



## **HORACIO MARTINEZ VALENCIA**

### **Datos Generales**

**Nombre:** HORACIO MARTINEZ VALENCIA

**Máximo nivel de estudios:** DOCTORADO

**Antigüedad académica en la UNAM:** 44 años

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### **Nombramientos**

**Vigente:** INVESTIGADOR TITULAR C TC Definitivo  
Instituto de Ciencias Físicas  
Desde 01-01-2008 (fecha inicial de registros en el SIIA)

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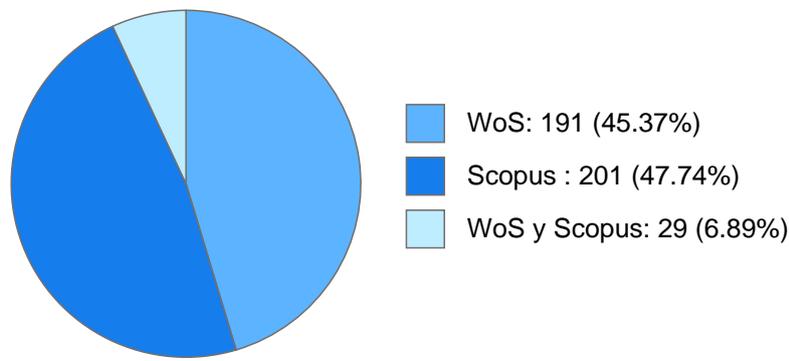
### **Estímulos, programas, premios y reconocimientos**

SNI Emérito 2024  
SNI III 2009 - 2023  
SNI II 2008  
PRIDE D - 2024

## HORACIO MARTINEZ VALENCIA

### DOCUMENTOS EN REVISTAS

#### Histórico de Documentos



#	Título	Autores	Revista	Año
1	Obtaining microparticles of Cu <sub>2</sub> O by means of a pulsed discharge of CH <sub>3</sub> CH <sub>2</sub> OH-N <sub>2</sub>	HORACIO MARTINEZ VALENCIA González M.C. Reyes P.G. et al.	REVISTA MEXICANA DE FISICA	2024
2	Superficial Modification of the Mg?Zn Biomaterials via Ion Nitriding for Biomedical Applications	HORACIO MARTINEZ VALENCIA EDNA VAZQUEZ VELEZ Gonzaga S. et al.	METALS	2024
3	Corrosion behavior and mechanical properties of hot-rolled ultrahigh-strength steel alloys in alkaline and acidic environments	HORACIO MARTINEZ VALENCIA Torres-Islas A. Torres-Macias D. et al.	INTERNATIONAL JOURNAL OF ELECTROCHEMI CAL SCIENCE	2024
4	Corrosion behavior of Mg?Bi?Ca alloys prepared via high vacuum melting as biodegradable materials in Hank solution	HORACIO MARTINEZ VALENCIA Torres-Islas A. Bedolla-Jacuinde A. et al.	INTERNATIONAL JOURNAL OF ELECTROCHEMI CAL SCIENCE	2024
5	Atmospheric Plasma Treatment to Improve PHB Coatings on 316L Stainless Steel	HORACIO MARTINEZ VALENCIA BERNARDO FABIAN CAMPILLO ILLANES Radilla J. et al.	POLYMERS	2024
6	Plasma-modified cerium oxide nanocatalyst for atmospheric pressure plasma degradation of methylene blue	EDNA VAZQUEZ VELEZ HORACIO MARTINEZ VALENCIA LAZARO HUERTA ARCOS et al.	Journal of Water Process Engineering	2024

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7	Life Cycle Assessment of Green Synthesis of TiO <sub>2</sub> Nanoparticles vs. Chemical Synthesis	EDNA VAZQUEZ VELEZ HORACIO MARTINEZ VALENCIA Maria del Pilar Rodriguez-Rojas et al.	SUSTAINABILITY	2024
8	Evaluating a Fe-Based Metallic Glass Powder as a Novel Negative Electrode Material for Applications in Ni-MH Batteries	OSCAR SOTELO MAZON BERNARDO FABIAN CAMPILLO ILLANES HORACIO MARTINEZ VALENCIA et al.	BATTERIES-BASE L	2024
9	Synthesis of Magnesium-Based Alloys by Mechanical Alloying for Implant Applications	HORACIO MARTINEZ VALENCIA EDNA VAZQUEZ VELEZ Gonzaga S. et al.	Coatings	2023
10	Effect of plasma treatment of copper on its corrosion behaviour in 3.5 % NaCl solution	HORACIO MARTINEZ VALENCIA JOSE GONZALO GONZALEZ RODRIGUEZ O. A. Gonzalez Noriega et al.	INTERNATIONAL JOURNAL OF ELECTROCHEMICAL SCIENCE	2023
11	Gentamicin Release Study in Uniaxial and Coaxial Polyhydroxybutyrate-Polyethylene Glycol-Gentamicin Microfibers Treated with Atmospheric Plasma	EDNA VAZQUEZ VELEZ HORACIO MARTINEZ VALENCIA BERNARDO FABIAN CAMPILLO ILLANES et al.	POLYMERS	2023
12	Microbiological study of the effect of a dielectric barrier discharge interaction on processed orange juices exposed to the environment	HORACIO MARTINEZ VALENCIA Ocaña De Jesús R.L. Ibáñez A.T.G. et al.	FOOD SCIENCE AND TECHNOLOGY	2022
13	Studies on the effect of long-chain and head groups of nonionic surfactants synthesized from palm and coconut oil on the formation of silver nanoparticles	EDNA VAZQUEZ VELEZ HORACIO MARTINEZ VALENCIA MOHAN KUMAR KESARLA et al.	JOURNAL OF SURFACTANTS AND DETERGENTS	2022
14	Removal efficiency of Rhodamine B dye by atmospheric plasma	HORACIO MARTINEZ VALENCIA Sánchez J.V. Segundo C.T. et al.	DESALINATION AND WATER TREATMENT	2022
15	Effect of atmospheric plasma treatment on the wettability of UHMWPE	MARAOLINA DOMINGUEZ DIAZ HORACIO MARTINEZ VALENCIA I Dominguez-Lopez et al.	MATERIALS LETTERS	2021
16	Calibration of the underground muon detector of the Pierre Auger Observatory	GUILLERMINA AVILA RAMIREZ HORACIO MARTINEZ VALENCIA GUSTAVO ADOLFO MEDINA TANCO et al.	JOURNAL OF INSTRUMENTATION	2021
17	Influence of physical and chemical parameters in the treatment of basic red dye 46 by atmospheric plasma	HORACIO MARTINEZ VALENCIA Albarrán M.J.R. Díaz A.G. et al.	DESALINATION AND WATER TREATMENT	2021
18	The FRAM robotic telescope for atmospheric monitoring at the Pierre Auger Observatory	JUAN CARLOS D'OLIVO SAEZ BENJAMIN GARCIA PAEZ NANCY LETICIA GONZALEZ MORALES et al.	JOURNAL OF INSTRUMENTATION	2021

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19	Discoloration and mineralization of Direct Orange 39 textile dye in water by atmospheric plasma and ferrous ion	JOSEFINA VERGARA SANCHEZ HORACIO MARTINEZ VALENCIA Cesar Torres Segundo et al.	DESALINATION AND WATER TREATMENT	2021
20	Extraction of the muon signals recorded with the surface detector of the Pierre Auger Observatory using recurrent neural networks	JUAN CARLOS D'OLIVO SAEZ HORACIO MARTINEZ VALENCIA GUSTAVO ADOLFO MEDINA TANCO et al.	JOURNAL OF INSTRUMENTATION	2021
21	Corrosion Resistance of a Plasma-Oxidized Ti6Al4V Alloy for Dental Applications	HORACIO MARTINEZ VALENCIA Velazquez-Torres N. Porcayo-Calderon J. et al.	Coatings	2021
22	The energy spectrum of cosmic rays beyond the turn-down around 1017 eV as measured with the surface detector of the Pierre Auger Observatory	JUAN CARLOS D'OLIVO SAEZ BENJAMIN GARCIA PAEZ NANCY LETICIA GONZALEZ MORALES et al.	EUROPEAN PHYSICAL JOURNAL C	2021
23	Degradation of Acid Red 1 Catalyzed by Peroxidase Activity of Iron Oxide Nanoparticles and Detected by SERS	EDNA VAZQUEZ VELEZ HORACIO MARTINEZ VALENCIA FERMIN CASTILLO MEJIA	NANOMATERIALS	2021
24	Comparative studies of the mechanical and thermal properties of clay / copolymer nanocomposites synthesized by two in-situ methods and solution blending method	BERNARDO FABIAN CAMPILLO ILLANES HORACIO MARTINEZ VALENCIA Oscar Hernandez-Guerrero et al.	JOURNAL OF POLYMER RESEARCH	2020
25	Electrospinning of polyacrylonitrile nanofibers embedded with zerovalent iron and cerium oxide nanoparticles, as Cr(VI) adsorbents for water treatment	EDNA VAZQUEZ VELEZ HORACIO MARTINEZ VALENCIA L. Lopez-Zarate	JOURNAL OF APPLIED POLYMER SCIENCE	2020
26	Search for magnetically-induced signatures in the arrival directions of ultra-high-energy cosmic rays measured at the Pierre Auger Observatory	GUILLERMINA AVILA RAMIREZ JUAN CARLOS D'OLIVO SAEZ HORACIO MARTINEZ VALENCIA et al.	JOURNAL OF COSMOLOGY AND ASTROPARTICLE PHYSICS	2020
27	Langmuir probe, optical, and mass characterization of a DC CO <sub>2</sub> -H <sub>2</sub> plasma	HORACIO MARTINEZ VALENCIA PEDRO GUILLERMO REYES ROMERO JOSEFINA VERGARA SANCHEZ et al.	PHYSICS OF PLASMAS	2020
28	Direct measurement of the muonic content of extensive air showers between 2× 10 <sup>17</sup> and 2×10 <sup>18</sup> eV at the Pierre Auger Observatory	JESUS ALVAREZ CASTILLO ALDO BLANCO JARVIO JUAN CARLOS D'OLIVO SAEZ et al.	EUROPEAN PHYSICAL JOURNAL C	2020
29	Measurement of the cosmic-ray energy spectrum above 2.5 x 10 <sup>(18)</sup> eV using the Pierre Auger Observatory	JESUS ALVAREZ CASTILLO GUILLERMINA AVILA RAMIREZ JUAN CARLOS D'OLIVO SAEZ et al.	PHYSICAL REVIEW D	2020

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30	Features of the Energy Spectrum of Cosmic Rays above $2.5 \times 10^{18}$ eV Using the Pierre Auger Observatory	JUAN CARLOS D'OLIVO SAEZ HORACIO MARTINEZ VALENCIA GUSTAVO ADOLFO MEDINA TANCO et al.	PHYSICAL REVIEW LETTERS	2020
31	Discoloration of a textile dyes mixture in an aqueous solution using a corona discharge	HORACIO MARTINEZ VALENCIA Josefina Vergara Sanchez Cesar Torres Segundo et al.	DESALINATION AND WATER TREATMENT	2020
32	Development and Corrosion Characterization of Ultra-High-Strength Steels	SERGIO ALONSO SERNA BARQUERA BERNARDO FABIAN CAMPILLO ILLANES HORACIO MARTINEZ VALENCIA et al.	INTERNATIONAL JOURNAL OF ELECTROCHEMI CAL SCIENCE	2020
33	The impact of heat input on the microstructures, fatigue behaviors, and stress lives of TIG-welded 6061-T6 alloy joints	SOCORRO DEL CARMEN VALDEZ RODRIGUEZ BERNARDO FABIAN CAMPILLO ILLANES HORACIO MARTINEZ VALENCIA et al.	MATERIALS RESEARCH EXPRESS	2020
34	Crystallinity and hardness enhancement of polypropylene using atmospheric pressure plasma discharge treatment	HORACIO MARTINEZ VALENCIA BERNARDO FABIAN CAMPILLO ILLANES Xosocotla O.	Advances In Science, Technology And Engineering Systems	2020
35	Microhardness modification of ultrahigh-molecular-weight polyethylene by oxygen plasma: Effect of the polymer crosslinking	MARAOLINA DOMINGUEZ DIAZ HORACIO MARTINEZ VALENCIA García A. et al.	NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION B-BEAM INTERACTIONS WITH MATERIALS AND ATOMS	2019
36	Absolute total ionization and dissociative ionization cross sections for H + impact on N <sub>2</sub> O within the energy range of 2?10 keV	JORGE LOPEZ PATIÑO BEATRIZ ELIZABETH FUENTES MADARIAGA FAROOK BASHIR YOUSIF et al.	INTERNATIONAL JOURNAL OF MASS SPECTROMETRY	2019
37	Measurement of the average shape of longitudinal profiles of cosmic-ray air showers at the Pierre Auger Observatory	JUAN CARLOS D'OLIVO SAEZ HORACIO MARTINEZ VALENCIA GUSTAVO ADOLFO MEDINA TANCO et al.	JOURNAL OF COSMOLOGY AND ASTROPARTICLE PHYSICS	2019

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38	Influence of the crystalline structure stability in the wettability of poly- $\beta$ -hydroxybutyrate:polyethylene glycol 6000 fiber mats treated by atmospheric-pressure plasma	MARAOLINA DOMINGUEZ DIAZ HORACIO MARTINEZ VALENCIA Escorcia-García J.	NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION B-BEAM INTERACTIONS WITH MATERIALS AND ATOMS	2019
39	Elimination of AB210 dye in residual textile water by glow-discharge plasma application	HORACIO MARTINEZ VALENCIA Josefina Vergara Sanchez Cesar Torres Segundo et al.	DESALINATION AND WATER TREATMENT	2019
40	Electrophoretic Deposition of Chitosan Films Doped with Nd <sub>2</sub> Ti <sub>2</sub> O <sub>7</sub> Nanoparticles as Protective Coatings against Corrosion in Saline Solutions	MARGARITA MARTINEZ GOMEZ MARAOLINA DOMINGUEZ DIAZ HORACIO MARTINEZ VALENCIA et al.	INTERNATIONAL JOURNAL OF POLYMER SCIENCE	2019
41	Multi-Messenger Physics With the Pierre Auger Observatory	JUAN CARLOS D'OLIVO SAEZ HORACIO MARTINEZ VALENCIA GUSTAVO ADOLFO MEDINA TANCO et al.	Frontiers In Astronomy And Space Sciences	2019
42	Pathways in the molecular fragmentation for the C <sub>2</sub> H <sub>5</sub> OH/He electrical discharge	HORACIO MARTINEZ VALENCIA VICTOR ULISES LEV CONTRERAS LOERA A. Gomez et al.	RADIATION EFFECTS AND DEFECTS IN SOLIDS	2019
43	Photo-Detachment of Nitrous Oxide in DC Plasma Discharge	FAROOK BASHIR YOUSIF BEATRIZ ELIZABETH FUENTES MADARIAGA HORACIO MARTINEZ VALENCIA et al.	IEEE TRANSACTIONS ON PLASMA SCIENCE	2019
44	Effect on discoloration by nonthermal plasma in dissolved textile dyes: Acid black 194	HORACIO MARTINEZ VALENCIA Torres-Segundo C. Vergara-Sánchez J. et al.	REVISTA MEXICANA DE INGENIERIA QUIMICA	2019
45	Ionization and electron capture for H <sup>+</sup> collisions at low keV energy with a water-vapor target	BEATRIZ ELIZABETH FUENTES MADARIAGA FAROOK BASHIR YOUSIF HORACIO MARTINEZ VALENCIA et al.	INTERNATIONAL JOURNAL OF MASS SPECTROMETRY	2019
46	Electrochemical and Optical Behavior of Microalloyed Steel in Near-Neutral Aqueous Solution	HORACIO MARTINEZ VALENCIA J. Castrellon-Uribe A. Torres-Islas et al.	INTERNATIONAL JOURNAL OF ELECTROCHEMI CAL SCIENCE	2019

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47	Comparative study of the degradation process of Azo textile dyes AB52 and AB210 in water using a type-Corona electric discharge	HORACIO MARTINEZ VALENCIA Cesar Torres Segundo Josefina Vergara Sanchez et al.	DESALINATION AND WATER TREATMENT	2019
48	Defects analysis on the strengthening of solid solution Nb additions in Mo3Si alloys	HORACIO MARTINEZ VALENCIA Rosales I. Garcia-Ramirez M.J. et al.	JOURNAL OF MATERIALS RESEARCH AND TECHNOLOGY-J MR&T	2019
49	Experimental Study of Ethanol and Helium Mixture Glow Discharge	HORACIO MARTINEZ VALENCIA Perusquia S. Reyes P.G. et al.	IEEE TRANSACTIONS ON PLASMA SCIENCE	2019
50	Stress corrosion cracking of microalloyed pipeline steel in biofuels E-10 and E-85	HORACIO MARTINEZ VALENCIA BERNARDO FABIAN CAMPILLO ILLANES Del-Pozo A. et al.	CORROSION ENGINEERING SCIENCE AND TECHNOLOGY	2019
51	Electronegativity Measurements and Analysis for CO <sub>2</sub> and CO in DC Plasma Discharge	JUAN LOPEZ PATIÑO BEATRIZ ELIZABETH FUENTES MADARIAGA HORACIO MARTINEZ VALENCIA et al.	IEEE TRANSACTIONS ON PLASMA SCIENCE	2019
52	Corrosion behavior of nitrated Ni <sub>3</sub> Al intermetallic alloy in 0.5 M H <sub>2</sub> SO <sub>4</sub>	HORACIO MARTINEZ VALENCIA JOSE GONZALO GONZALEZ RODRIGUEZ LORENZO MARTINEZ GOMEZ et al.	INTERNATIONAL JOURNAL OF ELECTROCHEMICAL SCIENCE	2018
53	Phase Shift Measurements Between Intensity and Frequency Modulations of a Self-Mixing Interferometer	VICTOR ULISES LEV CONTRERAS LOERA HORACIO MARTINEZ VALENCIA Michele Norgia	IEEE PHOTONICS TECHNOLOGY LETTERS	2018
54	Effect of plasma pre-oxidation on the Cu corrosion inhibition in 3.5% NaCl by an environmentally friendly amide	HORACIO MARTINEZ VALENCIA EDNA VAZQUEZ VELEZ BERNARDO FABIAN CAMPILLO ILLANES et al.	INTERNATIONAL JOURNAL OF ELECTROCHEMICAL SCIENCE	2018
55	Antimony Sulfide Thin Films Obtained by Chemical Bath Deposition using Tartaric Acid as Complexing Agent	JOSE ESCORCIA GARCIA MARAOLINA DOMINGUEZ DIAZ HORACIO MARTINEZ VALENCIA et al.	Mrs Advances	2018
56	Combined fit of spectrum and composition data as measured by the Pierre Auger Observatory (vol 4, 038, 2017)	JESUS ALVAREZ CASTILLO JUAN CARLOS D'OLIVO SAEZ HORACIO MARTINEZ VALENCIA et al.	JOURNAL OF COSMOLOGY AND ASTROPARTICLE PHYSICS	2018
57	Photo-detachment of negative ions in Ar-CO <sub>2</sub> dc discharge employing Langmuir probe	FAROOK BASHIR YOUSIF BEATRIZ ELIZABETH FUENTES MADARIAGA HORACIO MARTINEZ VALENCIA et al.	PHYSICS OF PLASMAS	2018

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58	Use of an amide-type corrosion inhibitor synthesized from the coffee bagasse oil on the corrosion of Cu in NaCl	HORACIO MARTINEZ VALENCIA EDNA VAZQUEZ VELEZ LORENZO MARTINEZ GOMEZ et al.	GREEN CHEMISTRY LETTERS AND REVIEWS	2018
59	Chemical elemental analysis of single acoustic-levitated water droplets by laser-induced breakdown spectroscopy	VICTOR ULISES LEV CONTRERAS LOERA HUGO MARTIN SOBRAL HORACIO MARTINEZ VALENCIA et al.	OPTICS LETTERS	2018
60	Observation of a large-scale anisotropy in the arrival directions of cosmic rays above $8 \times 10^{18}$ eV	JESUS ALVAREZ CASTILLO JUAN CARLOS D'OLIVO SAEZ HORACIO MARTINEZ VALENCIA et al.	Science	2017
61	Degradation of textile dye AB 52 in an aqueous solution by applying a plasma at atmospheric pressure	HORACIO MARTINEZ VALENCIA Vergara Sanchez, Josefina Torres Segundo, Cesar et al.	IEEE TRANSACTIONS ON PLASMA SCIENCE	2017
62	Search for photons with energies above $10^{18}$ eV using the hybrid detector of the Pierre Auger Observatory	JESUS ALVAREZ CASTILLO JUAN CARLOS D'OLIVO SAEZ HORACIO MARTINEZ VALENCIA et al.	JOURNAL OF COSMOLOGY AND ASTROPARTICLE PHYSICS	2017
63	Enhanced self-mixing interferometry based on volume Bragg gratings and laser diodes emitting at 405-nm wavelengths	HORACIO MARTINEZ VALENCIA VICTOR ULISES LEV CONTRERAS LOERA Toivonen, Juha	OPTICS LETTERS	2017
64	Plasma diagnostics of glow discharges in mixtures of CO <sub>2</sub> with noble gases	HORACIO MARTINEZ VALENCIA Reyes, P. G. Gomez, A. et al.	REVISTA MEXICANA DE FISICA	2017
65	Physical-chemical characterization of the textile dye Azo Ab52 degradation by corona plasma	HORACIO MARTINEZ VALENCIA Gomez, A. Torres-Arenas, A. J. et al.	AIP ADVANCES	2017
66	Inferences on mass composition and tests of hadronic interactions from 0.3 to 100 EeV using the water-Cherenkov detectors of the Pierre Auger Observatory	JUAN CARLOS D'OLIVO SAEZ HORACIO MARTINEZ VALENCIA GUSTAVO ADOLFO MEDINA TANCO et al.	PHYSICAL REVIEW D	2017
67	Ionization and electron capture for H <sup>+</sup> collisions with CO at low keV energy	BEATRIZ ELIZABETH FUENTES MADARIAGA FAROOK BASHIR YOUSIF HORACIO MARTINEZ VALENCIA et al.	Physics Procedia	2017
68	Mechanical performance of thermally post-treated ion-nitrided steels	IVONNE ROSALES CHAVEZ HORACIO MARTINEZ VALENCIA Guardian, R.	APPLIED SURFACE SCIENCE	2016
69	Nanosecond-level time synchronization of autonomous radio detector stations for extensive air showers	JUAN CARLOS D'OLIVO SAEZ HORACIO MARTINEZ VALENCIA GUSTAVO ADOLFO MEDINA TANCO et al.	JOURNAL OF INSTRUMENTATION	2016

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70	Search for correlations between the arrival directions of IceCube neutrino events and ultrahigh-energy cosmic rays detected by the Pierre Auger Observatory and the Telescope Array	AMELIA OLIVAS SARABIA JUAN CARLOS D'OLIVO SAEZ HORACIO MARTINEZ VALENCIA et al.	JOURNAL OF COSMOLOGY AND ASTROPARTICLE PHYSICS	2016
71	The Hydrophilic to Superhydrophilic Change Induced by Polyhydroxybutyrate in Polyethylene glycol:Polyhydroxybutyrate Electrospun Samples by Plasma Treatment	HORACIO MARTINEZ VALENCIA Guadalupe Rojano-Molina, Ma Dominguez-Diaz, Maraolina et al.	Mrs Advances	2016
72	Search for ultrarelativistic magnetic monopoles with the Pierre Auger observatory	JESUS ALVAREZ CASTILLO JUAN CARLOS D'OLIVO SAEZ HORACIO MARTINEZ VALENCIA et al.	PHYSICAL REVIEW D	2016
73	Effects of Na incorporation and plasma treatment on Bi <sub>2</sub> S <sub>3</sub> ultra-thin layers	HORACIO MARTINEZ VALENCIA Moreno-Garcia, H. Messina, S. et al.	Thin Solid Films	2016
74	Characterization of Ar-O <sub>2</sub> DC Discharge Employing Langmuir Probe in Conjunction with Photodetachment	HORACIO MARTINEZ VALENCIA Rodriguez Legorreta, Jannet Yousif, Farook Bashir et al.	IEEE TRANSACTIONS ON PLASMA SCIENCE	2016
75	Low energy ionization and fragmentation cross sections for H <sup>+</sup> impact on N <sub>2</sub> and O <sub>2</sub>	JUAN LOPEZ PATIÑO BEATRIZ ELIZABETH FUENTES MADARIAGA HORACIO MARTINEZ VALENCIA et al.	INTERNATIONAL JOURNAL OF MASS SPECTROMETRY	2016
76	Ionization and fragmentation of CH <sub>4</sub> by proton impact	BEATRIZ ELIZABETH FUENTES MADARIAGA JUAN LOPEZ PATIÑO HORACIO MARTINEZ VALENCIA et al.	INTERNATIONAL JOURNAL OF MASS SPECTROMETRY	2016
77	Characterization of Ethanol Plasma Glow Discharge, Decomposition in Several Species and Solid Film Formation	HORACIO MARTINEZ VALENCIA OSVALDO FLORES CEDILLO Reyes, P. G. et al.	IEEE TRANSACTIONS ON PLASMA SCIENCE	2016
78	Search for gamma-rays from the unusually bright GRB 130427a with the hawc gamma-ray observatory	JOSE RUBEN ALFARO MOLINA JESUS ALVAREZ CASTILLO NISSIM ILLICH FRAIJA CABRERA et al.	ASTROPHYSICAL JOURNAL	2015
79	Optical Emission Spectroscopy of H $\gamma$ , H $\alpha$ , and H $\beta$ in a Glow Discharge Mixture of Ar/H <sub>2</sub>	HORACIO MARTINEZ VALENCIA JAIME VERGARA PRADO Tones, Juana et al.	IEEE TRANSACTIONS ON PLASMA SCIENCE	2015
80	Bicarbonate enhances the in vitro antibiotic activity of kanamycin in Escherichia coli	HORACIO MARTINEZ VALENCIA VICTOR HUMBERTO BUSTAMANTE SANTILLAN JOSE LUIS PUENTE GARCIA et al.	LETTERS IN APPLIED MICROBIOLOGY	2015

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81	VAMOS: A pathfinder for the HAWC gamma-ray observatory	JOSE RUBEN ALFARO MOLINA JESUS ALVAREZ CASTILLO FERNANDO ANGELES URIBE et al.	ASTROPARTICLE PHYSICS	2015
82	Milagro limits and HAWC sensitivity for the rate-density of evaporating Primordial Black Holes	JOSE RUBEN ALFARO MOLINA JESUS ALVAREZ CASTILLO ERNESTO JOSE MARIA DE LA SALETE BELMONT MORENO et al.	ASTROPARTICLE PHYSICS	2015
83	Muons in air showers at the Pierre Auger Observatory: Mean number in highly inclined events	BERNARDO VARGAS CARDENAS JESUS ALVAREZ CASTILLO JUAN CARLOS D'OLIVO SAEZ et al.	PHYSICAL REVIEW D	2015
84	Large scale distribution of ultra high energy cosmic rays detected at the Pierre Auger observatory with zenith angles up to 80°	BERNARDO VARGAS CARDENAS JESUS ALVAREZ CASTILLO JUAN CARLOS D'OLIVO SAEZ et al.	ASTROPHYSICAL JOURNAL	2015
85	Searches for anisotropies in the arrival directions of the highest energy cosmic rays detected by the pierre auger observatory	B. Vargas Cardenas J. Alvarez Castillo JUAN CARLOS D'OLIVO SAEZ et al.	ASTROPHYSICAL JOURNAL	2015
86	Improved limit to the diffuse flux of ultrahigh energy neutrinos from the Pierre Auger observatory	B. Vargas Cardenas J. Alvarez Castillo JUAN CARLOS D'OLIVO SAEZ et al.	PHYSICAL REVIEW D	2015
87	Search for patterns by combining cosmic-ray energy and arrival directions at the Pierre Auger Observatory	BERNARDO VARGAS CARDENAS JESUS ALVAREZ CASTILLO JUAN CARLOS D'OLIVO SAEZ et al.	EUROPEAN PHYSICAL JOURNAL C	2015
88	The Pierre Auger Cosmic Ray Observatory	BERNARDO VARGAS CARDENAS JESUS ALVAREZ CASTILLO C. D'Olivo et al.	NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A-ACCELERATO RS SPECTROMETER S DETECTORS AND ASSOCIATED EQUIPMENT	2015
89	Measurement of the cosmic ray spectrum above $4 \times 10^{18}$ eV using inclined events detected with the Pierre Auger Observatory	BERNARDO VARGAS CARDENAS JESUS ALVAREZ CASTILLO JUAN CARLOS D'OLIVO SAEZ et al.	JOURNAL OF COSMOLOGY AND ASTROPARTICLE PHYSICS	2015

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90	Optical and electrical characterization of C <sub>3</sub> H <sub>6</sub> O/Ar glow discharge	FERMIN CASTILLO MEJIA OSVALDO FLORES CEDILLO HORACIO MARTINEZ VALENCIA et al.	XLII SYMPOSIUM ON NUCLEAR PHYSICS 2019	2015
91	Striations in an ethyl alcohol glow discharge	HORACIO MARTINEZ VALENCIA FERMIN CASTILLO MEJIA Reyes P.G. et al.	XLII SYMPOSIUM ON NUCLEAR PHYSICS 2019	2015
92	Study of N <sub>2</sub> /He DC glow discharge	OSVALDO FLORES CEDILLO FERMIN CASTILLO MEJIA HORACIO MARTINEZ VALENCIA et al.	XLII SYMPOSIUM ON NUCLEAR PHYSICS 2019	2015
93	Electrical and optical characterization of CO <sub>2</sub> /He glow discharge	HORACIO MARTINEZ VALENCIA Reyes P.G. Torres C. et al.	XLII SYMPOSIUM ON NUCLEAR PHYSICS 2019	2015
94	Study of the Rogowski coil response in a plasma focus device	FERMIN CASTILLO MEJIA HORACIO MARTINEZ VALENCIA Perusquía S. et al.	XLII SYMPOSIUM ON NUCLEAR PHYSICS 2019	2015
95	Characterization a low pressure of plasma of methanol (CH <sub>4</sub> O) alcohol	FERMIN CASTILLO MEJIA HORACIO MARTINEZ VALENCIA Villa M. et al.	XLII SYMPOSIUM ON NUCLEAR PHYSICS 2019	2014
96	Low-pressure plasma discharge of Ar/N <sub>2</sub> /CH <sub>4</sub> ternary mixture: Experimental simulation of Titan's atmosphere	FERMIN CASTILLO MEJIA HORACIO MARTINEZ VALENCIA Salazar-Flores L. et al.	XLII SYMPOSIUM ON NUCLEAR PHYSICS 2019	2014
97	Analysis of the different zones of glow discharge of ethyl alcohol (C <sub>2</sub> H <sub>6</sub> O)	FERMIN CASTILLO MEJIA HORACIO MARTINEZ VALENCIA Torres C. et al.	XLII SYMPOSIUM ON NUCLEAR PHYSICS 2019	2014
98	Experimental study of a glow discharge of CH <sub>2</sub> -Cl <sub>2</sub>	HORACIO MARTINEZ VALENCIA FERMIN CASTILLO MEJIA Gomez A. et al.	XLII SYMPOSIUM ON NUCLEAR PHYSICS 2019	2014
99	Molecular changes in asphaltenes within H <sub>2</sub> plasma	HORACIO MARTINEZ VALENCIA OSVALDO FLORES CEDILLO BERNARDO FABIAN CAMPILLO ILLANES et al.	ENERGY & FUELS	2014
100	Electron temperature and ion density measurements in a glow discharge of an Ar-N <sub>2</sub> mixture	HORACIO MARTINEZ VALENCIA Reyes, P. G. Torres, C.	RADIATION EFFECTS AND DEFECTS IN SOLIDS	2014
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#	Título	Autores	Alcance	Año	ISBN
1	Corrosion inhibition studies of synthesized oleic sources-based green inhibitors from agro-industrial waste	OSCAR SOTELO MAZON EDNA VAZQUEZ VELEZ HORACIO MARTINEZ VALENCIA et al.	Capítulo de un Libro	2023	9781668476901
2	Física experimental	HORACIO MARTINEZ VALENCIA IGNACIO ALEJANDRO FIGUEROA VARGAS CITLALI SANCHEZ AKE et al.	Libro Completo	2022	9786074247770
3	Escuela de Física Experimental	IGNACIO ALEJANDRO FIGUEROA VARGAS MARAOLINA DOMINGUEZ DIAZ MONSERRAT BIZARRO SORDO et al.	Libro Completo	2022	9786074247787
4	Study of an atmospheric-pressure discharge in air	FERMIN CASTILLO MEJIA OSVALDO FLORES CEDILLO BERNARDO FABIAN CAMPILLO ILLANES et al.	Conferencia e Paper	2019	9781538633861



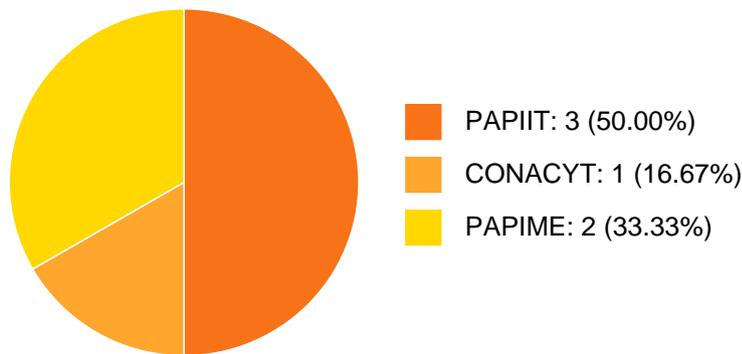
## **HORACIO MARTINEZ VALENCIA**

5	Laser induced breakdown spectroscopy on liquids assisted by acoustic levitation sampling: Towards on-line monitoring applications.	HORACIO MARTINEZ VALENCIA Contreras V. Díaz A. et al.	Conferencia Paper	2018	9781557528209
6	Study of an atmospheric-pressure discharge in air	FERMIN CASTILLO MEJIA OSVALDO FLORES CEDILLO BERNARDO FABIAN CAMPILLO ILLANES et al.	Proceedings Paper	2017	9781538633861
7	La Física Atómica, Molecular y Óptica en México	IGNACIO ALVAREZ TORRES REMIGIO CABRERA TRUJILLO MARIA DEL CARMEN CISNEROS GUDIÑO et al.	Capítulo de un Libro	2016	9786079745509
8	Corrosion behavior of 18Cr-18Mn experimental steel	HORACIO MARTINEZ VALENCIA Torres-Islas A. Reyes-Hernandez R. et al.	Conferencia Paper	2013	9789899885004

## HORACIO MARTINEZ VALENCIA

### PARTICIPACIÓN EN PROYECTOS

#### Histórico de participación en proyectos

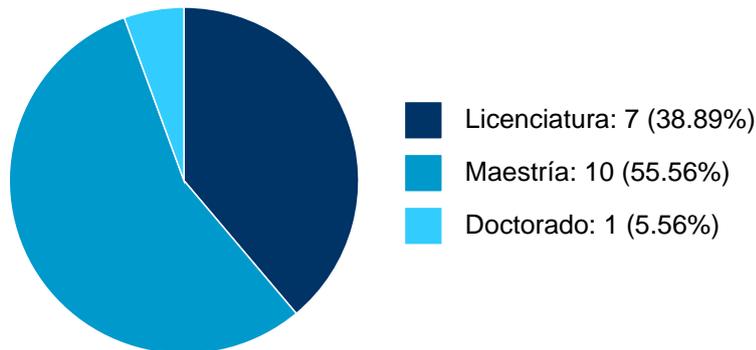


#	Nombre	Participantes	Fuente	Fecha inicio	Fecha fin
1	Estudio de plasmas a presión atmosférica	HORACIO MARTINEZ VALENCIA	Recursos PAPIIT	01-01-2016	31-12-2018
2	VII Escuela de Física Experimental	HORACIO MARTINEZ VALENCIA	Recursos CONACYT	25-04-2018	30-11-2018
3	Tratamiento con plasma a presión atmosférica de superficies de materiales poliméricos para la mejora de la adhesión.	HORACIO MARTINEZ VALENCIA	Recursos PAPIIT	01-01-2019	31-12-2021
4	Escuela de Física Experimental.	HORACIO MARTINEZ VALENCIA	Recursos PAPIIME	01-01-2019	31-12-2021
5	Tratamiento con plasma de nanofibras y películas biopoliméricas para mejorar sus propiedades de superficie	HORACIO MARTINEZ VALENCIA	Recursos PAPIIT	01-01-2022	31-12-2024
6	ESCUELA DE FISICA EXPERIMENTAL	HORACIO MARTINEZ VALENCIA	Recursos PAPIIME	01-01-2022	31-12-2023

## HORACIO MARTINEZ VALENCIA

### PARTICIPACIÓN EN TESIS

#### Histórico de Colaboraciones en Tesis



#	Título del documento	Tipo de Tesis	Sinodales	Autores	Entidad	Año
1	Influencia de la pre-oxidación por plasma en el estudio de corrosión del cobre en la solución de NaCl al 3.5% a diferentes temperaturas	Tesis de Maestría	HORACIO MARTINEZ VALENCIA,	González Noriega, Omar Alejandro,	Instituto de Ciencias Físicas,	2021
2	Modificación superficial del PP por un tratamiento por plasma a presión atmosférica	Tesis de Maestría	BERNARDO FABIAN CAMPILLO ILLANES,	HORACIO MARTINEZ VALENCIA, Xosocotla Espejel, Oscar Eduardo,	Facultad de Química, Instituto de Ciencias Físicas,	2020
3	Plasma a baja presión de una mezcla ternaria de Ar, N <sub>2</sub> ,CH <sub>4</sub> : simulacion experimental de la atmosfera de Titán	Tesis de Maestría	HORACIO MARTINEZ VALENCIA,	Salazar Flores, Leomar,	Instituto de Ciencias Físicas,	2014
4	Enseñanza de plasmas físicos en el nivel medio superior	Tesis de Maestría	HORACIO MARTINEZ VALENCIA,	Alarcón Hernández, Fidel Benjamín,	Instituto de Ciencias Físicas,	2013

## HORACIO MARTINEZ VALENCIA

5	Detección de fragmentos de la colisión de H <sub>2</sub> <sup>+</sup> en aire	Tesis de Maestría	BEATRIZ ELIZABETH FUENTES MADARIAGA,	HORACIO MARTINEZ VALENCIA, Corona Arroyo, Pedro,	Facultad de Ciencias, Instituto de Ciencias Físicas,	2011
6	Caracterización eléctrica y óptica de la descarga luminiscente de un plasma de N <sub>2</sub> O	Tesis de Maestría	HORACIO MARTINEZ VALENCIA,	Pérez Martínez, Roberto,	Instituto de Ciencias Físicas,	2009
7	Secciones eficaces absolutas de la captura disociativa del ion molecular H <sub>2</sub> <sup>+</sup> en Ar	Tesis de Maestría	HORACIO MARTINEZ VALENCIA,	Alarcón Hernández, Fidel Benjamín,		2006
8	Transferencia de carga en la colisión de iones N <sup>+</sup> en N <sub>2</sub>	Tesis de Licenciatura	HORACIO MARTINEZ VALENCIA,	Lara de Paz, Javier,		2005
9	Energía potencial del sistema ion-atomo obtenida a partir de datos experimentales	Tesis de Licenciatura	HORACIO MARTINEZ VALENCIA,	Perez Martinez, Roberto,		2003
10	Producción de iones de N <sub>2</sub> <sup>+</sup> por impacto de N <sup>+</sup> en Ne, Kr y Xe	Tesis de Licenciatura	HORACIO MARTINEZ VALENCIA,	Flores Fajardo, Nahiely,		2002
11	Sección transversal y umbral de energía de la producción de rayos x en colisiones ion-atomo	Tesis de Licenciatura	HORACIO MARTINEZ VALENCIA,	Alcantara Ortigoza, Marisol,		2001
12	Estudio de la formación de átomos de kriptón a partir de la colisión de Kr <sup>+</sup> en la Xe	Tesis de Maestría	HORACIO MARTINEZ VALENCIA,	Marquina Cruz, Eric Raul,		1998
13	Estudio de la disociación molecular del ion H <sub>3</sub> <sup>+</sup>	Tesis de Maestría	HORACIO MARTINEZ VALENCIA,	Reyes Romero, Pedro Guillermo,		1998
14	Estudio de la formación de H [menos], H [cero] y H [mas] a partir de la colisión de H [mas] y H <sub>2</sub> [mas] en Kr	Tesis de Doctorado	MARIA DEL CARMEN CISNEROS GUDIÑO,	HORACIO MARTINEZ VALENCIA, Fuentes Madariaga, Beatriz Elizabeth,		1998

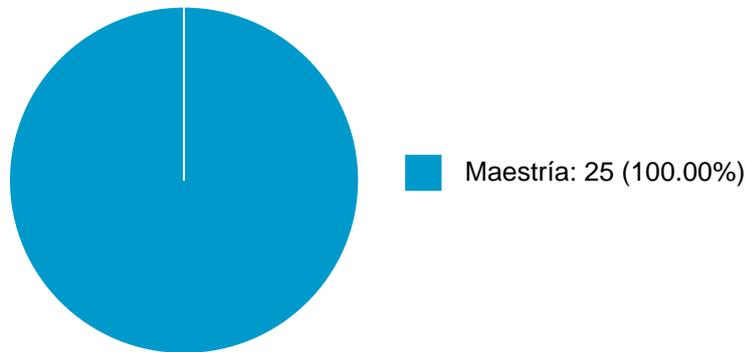
## HORACIO MARTINEZ VALENCIA

15	Interaccion de iones de Kr+ en helio	Tesis de Maestría	HORACIO MARTINEZ VALENCIA,	Hernandez Rodriguez, Juan Manuel,	1997
16	Captura de carga entre iones multiplemente cargados con especies neutras	Tesis de Licenciatura	HORACIO MARTINEZ VALENCIA,	Marquina Cruz, Eric Raul,	1994
17	Formacion de atomos de helio mediante la colision de He+ en SF6	Tesis de Licenciatura	HORACIO MARTINEZ VALENCIA,	García Flores, Sinhue,	1992
18	Estudio de los fragmentos de disociacion del H2+ en SF6	Tesis de Licenciatura	HORACIO MARTINEZ VALENCIA,	Tejeda Buenosaires, Alfredo,	1990

## HORACIO MARTINEZ VALENCIA

### DOCENCIA IMPARTIDA

#### Histórico de docencia



#	Nivel titulación	Asignatura	Entidad	Alumnos	Semestre
1	Maestría	ACTIVIDADES ACADÉMICAS ORIENTADAS A LA GRADUACIÓN	Facultad de Química	1	2021-2
2	Maestría	SESIÓN DE TUTORÍA III	Facultad de Química	1	2021-1
3	Maestría	SESIÓN DE TUTORÍA IV	Facultad de Química	1	2021-1
4	Maestría	TALLER DE INVESTIGACIÓN	Facultad de Química	1	2021-1
5	Maestría	TEMAS SELECTOS DE METALURGÍA TRATAMIENTOS SUPERFICIALES	Facultad de Química	2	2020-2
6	Maestría	ACTIVIDADES ACADÉMICAS ORIENTADAS A LA GRADUACIÓN	Facultad de Química	1	2020-2
7	Maestría	SESIÓN DE TUTORÍA II	Facultad de Química	1	2020-2
8	Maestría	PROYECTO DE INVESTIGACIÓN I	Facultad de Química	1	2020-2
9	Maestría	TALLER DE INVESTIGACIÓN	Facultad de Química	1	2020-1
10	Maestría	SESIÓN DE TUTORÍA III	Facultad de Química	1	2020-1
11	Maestría	SESIÓN DE TUTORÍA IV	Facultad de Química	1	2020-1
12	Maestría	MATEMÁTICAS APLICADAS	Facultad de Química	2	2020-1
13	Maestría	SEMINARIO DE INVESTIGACIÓN I	Facultad de Química	1	2020-1
14	Maestría	SESIÓN DE TUTORÍA I	Facultad de Química	1	2020-1
15	Maestría	PROYECTO DE INVESTIGACIÓN I	Facultad de Química	1	2019-2
16	Maestría	SESIÓN DE TUTORÍA II	Facultad de Química	1	2019-2
17	Maestría	MATEMÁTICAS APLICADAS	Facultad de Química	1	2019-1
18	Maestría	SEMINARIO DE INVESTIGACIÓN I	Facultad de Química	1	2019-1
19	Maestría	SESIÓN DE TUTORÍA I	Facultad de Química	1	2019-1
20	Maestría	MÉTODOS DE ELEMENTO FINITO	Facultad de Química	1	2015-1
21	Maestría	MÉTODOS DE ELEMENTO FINITO	Facultad de Química	4	2012-1



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



**HORACIO MARTINEZ VALENCIA**

22	Maestría	SEMINARIO DE INVESTIGACION II	Instituto de Ciencias Físicas	1	2012-1
23	Maestría	SEMINARIO DE INVESTIGACION I	Instituto de Ciencias Físicas	1	2011-2
24	Maestría	METODOS DE ELEMENTO FINITO	Facultad de Química	1	2011-2
25	Maestría	INTEGRACION PARA EL TRABAJO DE GRADO	Facultad de Ciencias	1	2011-1



## **HORACIO MARTINEZ VALENCIA**

### **PATENTES**

#	Título	Inventores	Sección	Año
1	DISPOSITIVO PARA MONITOREAR EN LINEA LA COMPOSICIÓN QUÍMICA DE LÍQUIDOS, BASADO EN LA TÉCNICA LIBS APLICADA A MUESTRAS LÍQUIDAS LEVITADAS ACÚSTICAMENTE.	HORACIO MARTINEZ VALENCIA, VICTOR ULISES LEV CONTRERAS LOERA,	ELECTRICITYPHYSICS	2022

## HORACIO MARTINEZ VALENCIA

### 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	2008-2024
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