



## **PANDARINATH KAILASA**

### **Datos Generales**

**Nombre:** PANDARINATH KAILASA

**Máximo nivel de estudios:** DOCTORADO

**Antigüedad académica en la UNAM:** 20 años

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### **Nombramientos**

**Vigente:** INVESTIGADOR TITULAR B TC Definitivo  
Instituto de Energías Renovables  
Desde 16-04-2013

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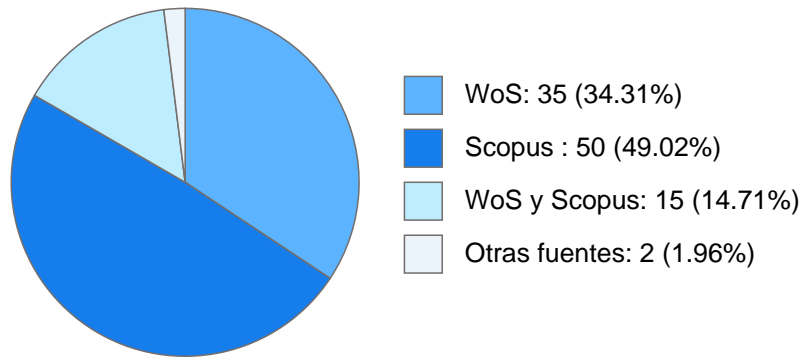
### **Estímulos, programas, premios y reconocimientos**

SNI II 2012 - VIGENTE  
SNI I 2009 - 2011  
SNI C 2008  
PRIDE C - VIGENTE  
PRIDE B 2008

## PANDARINATH KAILASA

### DOCUMENTOS EN REVISTAS

#### Histórico de Documentos



#	Título	Autores	Revista	Año
1	Overlapping events in the Acoculco geothermal system, Puebla, Mexico	EDUARDO GONZALEZ PARTIDA ANTONI CAMPRUBI CANO PANDARINATH KAILASA et al.	Geothermics	2024
2	Prediction of clog time of amorphous silica in the pipes of the wells from Los Humeros geothermal field ? A new geochemical model along with a computational algorithm;	EDUARDO GONZALEZ PARTIDA ANTONI CAMPRUBI CANO PANDARINATH KAILASA et al.	BOLETIN DE LA SOCIEDAD GEOLOGICA MEXICANA	2024
3	Hydrothermal Signatures Discovered in Outcropping Rocks of the Los Humeros Geothermal Field (Mexico): A Geochemometric Exploration Case Study	DAVID YAÑEZ DAVILA EDGAR ROLANDO SANTOYO GUTIERREZ EDUARDO GONZALEZ PARTIDA et al.	Geofluids	2024
4	Application potential of chemical weathering indices in the identification of hydrothermally altered surface volcanic rocks from geothermal fields	PANDARINATH KAILASA	GEOSCIENCES JOURNAL	2022
5	GaS_GeoT: A computer program for an effective use of newly improved gas geothermometers in predicting reliable geothermal reservoir temperatures	EDGAR ROLANDO SANTOYO GUTIERREZ DANIEL PEREZ ZARATE PANDARINATH KAILASA et al.	Geothermal Energy	2021

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6	Mineralogical and geochemical changes due to hydrothermal alteration of the volcanic rocks at Acoculco geothermal system, Mexico	PANDARINATH KAILASA AMERICA YOSIRIS GARCIA SOTO EDGAR ROLANDO SANTOYO GUTIERREZ et al.	GEOLOGICAL JOURNAL	2020
7	CCWater ? A computer program for chemical classification of geothermal waters	JOSE RODOLFO PEREZ ESPINOSA PANDARINATH KAILASA Hernández-Campos F.J.	GEOSCIENCES JOURNAL	2019
8	A rock magnetic fingerprint of hydrothermal alteration in volcanic rocks - An example from the Los Azufres Geothermal Field, Mexico	PANDARINATH KAILASA EDGAR ROLANDO SANTOYO GUTIERREZ AMERICA YOSIRIS GARCIA SOTO et al.	JOURNAL OF SOUTH AMERICAN EARTH SCIENCES	2019
9	Mineralogical, chemical, and Sr-Nd isotopic effects of hydrothermal alteration of near-surface rhyolite in the Los Azufres geothermal field, Mexico	SURENDRA PAL VERMA JAISWAL PANDARINATH KAILASA Bhutani R. et al.	Lithos	2018
10	Statistically Coherent Calibration of X-Ray Fluorescence Spectrometry for Major Elements in Rocks and Minerals	SURENDRA PAL VERMA JAISWAL PANDARINATH KAILASA Verma S.K. et al.	JOURNAL OF SPECTROSCOPY	2018
11	Multidimensional classification of magma types for altered igneous rocks and application to their tectonomagmatic discrimination and igneous provenance of siliciclastic sediments	SURENDRA PAL VERMA JAISWAL ALFREDO QUIROZ RUIZ PANDARINATH KAILASA et al.	Lithos	2017
12	Evaluation of the ongoing rifting and subduction processes in the geochemistry of magmas from the western part of the Mexican Volcanic Belt	SURENDRA PAL VERMA JAISWAL PANDARINATH KAILASA Abdelaly Rivera-Gomez, M.	JOURNAL OF SOUTH AMERICAN EARTH SCIENCES	2016
13	Solute geothermometry of Cerro Prieto and Los Humeros geothermal fields, Mexico: considerations on chemical characteristics of thermal water	PANDARINATH KAILASA Yosiris Garcia-Soto, America Enrique Marrero-Ochoa, Jose et al.	ARABIAN JOURNAL OF GEOSCIENCES	2016
14	Evaluation of the solute geothermometry of thermal springs and drilled wells of La Primavera (Cerritos Colorados) geothermal field, Mexico: A geochemometrics approach	PANDARINATH KAILASA DominguezDominguez, Humberto	JOURNAL OF SOUTH AMERICAN EARTH SCIENCES	2015
15	Testing of the recently developed tectonomagmatic discrimination diagrams from hydrothermally altered igneous rocks of 7 geothermal fields	PANDARINATH KAILASA	TURKISH JOURNAL OF EARTH SCIENCES	2014

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16	Solute and gas geothermometry of geothermal wells: a geochemometrics study for evaluating the effectiveness of geothermometers to predict deep reservoir temperatures	CHRISTIAN GUADALUPE GARCIA LOPEZ PANDARINATH KAILASA EDGAR ROLANDO SANTOYO GUTIERREZ	INTERNATIONAL GEOLOGY REVIEW	2014
17	Tectonomagmatic origin of Precambrian rocks of Mexico and Argentina inferred from multi-dimensional discriminant-function based discrimination diagrams	PANDARINATH KAILASA	JOURNAL OF SOUTH AMERICAN EARTH SCIENCES	2014
18	Magnetic susceptibility of volcanic rocks in geothermal areas: Application potential in geothermal exploration studies for identification of rocks and zones of hydrothermal alteration	PANDARINATH KAILASA IGNACIO SALVADOR TORRES ALVARADO Shankar R. et al.	ARABIAN JOURNAL OF GEOSCIENCES	2014
19	Advances of the Geochemistry in Mexico, XX Anniversary of the Instituto Nacional de Geoquímica (INAGEQ), Preface	EDGAR ROLANDO SANTOYO GUTIERREZ IGNACIO SALVADOR TORRES ALVARADO PANDARINATH KAILASA	REVISTA MEXICANA DE CIENCIAS GEOLOGICAS	2013
20	Fifteen new discriminant-function-based multi-dimensional robust diagrams for acid rocks and their application to Precambrian rocks	SURENDRA PAL VERMA JAISWAL PANDARINATH KAILASA Sanjeet K. Verma et al.	Lithos	2013
21	Application of four sets of tectonomagmatic discriminant function based diagrams to basic rocks from northwest Mexico	PANDARINATH KAILASA S. K. Verma	JOURNAL OF IBERIAN GEOLOGY	2013
22	Preface: Geochemistry in Mexico	SURENDRA PAL VERMA JAISWAL PANDARINATH KAILASA	JOURNAL OF IBERIAN GEOLOGY	2013
23	Avances de la geoquímica en México II XX aniversario del Instituto Nacional de Geoquímica (INAGEQ)	EDGAR ROLANDO SANTOYO GUTIERREZ IGNACIO SALVADOR TORRES ALVARADO PANDARINATH KAILASA	REVISTA MEXICANA DE CIENCIAS GEOLOGICAS	2013
24	Statistical evaluation of tectonomagmatic discrimination diagrams for granitic rocks and proposal of new discriminant-function-based multi-dimensional diagrams for acid rocks	PANDARINATH KAILASA SURENDRA PAL VERMA JAISWAL Verma, SK	INTERNATIONAL GEOLOGY REVIEW	2012

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25	Advances of Geochemistry in Mexico. XX Anniversary of the National Institute of Geochemistry (INAGEQ)	EDGAR ROLANDO SANTOYO GUTIERREZ IGNACIO SALVADOR TORRES ALVARADO PANDARINATH KAILASA	REVISTA MEXICANA DE CIENCIAS GEOLOGICAS	2012
26	Special Section, Advances of the Geochemistry in Mexico, XX Anniversary of the Instituto Nacional de Geoquímica (INAGEQ), Preface [Avances de la Geoquímica en México XX Aniversario del Instituto Nacional de Geoquímica (INAGEQ): Prefacio]	EDGAR ROLANDO SANTOYO GUTIERREZ IGNACIO SALVADOR TORRES ALVARADO PANDARINATH KAILASA	REVISTA MEXICANA DE CIENCIAS GEOLOGICAS	2012
27	Solute geothermometry of springs and wells of the Los Azufres and Las Tres Virgenes geothermal fields, Mexico	PANDARINATH KAILASA	INTERNATIONAL GEOLOGY REVIEW	2011
28	Evaluation of Recent Tectonomagmatic Discrimination Diagrams and their Application to the Origin of Basic Magmas in Southern Mexico and Central America	SURENDRA PAL VERMA JAISWAL PANDARINATH KAILASA Verma, SK et al.	PURE AND APPLIED GEOPHYSICS	2011
29	Clay minerals in SW Indian continental shelf sediment cores as indicators of provenance and palaeomonsoonal conditions: a statistical approach	PANDARINATH KAILASA	INTERNATIONAL GEOLOGY REVIEW	2009
30	Evaluation of the odd-even effect in limits of detection for electron microprobe analysis of natural minerals	SURENDRA PAL VERMA JAISWAL PANDARINATH KAILASA Velasco-Tapia, Fernando et al.	ANALYTICA CHIMICA ACTA	2009
31	Evaluation of geochemical sedimentary reference materials of the Geological Survey of Japan (GSJ) by an objective outlier rejection statistical method	PANDARINATH KAILASA	REVISTA MEXICANA DE CIENCIAS GEOLOGICAS	2009
32	Element mobility during the hydrothermal alteration of rhyolitic rocks of the Los Azufres geothermal field, Mexico	PANDARINATH KAILASA IGNACIO SALVADOR TORRES ALVARADO SURENDRA PAL VERMA JAISWAL et al.	Geothermics	2008
33	SolGeo: A new computer program for solute geothermometers and its application to Mexican geothermal fields	SURENDRA PAL VERMA JAISWAL PANDARINATH KAILASA EDGAR ROLANDO SANTOYO GUTIERREZ	Geothermics	2008
34	Mineral magnetic signature of the Early Holocene intense monsoon conditions recorded in sediments from the southwestern Indian continental margin	PANDARINATH KAILASA Shankar R.	JOURNAL OF THE GEOLOGICAL SOCIETY OF INDIA	2008

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35	Mineralogical and geochemical effects due to hydrothermal alteration in the Los Azufres geothermal field, Mexico	IGNACIO SALVADOR TORRES ALVARADO PANDARINATH KAILASA SURENDRA PAL VERMA JAISWAL et al.	REVISTA MEXICANA DE CIENCIAS GEOLOGICAS	2007
36	Late quaternary sedimentation records on the continental slope off southwest coast of India - Implications for provenance, depositional and paleomonsoonal conditions	PANDARINATH KAILASA SURENDRA PAL VERMA JAISWAL Subrahmanya K.R. et al.	JOURNAL OF THE GEOLOGICAL SOCIETY OF INDIA	2007
37	A positive 'amount effect' in the Sahayadri (Western Ghats) rainfall	PANDARINATH KAILASA Yadava M.G. Ramesh R.	CURRENT SCIENCE	2007
38	Fluid chemistry and temperatures prior to exploitation at the Las Tres Vírgenes geothermal field, Mexico	SURENDRA PAL VERMA JAISWAL PANDARINATH KAILASA EDGAR ROLANDO SANTOYO GUTIERREZ et al.	Geothermics	2006
39	X-ray diffraction analysis of hydrothermal minerals from the Los Azufres Geothermal System, Mexico	PANDARINATH KAILASA IGNACIO SALVADOR TORRES ALVARADO SURENDRA PAL VERMA JAISWAL et al.	INTERNATIONAL GEOLOGY REVIEW	2006
40	Dating of sediment layers and sediment accumulation studies along the western continental margin of India: A review	PANDARINATH KAILASA SURENDRA PAL VERMA JAISWAL Yadava M.G.	INTERNATIONAL GEOLOGY REVIEW	2004
41	Late quaternary changes in sea level and sedimentation rate along the SW coast of India: Evidence from radiocarbon dates	PANDARINATH KAILASA Shankar R. Yadava M.G.	CURRENT SCIENCE	2001
42	A 75 ka record of palaeoclimatic changes inferred from crystallinity of illite from Nal Sarovar, western India	PANDARINATH KAILASA Prasad S. Gupta S.K.	JOURNAL OF THE GEOLOGICAL SOCIETY OF INDIA	1999
43	Late Quaternary sediments from Nal Sarovar, Gujarat, India: Distribution and provenance	PANDARINATH KAILASA Prasad S. Deshpande R.D. et al.	JOURNAL OF EARTH SYSTEM SCIENCE	1999
44	Elemental distribution in innershelf sediments off Coondapur, west coast of India	PANDARINATH KAILASA Narayana A.C.	JOURNAL OF THE GEOLOGICAL SOCIETY OF INDIA	1998
45	Geomorphology, tectonism and sedimentation in the Nal region, western India	PANDARINATH KAILASA Prasad S. Gupta S.K.	GEOMORPHOLOGY	1998



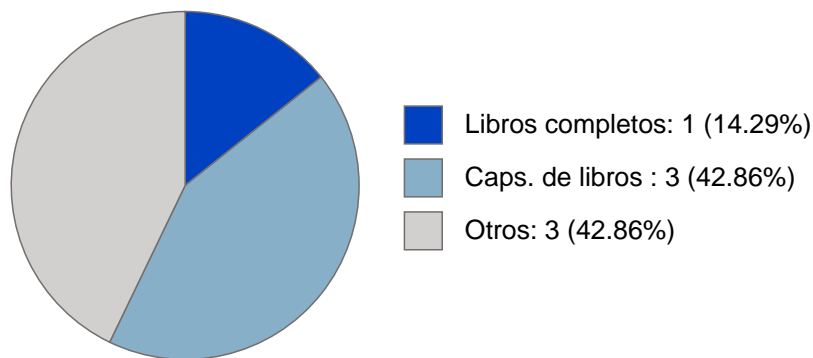
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46	Radiocarbon dated sedimentation record up to 2 ka BP on the inner continental shelf off Mangalore, south-west coast of India	PANDARINATH KAILASA Narayana A.C. Yadava M.G.	CURRENT SCIENCE	1998
47	Computer program for the determination of grain-size statistics and sediment transport direction	PANDARINATH KAILASA Narayana A.C.	COMPUTERS & GEOSCIENCES	1993
48	Clay minerals and trace metal association in the Gangolli estuarine Sediments, West Coast of India	PANDARINATH KAILASA Narayana A.C.	ESTUARINE COASTAL AND SHELF SCIENCE	1992
49	A note on silica sands of south Kanara coast, Karnataka, India	PANDARINATH KAILASA Narayana A.C. Karbasi A.R. et al.	Journal - Geological Society Of India	1991
50	Sediments of Nethravathi Estuary back water environment, Karnataka, west coast of India	PANDARINATH KAILASA Narayana A.C.	Environment & Ecology	1991
51	Sediment transport direction derived from grain-size statistics on the continental shelf off Mangalore, west coast of India	PANDARINATH KAILASA Narayana A.C.	Journal - Geological Society Of India	1991
52	Textural and physico-chemical studies of innershelf sediments off Gangolli, west coast of India	PANDARINATH KAILASA Narayana A.C.	INDIAN J GEO-MAR SCI	1991
53	Clay minerals distribution and their association with trace elements, calcium and organic matter in inner shelf sediments off Gangolli, west coast of India	PANDARINATH KAILASA Narayana A.C.	JOURNAL OF COASTAL RESEARCH	1991

## PANDARINATH KAILASA

### LIBROS Y CAPITULOS CON ISBN

#### Obras con registro ISBN



#	Título	Autores	Alcance	Año	ISBN
1	Impacts of Hydrothermal Alteration on Magnetic Susceptibility and Some Geochemical Properties of Volcanic Rocks from Geothermal Areas	PANDARINATH KAILASA	Capítulo de un Libro	2022	9789811947827
2	GraHyAlt-A Computer Program for the Graphical Presentation of the Hydrothermal Alteration Induced Effects in Geochemical Parameters of Volcanic Rocks	MARIA ABDELALY RIVERA GOMEZ PANDARINATH KAILASA ALFREDO QUIROZ RUIZ	Capítulo de un Libro	2022	9789811947827
3	Geochemical Treasures and Petrogenetic Processes	ARMSTRONG ALTRIN SAM JOHN SELVAMONY PANDARINATH KAILASA Sanjeet K. Verma	Libro Completo	2022	9789811947827
4	Preface	ARMSTRONG ALTRIN SAM JOHN SELVAMONY PANDARINATH KAILASA Verma S.K.	Editorial Material	2022	9789811947827
5	Tectonomagmatic origin of igneous rocks from the western Mexican Volcanic Belt	SURENDRA PAL VERMA JAISWAL PANDARINATH KAILASA	Conferencia Paper	2014	9789381891254





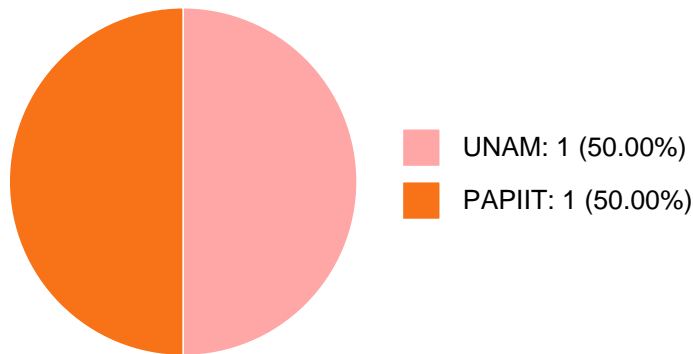
## **PANDARINATH KAILASA**

6	Statistically correct methodology for compositional data in new discriminant function tectonomagmatic diagrams and application to ophiolite origin	SURENDRA PAL VERMA JAISWAL PANDARINATH KAILASA	Capítulo de un Libro	2011	9789814355391
7	Estimation of reservoir temperatures of geothermal systems using solute geothermometers - Considerations and limitations	PANDARINATH KAILASA	Conferenc e Paper	2011	978938043000 3

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**PARTICIPACIÓN EN PROYECTOS**

**Histórico de participación en proyectos**

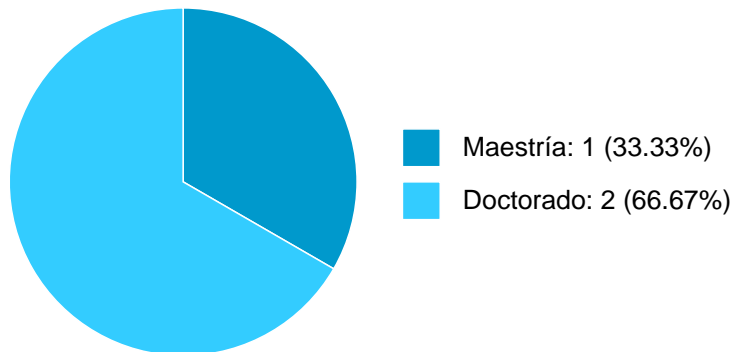


#	Nombre	Participantes	Fuente	Fecha inicio	Fecha fin
1	Estudios sobre los procesos de alteración hidrotermales en los sistemas geotérmicos.	PANDARINATH KAILASA	Presupuesto de la UNAM asignado a la Dependencia	01-01-2017	31-12-2021
2	Efectos de la alteración hidrotermal en rocas volcánicas en el campo geotérmico de Cerritos Colorados: un enfoque multivariable	PANDARINATH KAILASA	Recursos PAPIIT	01-01-2022	31-12-2023

## PANDARINATH KAILASA

### PARTICIPACIÓN EN TESIS

#### Histórico de Colaboraciones en Tesis

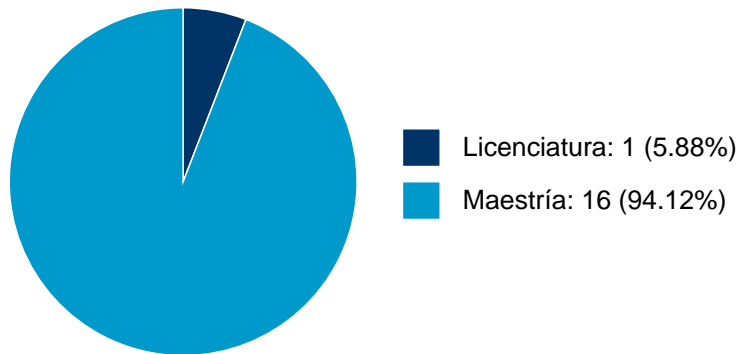


#	Título del documento	Tipo de Tesis	Sinodales	Autores	Entidad	Año
1	Evaluación y desarrollo de geotermómetros de gases para la predicción de temperaturas de sistemas geotérmicos	Tesis de Doctorado	PANDARINATH KAILASA,	EDGAR ROLANDO SANTOYO GUTIERREZ, García López, Christian Guadalupe,	Instituto de Energías Renovables,	2018
2	Estudios de susceptibilidad magnética de rocas provenientes de los sistemas geotérmicos	Tesis de Maestría	PANDARINATH KAILASA,	García Soto, América Yosiris,	Instituto de Energías Renovables,	2017
3	Desarrollo de un simulador numérico para la determinación de las condiciones termofísicas en pozos geotérmicos durante la recuperación térmica	Tesis de Doctorado	PANDARINATH KAILASA,	JESUS ANTONIO DEL RIO PORTILLA, EDGAR ROLANDO SANTOYO GUTIERREZ, et al.	Instituto de Energías Renovables,	2014

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### DOCENCIA IMPARTIDA

#### Histórico de docencia



#	Nivel titulación	Asignatura	Entidad	Alumnos	Semestre
1	Licenciatura	GEOTERMIA	Centro de Investigación en Energía	27	2017-2
2	Maestría	TEMAS SELECTOS DE FUENTES RENOVABLES	Instituto de Energías Renovables	1	2016-2
3	Maestría	PROYECTO DE INVESTIGACION II	Instituto de Energías Renovables	1	2016-2
4	Maestría	PROYECTO DE INVESTIGACION III	Instituto de Energías Renovables	1	2016-2
5	Maestría	TEMAS SELECTOS DE FUENTES RENOVABLES	Instituto de Energías Renovables	1	2016-1
6	Maestría	PROYECTO DE INVESTIGACION I	Instituto de Energías Renovables	1	2016-1
7	Maestría	TEMAS SELECTOS DE FUENTES RENOVABLES	Instituto de Energías Renovables	1	2015-2
8	Maestría	TEMAS SELECTOS DE FUENTES RENOVABLES	Instituto de Energías Renovables	1	2015-1
9	Maestría	TEMAS SELECTOS DE FUENTES RENOVABLES	Instituto de Energías Renovables	1	2014-2
10	Maestría	TEMAS SELECTOS DE FUENTES RENOVABLES	Centro de Investigación en Energía	1	2012-2
11	Maestría	TEMAS SELECTOS DE SISTEMAS ENERGETICOS	Centro de Investigación en Energía	1	2011-2



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12	Maestría	TEMAS SELECTOS DE SISTEMAS ENERGETICOS	Centro de Investigación en Energía	1	2011-2
13	Maestría	TEMAS SELECTOS DE SISTEMAS ENERGETICOS	Centro de Investigación en Energía	1	2010-2
14	Maestría	TEMAS SELECTOS DE SISTEMAS ENERGETICOS	Centro de Investigación en Energía	2	2009-2
15	Maestría	TEMAS SELECTOS DE SISTEMAS ENERGETICOS	Centro de Investigación en Energía	1	2009-1
16	Maestría	TEMAS SELECTOS DE SISTEMAS ENERGETICOS	Centro de Investigación en Energía	1	2008-2
17	Maestría	TEMAS SELECTOS DE SISTEMAS ENERGETICOS	Centro de Investigación en Energía	2	2008-1



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



**PANDARINATH KAILASA**

**TUTORIAS EN POSGRADO**

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

**PANDARINATH KAILASA**



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



**PANDARINATH KAILASA**

**PATENTES**

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

**PANDARINATH KAILASA**



## PANDARINATH KAILASA

### 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