



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



**DAVID RIOS JARA**

## Datos Generales

**Nombre:** DAVID RIOS JARA

**Máximo nivel de estudios:**

**Antigüedad académica en la UNAM:** años, meses, días

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## Nombramientos

**Último:**

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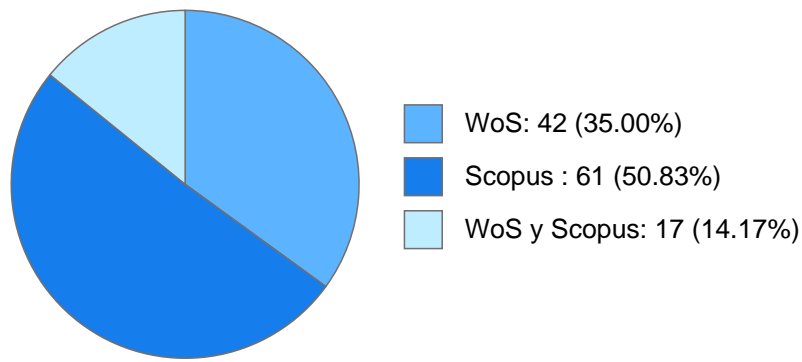
## Estímulos, programas, premios y reconocimientos

SNI III 2023  
SNI Emérito 2022  
SNI III 2010 - 2021

**DAVID RIOS JARA**

**DOCUMENTOS EN REVISTAS**

**Histórico de Documentos**



| # | Título   | Autores   | Revista  | Año  |
|---|--|---|--|------|
| 1 | Expanding the magnetocaloric operation range in Ni-Mn-In Heusler alloys by Cu-doping   | HORACIO FLORES ZUÑIGA DAVID RIOS JARA Camarillo J.-P. et al.                        | JOURNAL OF PHYSICS D-APPLIED PHYSICS                   | 2016 |
| 2 | Simple set-up for adiabatic measurements of magnetocaloric effect  | HORACIO FLORES ZUÑIGA DAVID RIOS JARA Álvarez-Alonso P. et al.                      | Key Engineering Materials                              | 2015 |
| 3 | Itaco-perinone as a molecule with potential use in white light emitting materials. The effect of methyl- and methylene groups on the formation of perimidine and perinone structures | CESAR AUGUSTO FERNANDEZ GIJON JOSE FEDERICO DEL RIO PORTILLA DAVID RIOS JARA et al. | Tetrahedron  | 2015 |
| 4 | Recrystallization of a Ti-45Ni-5Cu Cold-worked Shape Memory Alloy Characterized by Thermoelectric Power and Electrical Properties  | HORACIO FLORES ZUÑIGA DAVID RIOS JARA Enrique Soto-Parra, Daniel et al.             | MATERIALS RESEARCH-IBERO-AMERICAN JOURNAL OF MATERIALS | 2014 |
| 5 | Structural and magnetic characterization of the intermartensitic phase transition in NiMnSn Heusler alloy ribbons  | HORACIO FLORES ZUÑIGA DAVID RIOS JARA Sanchez Llamazares, J. L. et al.              | JOURNAL OF APPLIED PHYSICS                             | 2013 |

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|    |   |   |  |      |
|----|---|---|--|------|
| 6  | Magnetocaloric effect in melt-spun MnCoGe ribbons   | HORACIO FLORES ZUÑIGA DAVID RIOS JARA Sanchez-Valdes, C. F. et al.    | SCRIPTA MATERIALIA                               | 2013 |
| 7  | Magnetization study of the kinetic arrest of martensitic transformation in as-quenched Ni <sub>52.2</sub> Mn <sub>34.3</sub> In <sub>13.5</sub> melt spun ribbons   | DAVID RIOS JARA GABRIEL ANGEL LARA RODRIGUEZ Lino-Zapata F.M. et al.  | Materials Research Society Symposium Proceedings | 2013 |
| 8  | Hybridization vs. Bond Stretching Isomerism in Ru(II) Cyclometalated Complexes of 2-Phenylpyridine  | BERTHA MOLINA BRITO LARISSA ALEXANDROVA RONAN MARIE LE LAGADEC et al. | Molecules  | 2012 |
| 9  | Caloric effects induced by magnetic and mechanical fields in a Ni <sub>50</sub> Mn <sub>25-x</sub> Ga <sub>25</sub> Cox magnetic shape memory alloy   | DAVID RIOS JARA Castillo-Villa, P. O. Soto-Parra, D. E. et al.        | PHYSICAL REVIEW B                                | 2011 |
| 10 | EELS study of the inverse martensitic transformation of 2H and 18R Cu-Al-Zn alloys  | DAVID RIOS JARA Espinosa-Magana, F. Ochoa-Lara, M. T. et al.          | PHYSICA B-CONDENSED MATTER                       | 2010 |
| 11 | Fe and Co selective substitution in Ni <sub>2</sub> MnGa: Effect of magnetism on relative phase stability   | DAVID RIOS JARA Soto-Parra, D. E. Moya, X. et al.                     | PHILOSOPHICAL MAGAZINE                           | 2010 |
| 12 | Microstructure, transformation temperatures, hardness and magnetic properties of Co <sub>36.4+x</sub> Ni <sub>33.3-x</sub> Ga <sub>30.3</sub> ferromagnetic SMA   | ADRIANA TEJEDA CRUZ DAVID RIOS JARA Alvarado-Hernandez, F. et al.     | JOURNAL OF ALLOYS AND COMPOUNDS                  | 2010 |
| 13 | Thermal and structural study of Ni-Fe-Ga ferromagnetic shape memory alloys  | DAVID RIOS JARA Alvarado-Hernandez, F. Soto-Parra, D. E. et al.       | JOURNAL OF ALLOYS AND COMPOUNDS                  | 2008 |
| 14 | The effect of Fe addition on the transformation temperatures, lattice parameter and magnetization saturation of Ni <sub>52.5-x</sub> Mn <sub>23</sub> Ga <sub>24.5</sub> Fe <sub>x</sub> ferromagnetic shape memory alloy | DAVID RIOS JARA Soto-Parra, D. E. Alvarado-Hernandez, F. et al.       | JOURNAL OF ALLOYS AND COMPOUNDS                  | 2008 |
| 15 | Study of $\eta$ 2 precipitation in Cu-Al-Be shape memory alloys   | DAVID RIOS JARA Ochoa-Lara M.T. Flores-Zúñiga H.                      | JOURNAL OF MATERIALS SCIENCE                     | 2006 |
| 16 | In situ X-ray study of order-disorder phase transitions in Cu-Al-Be melt spun ribbons   | DAVID RIOS JARA Ochoa-Lara M.T. Flores-Zúñiga H. et al.               | JOURNAL OF MATERIALS SCIENCE                     | 2006 |
| 17 | Caracterización de la película de latón obtenida por un proceso electroless, sobre aleaciones ZAMAK   | DAVID RIOS JARA Ríos C.D. López M.V.M. et al.                         | REVISTA MEXICANA DE FISICA                       | 2005 |

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|    |  |   |   |      |
|----|--|---|---|------|
| 18 | EELS study of the effect of temperature on Ti L23 white lines  | DAVID RIOS JARA<br>Hernandez-Hernandez H.<br>Gonzalez-Hernandez L. et al.         | MICROSCOPY<br>AND<br>MICROANALYSIS  | 2004 |
| 19 | Magnetolectricity via crystallography  | DAVID RIOS JARA Fuentes L. García<br>M. et al.                                    | JOURNAL OF<br>ALLOYS AND<br>COMPOUNDS   | 2004 |
| 20 | EELS study of the electronic structure changes associated with the martensitic transformation in a Cu-Al-Be alloy          | DAVID RIOS JARA Flores-Zúñiga H.<br>Ochoa M.T. et al.                             | MICROSCOPY<br>AND<br>MICROANALYSIS  | 2003 |
| 21 | The influence of manganese on the microstructure and the strength of a ZA-27 alloy   | DAVID RIOS JARA Domínguez C.<br>Moreno López M.V.                                 | JOURNAL OF<br>MATERIALS<br>SCIENCE  | 2002 |
| 22 | Spark plasma sintering of alumina-Cr and -Nb composites  | DAVID RIOS JARA De la Torre S.D.<br>García D.E. et al.                            | Materials<br>Science Forum  | 2002 |
| 23 | Morphological, optical, and photoluminescent characteristics of GaAs <sub>1-x</sub> N <sub>x</sub> nanowiskered thin films | DAVID RIOS JARA MARCO ANTONIO<br>ALVAREZ PEREZ MANUEL GARCIA<br>HIPOLITO et al.   | APPLIED<br>PHYSICS<br>LETTERS   | 2001 |
| 24 | Blue photoluminescence in GaAs(N) nanowiskers  | DAVID RIOS JARA MARCO ANTONIO<br>ALVAREZ PEREZ JUAN MANUEL<br>GARCIA ISLAS et al. | MODERN<br>PHYSICS<br>LETTERS B  | 2001 |
| 25 | Magnetic properties and microstructure of Ba-ferrite powders prepared by ball milling                                      | DAVID RIOS JARA Mendoza-Suarez<br>G. Matutes-Aquino J.A. et al.                   | JOURNAL OF<br>MAGNETISM<br>AND MAGNETIC<br>MATERIALS  | 2001 |
| 26 | Shape memory materials - on the kinetics of precipitation in Cu-Al-Be alloys   | DAVID RIOS JARA Zúñiga H.F. Ochoa<br>M.T.   | MATERIALS<br>TECHNOLOGY   | 2000 |
| 27 | Metastability of mechanically alloyed and spark plasma sintered Co <sub>50</sub> Ti <sub>50</sub> powder                   | DAVID RIOS JARA Martínez Sánchez<br>R. Magaña F.E. et al.                         | Funtai Oyobi<br>Fummatsu<br>Yakin/Journal<br>of the Japan<br>Society of<br>Powder and<br>Powder<br>Metallurgy | 2000 |
| 28 | Composition dependence of the magnetic properties of bonded magnets of strontium hexaferrite-polyvinyl chloride            | DAVID RIOS JARA Matutes-Aquino J.<br>Ayala-Valenzuela O. et al.                   | POLYMER<br>COMPOSITES   | 2000 |
| 29 | Phase Transformation of Transition-Alumina upon Hastened Sintering   | DAVID RIOS JARA De La Torre S.D.<br>Miyamoto H. et al.                            | Key<br>Engineering<br>Materials   | 1999 |

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| 30 | Crystallization of mechanically alloyed Co-Ti powder   | DAVID RIOS JARA Martínez Sánchez R. Cabañas Moreno J.G. et al.                    | Funtai Oyobi Fummatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy | 1999 |
| 31 | Desarrollo tecnologico del pais en ciencia de materiales: Retos y oportunidades                                      | DAVID RIOS JARA   | REVISTA MEXICANA DE FISICA   | 1999 |
| 32 | Growth of low-etch-pit density InSb single crystals by the Czochralski method  | DAVID RIOS JARA Godines J.A. Castillo R. et al.                                   | JOURNAL OF CRYSTAL GROWTH  | 1997 |
| 33 | The training and re-training procedures for the two way memory effect and its degradation in a Cu-Al-Be alloy        | DAVID RIOS JARA Flores Zúñiga H. Belkahla S. et al.                               | SCRIPTA MATERIALIA   | 1996 |
| 34 | Low temperature magnetic behavior of Ni-Fe-Al-B shape memory alloys: magnetic susceptibility and Mossbauer spectra   | VIVIANNE MARQUINA FABREGA ROSALIA RIDAURA SANZ SERGIO ABURTO CASTAÑEDA et al.     | Materials Research Society Symposium Proceedings   | 1995 |
| 35 | Evolution of the R-phase transformation temperature of Ti50Ni50-xFex shape memory alloys with iron concentration     | RAUL WAYNE GOMEZ Y GONZALEZ VIVIANNE MARQUINA FABREGA ROSALIA RIDAURA SANZ et al. | Materials Research Society Symposium Proceedings   | 1995 |
| 36 | Structural transitions in a TiNiFe shape memory alloy  | VIVIANNE MARQUINA FABREGA SERGIO ABURTO CASTAÑEDA ROSALIA RIDAURA SANZ et al.     | MATERIALS CHARACTERIZATION   | 1994 |
| 37 | Chemical etching solution for the determination of the crystallographic orientation of GaSb by optical reflectograms | AURELIA MARIA LETICIA BAÑOS LOPEZ DAVID RIOS JARA Godines J.A. et al.             | JOURNAL OF THE ELECTROCHEMICAL SOCIETY   | 1994 |
| 38 | On the thermal degradation of the two way memory effect in CuAlBe alloys   | HORACIO FLORES ZUÑIGA DAVID RIOS JARA Guénin G.                                   | Scripta Metallurgica Et Materiala  | 1994 |
| 39 | Martensitic transformation of Cu-based shape-memory alloys: Elastic anisotropy and entropy change                    | DAVID RIOS JARA Planes A. Mañosa L. et al.  | PHYSICAL REVIEW B  | 1992 |
| 40 | Calorimetric and ultrasonic investigation of the R-phase formation in a TiNi:Fe alloy                                | DAVID RIOS JARA Manosa L. Ortin J. et al.   | JOURNAL OF PHYSICS-CONDENSED MATTER  | 1992 |

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| 41 | Elastic constants measurements of $\beta$ Cu-Al-Be alloys   | DAVID RIOS JARA Belkahlá S. Canales A. et al.                                    | Scripta Metallurgica Et Materiala                | 1991 |
| 42 | X-ray diffraction study of a CoMo sulfide obtained by the impregnated thiosalt decomposition method   | DAVID RIOS JARA AURELIA MARIA LETICIA BAÑOS LOPEZ Luna R. et al.                 | CATALYSIS LETTERS                                | 1991 |
| 43 | Premartensitic phase transformation in a TiNiFe shape memory alloy studied by Mössbauer spectroscopy  | SUSANA GOMEZ GOMEZ VIVIANNE MARQUINA FABREGA DAVID RIOS JARA et al.              | HYPERFINE INTERACTIONS                           | 1991 |
| 44 | Role of oxygen in PrBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-y</sub> : Effect on structural and physical properties                                   | DAVID RIOS JARA ROBERTO ESCUDERO DERAT Lopez-Morales M.E. et al.                 | PHYSICAL REVIEW B                                | 1990 |
| 45 | Mechanical properties of hot-extruded products from centrifugally atomized powders of Al-Li and Al-Li-Fe alloys                                       | JAIME HINOJOSA TORRES DAVID RIOS JARA Champier G.                                | MATER T JIM                                      | 1990 |
| 46 | Microstructural study of centrifugally atomized powders of Al-Li and Al-Li-Fe alloys  | JAIME HINOJOSA TORRES DAVID RIOS JARA Champier G.                                | MATER T JIM                                      | 1990 |
| 47 | Praseodymium 1-2-3: Intrinsic structure, oxygen concentration effects, and solid solutions with yttrium, calcium and zinc                             | DAVID RIOS JARA López-Morales M.E. Bezingue A. et al.                            | PHYSICA C-SUPERCONDUCTIVITY AND ITS APPLICATIONS | 1989 |
| 48 | Isolation of the 110 K superconducting phase of Bi-Pb-Sr-Ca-Cu-O compounds  | ROBERTO ESCUDERO DERAT ELIZABETH CHAVIRA MARTINEZ DAVID RIOS JARA                | APPLIED PHYSICS LETTERS                          | 1989 |
| 49 | Degradation effects in the high-Tc superconductor GdBa <sub>2</sub> Cu <sub>3</sub> O <sub>7</sub> -  | TATSUO AKACHI MIYAZAKI ROBERTO ESCUDERO DERAT RAFAEL ANGEL BARRIO PAREDES et al. | Journal Of Physics C: Solid State Physics        | 1988 |
| 50 | SPECIFIC HEAT MEASUREMENTS OF THE beta //1 AND beta //1 prime PHASES IN A Cu-Zu-Al ALLOY.   | DAVID RIOS JARA ROBERTO ESCUDERO DERAT TATSUO AKACHI MIYAZAKI et al.             | PHYS STATUS SOLIDI A                             | 1988 |
| 51 | On the crystallographic structure and electronic behaviour of Pr1Ba <sub>2</sub> Cu <sub>3</sub> O <sub>y</sub>                                       | DAVID RIOS JARA JULIA TAGUEÑA PARGA ROBERTO ESCUDERO DERAT et al.                | PHYSICA C-SUPERCONDUCTIVITY AND ITS APPLICATIONS | 1988 |
| 52 | Anomalous behaviour of Moessbauer parameters of a YBa <sub>2</sub> Cu <sub>2.875</sub> Fe <sub>0.125</sub> O <sub>d</sub> superconductor around 110 K | VIVIANNE MARQUINA FABREGA TATSUO AKACHI MIYAZAKI ROBERTO ESCUDERO DERAT et al.   | PHYSICA C-SUPERCONDUCTIVITY AND ITS APPLICATIONS | 1988 |
| 53 | Influence of lead on the formation of the 110-K superconducting phase in the Bi-Sr-Ca-Cu-O compounds  | ELIZABETH CHAVIRA MARTINEZ ROBERTO ESCUDERO DERAT DAVID RIOS JARA et al.         | PHYSICAL REVIEW B                                | 1988 |

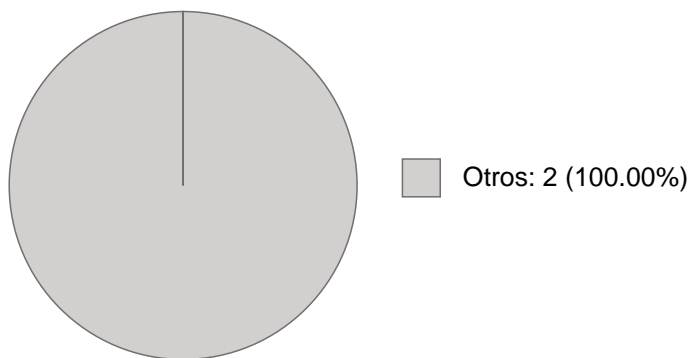
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| 54 | On the characterization and origin of the dislocations associated with the two way memory effect in CuZnAl thermoelastic alloys-I. Quantitative analysis of the dislocations    | DAVID RIOS JARA Guénin G.  | ACTA METALL<br>MATER   | 1987 |
| 55 | On the characterization and origin of the dislocations associated with the two way memory effect in CuZnAl thermoelastic alloys-II. The model for the formation of dislocations | DAVID RIOS JARA Guénin G.  | ACTA METALL<br>MATER   | 1987 |
| 56 | Indication of high local fields in the YBa <sub>2</sub> Cu <sub>2.9375</sub> Fe <sub>0.0625</sub> O superconductor by Mössbauer spectroscopy                                    | VIVIANNE MARQUINA FABREGA<br>TATSUO AKACHI MIYAZAKI ROBERTO<br>ESCUDERO DERAT et al. | PHYSICAL<br>REVIEW B   | 1987 |
| 57 | Characterization of dislocations formed cyclical $\beta_1 \rightarrow \beta_1'$ martensitic transformations in CuZnAl alloys  | DAVID RIOS JARA Morin M. Esnouf C.<br>et al.   | SCRIPTA METALL<br>MATER                                      | 1985 |
| 58 | 18R TO 2H MARTENSITE TRANSFORMATION IN A Cu-Zn-Al ALLOY.  | DAVID RIOS JARA Morin M. Guenin G.   | Materials<br>Research<br>Society<br>Symposium<br>Proceedings | 1984 |
| 59 | NEW NEUTRON SCATTERING MEASUREMENTS OF PREMARTENSITIC STATE OF Cu-Zn-Al.  | DAVID RIOS JARA Guenin G. Morin M.<br>et al.   | Journal De<br>Physique.<br>Colloque                          | 1982 |
| 60 | STUDY OF DISLOCATIONS IN CYCLICALLY TRANSFORMED beta - PHASE IN Cu-Zn-Al ALLOYS.  | DAVID RIOS JARA Morin M. Esnouf C.<br>et al.   | Journal De<br>Physique.<br>Colloque                          | 1982 |
| 61 | LATTICE DYNAMICS OF Cu-Zn-Al MARTENSITE.  | DAVID RIOS JARA Guenin G. Pynn R.<br>et al.  | PHYS STATUS<br>SOLIDI A                                      | 1980 |

**DAVID RIOS JARA**

**LIBROS Y CAPITULOS CON ISBN**

**Obras con registro ISBN**



| # | Título  | Autores  | Alcance              | Año  | ISBN          |
|---|---|--|----------------------|------|---------------|
| 1 | Effect of Co content on structural transitions of polycrystalline Co-Ni-Ga ferromagnetic shape memory alloy | ALBERTO TEJEDA PEREA<br>DAVID RIOS JARA<br>Alvarado-Hernández F.<br>et al. | Conferenc<br>e Paper | 2009 | 9780873397452 |
| 2 | Influence of Fe-addition on Ni-Mn-Ga ferromagnetic shape-memory alloys                                      | DAVID RIOS JARA<br>Soto-Parra D.E.<br>Alvarado-Hernandez F.<br>et al.      | Conferenc<br>e Paper | 2009 | 9780873397452 |





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**DAVID RIOS JARA**

**PARTICIPACIÓN EN PROYECTOS**

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

**DAVID RIOS JARA**



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**Coordinación de Planeación, Evaluación y**  
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**Reporte individual**



**DAVID RIOS JARA**

**PARTICIPACIÓN EN TESIS**

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

**DAVID RIOS JARA**



**Sistema Integral de Información Académica**  
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**Simplificación de la Gestión Institucional**  
**Reporte individual**



**DAVID RIOS JARA**

**DOCENCIA IMPARTIDA**

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

**DAVID RIOS JARA**



**Sistema Integral de Información Académica**  
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**Simplificación de la Gestión Institucional**  
**Reporte individual**



**DAVID RIOS JARA**

**TUTORIAS EN POSGRADO**

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

**DAVID RIOS JARA**



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



**DAVID RIOS JARA**

**PATENTES**

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

**DAVID RIOS JARA**

**DAVID RIOS JARA**

**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 |