



YAN GAO

Datos Generales

Nombre: YAN GAO

Máximo nivel de estudios: POSDOCTORADO

Antigüedad académica en la UNAM: 11 años

Nombramientos

Vigente: INVESTIGADOR TITULAR B TC Definitivo
Centro de Investigaciones en Geografía Ambiental en Morelia, Michoacán
Desde 01-03-2024

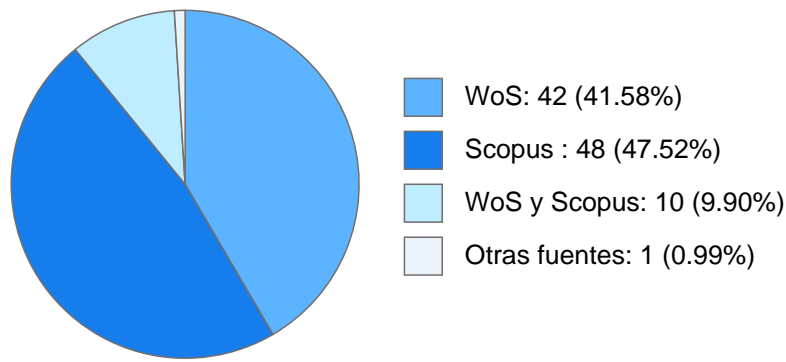
Estímulos, programas, premios y reconocimientos

SNI II 2022 - VIGENTE
SNI I 2015 - 2021
PRIDE C 2023 - VIGENTE
PRIDE B 2018 - 2023
EQUIVALENCIA PRIDE B 2014 - 2018

YAN GAO

DOCUMENTOS EN REVISTAS

Histórico de Documentos



| # | Título | Autores | Revista | Año |
|---|---|---|--|------|
| 1 | Five new species of <i>Pseudachorutes</i> (Collembola: Neanuridae) from Mexico | YAN GAO MARGARITA OJEDA CARRASCO Jose G. Palacios-Vargas et al. | Revista Mexicana De Biodiversidad | 2024 |
| 2 | Tropical Dry Forest Dynamics Explained by Topographic and Anthropogenic Factors: A Case Study in Mexico | YAN GAO JONATHAN VIDAL SOLORZANO VILLEGAS Estoque R.C. et al. | REMOTE SENSING | 2023 |
| 3 | Deforestation detection using a spatio-temporal deep learning approach with synthetic aperture radar and multispectral images | JONATHAN VIDAL SOLORZANO VILLEGAS JEAN FRANCOIS RAYMOND MARIE MAS CAUSSEL JOSE ALBERTO GALLARDO CRUZ et al. | ISPRS JOURNAL OF PHOTOGRAMMETRY AND REMOTE SENSING | 2023 |
| 4 | Forest Transition and Fuzzy Environments in Neoliberal Mexico | MARTA ASTIER CALDERON YAN GAO Yankuic Galvan Miyoshi et al. | Land | 2023 |
| 5 | Clasificación de uso y cobertura del suelo a través de algoritmos de aprendizaje automático: revisión bibliográfica | RENE FERNANDO TOBAR DIAZ YAN GAO JEAN FRANCOIS RAYMOND MARIE MAS CAUSSEL et al. | Revista de Teledeteccion | 2023 |
| 6 | Forest Disturbance Detection with Seasonal and Trend Model Components and Machine Learning Algorithms | JONATHAN VIDAL SOLORZANO VILLEGAS YAN GAO | REMOTE SENSING | 2022 |

YAN GAO

| | | | | |
|----|---|--|---|------|
| 7 | Complete mitochondrial genome of the Mexican marine littoral hygrophilous Spinactaletes boneti (Collembola: Actaletidae) and its phylogenetic placement | YAN GAO Nunes Godeiro N. Palacios-Vargas J.G. et al. | Mitochondrial Dna Part B-Resources | 2022 |
| 8 | Forest Degradation Estimation Through Trend Analysis of Annual Time Series NDVI, NDMI and NDFI (2010-2020) Using Landsat Images | YAN GAO Delgado-Moreno D. | Lecture Notes in Geoinformation and Cartography | 2022 |
| 9 | Rethinking forest monitoring for more meaningful global forest landscape change assessments | YAN GAO Estoque R.C. Johnson B.A. et al. | JOURNAL OF ENVIRONMENTAL MANAGEMENT | 2022 |
| 10 | Mapping Forest Degradation and Contributing Factors in a Tropical Dry Forest | YAN GAO JONATHAN VIDAL SOLORZANO VILLEGAS MARGARET MC CALL SKUTSCH et al. | Frontiers In Environmental Science | 2022 |
| 11 | Spatiotemporal pattern of global forest change over the past 60 years and the forest transition theory | YAN GAO Ronald C. Estoque Rajarshi Dasgupta et al. | ENVIRONMENTAL RESEARCH LETTERS | 2022 |
| 12 | Monitoring forest disturbance using time-series MODIS NDVI in Michoacan, Mexico | YAN GAO ALEXANDER QUEVEDO CHACON MARGARET MC CALL SKUTSCH et al. | GEOCARTO INTERNATIONAL | 2021 |
| 13 | Diversity, Co-Occurrence, and Nestedness Patterns of Sand Fly Species (Diptera: Psychodidae) in Two Rural Areas of Western Panama | YAN GAO Chystrie A. Rigg Milixa Perea et al. | Insects | 2021 |
| 14 | Remotely sensed tree canopy cover-based indicators for monitoring global sustainability and environmental initiatives | YAN GAO Ronald C. Estoque Brian A. Johnson et al. | ENVIRONMENTAL RESEARCH LETTERS | 2021 |
| 15 | Remotely sensed tree canopy cover-based indicators for monitoring global sustainability and environmental initiatives | YAN GAO Estoque R.C. Johnson B.A. et al. | RESEARCH IN ASTRONOMY AND ASTROPHYSICS | 2021 |
| 16 | How BFAST Trend and Seasonal Model Components Affect Disturbance Detection in Tropical Dry Forest and Temperate Forest | YAN GAO JONATHAN VIDAL SOLORZANO VILLEGAS ALEXANDER QUEVEDO CHACON et al. | REMOTE SENSING | 2021 |
| 17 | Land use land cover classification with U-net: Advantages of combining sentinel-1 and sentinel-2 imagery | JONATHAN VIDAL SOLORZANO VILLEGAS JEAN FRANCOIS RAYMOND MARIE MAS CAUSSEL YAN GAO et al. | REMOTE SENSING | 2021 |
| 18 | Which variables in forest survey data can better distinguish conserved and degraded tropical dry forest? | YAN GAO MARGARET MC CALL SKUTSCH JONATHAN VIDAL SOLORZANO VILLEGAS et al. | GEOSPATIAL WEEK 2023, VOL. 48-1 | 2020 |

YAN GAO

| | | | | |
|----|---|---|---|------|
| 19 | Combination of the W boson polarization measurements in top quark decays using ATLAS and CMS data at $\sqrt{s} = 8$ TeV | YAN GAO CARLOS GAY Y GARCIA MARIA DEL PILAR GUTIERREZ AMADOR et al. | JOURNAL OF HIGH ENERGY PHYSICS | 2020 |
| 20 | Remote sensing of forest degradation: a review | YAN GAO MARGARET MC CALL SKUTSCH JAIME PANEQUE GALVEZ et al. | ENVIRONMENTAL RESEARCH LETTERS | 2020 |
| 21 | Identifying Variables to Discriminate between Conserved and Degraded Forest and to Quantify the Differences in Biomass | YAN GAO MARGARET MC CALL SKUTSCH JONATHAN VIDAL SOLORZANO VILLEGAS et al. | Forests | 2020 |
| 22 | Spatiotemporal patterns of Sentinel-2 observations at image- and pixel-level of the Mexican territory between 2015 and 2019 | JEAN FRANCOIS RAYMOND MARIE MAS CAUSSEL YAN GAO JOSE ALBERTO GALLARDO CRUZ et al. | Revista de Teledeteccion | 2020 |
| 23 | Variables selection for aboveground biomass estimations using satellite data: A comparison between relative importance approach and stepwise Akaike's information criterion | RITA LIBERTAD ADAME CAMPOS ADRIAN GHILARDI YAN GAO et al. | ISPRS INTERNATIONAL JOURNAL OF GEO-INFORMATION | 2019 |
| 24 | Natural water quality and its suitability in the northern tianshan catchments (Central Asia) | YAN GAO Zhu B.-Q. Meng X.-J. | Hydrology | 2018 |
| 25 | Assessing forest cover change in Mexico from annual MODIS VCF data (2000-2010) | YAN GAO ADRIAN GHILARDI JEAN FRANCOIS RAYMOND MARIE MAS CAUSSEL et al. | INTERNATIONAL JOURNAL OF REMOTE SENSING | 2018 |
| 26 | Assessing changing weather and the El Niño Southern Oscillation impacts on cattle rabies outbreaks and mortality in Costa Rica (1985-2016) | YAN GAO Sabine E. Hutter Annemarie Kaesbohrer et al. | BMC VETERINARY RESEARCH | 2018 |
| 27 | Forest degradation with remote sensing: how spatial resolution plays a role | DIANA LAURA JIMENEZ PEREZ YAN GAO Hind Taud | International Workshop On Earth Observation And Remote Sensing Applications | 2018 |
| 28 | The Effect of Galaxy Interactions on Molecular Gas Properties | YAN GAO JORGE KAROLT BARRERA BALLESTEROS Pan H.-A. et al. | ASTROPHYSICAL JOURNAL | 2018 |
| 29 | Femtoscopia with identified charged pions in proton-lead collisions at $\sqrt{s_{NN}} = 5.02$ TeV with ATLAS | Ali B. JAVIER BENITEZ BELTRAN Ferretti C. et al. | PHYSICAL REVIEW C | 2017 |

YAN GAO

| | | | | |
|----|--|---|---|------|
| 30 | Abundance and habitat use of the lizard <i>Sceloporus utiformis</i> (Squamata: Phrynosomatidae) during the seasonal transition in a tropical environment | ANDRES GARCIA AGUAYO YAN GAO Hugo Siliceo-Cantero, Hector | Revista Mexicana De Biodiversidad | 2016 |
| 31 | Validation of MODIS Vegetation Continuous Fields for monitoring deforestation and forest degradation: two cases in Mexico | YAN GAO ADRIAN GHILARDI JAIME PANEQUE GALVEZ et al. | GEOCARTO INTERNATIONAL | 2016 |
| 32 | Opportunities, constraints and perceptions of rural communities regarding their potential to contribute to forest landscape transitions under REDD plus : case studies from Mexico | MARGARET MC CALL SKUTSCH DULCE ARMONIA BORREGO GÓMEZ JAIME PANEQUE GALVEZ et al. | INTERNATIONAL FORESTRY REVIEW | 2015 |
| 33 | Geomorphoclimatic characteristics and landform information in the Ejina Basin, Northwest China | YAN GAO Zhu, Bingqi Yu, Jingjie et al. | ENVIRONMENTAL EARTH SCIENCES | 2015 |
| 34 | X-ray emission from the taffy (VV254) galaxies and bridge | T. Bitsakis YAN GAO Appleton, P. N. et al. | ASTROPHYSICAL JOURNAL | 2015 |
| 35 | Deforestation and land tenure in Mexico: A response to Bonilla-Moheno et al. | MARGARET MC CALL SKUTSCH JEAN FRANCOIS RAYMOND MARIE MAS CAUSSEL GERARDO HECTOR RUBEN BOCCO VERDINELLI et al. | LAND USE POLICY | 2014 |
| 36 | National level biomass database comparison for Mexico in relation to vegetation degradation stages | JEAN FRANCOIS RAYMOND MARIE MAS CAUSSEL YAN GAO JAIME PANEQUE GALVEZ et al. | Proceedings of SPIE | 2014 |
| 37 | Object based image analysis for the classification of the growth stages of Avocado crop, in Michoacán State, Mexico | YAN GAO Marpu P. Morales Manila L.M. | Proceedings of SPIE | 2014 |
| 38 | Validation of MODIS vegetation continuous fields in two areas in Mexico | YAN GAO JEAN FRANCOIS RAYMOND MARIE MAS CAUSSEL JAIME PANEQUE GALVEZ et al. | International Workshop On Earth Observation And Remote Sensing Applications | 2014 |
| 39 | Design and interpretation of intensity analysis illustrated by land change in Central Kalimantan, Indonesia | YAN GAO Pontius R.G. Jr. et al. | Land | 2013 |
| 40 | Jatropha in Mexico: Environmental and social impacts of an incipient biofuel program | MARGARET MC CALL SKUTSCH YAN GAO OMAR RAUL MASERA CERUTTI et al. | ECOLOGY AND SOCIETY | 2011 |

YAN GAO

| | | | | |
|----|--|---|---|------|
| 41 | Object-based classification with features extracted by a semi-automatic feature extraction algorithm - SEaTH | YAN GAO Marpu, Prashanth Niemeyer, Imgard et al. | GEOCATO INTERNATIONAL | 2011 |
| 42 | Assessing deforestation from biofuels: Methodological challenges | YAN GAO MARGARET MC CALL SKUTSCH OMAR RAUL MASERA CERUTTI et al. | Applied Geography | 2011 |
| 43 | Optimal region growing segmentation and its effect on classification accuracy | YAN GAO Jean Francois Mas JOSE ANTONIO NAVARRETE PACHECO et al. | INTERNATIONAL JOURNAL OF REMOTE SENSING | 2011 |
| 44 | Sensitivity of landscape pattern metrics to classification approaches | JEAN FRANCOIS RAYMOND MARIE MAS CAUSSEL YAN GAO JOSE ANTONIO NAVARRETE PACHECO | FOREST ECOLOGY AND MANAGEMENT | 2010 |
| 45 | Spatial analysis of deforestation from biofuels: Methodological challenges | YAN GAO MARGARET MC CALL SKUTSCH OMAR RAUL MASERA CERUTTI et al. | GEOSPATIAL WEEK 2023, VOL. 48-1 | 2010 |
| 46 | The improvement of an object-oriented classification using multi-temporal MODIS EVI satellite data | YAN GAO JEAN FRANCOIS RAYMOND MARIE MAS CAUSSEL JOSE ANTONIO NAVARRETE PACHECO | INT J DIGIT EARTH | 2009 |
| 47 | Image classification accuracy improvement with a region based segmentation | YAN GAO JEAN FRANCOIS RAYMOND MARIE MAS CAUSSEL JOSE LUIS PALACIO PRIETO et al. | Proceedings, 32nd International Symposium On Remote Sensing Of Environment: Sustainable Development Through Globa | 2007 |
| 48 | A GIS manipulation to map land cover/use in a coal mining area | YAN GAO JEAN FRANCOIS RAYMOND MARIE MAS CAUSSEL JOSE LUIS PALACIO PRIETO et al. | Proceedings, 32nd International Symposium On Remote Sensing Of Environment: Sustainable Development Through Globa | 2007 |

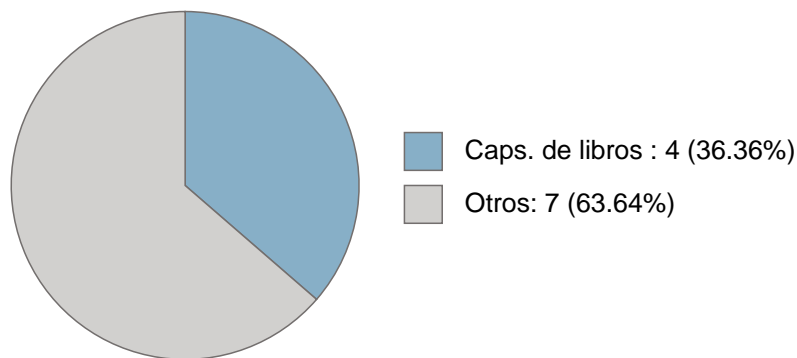
YAN GAO

| | | | | |
|----|---|--|--|------|
| 49 | Comparison of six fuzzy classifiers on unmixing coarse resolution images (SPOTVEGETATION): A case study in a tropical forest region of Southeast Mexico | JEAN FRANCOIS RAYMOND MARIE MAS CAUSSEL YAN GAO García-Mora T.J. | Proceedings, 32nd International Symposium On Remote Sensing Of Environment: Sustainable Development Through Globa | 2007 |
| 50 | Monitoring deforestation in Mexico with MODIS data | JEAN FRANCOIS RAYMOND MARIE MAS CAUSSEL JOSE ANTONIO NAVARRETE PACHECO YAN GAO et al. | Proceedings, 32nd International Symposium On Remote Sensing Of Environment: Sustainable Development Through Globa | 2007 |
| 51 | Comparison of pixel-based and object-oriented image classification approaches - A case study in a coal fire area, Wuda, Inner Mongolia, China | YAN GAO Mas J.-F. Maathuis B.H.P. et al. | INTERNATIONAL JOURNAL OF REMOTE SENSING | 2006 |

YAN GAO

LIBROS Y CAPITULOS CON ISBN

Obras con registro ISBN



| # | Título | Autores | Alcance | Año | ISBN |
|---|--|---|----------------------|------|---------------|
| 1 | FOREST DISTURBANCE DETECTION BY LANDSAT-BASED NDVI TIME SERIES FOR AYUQUILA RIVER BASIN, JALISCO, MEXICO | YAN GAO A. Quevedo J. Loya | Proceedings Paper | 2020 | 9781728143507 |
| 2 | WHICH VARIABLES IN FOREST SURVEY DATA CAN BETTER DISTINGUISH CONSERVED AND DEGRADED TROPICAL DRY FOREST? | YAN GAO MARGARET MC CALL SKUTSCH Diana Jimenez et al. | Proceedings Paper | 2020 | 9781728143507 |
| 3 | Forest degradation with remote sensing: How spatial resolution plays a role | YAN GAO Jimenez D.L. Taud H. et al. | Conference Paper | 2018 | 9781538666425 |
| 4 | Detection of forest disturbances by time series analysis of NDVI from MODIS sensor for Michoacan State, Mexico (2000 - 2014) | ALEXANDER QUEVEDO CHACON YAN GAO | Conference Paper | 2017 | 9781510856844 |
| 5 | Tropical dry forest degradation estimation at local scale with uav images | YAN GAO JAIME PANEQUE GALVEZ Alvarez F.R. | Conference Paper | 2017 | 9781510856844 |
| 6 | Climate effects on recharge and evolution of natural water resource in watersheds under arid climate | YAN GAO | Capítulo de un Libro | 2015 | 9783319134253 |
| 7 | Geomorphodiversity of the ejina basin in inner mongolia, central asia: Implications for late quaternary landscape evolution and palaeoenvironmental change | YAN GAO Zhu B. Yu J. et al. | Capítulo de un Libro | 2015 | 9781634834100 |



Sistema Integral de Información Académica
Coordinación de Planeación, Evaluación y
Simplificación de la Gestión Institucional
Reporte individual



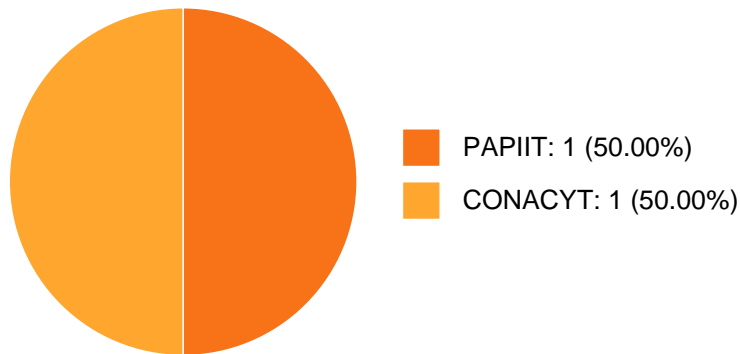
YAN GAO

| | | | | | |
|----|---|--|----------------------|------|---------------|
| 8 | Land change analysis from 2000 to 2004 in peatland of Central Kalimantan, Indonesia using GIS and an extended transition matrix | YAN GAO Pontius R.G. Jr. et al. | Capítulo de un Libro | 2015 | 9784431556817 |
| 9 | Contribution of hyperspectral applications to tropical peatland ecosystem monitoring | YAN GAO Hirose K. Osaki M. et al. | Capítulo de un Libro | 2015 | 9784431556817 |
| 10 | Bt Resistance - Characterization and Strategies for GM Crops Producing Bacillus thuringiensis Toxins Preface | MARIA ALEJANDRA BRAVO DE LA PARRA MARIO SOBERON CHAVEZ MARIO SOBERON CHAVEZ et al. | Editorial Material | 2015 | 9781780644370 |
| 11 | Validation of MODIS vegetation continuous fields in two areas in Mexico | YAN GAO JEAN FRANCOIS RAYMOND MARIE MAS CAUSSEL JAIME PANEQUE GALVEZ et al. | Conferencia Paper | 2014 | 9781479941841 |

YAN GAO

PARTICIPACIÓN EN PROYECTOS

Histórico de participación en proyectos

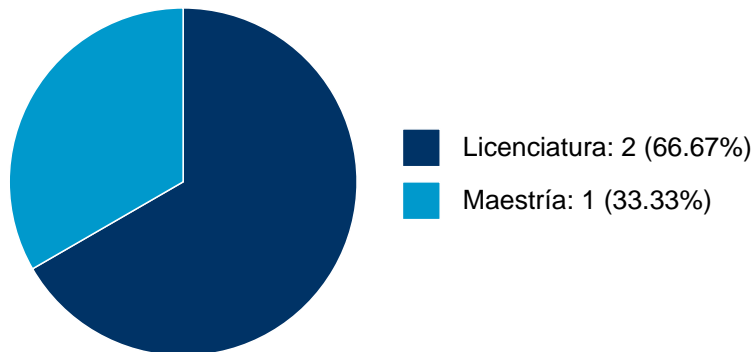


| # | Nombre | Participantes | Fuente | Fecha inicio | Fecha fin |
|---|---|---------------|------------------|--------------|------------|
| 1 | Mapeo de la degradación forestal en México utilizando datos de serie de tiempo de índice de vegetación del sensor MODIS | YAN GAO | Recursos PAPIIT | 01-01-2017 | 31-12-2018 |
| 2 | Análisis del patrón espacial de la degradación en selvas y bosques de México con percepción remota en múltiples escalas en el tiempo y espacio. | YAN GAO | Recursos CONACYT | 01-01-2018 | 07-06-2022 |

YAN GAO

PARTICIPACIÓN EN TESIS

Histórico de Colaboraciones en Tesis

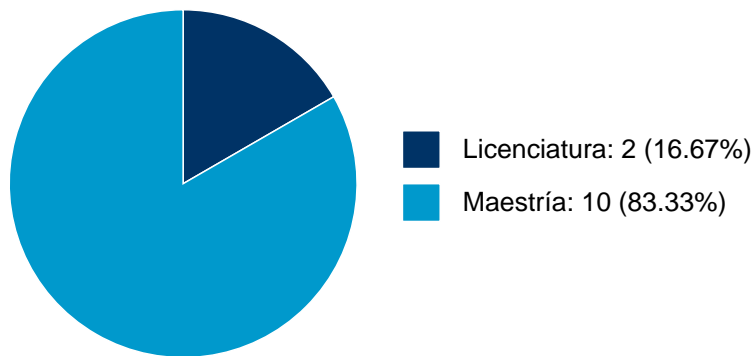


| # | Título del documento | Tipo de Tesis | Sinodales | Autores | Entidad | Año |
|---|--|-----------------------|-----------|---------------------------------|---|------|
| 1 | Monitoreo de la degradación forestal por medio de análisis de serie de tiempo (2010-2020) de índices de vegetación, humedad y fracción derivados del sensor landsat | Tesis de Licenciatura | YAN GAO, | Delgado Moreno, Daniel, | Centro de Investigaciones en Geografía Ambiental en Morelia, Michoacán, | 2022 |
| 2 | Modelación de atributos estructurales de selva tropical caducifolia basado en datos de múltiples sensores para el mapeo de degradación forestal | Tesis de Maestría | YAN GAO, | Jiménez Rodríguez, Diana Laura, | Centro de Investigaciones en Geografía Ambiental en Morelia, Michoacán, | 2020 |
| 3 | Estudio de los cambios en la fenología de la superficie de cubiertas forestales en Michoacán, México durante 2001-2017, mediante el análisis de series temporales de EVI MODIS | Tesis de Licenciatura | YAN GAO, | Romero Martínez, Juan José, | Centro de Investigaciones en Geografía Ambiental en Morelia, Michoacán, | 2018 |

YAN GAO

DOCENCIA IMPARTIDA

Histórico de docencia



| # | Nivel titulación | Asignatura | Entidad | Alumnos | Semestre |
|----|------------------|-------------------------------------|--|---------|----------|
| 1 | Maestría | INTRODUCCIÓN A LA PERCEPCIÓN REMOTA | Facultad de Filosofía y Letras | 2 | 2023-1 |
| 2 | Maestría | INTRODUCCIÓN A LA PERCEPCIÓN REMOTA | Facultad de Filosofía y Letras | 4 | 2022-1 |
| 3 | Maestría | INTRODUCCIÓN A LA PERCEPCIÓN REMOTA | Facultad de Filosofía y Letras | 7 | 2021-1 |
| 4 | Maestría | INTRODUCCIÓN A LA PERCEPCIÓN REMOTA | Facultad de Filosofía y Letras | 9 | 2020-1 |
| 5 | Licenciatura | ECOLOGIA DEL PAISAJE | Escuela Nacional de Estudios Superiores, Unidad Morelia, Michoacán | 11 | 2019-1 |
| 6 | Maestría | INTRODUCCIÓN A LA PERCEPCIÓN REMOTA | Facultad de Filosofía y Letras | 13 | 2019-1 |
| 7 | Maestría | INTRODUCCION A LA PERCEPCION REMOTA | Facultad de Filosofía y Letras | 5 | 2018-1 |
| 8 | Maestría | INTRODUCCIÓN A LA PERCEPCIÓN REMOTA | Facultad de Filosofía y Letras | 8 | 2017-2 |
| 9 | Maestría | INTRODUCCION A LA PERCEPCION REMOTA | Facultad de Filosofía y Letras | 13 | 2016-2 |
| 10 | Licenciatura | PERCEPCION REMOTA AVANZADA-336676 | Escuela Nacional de Estudios Superiores, Unidad Morelia, Michoacán | 8 | 2016-1 |



Sistema Integral de Información Académica
Coordinación de Planeación, Evaluación y
Simplificación de la Gestión Institucional
Reporte individual



YAN GAO

| | | | | | |
|----|----------|--|--------------------------------|----|--------|
| 11 | Maestría | INTRODUCCION A LA PERCEPCION REMOTA | Facultad de Filosofía y Letras | 11 | 2015-2 |
| 12 | Maestría | METODOLOGIAS DE LA INVESTIGACIONES AMBIENTALES | Facultad de Filosofía y Letras | 14 | 2014-2 |



Sistema Integral de Información Académica
Coordinación de Planeación, Evaluación y
Simplificación de la Gestión Institucional
Reporte individual



YAN GAO

TUTORIAS EN POSGRADO

No se encuentran registros en la base de datos de SIIPosgrado asociados a:

YAN GAO



Sistema Integral de Información Académica
Coordinación de Planeación, Evaluación y
Simplificación de la Gestión Institucional
Reporte individual



YAN GAO

PATENTES

No se encuentran registros en la base de datos de patentes asociados a:

YAN GAO

YAN GAO

FUENTES DE INFORMACIÓN

Internos

| # | Información | Fuente | Sistema | Periodo |
|---|--|--------|-------------|-----------|
| 1 | Grupos ordinarios y resumen de historias académicas | DGAE | SIAE | 2008-2024 |
| 2 | Nombramientos, datos generales, estímulos, premios y reconocimientos | DGAPA | RUPA | 2008-2024 |
| 3 | Producción Académica | CH | Humanindex | 2008-2021 |
| 4 | Producción Académica | CIC | SCIC | 2000-2017 |
| 5 | Proyectos | DGPO | SISEPRO | 2018-2022 |
| 6 | Tesis | DGB | TESIUNAM | 2008-2024 |
| 7 | Tutorías en Posgrado | CGEP | SIIPosgrado | 2008-2021 |

Externos

| # | Información | Fuente | Sistema | Periodo |
|----|-------------------------|-----------------|--------------|-----------|
| 8 | Documentos Indexados | Elsevier | Scopus | 2008-2024 |
| 9 | Documentos Indexados | Thomson Reuters | WoS | 2008-2024 |
| 10 | Obras con registro ISBN | INDAUTOR | Agencia ISBN | 2008-2024 |
| 11 | Patentes | IMPI | SIGA | 2008-2024 |