

**Universidad de Guanajuato**

Clave de convenio: C/PROFEXCE-2020-11MSU0013Z-5-19

Proyecto: FORTALECIMIENTO DE LA EXCELENCIA EDUCATIVA DE LA UNIVERSIDAD DE GUANAJUATO

Clave de Proyecto: P/PROFEXCE-2020-11MSU0013Z-01

**1.- Valoración General del avance o cumplimiento académico del proyecto**

Se tiene un cumplimiento por el orden del 96.7% de las metas del proyecto, debido a la atención satisfactoria del siete de las ocho metas suscritas. La meta que se cumplió parcialmente, en un 67%, (MA 3.3 Profesores capacitados para evaluación y transferencia de tecnología, conocimiento y resultados de investigación, mediante cursos, talleres y seminarios) fue debido a la demora en la radicación de los recursos financieros de este programa, ya que cuando éstos se recibieron, los profesores se encontraban en actividad docente o en la atención de otras actividades de sus planes de trabajo anuales y de tal manera la actividad programada no pudo llevarse a cabo en fecha posterior..

**2.- Problemas atendidos**

Se atendieron las necesidades vigentes en materia de infraestructura educativa, tales como equipos de cómputo para el desarrollo de plataformas educativas con las cuales se diversifican las modalidades de estudio. Se avanzó en satisfacer la necesidad de contar con equipamiento para desarrollar actividades académicas que precisan de mediaciones tecnológicas en tiempo real (p.e. sistemas de video conferencia). También se atendieron los requerimientos, para el año 2020, relacionados con recursos digitales e impresos para el desarrollo de la docencia e investigación, mediante la adquisición de bibliografía actualizada. Finalmente, se llevaron a cabo cursos en línea dirigidos a estudiantes, con los cuales se coadyuva al aprendizaje permanente en áreas complementarias a su formación disciplinar, tales como la apreciación cultural o artística

**3.- Fortalezas aseguradas**

Se contó con recursos que permitieran dar mantenimiento a equipo de laboratorios a fin de asegurar el desarrollo de las actividades académicas realizadas por los profesores. La bibliografía adquirida contribuye a que los profesores desarrollen investigación y mantengan indicadores de calidad reconocidos por instancias externas, tales como el PRODEP o el SNI.

**4.- Desarrollo y continuidad de programas educativos de calidad**

El 70% de los programas educativos de licenciatura evaluables cuentan con reconocimiento de calidad. Asimismo, se cuenta con 13 programas reconocidos por su calidad a través de organismos de acreditación Internacional. En materia de posgrados, el 52% cuentan con reconocimiento de calidad otorgado por el Padrón Nacional de Posgrados de Calidad (PNPC),

**5.- Atención a las recomendaciones de organismos evaluadores y/o acreditadores (CIEES, COPAES, PNPC, otros)**

Se contribuyó en la atención de tres de las observaciones comunes que emiten los organismos evaluadores: actualizar los planes de estudios; contar con acervo bibliográfico actualizado y disponer de recursos tecnológicos para el desarrollo de la docencia. Al respecto, el 80% de los programas educativos que conforman la oferta de la Universidad de Guanajuato, han sido actualizados o modificados para asegurar su pertinencia y el reconocimiento a su calidad. Se adquirió acervo bibliográfico para dotar a 26 bibliotecas que brindan servicio a los programas educativos. También, a través de la dotación de recursos electrónicos en 26 bibliotecas, se puso a disposición de la comunidad universitaria material electrónico para el desarrollo de la docencia y la investigación.

**6.- Contribución a la mejora de los indicadores planteados en el Anexo XIII del PROFEXCE**

Se han mantenido por encima de la media nacional, los niveles de desempeño de indicadores asociados a la "Capacidad Académica", tales como: el 80% de los PTC cuentan con reconocimiento de perfil deseable PRODEP; el 85% de los PTC cuentan con grado de doctor; el 57% de los PTC están adscritos al Sistema Nacional de Investigadores y el 46% de los

Cuerpos Académicos están Consolidados. Asimismo, se avanza en la consolidación de indicadores relacionados con la "Competitividad Académica", de los cuales destacan que el 70% de los PE evaluables de licenciatura están reconocidos por organismos externos y el 52% de los Posgrados cuentan con reconocimiento por el Padrón Nacional de Posgrados de Calidad (PNPC), cifra que ubica a la Universidad de Guanajuato en el octavo lugar por el número de programas en el PNPC y el tercero por programas de competencia internacional entre las Universidades Públicas Estatales. Estos logros estatales y nacionales son el resultado del trabajo continuo de mejora en los programas de posgrado que permiten el crecimiento sostenido en el PNPC

### 7.- Número de estudiantes y profesores beneficiados

Profesores Beneficiados			
	Movilidad Académica		
	Nacional	Internacional	Total
Profesores de Tiempo Completo		23	23
Profesores de Medio Tiempo			
Profesores de Asignatura		4	4
<b>Total</b>	0	27	27

Alumnos Beneficiados					
	Movilidad Académica				Total
	Complemento de la formación		Reconocimiento de créditos		
	Nacional	Internacional	Nacional	Internacional	
TSU/PA		2			2
Licenciatura	6	239	6	58	309
Posgrado		48			48
<b>Total</b>	6	289	6	58	359

### 8.- Impacto en la modernización de la infraestructura (servicios de apoyo académico)

Gracias a la ejecución de cinco acciones, a saber, se dio un impulso a la modernización de infraestructura de apoyo a la actividad académica, en beneficio de los estudiantes y profesores: 1) adquisición de equipo de cómputo portátil para uso de estudiantes que conforman la quinta generación del Programa de Equidad Regional; 2) incremento de las colecciones bibliográficas de las bibliotecas universitarias; 3) adquisición de mobiliario para la organización, resguardo, control de la circulación y préstamo externo de material bibliográfico; 4) mantenimiento a equipo de laboratorio y 5) equipamiento para favorecer el desarrollo de actividades académicas, tales como: clases digitales, entrevistas, ponencias, entre otras.

### 9.- Impacto en la capacitación de los profesores y de los cuerpos académicos

Para fortalecer el ejercicio de la docencia universitaria, se realizaron dos ediciones del "Diplomado en Competencias para la Docencia Universitaria", con una duración de 125 horas. Se implementó la estrategia "Dialogando en Comunidad sobre Tecnología Educativa" cuyo objetivo fue brindar asesoría a profesores (durante ocho sesiones) en su transición del quehacer docente presencial hacia el semipresencial o virtual y favorecer el aprendizaje de los estudiantes. Para favorecer la práctica reflexiva de la docencia, se dio seguimiento a seis "Comunidades de Aprendizaje Disciplinarias de Práctica Docente", en las áreas de salud; económico administrativas; ingenierías; ciencias sociales y humanidades, e ciencias naturales y exactas y; arquitectura, arte y diseño; en las cuales profesores participan en un sistema de aprendizaje social en torno a temáticas tales como: diseño de guías docentes, estrategias de enseñanza y aprendizaje, evaluación progresiva de los aprendizajes, contención y acompañamiento durante la pandemia. El total de profesores que participó en alguna o varias de las estrategias antes referidas fue de 339 profesores de nivel superior. Adicionalmente, un total de 702 profesores realizaron cursos en línea autogestivos relacionados con el fortalecimiento de habilidades en Tecnologías de la Información y Comunicación y Tecnología Educativa. Asimismo, 19 docentes de la Universidad concluyeron satisfactoriamente la "Especialización en Docencia para la Multimodalidad Educativa". Además, durante el 2020 y a través de las distintas ediciones del "Taller para la digitalización de unidades de aprendizaje", se tuvo

la participación de 55 docentes. Finalmente, derivado de la implementación del semestre virtual se capacitaron en un esquema masivo 2,686 docentes con el curso "Mi aula digital para profesoras y profesores UG".

#### 10.- Impacto en la formación y atención integral del estudiante

El curso de inducción para primer ingreso se rediseñó para modalidad virtual y en éste participaron 947 estudiantes. Se tuvieron dos ediciones del "Diplomado en Desarrollo Humano", con participación de 166 estudiantes de los últimos años de carrera. Mediante el "Programa de Formación Integral del Estudiante" se realizaron 32 talleres en temáticas de salud integral, interculturalidad, emprendimiento e innovación, cultura de paz y sustentabilidad, con una cobertura de 2,220 estudiantes beneficiarios. Se realizó capacitación en el manejo del software de trayectoria escolar a los Coordinadores de Programa Educativo en los cuatro Campus de la Universidad, dicha capacitación les permitirá identificar estudiantes en riesgo de deserción, detección de UDA de alta reprobación e identificación de los factores de riesgo que pueden alterar la trayectoria de los estudiantes. Durante el semestre agosto – diciembre 2020, se atienden a 38910 estudiantes en Tutoría, acompañados por 1455 profesores – tutores, brindando un total de 32759 entrevistas tutoriales. Se inicia con la asignación de visto bueno para alta y baja de UDA de manera sistematizada a través de la Carpeta Electrónica del Tutor. Se puso a disposición de los tutores del demo de la Plataforma del Programa Institucional de Tutoría, misma que tiene habilitados los módulos del tutor, coordinador de tutoría de división y coordinador de tutoría institucional. Se han impartido los cursos "La tutoría virtual" y "Curso para el uso de la nueva plataforma del programa institucional de tutoría", habiendo capacitado aun total de 1300 profesores en los meses de agosto a octubre de 2020. Se realiza acompañamiento con tutores pares, con la participación de 106 estudiantes, atendiendo a 543 estudiantes.

#### 11.- Producción científica

##### Libros

- 1.- Desplazamientos de la literatura mexicana actual
- 2.- La experiencia literaria en lenguas indígenas mexicanas
- 3.- El ojo de Orfeo
- 4.- Genética
- 5.- Las búsquedas e interrogantes insatisfechas en el patrimonio cultural
- 6.- Gestión integral estratégica para el emprendimiento de la MIPYME
- 7.- A la salud del incurable IMP
- 8.- "La expresión del sujeto en devenir a través del nunc fluens en la narrativa de Eduardo Antonio Parra y la pintura narrativa de Remedios Varo OI IMP"
- 9.- "La expresión del sujeto en devenir a través del nunc fluens en la narrativa de Eduardo Antonio Parra y la pintura narrativa de Remedios Varo "
- 10.- La desamortización civil en villas y ciudades, siglos XVIII y XIX IMP CO
- 11.- "Expectativas de éxito y su relación con Factores Socio-Administrativos de la División de Ciencias Sociales y Administrativas del Campus Celaya Salvatierra OI IMP"
- 12.- Otros modos de ver: el microcosmos literario de Guadalupe Nettel IMP
- 13.- Otros modos de ver: el microcosmos literario de Guadalupe Nettel ELECT
- 14.- Deporte y sociedad VIMP
- 15.- Deporte y sociedad VELECT
- 16.- "Ensayos sobre el fenómeno de la muerte a través de la resignificación de los conceptos: muerte, memoria y discurso IMP"
- 17.- "Ensayos sobre el fenómeno de la muerte a través de la resignificación de los conceptos: muerte, memoria y discurso ELECT"
- 18.- La otra herencia de Borges: OI IMP
- 19.- La otra herencia de Borges: OI ELECT
- 20.- Investigación en enfermería OI ELECT

- 21.- Re-visión crítica a los procesos de desarrollo OI IMP
- 22.- "Acercamientos multidisciplinares a experiencias de segregación, migración en contextos latinoamericanos OI IMP CO"
- 23.- Lecturas Valenciana C ELECT
- 24.- Un nuevo aspecto de la cuestión Vol1 Col Lecturas ELECT
- 25.- Poesía selecta Vol2 Col Lecturas ELECT
- 26.- La mujer mexicana Vol 3 Col Lecturas ELECT
- 27.- Rimas japonesas Vol 4 Col Lecturas ELECT
- 28.- Ensayos feministas Vol 5 Col Lecturas ELECT
- 29.- La balada de Año Nuevo Vol 6 Col. Lecturas ELECT
- 30.- Neptuno alegórico Vol 7 Col. Lecturas ELECT
- 31.- Puesto de Observación OI IMP
- 32.- La contienda de la educación II. Educación estética para la emancipación OI IMP
- 33.- Pequeña Galería de la Cinematografía COL DIGITAL
- 34.- Buñuel VOLUMEN 1 DE COLECCIÓN DIGITAL
- 35.- Cazals VOLUMEN 2 DE COLECCIÓN DIGITAL
- 36.- Chicano VOLUMEN 3 DE COLECCIÓN DIGITAL
- 37.- La contienda de la educación II. Educación estética para la emancipación OI ELECT
- 38.- Crítica e identidad OI ELECT
- 39.- Crítica e identidad OI IMP
- 40.- Colección Pequeña Galería del Pensamiento
- 41.- Hegel VOLUMEN 1 DE COLECCION DIGITAL
- 42.- " Aistóteles VOLUMEN 2 DE COLECCION DIGITAL"
- 43.- "T. W. Adorno VOLUMEN 3 DE COLECCION DIGITAL"
- 44.- Heidegger VOLUMEN 4 DE COLECCION DIGITAL
- 45.- Yá nthogi ya já'itho nsantýago nt'áhi, maxei IMP
- 46.- Escala de potencialidad suicida para adolescentes (E. P. S. A.) IMP
- 47.- Diagnóstico de la democracia, el desarrollo humano y la economía en Guanajuato (2012-2018) OI ELECT CO
- 48.- El viento y la dulcamara IMP
- 49.- El viento y la dulcamara ELECT
- 50.- Spinoza V7 PGP
- 51.- Spinoza V7 PGP
- 52.- La heterogeneidad discursiva puesta en diálogo IMP
- 53.- La heterogeneidad discursiva puesta en diálogo ELECT
- 54.- Colección Estanquillo ELECT
- 55.- La palabra y los días II VOL 1 COL ESTANQUILLO ELECT
- 56.- Colección Estanquillo IMP
- 57.- La palabra y los días II VOL 1 COL ESTANQUILLO IMP
- 58.- Colección Decoupage IMP
- 59.- Sangre VOL 1 COL DECOUPAGE IMP

- 60.- Colección Decoupage ELECT
- 61.- Sangre VOL 1 COL DECOUPAGE ELECT
- 62.- Colección Pequeña Galería del Escritor Hispanoamericano ELECT
- 63.- VOL 1 Jose Emilio Pacheco PGEH
- 64.- VOL 2 Virgilio Piñera PGEH
- 65.- VOL 3 Alejo Carpentier PGEH
- 66.- VOL 4 Gabriel Garcia Marquez PGEH
- 67.- VOL 5 José Revueltas PGEH
- 68.- VOL 6 Juan Ramón Jiménez PGEH
- 69.- VOL 7 Gabriela Mistral PGEH
- 70.- VOL 8 Cortazar PGEH
- 71.- VOL 9 Huidobro PGEH
- 72.- VOL 10 Huerta PGEH
- 73.- VOL 11 Juan José Arreola PGEH
- 74.- VOL 12 Mariátegui PGEH
- 75.- VOL 13 Segovia PGEH
- 76.- VOL 14 Rulfo PGEH
- 77.- VOL 15 Reyes PGEH
- 78.- VOL 16 Novo PGEH
- 79.- En torno a la historia y la educación IMP
- 80.- En torno a la historia y la educación ELECT
- 81.- Una mirada al desarrollo del emprendimiento y la gestión innovadora de la MIPYME en México OI ELECT
- 82.- ABCD Economía, Tomo III OI ELECT
- 83.- Liderazgo(s) en movimiento
- 84.- Mecánica de Medios Continuos en Ingeniería Civil
- 85.- Epístola a los Pisones
- 86.- La persona en el artista
- 87.- Los nahuas del Alto Balsas de Guerrero
- 88.- Condiciones y medio ambiente de trabajo en México" con el subtítulo "Un análisis económico y organizacional OI IMP CO
- 89.- Condiciones y medio ambiente de trabajo en México" con el subtítulo "Un análisis económico y organizacional" OI ELECT CO
- 90.- La interculturalidad en el desarrollo de la lectura y la escritura OI ELECT
- 91.- Actividad económica de los Otero, una familia minera guanajuatense (1700-1950) OI ELECT
- 92.- Iburgüengoitia y los senderos cuevanenses (trabajos reunidos) OI ELECT
- 93.- Patria del cielo y de la tierra OI ELECT
- 94.- Sortilegios del viento OI ELECT
- 95.- Un mundo extraño OI ELECT
- 96.- Jorge en diez o doce pasos OI ELECT
- 97.- Agua en el bajío guanajuatense



- 98.- Combate a la corrupción: reflexiones y experiencias multilaterales ELECT
- 99.- Combate a la corrupción: reflexiones y experiencias multilaterales IMP
- 100.- Combate a la corrupción: reflexiones y experiencias multilaterales IMP
- 101.- Combate a la corrupción: reflexiones y experiencias multilaterales IMP
- 102.- Vulnerabilidad, injusticias y libertades
- 103.- Origen, travesías y destino
- 104.- Origen, travesías y destino
- 105.- Exploring English as a foreign language IMP
- 106.- Exploring English as a foreign language ELEC
- 107.- Orientaciones para una política criminal integral en el sistema mexicano
- 108.- Condominios
- 109.- Todo eran historias
- 110.- Densidades urbanas COLECCION
- 111.- Densidades Urbanas VOL 1
- 112.- Xirau
- 113.- Xirau
- 114.- Los otros secretos IMP

#### Capitulos de Libros

No se han agregado **Capitulos de Libros**

#### Articulos

- 1.- Overview of low GWP mixtures for the replacement of HFC refrigerants: R134a, R404A and R410A
- 2.- Probabilistic Monitoring of Correlated Sensors for Nonlinear Processes in State Space
- 3.- Alignment of worm-like micelles at intermediate and high shear rates
- 4.- Tailoring the detection sensitivity of graphene based flexible smoke sensors by decorating with ceramic microparticles
- 5.- Multi-walled carbon nanotubes functionalized with bathocuproinedisulfonic acid: analytical applications for the quantification of Cu(II)
- 6.- Electrogastrographic and autonomic nervous system responses to solid and liquid meals in youth with functional dyspepsia
- 7.- Alteration of Fermentative Metabolism Enhances *Mucor circinelloides* Virulence
- 8.- NA62 RICH performance: measurement and optimization
- 9.- The role of the NA62 RICH in the  $BR(K^+ \rightarrow \pi^+ \nu \bar{\nu})$  measurement
- 10.- Foreigners as gentrifiers and tourists in a Mexican historic district
- 11.- Empathy Beyond US Borders: The Challenges of Transnational Civic Engagement
- 12.- Synthesis and biological activity of fibrate-based acyl- and alkyl-phenoxyacetic methyl esters and 1,2-dihydroquinolines
- 13.- Selective synthesis of trisubstituted pyrroles through the reactions of alkynyl Fischer carbene complexes with oxazolones
- 14.- Efficient photocatalytic oxygen evolution using BaTaO<sub>2</sub>N obtained from nitridation of perovskite-type oxide
- 15.- Enhanced Photocatalytic Activity of TiO<sub>2</sub> Modified with Gal toward Environmental Application

- 16.- Simultaneous elimination of hydrated silica, arsenic and phosphates from real groundwater by electrocoagulation using a cascade-shaped up-flow reactor
- 17.- Characterization of the reaction environment in flow reactors fitted with BDD electrodes for use in electrochemical advanced oxidation processes: A critical review
- 18.- New bacteriocin-like substances produced by *Streptomyces* species with activity against pathogens
- 19.- Evaluating India's energy targets using real options approach
- 20.- Magnetic parameters as proxies for anthropogenic pollution in water reservoir sediments from Mexico: An interdisciplinary approach
- 21.- Chitinases of *Bacillus thuringiensis*: Phylogeny, Modular Structure, and Applied Potentials
- 22.- Resveratrol protects human bronchial epithelial cells against nickel-induced toxicity via suppressing p38 MAPK, NF-kappa B signaling, and NLRP3 inflammasome activation
- 23.- Diffusion of Anisotropic Particles in Random Energy Landscapes-An Experimental Study
- 24.- Simple supergravity model of inflation constrained with Planck 2018 data
- 25.- Cancer prevention programmes in Mexico: are we doing enough?
- 26.- Iodine(III)-catalyzed benzylic oxidation by using the  $(\text{PhIO})_n/\text{Al}(\text{NO}_3)_3$  system
- 27.- Rings and ovoid heart: OCIR. A new cardiomyopathy? Family genetic findings and multimodality imaging analysis. A rare cardiac phenotype and review of the literature
- 28.- Carbon content loss and recovery processes in aerial biomass in the forested areas of the Nevado de Toluca Flora and Fauna Protected Natural Area during the period 2000-2013
- 29.- Multi-objective optimization of intensified processes for the purification of levulinic acid involving economic and environmental objectives. Part II: A comparative study of dynamic properties
- 30.- Analysis of intensified sustainable schemes for biobutanol purification
- 31.- Photographic records confirming the presence of Wild Turkey (*Meleagris gallopavo* ssp.) in the Sierra Gorda Biosphere Reserve of Guanajuato, Mexico
- 32.- aeBlue Chromoprotein Color is Temperature Dependent
- 33.- Stereoselectivity of the captodative alkenes 1-acetylvinyln arencarboxylates in Diels-Alder reactions with cyclic dienes and stereospecific rearrangement of their bicyclo[2.2.n] alpha-ketol adducts
- 34.- Tear down the walls. From urban history to urban studies with a historical perspective: theoretical and methodological proposals from an interdisciplinary dialogue
- 35.- Advanced exergy and exergoeconomic analysis for a polygeneration plant operating in geothermal cascade
- 36.- Does the earthworm favor the survival and growth of *Abies religiosa* (Kunth) Schldl. & Chain. seedlings in a nursery?
- 37.- Nonlinear mode decomposition-based methodology for modal parameters identification of civil structures using ambient vibrations
- 38.- Time of Revolts four: red note and tragic sense. [The signature of Jose Revueltas]
- 39.- Event-driven implementation of deep spiking convolutional neural networks for supervised classification using the SpiNNaker neuromorphic platform
- 40.- Effect of 6-benzylaminopurine and potassium nitrate on the in vitro micropropagation of *Laelia anceps* subsp. *anceps* (Orchidaceae)
- 41.- Optimization of a Linear Fresnel Reflector Applying Computational Fluid Dynamics, Entropy Generation Rate and Evolutionary Programming
- 42.- Switchable and tunable multi-wavelength fiber laser based on a core-offset aluminum coated Mach-Zehnder interferometer
- 43.- Mineralization of Acid Red 1 azo dye by solar photoelectro-Fenton-like process using electrogenerated  $\text{HClO}$

- and photoregenerated Fe(II)
- 44.- Removal of fluoride and hydrated silica from underground water by electrocoagulation in a flow channel reactor
  - 45.- Hydrophilic MoS<sub>2</sub>/polydopamine (PDA) nanocomposites as the electrode for enhanced capacitive deionization
  - 46.- Proteomic analysis of *Sporothrix schenckii* cell wall reveals proteins involved in oxidative stress response induced by menadione
  - 47.- Simultaneous biological nitrification and desulfurization treatment of ammonium and sulfide-rich wastewater: Effectiveness of a sequential batch operation
  - 48.- Enhancing the voltage and discharge times of graphene supercapacitors depositing a CNT/V<sub>2</sub>O<sub>5</sub> layer on their electrodes
  - 49.- Effects of different light conditions on ammonium removal in a consortium of microalgae and partial nitrifying granules
  - 50.- Distributed UFIR Filtering over WSNs with Consensus on Estimates
  - 51.- Reducing thermal imbalances and flow nonuniformity in solar collectors through the selection of free flow area ratio
  - 52.- Optimal extraction of EMG signal envelope and artifacts removal assuming colored measurement noise
  - 53.- Angstrom configuration for absolute measurement on heat losses of metal sample by active thermography
  - 54.- Comparative evaluation of two *Fusarium oxysporum* f. sp. *lycopersici* strains grown on two different carbon sources: LC-MS - based secretome study after in vivo <sup>15</sup>N metabolic labeling
  - 55.- Converting tequila vinasse diluted with tequila process water into microalgae-yeast flocs and dischargeable effluent
  - 56.- Robust inertial navigation system/ultra wide band integrated indoor quadrotor localization employing adaptive interacting multiple model-unbiased finite impulse response/Kalman filter estimator
  - 57.- Empirical Bayesian Kriging method to evaluate inter-annual water-table evolution in the Cuenca Alta del Río Laja aquifer, Guanajuato, México
  - 58.- Planetary motion cross bar friction test for application in machining process
  - 59.- Effect of Nopal (*Opuntia ficus indica*) Consumption at Different Maturity Stages as an Only Calcium Source on Bone Mineral Metabolism in Growing Rats
  - 60.- Fluoxetine for motor recovery after acute intracerebral hemorrhage, the FMRICH trial
  - 61.- The combination of linagliptin, metformin and lifestyle modification to prevent type 2 diabetes (PRELLIM). A randomized clinical trial
  - 62.- Tuning the pH-responsiveness capability of poly(acrylic acid-co-itaconic acid)/NaOH hydrogel: Design, swelling, and rust removal evaluation
  - 63.- Photocatalytic removal of 4-chlorophenol present in water using ZrO<sub>2</sub>/LDH under UV light source
  - 64.- Flavour and CP predictions from orbifold compactification
  - 65.- CFD simulation of biphasic flow, mass transport and current distribution in a continuous rotating cylinder electrode reactor for electrocoagulation process
  - 66.- Determination of major and minor elements in Mexican red wines by microwave-induced plasma optical emission spectrometry, evaluating different calibration methods and exploring potential of the obtained data in the assessment of wine provenance
  - 67.- Evolution of an electron beam pulse influenced by coulomb collision effects in the solar corona
  - 68.- A numerical analysis of the energy and entropy generation rate in a Linear Fresnel Reflector using computational fluid dynamics
  - 69.- The effects of surface roughness on the hemming process of aluminum thin plates



- 70.- Thermal, morphological and structural characterization of a copolymer of starch and polyethylene
- 71.- Parametric optimization of roll-hemming process in oblique planes with linear and non-linear trajectories
- 72.- Design of dividing wall columns involving sustainable indexes for a class of quaternary mixtures
- 73.- Monte Carlo simulations and perturbation theory for highly correlated fluids: The Lennard-Jones core softened potential case
- 74.- Bioactivity of flexible graphene composites coated with a CaSiO<sub>3</sub>/acrylic polymer membrane
- 75.- An Improved Iterative FIR State Estimator and Its Applications
- 76.- Green synthesis of N-substituted benzimidazoles: The promising methicillin resistant Staphylococcus aureus (MRSA) inhibitors
- 77.- Optical Fiber FP Sensor for Simultaneous Measurement of Refractive Index and Temperature Based on the Empirical Mode Decomposition Algorithm
- 78.- Effect of a family and interdisciplinary intervention to prevent T2D: Randomized clinical trial
- 79.- Tuning the nonlinear optical properties of Au@Ag bimetallic nanoparticles
- 80.- Impact of operational and design variables on the thermodynamic behavior of a simulated 500?kw ng-fueled solid oxide fuel cell stack
- 81.- Sleep Extension Increases the Effect of Caloric Restriction Over Body Weight and Improves the Chronic Low-Grade Inflammation in Adolescents With Obesity
- 82.- Para-diplomacy, soft power and municipal international cooperation: The case of Guanajuato [Paradiplomacia, poder suave y la cooperación internacional municipal: El caso de Guanajuato]
- 83.- Visual quality assessment of malting barley using color, shape and texture descriptors
- 84.- Multithreading Programming for Feature Extraction in Digital Images
- 85.- Assessment of the Ground Reaction Forces on Metatarsal Foot Bones Due to Changes on Pinball Region Contact
- 86.- Optimization of sorghum, rice, and amaranth flour levels in the development of gluten-free bakery products using response surface methodology
- 87.- The role of silica and alkaline earth metals with biomolecules in the biomineralization processes: the eggshell's formation and the crystallization in vivo for x-ray crystallography
- 88.- Silver Nanoparticles Enhance Thermoluminescence and Photoluminescence Response in Li<sub>2</sub>B<sub>4</sub>O<sub>7</sub> Glass Doped with Dy<sup>3+</sup> and Yb<sup>3+</sup>
- 89.- Experimental investigation of the impact of a destination promotional video with physiological and self-reported measures
- 90.- A toolkit for twisted chiral superfields
- 91.- Effect of a supplementation with two quelites on urinary excretion of arsenic in adolescents exposed to water contaminated with the metalloid in a community in the state of Guanajuato, Mexico
- 92.- Fabrication and Study of Organic Nanomaterials as Photosensitizers for Photodynamic Therapy
- 93.- Study of the Antioxidant and Nutraceutical Properties of Strawberry Fragaria x ananassa Organically Grown as an Option of Sustainable Agriculture
- 94.- Kinematics of a Planar Parallel Robot via Screw Theory: Details not Mentioned
- 95.- The eagle against the lion. Construction of the anti-Hispanic and Republican discourse in the Campeche press (1824-1831) [El águila contra el león. Construcción del discurso antihispanista y republicano en la prensa campechana (1824-1831)]
- 96.- Seasonal variation in the prevalence of Varroa, Nosema and Acarapis in hives from which queen bee mating nuclei are produced
- 97.- Postharvest heat treatments to inhibit Penicillium digitatum growth and maintain quality of Mandarin (Citrus

reticulata blanco)

98.- Electroanalytical determination of heavy metals in aqueous solutions by using a carbon paste electrode modified with spent coffee grounds

99.- Design and kinematic analysis of a new 3-DOF spherical parallel manipulator for a prosthetic wrist

100.- Interface for Contour Extraction and Determination of Morphologic Parameters in Digital Images of Footprints Based on Hernandez-Corvo Protocol

101.- Assessment of Plantar Pressure in a Foot Finite Element Model Considering a Sliding Contact Between Soft Tissues

102.- Fluorescent carbon nanoparticles synthesized from bovine serum albumin nanoparticles

103.- Entrepreneurship and Innovation Based on the RIEMPEI Model: Inequality of Opportunities in Mexico

104.- Preliminary Design Study of a Fast-Ramping Magnet for Preconcept Design of an Electron-Ion Collider at Jefferson Lab

105.- A Hybrid EDA/Nelder-Mead for Concurrent Robot Optimization

106.- Influence of the surface modification of titanium dioxide nanoparticles  $\text{TiO}_2$  under efficiency of silver nanodots deposition and its effect under the properties of starch-chitosan (SC) films

107.- Development of a  $\text{Co}^{2+}$ /PMS process involving target contaminant degradation and PMS decomposition

108.- Calcium Deficiency in Diet Decreases the Magnesium Content in Bone and Affects Femur Physicochemical Properties in Growing Rats

109.- PEDOT/Superoxide Dismutase Electrode Surface Modification for Superoxide Bioelectrochemical Sensing

110.- Formation of Crystalline Silica-Carbonate Biomorphs of Alkaline Earth Metals (Ca, Ba, Sr) from Ambient to Low Temperatures: Chemical Implications during the Primitive Earth's Life

111.- Anti-toxoplasma, antioxidant and cytotoxic activities of *Pleopeltis crassinervata* (Fée) T. Moore hexane fraction

112.- Cuboidal liquid crystal phases under multiaxial geometrical frustration

113.- Reply to letter to the editor by Bonaventura et al.

114.- Microphotonics for monitoring the supramolecular thermoresponsive behavior of fatty acid surfactant solutions

115.- Structure and excited state dipole moments of oxygen containing heteroaromatics: 2,3-benzofuran

116.- Influence of surface chemistry of activated carbon electrodes on electro-assisted adsorption of arsenate

117.- An Electric-Circuit Model on the Inter-Tape Contact Resistance and Current Sharing for REBCO Cable and Magnet Applications

118.- Efficient hydrogen generation by  $\text{ZnAl}_2\text{O}_4$  nanoparticles embedded on a flexible graphene composite

119.- Study on the interactions between [BMIM][SCN] and naphthalene/dibenzothiophene: A theory-experiment comparison

120.- Enantioselective synthesis of tetrahydrocarbazoles via trienamine catalysis and their anxiolytic-like activity

121.-  $\text{MoS}_2$ @sponge with double layer structure for high-efficiency solar desalination

122.- Structural design of an agricultural backhoe using TA, FEA, RSM and ANN

123.- Self-assembly montmorillonite nanosheets supported hierarchical  $\text{MoS}_2$  as enhanced catalyst toward methyl orange degradation

124.- The Link between Gut Dysbiosis and Neuroinflammation in Parkinson's Disease

125.- Thermolysis of 2-azido-3-(R-anilino)-1,4-naphthoquinones. Nitrene insertion versus hydrogen abstraction

126.- Members of the nitronate monooxygenase gene family from *Metarhizium brunneum* are induced during the process of infection to *Plutella xylostella*

127.- Preliminary theoretical and experimental analysis of a Molten Carbonate Fuel Cell operating in reversible mode

- 128.- Heart Rate Variability and Gastric Electrical Response to a Cold Pressor Task in Youth with Functional Dyspepsia
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- 130.- Conditions for continuous cultivation of *Chlorella sorokiniana* and nutrient removal from anaerobic digestion effluent of aquatic macrophytes
- 131.- Mood variations and personality traits in patients with epilepsy over the course of their menstrual cycle
- 132.- Anti-inflammatory and antinociceptive effects of an ethanol extract from *Senna septemtrionalis*
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- 144.- i-Rheo: determining the linear viscoelastic moduli of colloidal dispersions from step-stress measurements
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- 146.- The *Bacillus Subtilis* K-State Promotes Stationary-Phase Mutagenesis via Oxidative Damage
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- 149.- Gender Differences in Functional Movement Disorders
- 150.- Magnetic activity and evolution of the four Hyades K giants
- 151.- Class I defensins (BraDef) from broccoli (*Brassica oleracea* var. *italica*) seeds and their antimicrobial activity
- 152.- Estimation of ice cream mixture viscosity during batch crystallization in a scraped surface heat exchanger
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- 166.- Implementation and assessment of a low-cost 3D laser platform controlled by open software for printing polymeric micro-structures
- 167.- Updated ground motion prediction model for Mexican intermediate-depth intraslab earthquakes including V/H ratios
- 168.- Chitinolytic activity of phylogenetically diverse *Bacillus cereus* sensu lato from natural environments
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- 170.- Comparing Evolutionary Artificial Neural Networks from Second and Third Generations for Solving Supervised Classification Problems
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- 172.- Accurate Estimation of  $pK_{\text{a}}$  Values for Amino Groups from Surface Electrostatic Potential ( $V_{\text{S,min}}$ ) Calculations: The Isoelectric Points of Amino Acids as a Case Study
- 173.- Photochemical decomposition of uric acid crystals by ultra-short laser pulses
- 174.- Evaluation of the neuropharmacological effects of Gardenin A in mice
- 175.- Synthesis of Crystalline Silica-Carbonate Biomorphs of Ba(II) under the Presence of RNA and Positively and Negatively Charged ITO Electrodes: Obtainment of Graphite via Bioreduction of  $\text{CO}_2$  and Its Implications to the Chemical Origin of Life on Primitive Earth
- 176.- Microwave-assisted synthesis and luminescent activity of imidazo[1,2-a]pyridine derivatives
- 177.- Studying Grammatical Evolution's Mapping Processes for Symbolic Regression Problems
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- 179.- Numerical child restraint system analysis in 6 years old infant during a dolly rollover test
- 180.- Electromechanical modeling of MEMS-based piezoelectric energy harvesting devices for applications in domestic washing machines
- 181.- Renormalized quantum stress-energy tensor for massive spinor fields around global monopoles
- 182.- Arf-like proteins (Arl1 and Arl2) are involved in mitochondrial homeostasis in *Mucor circinelloides*
- 183.- Enhancing the solar photocatalytic hydrogen generation of ZnS films by UV radiation treatment
- 184.- Direct and Indirect Evolutionary Designs of Artificial Neural Networks
- 185.- A biorefinery based on the biomechanical configuration of the digestive system of a ruminant for ABE production: a consolidated bioprocessing approach
- 186.- Assessment of dietary lipid sources in tropical gar, *Atractosteus tropicus* larvae: Growth parameters and intermediary lipogenic gene expression
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- 189.- Coupling building energy simulation and computational fluid dynamics: An overview

- 190.- Casting and constitutive hot flow behavior of medium-mn automotive steel with nb as microalloying
- 191.- Synthesis, morphology, magnetic and electrochemical studies of nitrogen-doped multiwall carbon nanotubes fabricated using banded iron-formation as catalyst
- 192.- Multilingual stance detection in social media political debates
- 193.- Dr. Ahmed Ouali, 1948–2020
- 194.- Synthesis of microspherical structures of bismuth oxychloride (BiOCl) towards the degradation of reactive orange 84 dye with sunlight
- 195.- Susceptibility of entomopathogenic nematodes to ivermectin and thiabendazole
- 196.- Statistical time features for global corrosion assessment in a truss bridge from vibration signals
- 197.- Peroxymonosulfate decomposition by homogeneous and heterogeneous Co: Kinetics and application for the degradation of acetaminophen
- 198.- Genomic diversity of the human pathogen *Paracoccidioides* across the South American continent
- 199.- Coinfection of domestic felines by distinct *Sporothrix brasiliensis* in the Brazilian sporotrichosis hyperendemic area
- 200.- Coupling humanoid walking pattern generation and visual constraint feedback for pose-regulation and visual path-following
- 201.- Novel process to obtain agave sap (aguamiel) by directed enzymatic hydrolysis of agave juice fructans
- 202.- Discovery of new effective N-alkyl-3,4-diarylmaleimides-based drugs for reversing the bacterial resistance to rhodamine 6G in *Bacillus subtilis*
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- 204.- Fiber Optic Fabry-Perot Micro-Displacement Sensor Based on Low-Cost Polymer Film
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- 208.- Rotationally resolved UV spectroscopy of the rotamers of indole-4-carboxylic acid: Evidence for charge transfer quenching
- 209.- A general method for the determination of the instantaneous screw axes of one-degree-of-freedom spatial mechanisms
- 210.- Corrosion protection of A36 steel with SnO<sub>2</sub> nanoparticles integrated into SiO<sub>2</sub> coatings
- 211.- Dielectric Anisotropy Sensor Using Coupled Resonators
- 212.- Kalman and UFIR state estimation with coloured measurement noise using backward Euler method
- 213.- A continuum eight-parameter shell finite element for large deformation analysis
- 214.- Numerical approaches for solving the nonlinear Schrödinger equation in the nonlinear fiber optics formalism
- 215.- Mexico ants: incidence and abundance along the Nearctic–Neotropical interface
- 216.- Molecular Mechanism of Viscosity Sensitivity in BODIPY Rotors and Application to Motion-Based Fluorescent Sensors
- 217.- High-Statistics Measurement of Neutrino Quasielasticlike Scattering at 6 GeV on a Hydrocarbon Target
- 218.- Trapping of a Borirane Intermediate in the Reductive Coupling of an Arylborane to a Diborene
- 219.- Behavior of the digital communities on Twitter during the Mexico elections 2018 [Comportamiento de las comunidades digitales en Twitter durante las elecciones México 2018]
- 220.- New antifungal 4-chloro-3-nitrophenyldifluoriodomethyl sulfone reduces the *Candida albicans* pathogenicity in

the *Galleria mellonella* model organism

- 221.- Unusual Damage to Cladodes of *Xoconostle* (*Opuntia* sp.) by Leafcutter Ant, *Atta mexicana* (F. Smith)
- 222.- Seguimiento de clonas de *Staphylococcus aureus* resistentes a meticilina en un hospital en el sur de México [Tracking methicillin-resistant *Staphylococcus aureus* clones in a hospital in Southern Mexico]
- 223.- Improving the yields of thurincin H in a native producer strain
- 224.- Thermohydraulic Engineering of Plate-Fin Surfaces for Heat Exchangers Subject to Required Dimensions
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- 226.- Sodium-salt adduct fullerenes prevent self-association and amyloid ? fibril formation: molecular dynamics approach
- 227.- Controlling Scaling in Heat Exchangers Through the Use of Fouling Design Curves
- 228.- Virulence Factors of the Entomopathogenic Genus *Metarhizium*
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- 230.- Virulence Factors in *Sporothrix schenckii*, One of the Causative Agents of Sporotrichosis
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- 234.- Proteins as Virulence Factors and Immune Modulators During the Host-Fungus Interaction
- 235.- Energy potential of agricultural residues generated in Mexico and their use for butanol and electricity production under a biorefinery configuration
- 236.- Distinguishing Dirac and Majorana neutrinos with astrophysical fluxes
- 237.- Influence of *Lactobacillus casei* shirota strain on body composition: A review
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- 251.- Stochastic excitation for high-resolution atomic force acoustic microscopy imaging: a system theory approach
- 252.- Effect of the reducing atmospheres on the photoluminescent and phosphorescent properties of Sr<sub>4</sub>Al<sub>14</sub>O<sub>25</sub>:Eu<sup>2+</sup>, Dy<sup>3+</sup>, Cr<sup>3+</sup> phosphors
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- 255.- Role of Mfd and GreA in Bacillus subtilis Base Excision Repair-Dependent Stationary-Phase Mutagenesis
- 256.- Methyl Ethyl Ketone Production through an Intensified Process
- 257.- pix2xray: converting RGB images into X-rays using generative adversarial networks
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- 259.- Antinociceptive and anti-inflammatory effects of Cuphea aequipetala Cav (Lythraceae)
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- 261.- Reply to Gender Differences in Functional Movement Disorders: Sociocultural or Biological?
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- 296.- Comment on Hypoglycemia and hyperglycemia are risk factors for falls in the hospital population by Berra et al. Reply
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- 304.- Enhancement of alkaline-oxidative delignification of wheat straw by semi-batch operation in a stirred tank reactor
- 305.- Higher ANGPTL3, apoC-III, and apoB48 dyslipidemia, and lower lipoprotein lipase concentrations are associated with dysfunctional visceral fat in adolescents with obesity
- 306.- Application of nitrifying granular sludge for stable ammonium oxidation under intensive light
- 307.- Novel wet-solid states serial anaerobic digestion process for enhancing methane recovery of aquatic plant biomass
- 308.- Scotogenic dark matter and Dirac neutrinos from unbroken gauged B $\hat{a}$ ? $\hat{a}$ ? $\hat{a}$ ? $\hat{L}$  symmetry
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- 311.- Algorithm to Determine the Volume and Shape of Constant Orientation Workspace for a 2(3-RRPS) Parallel Robot
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- 327.- Spectral generalized function methoCywiak D., Gutierrez-Juarez G., Cywiak M.d for solving homogeneous partial differential equations with constant coefficients
- 328.- Investigating the endophytic culture extract derived from calcarisporium [Investigando el extracto de cultivo endofítico derivado de calcarisporium]
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- 330.- Determination of basal bone mineral density in the femur bones of male and female Wistar rats
- 331.- Desulfobotulus Mexicanus sp. nov., a novel sulfate-reducing bacterium isolated from the sediment of an alkaline crater lake in Mexico
- 332.- Mineralization of Methyl Orange azo dye by processes based on H<sub>2</sub>O<sub>2</sub> electrogeneration at a 3D-like air-diffusion cathode
- 333.- Plasmonic-dielectric hybrid interferometric structures for high-sensitivity refractive index sensing
- 334.- New improvement model for heat transfer calculation in inclined and vertical tubes with viscous-gravitational effects
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- 337.- Simulations of fluid flow, mass transport and current distribution in a parallel plate flow cell during nickel electrodeposition
- 338.- Electrochemical advanced oxidation discoloration and removal of three brown diazo dyes used in the tannery industry

- 339.- Development of a mass transfer model for the rate-based simulation of a batch distillation column
- 340.- Effectiveness of natural protected areas for preventing land use and land cover changes of the Transmexican Volcanic Belt, Mexico
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- 356.- All single-mode-fiber supercontinuum source setup for monitoring of multiple gases applications
- 357.- Central nervous system evaluation of an ethanol extract of *Bidens odorata* Cav (Asteraceae) leaves, and its antinociceptive interaction with paracetamol and naproxen
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- 360.- Comparison of barreling effect in compression tests of two kinds of specimens using the finite element method [Comparación del abarrilamiento producido por un ensayo de compresión realizado por elementos finitos entre dos tipos de probeta]
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- 368.- The role of the aluminum source on the physicochemical properties of  $\gamma$ -ALOOH nanoparticles
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- 372.- Dimensions of exercise self-efficacy scale by type of activity in independent older adult women [Dimensiones de autoeficacia para el ejercicio por tipo de actividad en adultas mayores independientes]
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- 376.- Paraneoplastic cerebellar degeneration secondary to braf mutant melanoma metastasis from an occult primary cancer
- 377.- About monitoring the dynamics of phase transition in food and biology by micro-photonics: Detecting soft-matter process
- 378.- Influence of surface hydrophobicity/hydrophilicity of biochar on the removal of emerging contaminants
- 379.- Influence of W<sup>6+</sup> cations on the photocatalytic activity of Zn<sup>2+</sup>+Al<sup>3+</sup>+W<sup>6+</sup> layered double hydroxides in the degradation of diclofenac
- 380.- Photodecomposition of uric-acid crystals by using a mode-locked and broadband spectrum Ytterbium fiber ring laser
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- 382.- Electrosynthesis of hydrogen peroxide sustained by anodic oxygen evolution in a flow-through reactor
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- 384.- Electrodeposited black cobalt selective coatings for application in solar thermal collectors: Fabrication, characterization, and stability
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- 386.- Facile Preparation of Three-Dimensional MoS<sub>2</sub> Aerogels for Highly Efficient Solar Desalination
- 387.- Impacto del riesgo nutricional en la mortalidad al día 28 y prevalencia de sub-alimentación en pacientes de terapia intensiva: Estudio prospectivo de cohorte [Impact of nutritional risk on 28-day mortality and the prevalence of underfeeding in critically ill patients: A prospective cohort study]
- 388.- Hybrid LQR-PI control for microgrids under unbalanced linear and nonlinear loads
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- 392.- Renormalization of a model for spin-1 matter fields
- 393.- Simultaneous electrochemical generation of ferrate and oxygen radicals to blue BR dye degradation
- 394.- Coronavirus in the brushes of Pieter Brueghel [El coronavirus en los pinceles de Pieter Brueghel]
- 395.- Prevalence, Incidence, and Risk Factors for Infection by Neospora caninum in Dairy Farm Dogs in North-Central Mexico
- 396.- Prevalence of serology for infectious diseases in blood donors during 17 years in Guanajuato, Mexico [Prevalencia de serología de enfermedades infecciosas en donadores de sangre durante 17 años en Guanajuato, México]

- 397.- A panel data analysis of FDI and informal labour markets
- 398.- Dielectric characterization of vegetable oils during a heating cycle
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- 400.- Monitoreo del impacto del cambio climático en los recursos hídricos en un área semi-árida de México central mediante un modelo SWAT
- 401.- The massive binary system 9 Sgr revisited: New insights into disentangling methods
- 402.- Mechanochemically Activated Liebeskind-Srogl (L-S) Cross-Coupling Reaction: Green Synthesis of meso-Substituted BODIPYs
- 403.- Prospecting bacterial consortia from a geothermal site for metals biotransformation
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- 406.- Effect of Pt loading on the hydrogen production of CNT/Pt composites functionalized with carboxylic groups
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- 409.- Transient Study of the Cooling Process of a Small Cabinet
- 410.- Agave: a natural renewable resource with multiple applications
- 411.- Dark matter stability from Dirac neutrinos in scotogenic 3-3-1-1 theory
- 412.- Aerobic processes for bioleaching manganese and silver using microorganisms indigenous to mine tailings
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- 414.- Neutral Hexacoordinate Tin(IV) Halide Complexes with 4,4'-Dimethyl-2,2'-bipyridine
- 415.- A few-layer graphene/chlorin e6 hybrid nanomaterial and its application in photodynamic therapy against *Candida albicans*
- 416.- Polyenals and Polyenones in Aminocatalysis: A Decade Building Complex Frameworks from Simple Blocks
- 417.- Associations of nicotinamide-N-methyltransferase, FTO, and IRX3 genetic variants with body mass index and resting energy expenditure in Mexican subjects
- 418.- A screw theory approach to compute instantaneous rotation axes of indeterminate spherical linkages
- 419.- Generalized Fokker-Planck equations derived from nonextensive entropies asymptotically equivalent to Boltzmann-Gibbs
- 420.- pH treatments in continuous cultivation to maximize microalgal production and nutrient removal from anaerobic digestion effluent of aquatic macrophytes
- 421.- Contextual violence and its link to social aggression: a study of community violence in Juarez
- 422.- Modeling spectral correlations of photon-pairs generated in liquid-filled photonic crystal fibers
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- 424.- Quantitative Photoacoustic Method for the Measurement of Absorption Coefficients of Highly Absorbing Samples
- 425.- Many-electron redistribution in n-doped semiconductor nanostructures under external electric field by using a center-of-mass approach
- 426.- Deflation and tensor induction on the Frobenius-Wielandt morphism
- 427.- Double-differential inclusive charged-current  $\nu(\mu)$ , cross sections on hydrocarbon in MINERvA at  $\langle E-\nu \rangle$  similar to 3.5 GeV
- 428.-  $\langle \phi(2) \rangle$  for a massive scalar field in global monopole spacetime

- 429.- Relative group homology theories with coefficients and the comparison homomorphism
- 430.- Optimal Portfolio of Products in a Polycrystalline Silicon Refinery
- 431.- Protein content and quality of seeds in central mexican maize (*Zea mays*) accessions
- 432.- Analysis and proposal of sustainable urban mobility: accessibility to the cultural heritage of the City of Guanajuato; Gto
- 433.- >16 T Hybrid Dipole for an LHC Energy Doubler
- 434.- Geographical distribution and ecological niche modeling of the etiological agents of human sporotrichosis in Venezuela
- 435.- Effect of dissolved salt on the anomalies of water at negative pressure
- 436.- Effects of different light conditions on ammonium removal in a consortium of microalgae and partial nitrifying granules (vol 171, 115445, 2020)
- 437.- Identification of filamentary structures in the environment of superclusters of galaxies in the Local Universe
- 438.- Asset Recovery Law in Mexico(1): Revision of its Constitutional and Conventional Structure
- 439.- Nervous system and COVID-19
- 440.- Psychological Distress and Signs of Post-Traumatic Stress in Response to the COVID-19 Health Emergency in a Mexican Sample
- 441.- Conceptual DFT Reactivity Descriptors Computational Study of Graphene and Derivatives Flakes: Doped Graphene, Graphane, Fluorographene, Graphene Oxide, Graphyne, and Graphdiyne
- 442.- Ruminant lesions in cattle slaughtered in slaughterhouses. Lesiones ruminales en bovinos sacrificados en rastro
- 443.- Automatic Early Broken-Rotor-Bar Detection and Classification Using Otsu Segmentation
- 444.- "THE TEACHING OF MEXICAN ELECTRONIC ART. ALTERNATIVES FOR LOCAL CONDITIONS. LA ENSEÑANZA DEL ARTE ELECTRÓNICO MEXICANO: ALTERNATIVAS PARA ESCENARIOS LOCALES"
- 445.- "Management of knowledge in SME's on services sector. An empirical approach in Mexico's state. Gestión del conocimiento en PYMES del sector servicios: Una aproximación empírica en el Estado de México"
- 446.- Memory and fiction: an approach to the essayism of Andreas Kurz's from the work of Robert Musil. Memoria y ficción: una aproximación al ensayismo de Andreas Kurz a partir de la obra de Robert Musil
- 447.- Return. Cultures and imagery of the return to and from Latin America. Volver. Culturas e imaginarios del retorno a y desde América Latina.
- 448.- The city as a facilitator of inclusion and as a facilitator of expulsion
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- 451.- Simple synthesis of hierarchically structured X zeolite from geothermal nanosilica and its evaluation in the dehydration of aqueous solutions of ethanol
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- 454.- Effect of increasing the number of amino groups in the solubility of Copolysiloxanes using dissipative particle dynamics
- 455.- Characterization of Poly-hydroxybutyrate/Luffa Fibers Composite Material
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## Agricultural Wastes

- 459.- Biocrystals in Plants: A Short Review on Biomineralization Processes and the Role of Phototropins into the Uptake of Calcium
- 460.- AIRWAY IMPEDANCE IN CHILDREN EXPOSED AND NOT EXPOSED TO ARTISANAL BRICK PRODUCTION
- 461.- AIRWAY IMPEDANCE IN NON-ASTHMATIC CHILDREN FROM FOUR CITIES WITH DIFFERENT LEVELS OF AIR POLLUTION
- 462.- New geographies of drug trafficking. The Galician novel about drug trafficking
- 463.- Political Thinking, Rhetorics and Republicanism in fray Servando Teresa de Mier's Memoirs
- 464.- The Legend of The Spider Girl of the Graveyard in Guanajuato, Mexico: From the Oral Version of the Narrator Don Luis Marin to the Internet Imitation
- 465.- A curvature sensing setup based on an asymmetric concatenated tapered Mach-Zehnder interferometer
- 466.- Chitosan-BaTiO<sub>3</sub> nanostructured piezopolymer for tissue engineering
- 467.- Mexican edible flowers: Cultural background, traditional culinary uses, and potential health benefits
- 468.- Applications of refrigerant R1234yf in heating, air conditioning and refrigeration systems: A decade of researches [Applications du frigorigène R1234yf dans les systèmes de chauffage, de conditionnement d'air et de froid : une décennie de recherches]
- 469.- Synthesis of novel 2,5-substituted p-aminophenols and 2,5-substituted p-quinones in a one-pot reaction between  $\eta^5$ -alkoxyvinyl(ethoxy)carbene complexes, amines and alkynes
- 470.- Modified starch with bis(2-hydroxyethyl) terephthalate: synthesis, characterization and elaboration of films
- 471.- Association of placental nutrient sensing pathways with birth weight
- 472.- Vanadium oxide coatings to self-regulate current sharing in high-temperature superconducting cables and magnets
- 473.- Linear vibration analysis of shells using a seven-parameter spectral/hp finite element model
- 474.- All-fiber measurement of surface tension using a two-hole fiber
- 475.- Plant Defensin  $\eta^5$ -Thionin Induces MAPKs and Activates Histone Deacetylases in Bovine Mammary Epithelial Cells Infected With *Staphylococcus aureus*
- 476.- The use of artificial intelligence models in the prediction of optimum operational conditions for the treatment of dye wastewaters with similar structural characteristics
- 477.- Is Any Cardiovascular Disease-Specific DNA Methylation Biomarker Within Reach?
- 478.- Alterations in the gut-associated microbiota of juvenile Caribbean spiny lobsters *Panulirus argus* (Latreille, 1804) infected with PaV1
- 479.- Violence, Obesity, and National Policy in Mexico
- 480.- Identification and analysis of technology and knowledge transfer experiences for the agro-food sector in Mexico
- 481.- Bright spectroscopic binaries: I. Orbital parameters of five systems with periods of  $P < 365$  days
- 482.- Auditory impairment in H-ABC tubulinopathy
- 483.- Improving the surface integrity of the CoCrMo alloy by the ball burnishing technique
- 484.- Morphology analysis of the creole goat from the physiographic sub-province Volcanes de Colima, Mexico
- 485.- Two-conjugate zoom system: the zero-throw advantage
- 486.- Preparation of aromatic gamma-hydroxyketones by means of Heck coupling of aryl halides and 2,3-dihydrofuran, catalyzed by a palladium(ii) glycine complex under microwave irradiation
- 487.- Identification of metabolic markers in patients with type 2 Diabetes by Ultrafast gas chromatography coupled to electronic nose. A pilot study

- 488.- An effective cosmological constant from an entropic formulation of gravity
- 489.- "I have no reason not to be happy": The social and bodily conditions of positive aging for Latin-American men in Mexico
- 490.- Antibacterial activity of agave fructans against salmonella typhimurium
- 491.- Numerical analysis of DP-MZI-SI comb filter improvement using polarisation-maintaining fibre
- 492.- Rising arsenic concentrations from dewatering a geothermally influenced aquifer in central Mexico
- 493.- Simple theory for scotogenic dark matter with residual matter-parity
- 494.- Slow electroencephalographic oscillations and behavioral measures as predictors of high executive processing in early postmenopausal females: A discriminant analysis approach
- 495.- Solution to the economic emission dispatch problem using numerical polynomial homotopy continuation
- 496.- Moyamoya Disease: A Review of Current Literature
- 497.- Improved Performance of M-Class PMUs Based on a Magnitude Compensation Model for Wide Frequency Deviations
- 498.- A Robust Electric Spring Model and Modified Backward Forward Solution Method for Microgrids with Distributed Generation
- 499.- Design and Implementation of an Embedded Control System for the Interconnection of a DC Microgrid to the AC Main Network
- 500.- From DACA to Dark Souls: MMORPGs as Sanctuary, Sites of Language/Identity Development, and Third-Space Translanguaging Pedagogy for Los Otros Dreamers
- 501.- Fast Single Image Defogging With Robust Sky Detection
- 502.- Governmentalities, hydrosocial territories & recognition politics: The making of objects and subjects for climate change adaptation in Ecuador
- 503.- Temperature-Independent Curvature Sensor Based on In-Fiber Mach-Zehnder Interferometer Using Hollow-Core Fiber
- 504.- Electrical conductivity of an all-natural and biocompatible semi-interpenetrating polymer network containing a deep eutectic solvent
- 505.- Automated Data Acquisition System Using a Neural Network for Prediction Response in a Mode-Locked Fiber Laser
- 506.- Pandemic and democracy, scenarios and political consequences
- 507.- Fusion Kalman and Weighted UFIR State Estimator With Improved Accuracy
- 508.- Postbiotics in human health: Possible new functional ingredients?
- 509.- Resting EEG, hair cortisol and cognitive performance in healthy older people with different perceived socioeconomic status
- 510.- Generalized tracker quintessence models for dark energy
- 511.- Testing swampland conjectures with machine learning
- 512.- Spin-one dark matter and gamma ray signals from the galactic center
- 513.- Time-Frequency Analysis Based on Minimum-Norm Spectral Estimation to Detect Induction Motor Faults
- 514.- Mexico, a weak and surrounded democracy
- 515.- Geochemical characterization of alchichica maar volcano, Serdán-oriental Basin, eastern Trans-Mexican Volcanic Belt: Insights on polymagmatic evolution at monogenetic volcanic clusters
- 516.- Synthesis of high quality PbS colloidal quantum dots by ultrasonic bath as photosensitizers in a TiO<sub>2</sub> solar cell
- 517.- Punica protopunica balf., the forgotten sister of the common pomegranate (punica granatum L.): Features and medicinal properties—a review

518.- Trend-based categories recommendations and age-gender prediction for Pinterest and Twitter users

**Ponencias**

No se han agregado **Ponencias**

**Memorias**

No se han agregado **Memorias**

**Patentes**

- 1.- Proceso para producir piezas continuas de espuma de poliestireno expandido
- 2.- CONTRAST AGENTS
- 3.- Formulación de nuevas suspensiones con propiedades fotocatalíticas antivirales y antimicrobianas

**12.- Otros aspectos**



Dr. Luis Felipe Guerrero Agripino  
Rector General



Sergio Antonio Silva Muñoz  
Responsable del proyecto

