



## **ABRAHAM MEDINA OVANDO**

### **Datos Generales**

**Nombre:** ABRAHAM MEDINA OVANDO

**Máximo nivel de estudios:** DOCTORADO

**Antigüedad académica en la UNAM:** 9 años

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### **Nombramientos**

**Último:** PROFESOR DE CARRERA TITULAR B TC No Definitivo  
Facultad de Ciencias  
Desde 01-03-2014 hasta 31-08-2014

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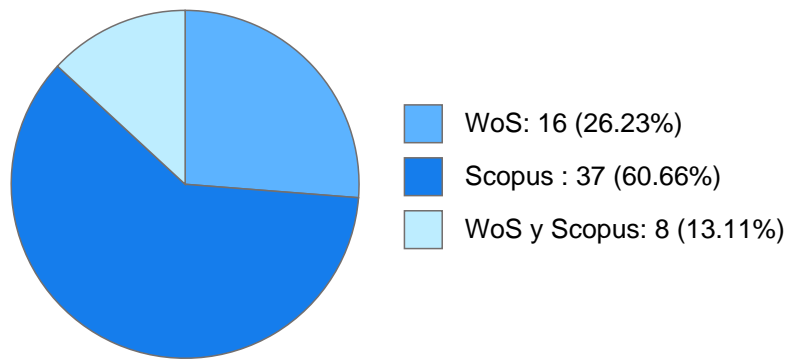
### **Estímulos, programas, premios y reconocimientos**

SNI II 2010 - 2023  
EQUIVALENCIA PRIDE B 2014 - 2014

## ABRAHAM MEDINA OVANDO

### DOCUMENTOS EN REVISTAS

#### Histórico de Documentos



| # | Título  | Autores  | Revista  | Año  |
|---|---|--|--|------|
| 1 | Production of alginates with high viscosifying power and molecular weight by using the AT9 strain of <i>Azotobacter vinelandii</i> in batch cultures under different oxygen transfer conditions | ABRAHAM MEDINA OVANDO CINTHIA ERNESTINA NUÑEZ LOPEZ CARLOS FELIPE PEÑA MALACARA et al. | JOURNAL OF CHEMICAL TECHNOLOGY AND BIOTECHNOLOGY | 2023 |
| 2 | Experiments on Water Gravity Drainage Driven by Steam Injection into Elliptical Steam Chambers  | ABRAHAM MEDINA OVANDO Martínez-Gómez J.E. Higuera F.J. et al.                          | Fluids   | 2022 |
| 3 | Functional Acrylic Surfaces Obtained by Scratching  | ABRAHAM MEDINA OVANDO López-Villa A. Vargas C.A.                                       | Fluids   | 2021 |
| 4 | Temperature profiles due to continuous hot water injection into homogeneous fluid-saturated porous media through a line source  | ABRAHAM MEDINA OVANDO Higuera F.J. Pliego M. et al.                                    | REVISTA MEXICANA DE FISICA                       | 2021 |
| 5 | Experimental and numerical study of submerged jets from pipes of different wall thicknesses for $re < 1$  | ABRAHAM MEDINA OVANDO Sánchez-Rosasa M. Casillas-Navarretea J. et al.                  | REVISTA MEXICANA DE FISICA                       | 2020 |

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|    |  |   |   |      |
|----|--|---|---|------|
| 6  | A Simple Model of the Flow in the Steam Chamber in SAGD Oil Recovery   | ABRAHAM MEDINA OVANDO Higuera F.J.  | Communications in Computer and Information Science              | 2019 |
| 7  | Intercalated intermetallic compounds AlTi <sub>3</sub> and Fe <sub>2</sub> Ti in microrods and microtubes obtained by invariant reaction of mechanically milled system Al <sub>4</sub> 3Ti <sub>3</sub> 6Fe <sub>2</sub> 1 | LUCIA GRACIELA DIAZ BARRIGA ARCEO ABRAHAM MEDINA OVANDO Reyes L.G. et al. | Materials   | 2019 |
| 8  | Radial imbibition in paper under temperature differences   | ABRAHAM MEDINA OVANDO López-Villa A. Higuera F.J. et al.                  | Fluids  | 2019 |
| 9  | The outflow of granular material from orifices of thin vertical sidewalls  | ABRAHAM MEDINA OVANDO Serrano D.A. Hernández-Juárez J. et al.             | 4TH EUROPEAN SYMPOSIUM ON FIRE SAFETY SCIENCE                   | 2019 |
| 10 | A new methodology in the study of acoustic fields in the almost stratified ocean   | ABRAHAM MEDINA OVANDO Hernández-Juárez J. Serrano D.A. et al.             | 4TH EUROPEAN SYMPOSIUM ON FIRE SAFETY SCIENCE                   | 2019 |
| 11 | Modeling of a HVAC system for clean rooms  | JESUS PACHECO RODRIGUEZ ABRAHAM MEDINA OVANDO ANTONIO PEREZ LOPEZ et al.  | IEEE LATIN AMERICA TRANSACTIONS                                 | 2018 |
| 12 | Foam injection into horizontal cells with channels of different openings   | ABRAHAM MEDINA OVANDO Pérez Terrazo A. Álvarez Salazar V.S. et al.        | REVISTA MEXICANA DE FISICA                                      | 2018 |
| 13 | Faraday wave patterns on a square cell network   | ABRAHAM MEDINA OVANDO Peña-Polo F. Vargas C.A. et al.                     | EXPERIMENTS IN FLUIDS   | 2017 |
| 14 | Visualization of steam injection into homogeneous porous media   | ABRAHAM MEDINA OVANDO Peralta S. Aragón F. et al.                         | JOURNAL OF VISUALIZATION  | 2017 |
| 15 | Deformation profiles of elastic cylindrical tubes filled with granular media under an overload   | ABRAHAM MEDINA OVANDO Álvarez Salazar V.S. Klapp J.                       | EOS ANNUAL MEETING, EOSAM 2024                                  | 2017 |
| 16 | Super free fall of a liquid frustum in a semi-infinite cone  | ABRAHAM MEDINA OVANDO Torres Á. Peralta S. et al.                         | Communications in Computer and Information Science              | 2017 |
| 17 | Preface  | GERARDO RUIZ CHAVARRIA ABRAHAM MEDINA OVANDO Klapp J. et al.              | Environmental Science and Engineering-Environmental Engineering | 2015 |

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|    |   |   |  |      |
|----|---|---|--|------|
| 18 | Preface   | GERARDO RUIZ CHAVARRIA<br>ABRAHAM MEDINA OVANDO Klapp J.<br>et al.    | Environmental<br>Science and<br>Engineering-En<br>vironmental<br>Engineering | 2015 |
| 19 | Preface   | GERARDO RUIZ CHAVARRIA<br>ABRAHAM MEDINA OVANDO Klapp J.<br>et al.    | Environmental<br>Science and<br>Engineering-En<br>vironmental<br>Engineering | 2015 |
| 20 | Use of unsupported, mechanically alloyed NiWMoC nanocatalyst to reduce the viscosity of aquathermolysis reaction of heavy oil | ABRAHAM MEDINA OVANDO Olvera<br>J.N.R. Gutiérrez G.J. et al.          | CATALYSIS<br>COMMUNICATIO<br>NS  | 2014 |
| 21 | Discharge rates of dry granular material from bins with lateral exit holes  | ABRAHAM MEDINA OVANDO Cabrera<br>D. López-Villa A. et al.             | POWDER<br>TECHNOLOGY   | 2014 |
| 22 | Growth of bubbles in reservoirs and its consequences on the foam formation  | ABRAHAM MEDINA OVANDO<br>López-Villa A.                               | Environmental<br>Science and<br>Engineering-En<br>vironmental<br>Engineering | 2014 |
| 23 | On super free fall  | ABRAHAM MEDINA OVANDO Torres A.<br>Higuera F.J. et al.                | JOURNAL OF<br>FLUID<br>MECHANICS   | 2013 |
| 24 | Profile deformation of a non cohesive granular material in an accelerated box   | ABRAHAM MEDINA OVANDO Álvarez<br>Salazar V.S. Terrazo A.P. et al.     | Environmental<br>Science and<br>Engineering-En<br>vironmental<br>Engineering | 2013 |
| 25 | On the mass flow rate of granular material in silos with lateral exit holes   | ABRAHAM MEDINA OVANDO<br>Gutiérrez-Paredes G.J. Chowdary S.<br>et al. | Environmental<br>Science and<br>Engineering-En<br>vironmental<br>Engineering | 2013 |
| 26 | Preface   | ABRAHAM MEDINA OVANDO Klapp J.<br>Cros A. et al.                      | Environmental<br>Science and<br>Engineering-En<br>vironmental<br>Engineering | 2013 |

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|----|--|---|---|------|
| 27 | Traction force due to aqueous foam flow rising in a vertical pipe                | ABRAHAM MEDINA OVANDO Pérez Terrazo A. Álvarez Salazar V.S. et al.    | Environmental Science and Engineering-Environmental Engineering | 2013 |
| 28 | On the film thickness between a bubble and the wall in liquids in vertical tubes | ABRAHAM MEDINA OVANDO López-Villa A.                                  | Environmental Science and Engineering-Environmental Engineering | 2013 |
| 29 | Super free fall in concentric pipes  | CESAR TREVIÑO TREVIÑO ABRAHAM MEDINA OVANDO Peralta S. et al.         | Environmental Science and Engineering-Environmental Engineering | 2013 |
| 30 | Experimental and computational modeling of venlo type greenhouse                 | ABRAHAM MEDINA OVANDO Rojano A. Salazar R. et al.                     | Environmental Science and Engineering-Environmental Engineering | 2013 |
| 31 | Capillary rise in a convergent hele-shaw cell                                    | ABRAHAM MEDINA OVANDO Vargas C.A. Aragón F.                           | Environmental Science and Engineering-Environmental Engineering | 2013 |
| 32 | Super accelerated flow in diverging conical pipes                                | ABRAHAM MEDINA OVANDO Torres A. Higuera F.J.                          | Environmental Science and Engineering-Environmental Engineering | 2013 |
| 33 | Stochastic trajectories of beads in the Galton-board                             | CARLOS ARTURO VARGAS GUADARRAMA ABRAHAM MEDINA OVANDO Nuñez M. et al. | Applied Mechanics and Materials                                 | 2012 |
| 34 | Super free fall of liquids in conical containers                                 | ABRAHAM MEDINA OVANDO CARLOS ARTURO VARGAS GUADARRAMA                 | Environmental Science and Engineering-Environmental Engineering | 2012 |
| 35 | Traction forces on rods in cylindrical silos                                     | CARLOS ARTURO VARGAS GUADARRAMA ABRAHAM MEDINA OVANDO López-Villa A.  | Environmental Science and Engineering-Environmental Engineering | 2012 |



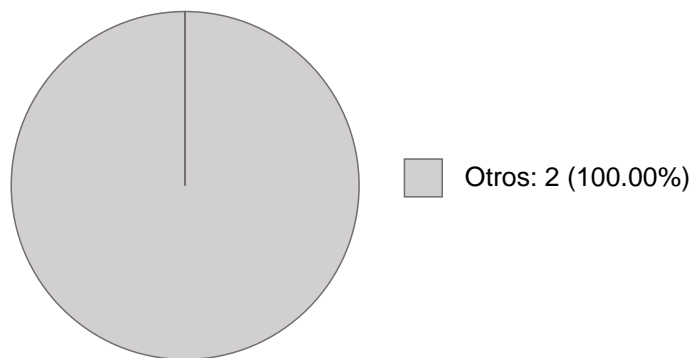
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|    |   |   |  |      |
|----|---|---|--|------|
| 36 | Analysis of the transpiration cooling of a thin porous plate in a hot laminar convective flow | CESAR TREVIÑO TREVIÑO ABRAHAM MEDINA OVANDO                       | EUROPEAN JOURNAL OF MECHANICS B-FLUIDS | 1999 |
| 37 | Contact line motion in axial thermocapillary outward flow                                     | ABEL LOPEZ VILLA ABRAHAM MEDINA OVANDO Dominguez Torres A. et al. | JOURNAL OF FLUID MECHANICS             |      |

**ABRAHAM MEDINA OVANDO**

**LIBROS Y CAPITULOS CON ISBN**

**Obras con registro ISBN**



| # | Título  | Autores  | Alcance              | Año  | ISBN          |
|---|---|--|----------------------|------|---------------|
| 1 | An introduction to the study of the acoustic wave propagation in a homogeneous dispersive media | ABRAHAM MEDINA<br>OVANDO<br>Hernandez- Juarez J.<br>Juarez N.X.H.        | Conferenc<br>e Paper | 2017 | 9781538631232 |
| 2 | Measurement of the sound pressure level during the discharge process of a tilted silo           | ABRAHAM MEDINA<br>OVANDO<br>Hernandez-Juárez J.<br>López-Villa A. et al. | Conferenc<br>e Paper | 2017 | 9781538631232 |



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



**ABRAHAM MEDINA OVANDO**

**PARTICIPACIÓN EN PROYECTOS**

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

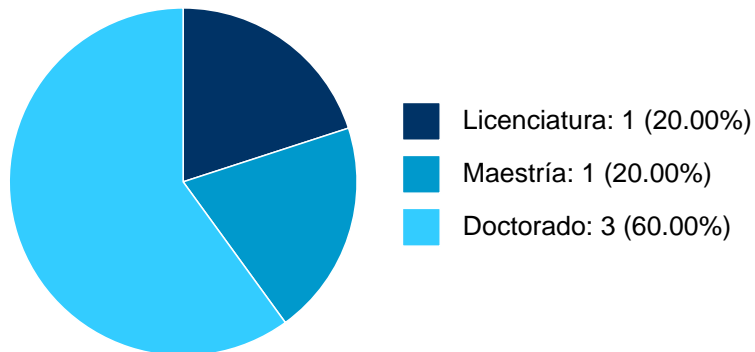
**ABRAHAM MEDINA OVANDO**



## ABRAHAM MEDINA OVANDO

### PARTICIPACIÓN EN TESIS

#### Histórico de Colaboraciones en Tesis



| # | Título del documento  | Tipo de Tesis         | Sinodales              | Autores  | Entidad | Año  |
|---|---|-----------------------|------------------------|--|---------|------|
| 1 | Formación y evolución de burbujas en líquidos viscosos : formación de burbujas en geometrías confinadas | Tesis de Doctorado    | ABRAHAM MEDINA OVANDO, | Ortiz Gómez, Arnulfo,                                |         | 2009 |
| 2 | Conveccion en medios porosos con fracturas inclinadas : interaccion con el medio poroso externo         | Tesis de Doctorado    | ABRAHAM MEDINA OVANDO, | Sanchez Cruz, Fausto Alejandro,                      |         | 2005 |
| 3 | Imbibicion en medios porosos fracturados  | Tesis de Doctorado    | ABRAHAM MEDINA OVANDO, | Sanchez Huerta, José Melesio,                        |         | 2005 |
| 4 | Conveccion en fracturas inclinadas de yacimientos naturalmente fracturados                              | Tesis de Maestría     | ABRAHAM MEDINA OVANDO, | CESAR TREVIÑO TREVIÑO, Cordova Magaña, José Antonio, |         | 2002 |
| 5 | Ecuaciones diferenciales estocasticas : difusion y langevin   | Tesis de Licenciatura | ABRAHAM MEDINA OVANDO, | Romero Castillo, Martin,                             |         | 1989 |



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**Coordinación de Planeación, Evaluación y**  
**Simplificación de la Gestión Institucional**  
**Reporte individual**



**ABRAHAM MEDINA OVANDO**

**DOCENCIA IMPARTIDA**

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

**ABRAHAM MEDINA OVANDO**



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



**ABRAHAM MEDINA OVANDO**

**PATENTES**

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

**ABRAHAM MEDINA OVANDO**

**ABRAHAM MEDINA OVANDO**

**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 |