



CARMEN JOSEFA LUCIANA VAREA Y GILABERT

Datos Generales

Nombre: CARMEN JOSEFA LUCIANA VAREA Y GILABERT

Máximo nivel de estudios: DOCTORADO

Antigüedad académica en la UNAM: 43 años

Nombramientos

Último: INVESTIGADOR TITULAR C TC Definitivo
Instituto de Física
Desde 16-02-2014 hasta 30-04-2014

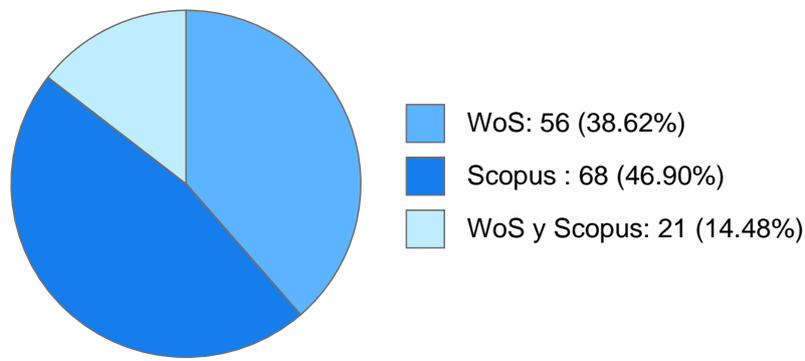
Estímulos, programas, premios y reconocimientos

SNI III 2023
SNI Emérito 2021 - 2022
SNI Emérito 2011 - 2019
SNI III - 2010
PRIDE D - 2014

CARMEN JOSEFA LUCIANA VAREA Y GILABERT

DOCUMENTOS EN REVISTAS

Histórico de Documentos



| # | Título | Autores | Revista | Año |
|---|--|--|---------------------------------------|------|
| 1 | Phase-field modelling of the dynamics of Z-ring formation in liposomes: Onset of constriction and coarsening | RAFAEL ANGEL BARRIO PAREDES CARMEN JOSEFA LUCIANA VAREA Y GILABERT Picallo, C. B. et al. | EUROPEAN PHYSICAL JOURNAL E | 2015 |
| 2 | Curvature multiphase field model for phase separation on a membrane | CARMEN JOSEFA LUCIANA VAREA Y GILABERT RAFAEL ANGEL BARRIO PAREDES Hernandez-Machado, A. | PHYSICAL REVIEW E | 2011 |
| 3 | Flower Development as an Interplay between Dynamical Physical Fields and Genetic Networks | RAFAEL ANGEL BARRIO PAREDES CARMEN JOSEFA LUCIANA VAREA Y GILABERT JOSE ROBERTO ROMERO ARIAS et al. | PLOS ONE | 2010 |
| 4 | Dynamics of reaction-diffusion systems in a subdiffusive regime | DAMIAN HERNANDEZ HERRAN CARMEN JOSEFA LUCIANA VAREA Y GILABERT RAFAEL ANGEL BARRIO PAREDES | PHYSICAL REVIEW E | 2009 |
| 5 | Soliton behaviour in a bistable reaction diffusion model | CARMEN JOSEFA LUCIANA VAREA Y GILABERT RAFAEL ANGEL BARRIO PAREDES Hernández D. | JOURNAL OF MATHEMATICAL BIOLOGY | 2007 |
| 6 | Quasiwetting on spherical solid surfaces by oil-water-amphiphile mixtures | CONSUELO GARCIA ALCANTARA CARMEN JOSEFA LUCIANA VAREA Y GILABERT | PHYSICAL REVIEW E | 2006 |

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|----|--|--|--|------|
| 7 | Non-linear systems | RAFAEL ANGEL BARRIO PAREDES CARMEN JOSEFA LUCIANA VAREA Y GILABERT | PHYSICA A-STATISTICAL MECHANICS AND ITS APPLICATIONS | 2006 |
| 8 | Wave-front dynamics in systems with directional anomalous diffusion | RAFAEL ANGEL BARRIO PAREDES CARMEN JOSEFA LUCIANA VAREA Y GILABERT Hernández D. | PHYSICAL REVIEW E | 2006 |
| 9 | Dynamics of growth in a three-component mixture with competing interactions | CARMEN JOSEFA LUCIANA VAREA Y GILABERT | PHYSICAL REVIEW E | 2004 |
| 10 | Travelling Turing patterns with anomalous diffusion | CARMEN JOSEFA LUCIANA VAREA Y GILABERT RAFAEL ANGEL BARRIO PAREDES | JOURNAL OF PHYSICS-COND ENSED MATTER | 2004 |
| 11 | Spinodal decomposition, power laws, and wetting at a triple point | CARMEN JOSEFA LUCIANA VAREA Y GILABERT | PHYS REV E | 2003 |
| 12 | Stability of curved amphiphilic interfaces | CARMEN JOSEFA LUCIANA VAREA Y GILABERT ALBERTO ROBLEDO NIETO | PHYSICA A-STATISTICAL MECHANICS AND ITS APPLICATIONS | 2002 |
| 13 | Fluctuations and instabilities of model amphiphile interfaces | CARMEN JOSEFA LUCIANA VAREA Y GILABERT ALBERTO ROBLEDO NIETO | PHYSICA A-STATISTICAL MECHANICS AND ITS APPLICATIONS | 2001 |
| 14 | Theory of interfacial bending constants | CARMEN JOSEFA LUCIANA VAREA Y GILABERT ALBERTO ROBLEDO NIETO | JOURNAL OF PHYSICS-COND ENSED MATTER | 2001 |
| 15 | Arrested phase separation and phase equilibrium properties of microemulsions | ALBERTO ROBLEDO NIETO CARMEN JOSEFA LUCIANA VAREA Y GILABERT | NUOVO CIMENTO D | 1999 |
| 16 | Turing patterns on a sphere | CARMEN JOSEFA LUCIANA VAREA Y GILABERT JOSE LUIS ARAGON VERA RAFAEL ANGEL BARRIO PAREDES | PHYS REV E | 1999 |
| 17 | Density fluctuations and correlations of confined fluids | CARMEN JOSEFA LUCIANA VAREA Y GILABERT ALBERTO ROBLEDO NIETO | PHYSICA A-STATISTICAL MECHANICS AND ITS APPLICATIONS | 1999 |
| 18 | A two-dimensional numerical study of spatial pattern formation in interacting Turing systems | RAFAEL ANGEL BARRIO PAREDES CARMEN JOSEFA LUCIANA VAREA Y GILABERT JOSE LUIS ARAGON VERA et al. | BULLETIN OF MATHEMATICAL BIOLOGY | 1999 |

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| 19 | Fluctuations and instabilities of curved interfaces | CARMEN JOSEFA LUCIANA VAREA Y GILABERT ALBERTO ROBLEDO NIETO | PHYSICA A-STATISTICAL MECHANICS AND ITS APPLICATIONS | 1998 |
| 20 | Enhanced amphiphile adsorption at liquid-liquid interfaces in a micellar solution model | CONSUELO GARCIA ALCANTARA CARMEN JOSEFA LUCIANA VAREA Y GILABERT ALBERTO ROBLEDO NIETO | PHYSICA A-STATISTICAL MECHANICS AND ITS APPLICATIONS | 1998 |
| 21 | Robust symmetric patterns in the Faraday experiment | RAFAEL ANGEL BARRIO PAREDES JOSE LUIS ARAGON VERA CARMEN JOSEFA LUCIANA VAREA Y GILABERT et al. | PHYS REV E | 1997 |
| 22 | Interfacial and capillary properties of a micellar solution model | CARMEN JOSEFA LUCIANA VAREA Y GILABERT CONSUELO GARCIA ALCANTARA ALBERTO ROBLEDO NIETO | PHYSICA A-STATISTICAL MECHANICS AND ITS APPLICATIONS | 1997 |
| 23 | Interfacial width and shape fluctuations and extensions of the Gaussian model of capillary waves | ALBERTO ROBLEDO NIETO CARMEN JOSEFA LUCIANA VAREA Y GILABERT | JOURNAL OF STATISTICAL PHYSICS | 1997 |
| 24 | Spinodal decomposition under confinement | CARMEN JOSEFA LUCIANA VAREA Y GILABERT ALBERTO ROBLEDO NIETO Campos-Terán J. | PHYSICA A-STATISTICAL MECHANICS AND ITS APPLICATIONS | 1997 |
| 25 | Hydrodynamic 5-fold diffusion-driven instabilities | RAFAEL ANGEL BARRIO PAREDES JOSE LUIS ARAGON VERA CARMEN JOSEFA LUCIANA VAREA Y GILABERT et al. | NONLINEAR ANALYSIS-THEORY METHODS & APPLICATIONS | 1997 |
| 26 | Confined turing patterns in growing systems | CARMEN JOSEFA LUCIANA VAREA Y GILABERT JOSE LUIS ARAGON VERA RAFAEL ANGEL BARRIO PAREDES | PHYS REV E | 1997 |
| 27 | Can the Helfrich free energy for curved interfaces be derived from first principles? | ALBERTO ROBLEDO NIETO CARMEN JOSEFA LUCIANA VAREA Y GILABERT | PHYSICA A-STATISTICAL MECHANICS AND ITS APPLICATIONS | 1996 |
| 28 | Stress tensor of inhomogeneous fluids | CARMEN JOSEFA LUCIANA VAREA Y GILABERT ALBERTO ROBLEDO NIETO | PHYSICA A-STATISTICAL MECHANICS AND ITS APPLICATIONS | 1996 |

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|----|--|--|--|------|
| 29 | Langmuir films of mixtures of C70 and arachidic acid | CARMEN JOSEFA LUCIANA VAREA Y GILABERT Ramos S. Ruíz-García J. et al. | FLUID PHASE EQUILIBRIA | 1995 |
| 30 | Bending rigidities and spontaneous curvature for a spherical interface | CARMEN JOSEFA LUCIANA VAREA Y GILABERT ALBERTO ROBLEDO NIETO | PHYSICA A-STATISTICAL MECHANICS AND ITS APPLICATIONS | 1995 |
| 31 | Scaling properties of the capillary-wave model with interfacial bending rigidity | ALBERTO ROBLEDO NIETO CARMEN JOSEFA LUCIANA VAREA Y GILABERT | MOLECULAR PHYSICS | 1995 |
| 32 | Free energy expressions for a spherical interface | CARMEN JOSEFA LUCIANA VAREA Y GILABERT ALBERTO ROBLEDO NIETO | MOLECULAR PHYSICS | 1995 |
| 33 | Magnitude of the prewetting boundary tension near wetting for short-range forces | CARMEN JOSEFA LUCIANA VAREA Y GILABERT ALBERTO ROBLEDO NIETO | PHYS REV E | 1993 |
| 34 | Stress tensor of curved interfaces | VICTOR MANUEL ROMERO ROCHIN CARMEN JOSEFA LUCIANA VAREA Y GILABERT ALBERTO ROBLEDO NIETO | MOLECULAR PHYSICS | 1993 |
| 35 | Erratum: Microscopic expressions for interfacial bending constants and spontaneous curvature (Physical Review E (1993) 48,2) | VICTOR MANUEL ROMERO ROCHIN CARMEN JOSEFA LUCIANA VAREA Y GILABERT ALBERTO ROBLEDO NIETO | PHYS REV E | 1993 |
| 36 | Extended capillary-wave model for the liquid-vapor interface and its width in the limit of vanishing gravity | VICTOR MANUEL ROMERO ROCHIN CARMEN JOSEFA LUCIANA VAREA Y GILABERT ALBERTO ROBLEDO NIETO | PHYSICA A-STATISTICAL MECHANICS AND ITS APPLICATIONS | 1992 |
| 37 | Evidence for the divergence of the line tension at the wetting transition | CARMEN JOSEFA LUCIANA VAREA Y GILABERT ALBERTO ROBLEDO NIETO | PHYSICAL REVIEW A | 1992 |
| 38 | Statistical mechanics of the line tension | CARMEN JOSEFA LUCIANA VAREA Y GILABERT ALBERTO ROBLEDO NIETO | PHYSICA A-STATISTICAL MECHANICS AND ITS APPLICATIONS | 1992 |
| 39 | Wetting transition for the contact line and Antonov's rule for the line tension | ALBERTO ROBLEDO NIETO CARMEN JOSEFA LUCIANA VAREA Y GILABERT Indekeu J.O. | PHYSICAL REVIEW A | 1992 |
| 40 | Density functional theory beyond the surface tension. Interfacial width, elastic bending constants and line tension | ALBERTO ROBLEDO NIETO CARMEN JOSEFA LUCIANA VAREA Y GILABERT VICTOR MANUEL ROMERO ROCHIN | PHYSICA A-STATISTICAL MECHANICS AND ITS APPLICATIONS | 1991 |

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| 41 | Asymmetric solubility loops and anomalous geometry at the lower critical point in a model micellar solution. | ALBERTO ROBLEDO NIETO GUSTAVO CARLOS MARTINEZ MEKLER CARMEN JOSEFA LUCIANA VAREA Y GILABERT | EPL | 1991 |
| 42 | Curvature interfacial transitions in amphiphile monolayers and their possible relation to the onset of micelle formation | ALBERTO ROBLEDO NIETO CARMEN JOSEFA LUCIANA VAREA Y GILABERT Talanquer V. | PHYSICAL REVIEW A | 1991 |
| 43 | Microscopic expressions for interfacial bending constants and spontaneous curvature | CARMEN JOSEFA LUCIANA VAREA Y GILABERT ALBERTO ROBLEDO NIETO Romero-Rochn V. | PHYSICAL REVIEW A | 1991 |
| 44 | The hard-sphere order-disorder transition in the bethe continuum | ALBERTO ROBLEDO NIETO CARMEN JOSEFA LUCIANA VAREA Y GILABERT | JOURNAL OF STATISTICAL PHYSICS | 1991 |
| 45 | Spin-hole model with magnetic vortex-antivortex pairing mechanism for cooper-oxide superconductors | ALBERTO ROBLEDO NIETO CARMEN JOSEFA LUCIANA VAREA Y GILABERT | PHYSICA C-SUPERCONDU CTIVITY AND ITS APPLICATIONS | 1990 |
| 46 | Global phase diagram for binary alloys with one magnetic component | CARMEN JOSEFA LUCIANA VAREA Y GILABERT ALBERTO ROBLEDO NIETO Talanquer V. | PHYSICAL REVIEW B | 1989 |
| 47 | Sublattice-ordered phases in a lattice model for a micellar solution | CARMEN JOSEFA LUCIANA VAREA Y GILABERT ALBERTO ROBLEDO NIETO Talanquer V. | PHYSICAL REVIEW B | 1989 |
| 48 | Sublattice-ordered phases of Griffiths's three-component model | CARMEN JOSEFA LUCIANA VAREA Y GILABERT ALBERTO ROBLEDO NIETO Talanquer V. | PHYSICAL REVIEW B | 1989 |
| 49 | Magnetic vortex-antivortex pairing mechanism for doped La ₂ CuO ₄ | ALBERTO ROBLEDO NIETO CARMEN JOSEFA LUCIANA VAREA Y GILABERT | PHYSICA C-SUPERCONDU CTIVITY AND ITS APPLICATIONS | 1989 |
| 50 | Possibility of continuous wetting transition at the liquid-vapour interface of the binary liquid mixture cyclohexane + acetonitrile | CARMEN JOSEFA LUCIANA VAREA Y GILABERT ALBERTO ROBLEDO NIETO Trejo L.M. et al. | EPL | 1988 |
| 51 | High-T _c superconductivity at twin boundaries in a Landau-Ginzburg superconductor oxide model | ALBERTO ROBLEDO NIETO CARMEN JOSEFA LUCIANA VAREA Y GILABERT | PHYSICAL REVIEW B | 1988 |
| 52 | Simple model for liquid water | MARIA EUGENIA HERMINIA COSTAS BASIN CARMEN JOSEFA LUCIANA VAREA Y GILABERT Sánchez G. | JOURNAL OF CHEMICAL PHYSICS | 1987 |
| 53 | Square well orthobaric densities via spinodal decomposition | CARMEN JOSEFA LUCIANA VAREA Y GILABERT Chapela G.A. Martinez-Casas S.E. | JOURNAL OF CHEMICAL PHYSICS | 1987 |

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| 54 | Critical magnetization at antiphase boundaries of magnetic binary alloys | CARMEN JOSEFA LUCIANA VAREA Y GILABERT ALBERTO ROBLEDO NIETO | PHYSICAL REVIEW B | 1987 |
| 55 | A Nonlocal Theory of Irreversible Thermodynamics I. Hydrodynamics of a One Component Fluid | ALBERTO ROBLEDO NIETO CARMEN JOSEFA LUCIANA VAREA Y GILABERT | JOURNAL OF NON-EQUILIBRIUM THERMODYNAMICS | 1987 |
| 56 | Relationships between the phase behavior of lattice models of amphiphile mixtures and Griffiths three-component model | CARMEN JOSEFA LUCIANA VAREA Y GILABERT ALBERTO ROBLEDO NIETO | PHYSICAL REVIEW A | 1986 |
| 57 | Interfacial critical phenomena at semipermeable membranes | ALBERTO ROBLEDO NIETO CARMEN JOSEFA LUCIANA VAREA Y GILABERT Martina E. | PHYSICAL REVIEW B | 1985 |
| 58 | Wetting regimes at a semipermeable membrane | CARMEN JOSEFA LUCIANA VAREA Y GILABERT ALBERTO ROBLEDO NIETO Martina E. | PHYSICAL REVIEW A | 1985 |
| 59 | Pinning of antiphase boundaries at the cleaved (001) surface of an L20 ordering alloy | LUIS ALBERTO VICENTE HINESTROZA CARMEN JOSEFA LUCIANA VAREA Y GILABERT ALBERTO ROBLEDO NIETO | SURFACE SCIENCE | 1985 |
| 60 | ROUGENING TRANSITION AND FORMATION OF BICONTINUOUS STRUCTURES OF IMMISCIBLE SOLVENTS EMBEDDED IN SURFACTANT DIBLOCK COPOLYMERS. | ALBERTO ROBLEDO NIETO CARMEN JOSEFA LUCIANA VAREA Y GILABERT Martina E. | J Phys (paris) Lett | 1985 |
| 61 | Prewetting in partially miscible liquids and the structure and thermodynamics of transient foams and aerosols | JESUS GRACIA SANCHEZ CARMEN JOSEFA LUCIANA VAREA Y GILABERT ALBERTO ROBLEDO NIETO | J PHYS-CHEM-US | 1984 |
| 62 | Global phase diagram for the wetting transition at interfaces in fluid mixtures | MARIA EUGENIA HERMINIA COSTAS BASIN CARMEN JOSEFA LUCIANA VAREA Y GILABERT ALBERTO ROBLEDO NIETO | PHYSICAL REVIEW LETTERS | 1983 |
| 63 | Kinetics of phase change in a model binary alloy | ALBERTO ROBLEDO NIETO CARMEN JOSEFA LUCIANA VAREA Y GILABERT | PHYSICAL REVIEW B | 1982 |
| 64 | Nucleation, spinodal decomposition, and interface motion in the van der Waals fluid | CARMEN JOSEFA LUCIANA VAREA Y GILABERT ALBERTO ROBLEDO NIETO | JOURNAL OF CHEMICAL PHYSICS | 1981 |
| 65 | On the relationship between the density functional formalism and the potential distribution theory for nonuniform fluids | ALBERTO ROBLEDO NIETO CARMEN JOSEFA LUCIANA VAREA Y GILABERT | JOURNAL OF STATISTICAL PHYSICS | 1981 |
| 66 | Rigorous interface properties for the van der Waals fluid mixture | CARMEN JOSEFA LUCIANA VAREA Y GILABERT ALBERTO ROBLEDO NIETO Valderrama A. | JOURNAL OF CHEMICAL PHYSICS | 1980 |



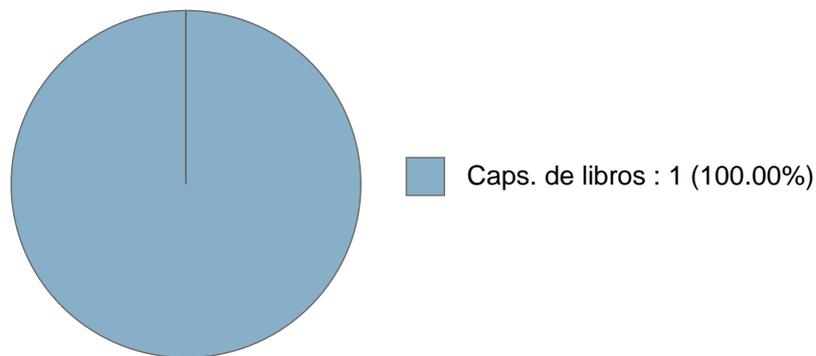
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| 67 | Tight-binding Green's functions for surfaces, thin films, and solid interfaces. A random-walk theory approach | ALBERTO ROBLEDO NIETO CARMEN JOSEFA LUCIANA VAREA Y GILABERT | PHYSICAL REVIEW B | 1980 |
| 68 | Surface electronic Green's functions in terms of the bulk Green's function via random-walk theory | CARMEN JOSEFA LUCIANA VAREA Y GILABERT ALBERTO ROBLEDO NIETO | PHYSICAL REVIEW B | 1979 |

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LIBROS Y CAPITULOS CON ISBN

Obras con registro ISBN



| # | Título | Autores | Alcance | Año | ISBN |
|---|---|--|----------------------|------|---------------|
| 1 | Two-dimensional growth in a three component mixture with competing interactions | CARMEN JOSEFA LUCIANA VAREA Y GILABERT | Capítulo de un Libro | 2005 | 9781860947209 |



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



CARMEN JOSEFA LUCIANA VAREA Y GILABERT

PARTICIPACIÓN EN PROYECTOS

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

CARMEN JOSEFA LUCIANA VAREA Y GILABERT



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



CARMEN JOSEFA LUCIANA VAREA Y GILBERT

PARTICIPACIÓN EN TESIS

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

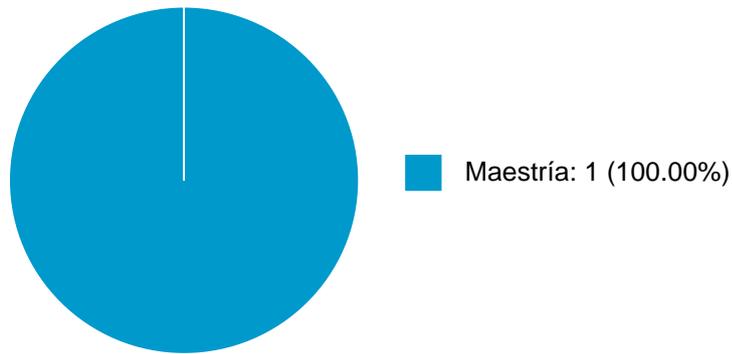
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DOCENCIA IMPARTIDA

Histórico de docencia



| # | Nivel titulación | Asignatura | Entidad | Alumnos | Semestre |
|---|------------------|--------------------|---------------------|---------|----------|
| 1 | Maestría | FISICA ESTADISTICA | Instituto de Física | 6 | 2008-2 |



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



CARMEN JOSEFA LUCIANA VAREA Y GILABERT

PATENTES

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

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FUENTES DE INFORMACIÓN

Internos

| # | Información | Fuente | Sistema | Periodo |
|---|--|--------|-------------|-----------|
| 1 | Grupos ordinarios y resumen de historias académicas | DGAE | SIAE | 2008-2025 |
| 2 | Nombramientos, datos generales, estímulos, premios y reconocimientos | DGAPA | RUPA | 2008-2025 |
| 3 | Producción Académica | CH | Humanindex | 2008-2021 |
| 4 | Producción Académica | CIC | SCIC | 2000-2017 |
| 5 | Proyectos | DGPO | SISEPRO | 2018-2022 |
| 6 | Tesis | DGB | TESIUNAM | 2008-2025 |
| 7 | Tutorías en Posgrado | CGEP | SIIPosgrado | 2008-2021 |

Externos

| # | Información | Fuente | Sistema | Periodo |
|----|-------------------------|-----------------|--------------|-----------|
| 8 | Documentos Indexados | Elsevier | Scopus | 2008-2025 |
| 9 | Documentos Indexados | Thomson Reuters | WoS | 2008-2025 |
| 10 | Obras con registro ISBN | INDAUTOR | Agencia ISBN | 2008-2025 |
| 11 | Patentes | IMPI | SIGA | 2008-2024 |