</b>		
<b>Título del artículo</b>	<b>Congreso</b>	<b>Año</b>
1.- Study Of The Structural Integrity In A Fan Blade Of An Aeronautical Engine	XXIX International Materials Research Congress	2021
2.- Evaluation of Dispersion Stability of Al <sub>2</sub> O <sub>3</sub> Nanoparticles in Jatropha curcas Oil	Microscopy and Microanalysis Annual Conference	2020
<b>Vera Cárdenas Edgar Ernesto</b>		
<b>Artículos</b>		
<b>Título del artículo</b>	<b>Revista</b>	<b>Año</b>
1.- Solid particle erosive wear study of polymer composite materials for wind turbine applications	Polymer Composites	2021
2.- Mechanochemical synthesis, linear and nonlinear optical properties of a new oligophenyleneimine with indole terminal moiety for optoelectronic application	Journal of Materials Science: Materials in Electronics	2021



3.- Water Jet Erosion Performance of Carbon Fiber and Glass Fiber Reinforced Polymers	Polymers	2021
4.- Characterization and sliding wear performance of PMMA reinforced with SiO <sub>2</sub> nanoparticles	Journal of Thermoplastic Composite Materials	2020
5.- Experimental study of temperature erosion tests on bidirectional coated and uncoated composites materials	Materials Research Express	2020
<b>Capítulos de libro</b>		
<b>Título del artículo</b>	<b>Revista</b>	<b>Año</b>
1.- Abrasive Wear Performance of Fe <sub>2</sub> B Layers Applied on Steel Substrates	Friction, Lubrication and wear	2019
<b>Memorias de congreso</b>		
<b>Título del artículo</b>	<b>Congreso</b>	<b>Año</b>
1.- SEM and EDS study in bidirectional fabrics on composite materials for aeronautical applications	Microscopy and Microanalysis Annual Conference	2019
<b>Patentes</b>		
<b>Título</b>	<b>Número</b>	<b>Fecha de expedición</b>
1.- Máquina de movimiento recíprocante para pruebas de desgaste	374026	04/03/2020
2.- Máquina para pruebas de fatiga en pavimentos	368677	09/10/2019