



FLAVIO FERNANDO CONTRERAS TORRES

Datos Generales

Nombre: FLAVIO FERNANDO CONTRERAS TORRES

Máximo nivel de estudios: DOCTORADO

Antigüedad académica en la UNAM: 3 años

Nombramientos

Último: PROFESOR ASIGNATURA A TP No Definitivo
Facultad de Ciencias
Desde 16-12-2014 hasta 15-02-2015

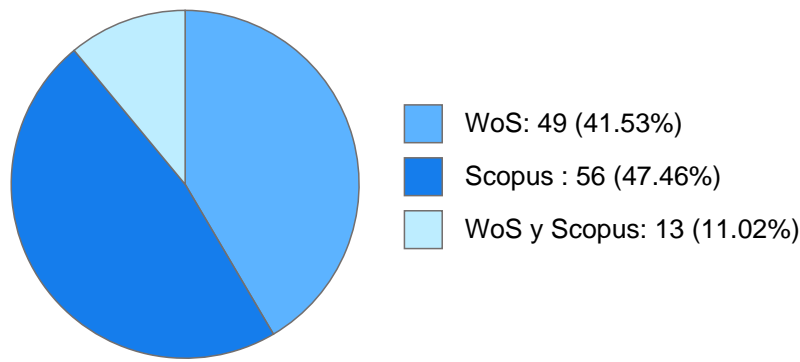
Estímulos, programas, premios y reconocimientos

SNI I 2012 - 2023
PEPASIG Nivel C (Doctorado) 2014, 3 horas asignadas
PEPASIG Nivel C (Doctorado) 2013, 6 horas asignadas
PEPASIG Nivel C (Doctorado) 2012 - 2013, 3 horas asignadas

FLAVIO FERNANDO CONTRERAS TORRES

DOCUMENTOS EN REVISTAS

Histórico de Documentos



#	Título	Autores	Revista	Año
1	Crystal evolution of nano-sized CoCr ₂ O ₄ synthesized by a modified sol-gel method	FLAVIO FERNANDO CONTRERAS TORRES Miranda-López M.I. Cavazos-Cavazos D. et al.	JOURNAL OF PHYSICS AND CHEMISTRY OF SOLIDS	2023
2	Scanning Tunneling Microscopy of Biological Structures: An Elusive Goal for Many Years	JOSE ANDRES DE LA CRUZ RODRIGUEZ GALVAN FLAVIO FERNANDO CONTRERAS TORRES	NANOMATERIALS	2022
3	Latest Advances and Developments to Detection of Micro- and Nanoplastics Using Surface-Enhanced Raman Spectroscopy	FLAVIO FERNANDO CONTRERAS TORRES Vélez-Escamilla L.Y.	PARTICLE & PARTICLE SYSTEMS CHARACTERIZATION	2022
4	A Poisson-Nernst-Planck Model of Ion Transport and Interface Segregation in Metal-Insulator-Semiconductor Structures and Solar Cells	FLAVIO FERNANDO CONTRERAS TORRES Martinez Loran E. von Gastrow G. et al.	PHYSICA STATUS SOLIDI B-BASIC SOLID STATE PHYSICS	2022
5	Advances in the Structural Strategies of the Self-Assembly of Photoresponsive Supramolecular Systems	FLAVIO FERNANDO CONTRERAS TORRES Santamaría-García V.J. Flores-Hernandez D.R. et al.	INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES	2022

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6	Hyaluronate functionalized multi-wall carbon nanotubes loaded with carboplatin enhance cytotoxicity on human cancer cell lines	FLAVIO FERNANDO CONTRERAS TORRES Leyva-González C.A. Salas-Treviño D. et al.	Materials	2021
7	Solvent-free functionalization of graphene oxide powder and paper with aminobenzo-crown ethers and complexation with alkali metal cations	FLAVIO FERNANDO CONTRERAS TORRES VICTOR HUGO MEZA LAGUNA EDGAR ALVAREZ ZAUCO et al.	MATERIALS CHEMISTRY AND PHYSICS	2021
8	Microstructure of polycrystalline gold nanoparticles and thin-films from a comparative X-ray line profile analysis	FLAVIO FERNANDO CONTRERAS TORRES Murrieta A.C. Cavazos-Cavazos D. et al.	MATERIALS CHEMISTRY AND PHYSICS	2021
9	Amorphous SiO ₂ nanoparticles promote cardiac dysfunction via the opening of the mitochondrial permeability transition pore in rat heart and human cardiomyocytes	FLAVIO FERNANDO CONTRERAS TORRES Lozano O. Silva-Platas C. et al.	PARTICLE AND FIBRE TOXICOLOGY	2020
10	Dispersion-Corrected Density Functional Theory Study of the Noncovalent Complexes Formed with Imidazo[1,2-A]pyrazines Adsorbed onto Silver Clusters	FLAVIO FERNANDO CONTRERAS TORRES	Acs Omega	2020
11	A dispersion-corrected density functional theory study of the noncovalent interactions between nucleobases and carbon nanotube models containing stone-wales defects	FLAVIO FERNANDO CONTRERAS TORRES ELENA GOLOVATAYA DZHymbEEVA VLADIMIR BASSIOUK EVDOKIMENKO	JOURNAL OF COMPUTATIONAL CHEMISTRY	2020
12	Microstructure of polycrystalline solids: A brief review from methods in X-ray line profile analysis	FLAVIO FERNANDO CONTRERAS TORRES Murrieta A.C.	INTERNATIONAL CONFERENCES & EXHIBITION ON NANOTECHNOLOGIES, ORGANIC ELECTRONICS & NANOMEDICINE, NANOTECHNOLOGY 2020, PT 1	2020
13	IndexCub: A ready-to-use set of routines for X-ray diffraction line profile analysis	FLAVIO FERNANDO CONTRERAS TORRES	POWDER DIFFRACTION	2019

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14	X-ray diffraction line profile analysis: A microstructural study in polymorphic TiO ₂	FLAVIO FERNANDO CONTRERAS TORRES Santos-Aguilar P.	INTERNATIONAL CONFERENCES & EXHIBITION ON NANOTECHNOLOGIES, ORGANIC ELECTRONICS & NANOMEDICINE, NANOTECHNOLOGY 2020, PT 1	2019
15	Editorial: Special issue on the international conference of nanotechnology Tec.Nano 2018	FLAVIO FERNANDO CONTRERAS TORRES	INTERNATIONAL CONFERENCES & EXHIBITION ON NANOTECHNOLOGIES, ORGANIC ELECTRONICS & NANOMEDICINE, NANOTECHNOLOGY 2020, PT 1	2019
16	Hyaluronate functionalized multi-wall carbon nanotubes filled with carboplatin as a novel drug nanocarrier against murine lung cancer cells	FLAVIO FERNANDO CONTRERAS TORRES Salas-Treviño D. Saucedo-Cárdenas O. et al.	NANOMATERIALS	2019
17	Surface enhanced Raman spectroscopy of phenolic antioxidants: A systematic evaluation of ferulic acid, p-coumaric acid, caffeic acid and sinapic acid	FLAVIO FERNANDO CONTRERAS TORRES Aguilar-Hernández, I. Afseth, N.K. et al.	VIBRATIONAL SPECTROSCOPY	2017
18	Enhanced enzymatic activity of laccase (from <i>Pycnoporus sanguineus</i> CS43) immobilized on sputtered nanostructured gold thin films	ERICK ROLANDO MARTINEZ LORAN FLAVIO FERNANDO CONTRERAS TORRES Rodríguez-Delgado, M. et al.	JOURNAL OF NANOSCIENCE AND NANOTECHNOLOGY	2017
19	Differential cytotoxicity and internalization of graphene family nanomaterials in myocardial cells	FLAVIO FERNANDO CONTRERAS TORRES ERICK ROLANDO MARTINEZ LORAN Rodríguez-Galván, A. et al.	MATERIALS SCIENCE & ENGINEERING C-MATERIALS FOR BIOLOGICAL APPLICATIONS	2017

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20	Enhancing internalization of silica particles in myocardial cells through surface modification	ALEJANDRA GARCIA GARCIA FLAVIO FERNANDO CONTRERAS TORRES Ornelas-Soto, N. et al.	MATERIALS SCIENCE & ENGINEERING C-MATERIALS FOR BIOLOGICAL APPLICATIONS	2017
21	Determination of contrast factors for cubic slip-systems and their application in the microstructural characterization of binary $Fm\bar{3}m$ materials	FLAVIO FERNANDO CONTRERAS TORRES Cavazos-Cavazos, D.	JOURNAL OF PHYSICS AND CHEMISTRY OF SOLIDS	2017
22	In-Situ Metallization of Thermally-Treated Tobacco Mosaic Virus Using Silver Nanoparticles	VLADIMIR BASSIOUK EVDOKIMENKO FLAVIO FERNANDO CONTRERAS TORRES Rodriguez-Galvan, Andres et al.	JOURNAL OF NANOSCIENCE AND NANOTECHNOLOGY	2017
23	Ultrasensitive detection of phenolic antioxidants by surface enhanced Raman spectroscopy	FLAVIO FERNANDO CONTRERAS TORRES Ornelas-Soto N. Aguilar-Hernández I.A. et al.	Proceedings of SPIE	2017
24	Transformation of Plant Cell Suspension Cultures with Amine-Functionalized Multi-Walled Carbon Nanotubes	FLAVIO FERNANDO CONTRERAS TORRES SOBEIDA SANCHEZ NIETO TZVETANKA DIMITROVA DINKOVA et al.	JOURNAL OF NANOSCIENCE AND NANOTECHNOLOGY	2016
25	A stellar wind origin for the G2 cloud: Three-dimensional numerical simulations	FABIO DE COLLE ALEJANDRO CRISTIAN RAGA RASMUSSEN FLAVIO FERNANDO CONTRERAS TORRES et al.	ASTROPHYSICAL JOURNAL LETTERS	2014
26	Deposition of silver nanoparticles onto human serum albumin-functionalised multi-walled carbon nanotubes	Andres Rodriguez Galvan FLAVIO FERNANDO CONTRERAS TORRES ELENA GOLOVATAYA DZHYMBEEVA et al.	CANADIAN JOURNAL OF CHEMICAL ENGINEERING	2013
27	Solvent-free covalent functionalization of nanodiamond with amines	ELENA GOLOVATAYA DZHYMBEEVA Adriana Santamaria Bonfil VICTOR HUGO MEZA LAGUNA et al.	APPLIED SURFACE SCIENCE	2013
28	Surface diffusion and coverage effect of Li atom on graphene as studied by several density functional theory methods	Zhi Ji FLAVIO FERNANDO CONTRERAS TORRES Jalbout, Abraham F. et al.	APPLIED SURFACE SCIENCE	2013

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29	Nanostructured Diamine–Fullerene Derivatives: Computational Density Functional Theory Study and Experimental Evidence for their Formation via Gas-Phase Functionalization	FLAVIO FERNANDO CONTRERAS TORRES ELENA GOLOVATAYA DZHymbEEVA VLADIMIR BASSIOUK EVDOKIMENKO et al.	JOURNAL OF PHYSICAL CHEMISTRY A	2012
30	Solvent-free covalent functionalization of multi-walled carbon nanotubes and nanodiamond with diamines: Looking for cross-linking effects	ELENA GOLOVATAYA DZHymbEEVA VLADIMIR BASSIOUK EVDOKIMENKO VICTOR HUGO MEZA LAGUNA et al.	APPLIED SURFACE SCIENCE	2012
31	Aggregation of Human Serum Albumin on Graphite and Single-Walled Carbon Nanotubes as Studied by Scanning Probe Microscopies	Andres Rodriguez Galvan FLAVIO FERNANDO CONTRERAS TORRES ELENA GOLOVATAYA DZHymbEEVA et al.	JOURNAL OF NANOSCIENCE AND NANOTECHNOLOGY	2011
32	"Green" Functionalization of Pristine Multi-Walled Carbon Nanotubes with Long-Chain Aliphatic Amines	ELENA GOLOVATAYA DZHymbEEVA Omar Ochoa Olmos FLAVIO FERNANDO CONTRERAS TORRES et al.	JOURNAL OF NANOSCIENCE AND NANOTECHNOLOGY	2011
33	DNA insertion in and wrapping around carbon nanotubes	FLAVIO FERNANDO CONTRERAS TORRES ERICK ROLANDO MARTINEZ LORAN	WIRES COMPUT MOL SCI	2011
34	Interaction Between NO ₂ and an Elongated Fullerene C-60	FLAVIO FERNANDO CONTRERAS TORRES VLADIMIR BASSIOUK EVDOKIMENKO ELENA GOLOVATAYA DZHymbEEVA	JOURNAL OF COMPUTATIONAL AND THEORETICAL NANOSCIENCE	2010
35	Atomic force microscopy of extraterrestrial samples	FLAVIO FERNANDO CONTRERAS TORRES ELENA GOLOVATAYA DZHymbEEVA Rodríguez-Galván A.	Journal of Advanced Microscopy Research	2010
36	Amine-functionalized multi-walled carbon nanotubes: An atomic force microscopy study	FLAVIO FERNANDO CONTRERAS TORRES ELENA GOLOVATAYA DZHymbEEVA Ochoa-Olmos O.E.	Journal of Scanning Probe Microscopy	2009
37	Monte Carlo Simulation on the RKKY Interactions of Co-Doped ZnS and ZnSe Nano-Films	ABRAHAM FOUAD JALBOUT FLAVIO FERNANDO CONTRERAS TORRES Amlan K. Roy et al.	JOURNAL OF COMPUTATIONAL AND THEORETICAL NANOSCIENCE	2009

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38	Interactions of Porphyrins with Low-Dimensional Carbon Materials	VLADIMIR BASSIOUK EVDOKIMENKO FLAVIO FERNANDO CONTRERAS TORRES Maria Bassiouk et al.	JOURNAL OF COMPUTATIONAL AND THEORETICAL NANOSCIENCE	2009
39	Computational Notes on the Thermostatistics of the Most Stable Ionic Au-32 Isomers	FLAVIO FERNANDO CONTRERAS TORRES Chang, Chia M. Jalbout, A. F.	JOURNAL OF COMPUTATIONAL AND THEORETICAL NANOSCIENCE	2009
40	Vibrational Analysis and DFT Calculations of Neutral and Ionic Au-32 Clusters	FLAVIO FERNANDO CONTRERAS TORRES JESUS FLORES MIJANGOS	JOURNAL OF COMPUTATIONAL AND THEORETICAL NANOSCIENCE	2009
41	The hydroxyacetone (CH ₃ COCH ₂ (OH)) torsional potential and isomerization: A theoretical study	ABRAHAM FOUAD JALBOUT FLAVIO FERNANDO CONTRERAS TORRES L. Adamowicz	INTERNATIONAL JOURNAL OF QUANTUM CHEMISTRY	2008
42	Solvation of excess electrons trapped in charge pockets on hydrated molecular surfaces	ABRAHAM FOUAD JALBOUT FLAVIO FERNANDO CONTRERAS TORRES ROXANA MITZAYE DEL CASTILLO VAZQUEZ	INTERNATIONAL JOURNAL OF QUANTUM CHEMISTRY	2008
43	Formation of simple organic molecules in the interstellar medium	ABRAHAM FOUAD JALBOUT FLAVIO FERNANDO CONTRERAS TORRES Aned de Leon	INTERNATIONAL JOURNAL OF QUANTUM CHEMISTRY	2008
44	Low-symmetry structures of Au-32(Z) (Z = +1, 0, -1) clusters	ABRAHAM FOUAD JALBOUT FLAVIO FERNANDO CONTRERAS TORRES LUIS ANTONIO PEREZ LOPEZ et al.	JOURNAL OF PHYSICAL CHEMISTRY A	2008
45	Direct esterification of oxidized defects in single-walled carbon nanotubes: A comparison of several ONIOM computation schemes	FLAVIO FERNANDO CONTRERAS TORRES ALEJANDRO ARZATE JACINTO VLADIMIR BASSIOUK EVDOKIMENKO	JOURNAL OF COMPUTATIONAL AND THEORETICAL NANOSCIENCE	2008
46	Interaction of cation-encapsulated single-walled carbon nanotubes with small polar molecules	FLAVIO FERNANDO CONTRERAS TORRES ABRAHAM FOUAD JALBOUT I. Jimenez Fabian et al.	JOURNAL OF PHYSICAL CHEMISTRY C	2008
47	Structure and properties of a series of arylselenium [60]fulleropyrrolidine derivatives	ABRAHAM FOUAD JALBOUT FLAVIO FERNANDO CONTRERAS TORRES VLADIMIR BASSIOUK EVDOKIMENKO et al.	JOURNAL OF COMPUTATIONAL AND THEORETICAL NANOSCIENCE	2008

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48	Regioselectivity in azahydro[60]fullerene derivatives: Application of general-purpose reactivity indicators	FLAVIO FERNANDO CONTRERAS TORRES VLADIMIR BASSIOUK EVDOKIMENKO ELENA GOLOVATAYA DZHymbEEVA	JOURNAL OF PHYSICAL CHEMISTRY A	2008
49	Theoretical Modeling of Fullerene-Porphyrine Interactions: Computational Implications	FLAVIO FERNANDO CONTRERAS TORRES ABRAHAM FOUAD JALBOUT Oscar F. Amelines et al.	JOURNAL OF COMPUTATIONAL AND THEORETICAL NANOSCIENCE	2008
50	Interactions between cation-encapsulated single-walled carbon nanotubes M+@SWNT (M+ = H, Li, Na) and nucleophiles	FLAVIO FERNANDO CONTRERAS TORRES Oscar Amelines Sarria ABRAHAM FOUAD JALBOUT et al.	COMPUTATIONAL MATERIALS SCIENCE	2008
51	ONIOM studies of esterification at oxidized carbon nanotube tips	FLAVIO FERNANDO CONTRERAS TORRES VLADIMIR BASSIOUK EVDOKIMENKO	XLII SYMPOSIUM ON NUCLEAR PHYSICS 2019	2007
52	Density functional computational studies on the intermediate stage of the ribose and glycine Maillard reaction: Formation of deoxyosones in aqueous solution	ABRAHAM FOUAD JALBOUT FLAVIO FERNANDO CONTRERAS TORRES Shipar Md.A.H.	FOOD CHEMISTRY	2007
53	Structure of methyl 1-oxo-3,5-diphenylcyclohexene-6-carboxylate	ABRAHAM FOUAD JALBOUT FLAVIO FERNANDO CONTRERAS TORRES Lobo G.M. et al.	MolBank	2007
54	Structure of methyl (1S, 6S) 6-(4-chlorophenyl)-4-(4-methylphenyl)cyclohex-3-en-2-one-1-carboxylate	FLAVIO FERNANDO CONTRERAS TORRES Jalbout A.F. Lobo G.M. et al.	MolBank	2007
55	Imidazo[1,2-a]pyrazine-3,6-diones derived from α -amino acids: A theoretical mechanistic study of their formation via pyrolysis and silica-catalyzed process	FLAVIO FERNANDO CONTRERAS TORRES VLADIMIR BASSIOUK EVDOKIMENKO	JOURNAL OF PHYSICAL CHEMISTRY A	2006
56	Theoretical prediction of gas-phase infrared spectra of imidazo[1,2-a]pyrazinediones and imidazo[1,2-a]imidazo[1,2-d]pyrazinediones derived from glycine	FLAVIO FERNANDO CONTRERAS TORRES VLADIMIR BASSIOUK EVDOKIMENKO	SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY	2005



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



FLAVIO FERNANDO CONTRERAS TORRES

LIBROS Y CAPITULOS CON ISBN

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

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Coordinación de Planeación, Evaluación y
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FLAVIO FERNANDO CONTRERAS TORRES

PARTICIPACIÓN EN PROYECTOS

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PARTICIPACIÓN EN TESIS

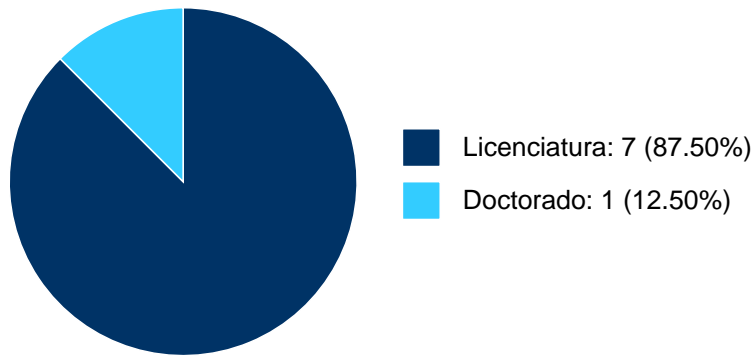
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DOCENCIA IMPARTIDA

Histórico de docencia



#	Nivel titulación	Asignatura	Entidad	Alumnos	Semestre
1	Licenciatura	FISICA CONTEMPORANEA	Facultad de Ciencias	21	2015-1
2	Licenciatura	FISICA CONTEMPORANEA	Facultad de Ciencias	47	2014-1
3	Licenciatura	TERMODINAMICA	Facultad de Ciencias	14	2013-2
4	Doctorado	ACTIVIDAD ACADEMICA OPTATIVA	Facultad de Medicina	1	2013-2
5	Licenciatura	FISICA CONTEMPORANEA	Facultad de Ciencias	22	2013-1
6	Licenciatura	FISICA CONTEMPORANEA	Facultad de Ciencias	5	2012-2
7	Licenciatura	FISICA CONTEMPORANEA	Facultad de Ciencias	21	2012-1
8	Licenciatura	INTRODUC. A LA FISICA DE MATERIALES	Facultad de Ciencias	7	2011-2



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Reporte individual



FLAVIO FERNANDO CONTRERAS TORRES

TUTORIAS EN POSGRADO

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

FLAVIO FERNANDO CONTRERAS TORRES



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Reporte individual



FLAVIO FERNANDO CONTRERAS TORRES

PATENTES

#	Título	Inventores	Sección	Año
1	METODO PARA LA TRANSFORMACION GENETICA DE CELULAS DE PLANTAS EN SUSPENSION MEDIANTE ADN PLASMIDICO ACOPLADO A NONOTUBOS DE CARBONO FUNCIONALIZADOS CON AMINAS.	ELENA GOLOVATAYA DZHYMBEEVA, TZVETANKA DIMITROVA DINKOVA, FLAVIO FERNANDO CONTRERAS TORRES,	CHEMISTRY; METALLURGYHUMAN NECESSITIESPERFORMING OPERATIONS; TRANSPORTING	2018

FLAVIO FERNANDO CONTRERAS TORRES

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