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



REMIGIO CABRERA TRUJILLO

Datos Generales

Nombre: REMIGIO CABRERA TRUJILLO

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Nombramientos

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Desde 16-03-2020

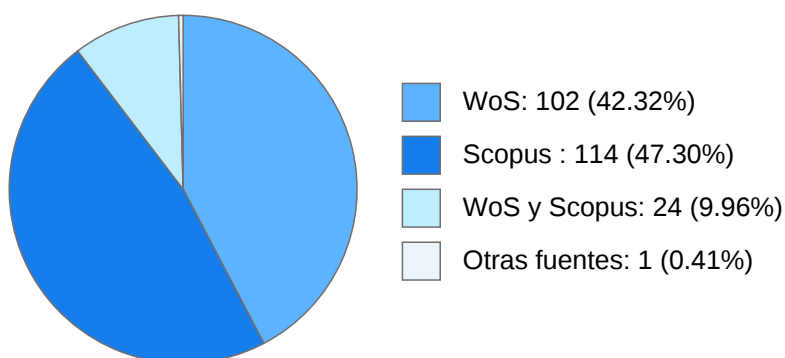
Estímulos, programas, premios y reconocimientos

SNI III 2020 - VIGENTE
SNI II 2011 - 2019
SNI I 2009 - 2010
PRIDE D 2011 - 2024
PRIDE C - 2011
PASPA Estancias Sabáticas 2019 - 2020

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DOCUMENTOS EN REVISTAS

Histórico de Documentos



#	Título	Autores	Revista	Año
1	Evolution from 3-D to 2-D of a confined hydrogen atom dipole dependent properties when compressed by two parallel planes	REMIGIO CABRERA TRUJILLO	PHYSICA SCRIPTA	2025
2	Electronic energy levels and wave-functions evolution from 3-D to 2-D of a hydrogen atom confined by two parallel planes	REMIGIO CABRERA TRUJILLO	PHYSICA SCRIPTA	2024
3	On the wavefunction cutoff factors of atomic hydrogen confined by an impenetrable spherical cavity	REMIGIO CABRERA TRUJILLO Roberto Reyes-García Salvador A. Cruz	INTERNATIONAL JOURNAL OF QUANTUM CHEMISTRY	2024
4	Heisenberg's uncertainty relations for a hydrogen atom confined by an impenetrable spherical cavity	REMIGIO CABRERA TRUJILLO Reyes-García R. Cruz S.A.	PHYSICAL REVIEW A	2024
5	Ionization, excitation, protonium formation, and energy loss of antiprotons colliding with atomic hydrogen	REMIGIO CABRERA TRUJILLO Roman C.E.D.L.C. Teran-Cisneros C.E.	PHYSICAL REVIEW A	2023

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6	Molecular electronic stopping cross section for H and He beams colliding with water: projectile charge state contribution	REMIGIO CABRERA TRUJILLO	PHYSICA SCRIPTA	2023
7	Dipole-induced processes in HeH ⁺ produced by an excited Li(2p) neighbor: From charge transfer to virtual photon dissociation, and formation of LiH and LiHe	REMIGIO CABRERA TRUJILLO Vendrell O. Cederbaum L.S.	PHYSICAL REVIEW A	2022
8	Mean total and orbital excitation energies of atomic ions in two approaches of the Thomas-Fermi theory	REMIGIO CABRERA TRUJILLO Cruz S.A.	Advances in Quantum Chemistry	2022
9	Electronic stopping from orbital mean excitation energies including both projectile and target electronic structure	REMIGIO CABRERA TRUJILLO Oddershede J.	Advances in Quantum Chemistry	2022
10	Theoretical study of the formation of C ₁₈ H and C ₁₈ H ₂ molecules by low energy irradiation with atomic and molecular hydrogen	FRANCISCO JAVIER DOMINGUEZ GUTIERREZ REMIGIO CABRERA TRUJILLO C. Martínez-Flores et al.	RADIATION PHYSICS AND CHEMISTRY	2021
11	Confinement of an ultra-cold-matter wave packet near the delocalization threshold by a waveguide bend with two or more contact impurities	RICARDO MENDEZ FRAGOSO REMIGIO CABRERA TRUJILLO	EUROPEAN PHYSICAL JOURNAL D	2021
12	Analytical expression for the electronic stopping cross section of atomic gas targets for hydrogen projectiles	REMIGIO CABRERA TRUJILLO Trujillo@icf.unam.mx	PHYSICAL REVIEW A	2021
13	Dipole and generalized oscillator strengths-dependent electronic properties of helium atoms immersed in a plasma	REMIGIO CABRERA TRUJILLO Martínez-Flores C.	EUROPEAN PHYSICAL JOURNAL D	2021
14	Ionization of many-electron atoms by the action of two plasma models	REMIGIO CABRERA TRUJILLO Martínez-Sánchez M.-A. Martínez-Flores C. et al.	PHYSICAL REVIEW E	2021
15	On the virial theorem for a particle in a box: Accounting for Cauchy's boundary condition	REMIGIO CABRERA TRUJILLO O. Vendrell	AMERICAN JOURNAL OF PHYSICS	2020
16	Rotational and vibrational effects on the energy loss of hydrogen colliding on glycine at low irradiation energies	FRANCISCO JAVIER DOMINGUEZ GUTIERREZ REMIGIO CABRERA TRUJILLO Martínez-Flores C.	RADIATION PHYSICS AND CHEMISTRY	2020
17	High pressure effects on the excitation spectra and dipole properties of Li, Be ⁺ , and B ₂ ⁺ atoms under confinement	REMIGIO CABRERA TRUJILLO Martínez-Flores C.	Matter And Radiation At Extremes	2020

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18	Acceptance-angle effects on the charge transfer and energy-loss cross sections for collisions of C4+ with atomic hydrogen	REMIGIO CABRERA TRUJILLO H. Bruhns D. W. Savin	PHYSICAL REVIEW A	2020
19	A fully manipulable damped driven harmonic oscillator using optical levitation	JAVIER TELLO MARMOLEJO REMIGIO CABRERA TRUJILLO Oscar Isaksson et al.	AMERICAN JOURNAL OF PHYSICS	2020
20	Calculation of the electronic, nuclear, rotational, and vibrational stopping cross sections for H atoms irradiation on H-2, N-2 and O-2 gas targets at low collision energies	REMIGIO CABRERA TRUJILLO A. G. El Hachimi	JOURNAL OF PHYSICS B-ATOMIC MOLECULAR AND OPTICAL PHYSICS	2020
21	Interatomic Coulombic decay of a Li dimer in a coupled electron and nuclear dynamics approach	REMIGIO CABRERA TRUJILLO O. Vendrell L. S. Cederbaum	PHYSICAL REVIEW A	2020
22	Visualization of spherical aberration using an optically levitated droplet as a light source	REMIGIO CABRERA TRUJILLO Javier Tello Marmolejo Benjamin Bjornsson et al.	OPTICS EXPRESS	2020
23	Bound and continuum state contributions to dipole oscillator strength sum rules: Total and orbital mean excitation energies for cations of C, F, Si, and Cl	REMIGIO CABRERA TRUJILLO Sauer S.P.A. Sabin J.R. et al.	Advances in Quantum Chemistry	2019
24	Electronic stopping cross section for protons incident on biological and biomedical materials within a FSGO quantum chemistry description	REMIGIO CABRERA TRUJILLO Trujillo-López L.N.	RADIATION PHYSICS AND CHEMISTRY	2019
25	Bond rearrangement during Coulomb explosion of water molecules	REMIGIO CABRERA TRUJILLO Leonard M. Sayler A.M. et al.	PHYSICAL REVIEW A	2019
26	Molecular dynamics simulations for hydrogen adsorption in low energy collisions with carbon and boron-nitride nanotubes	FRANCISCO JAVIER DOMINGUEZ GUTIERREZ REMIGIO CABRERA TRUJILLO Martínez-Flores C.	JOURNAL OF APPLIED PHYSICS	2019
27	Dipole sum rules of a hydrogen atom in a Debye-Hückel plasma	REMIGIO CABRERA TRUJILLO Martínez-Flores C.	EUROPEAN PHYSICAL JOURNAL D	2019
28	Derived properties from the dipole and generalized oscillator strength distributions of an endohedral confined hydrogen atom	REMIGIO CABRERA TRUJILLO C. Martinez-Flores	JOURNAL OF PHYSICS B-ATOMIC MOLECULAR AND OPTICAL PHYSICS	2018

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29	Dipole Sum Rules of an Endohedral Confined Hydrogen Atom: Effects of the Cavity Discontinuity	REMIGIO CABRERA TRUJILLO Oddershede J.	Advances in Quantum Chemistry	2018
30	Low-energy hydrogen uptake by small-cage C-n and Cn-1B fullerenes	FRANCISCO JAVIER DOMINGUEZ GUTIERREZ REMIGIO CABRERA TRUJILLO Krstic P.S. et al.	Carbon	2018
31	Effects of the s- and p-orbital target symmetry on the generalized oscillator strength and its role on the electronic stopping cross-section: preliminary results within a harmonic oscillator approach	REMIGIO CABRERA TRUJILLO Martínez-Flores C.	RADIATION EFFECTS AND DEFECTS IN SOLIDS	2018
32	Dipole and generalized oscillator strength derived electronic properties of an endohedral hydrogen atom embedded in a Debye-Hückel plasma	REMIGIO CABRERA TRUJILLO Martínez-Flores C.	Matter And Radiation At Extremes	2018
33	Lindhard's polarization parameter and atomic sum rules in the local plasma approximation: a case for excited states	REMIGIO CABRERA TRUJILLO Apell, P. Oddershede, J. et al.	RADIATION EFFECTS AND DEFECTS IN SOLIDS	2017
34	Pressure effects on the dipole oscillator strength, polarizability, and mean excitation energy of a hydrogen impurity under cylindrical confinement: off-center axis effect	REMIGIO CABRERA TRUJILLO RICARDO MENDEZ FRAGOSO Cruz, S. A.	JOURNAL OF PHYSICS B-ATOMIC MOLECULAR AND OPTICAL PHYSICS	2017
35	Sum rules and the role of pressure on the excitation spectrum of a confined hydrogen atom by a spherical cavity	REMIGIO CABRERA TRUJILLO	JOURNAL OF PHYSICS B-ATOMIC MOLECULAR AND OPTICAL PHYSICS	2017
36	Many-electron atom confinement by a penetrable planar boundary	REMIGIO CABRERA TRUJILLO Cruz, S. A. Diaz-Garcia, C. et al.	RADIATION EFFECTS AND DEFECTS IN SOLIDS	2016
37	On the universal scaling in the electronic stopping cross section for heavy ion projectiles	REMIGIO CABRERA TRUJILLO LAURA NATALIA SERKOVIC LOLI Martinez-Flores, C. et al.	RADIATION EFFECTS AND DEFECTS IN SOLIDS	2016

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38	Single electron capture cross sections for protons colliding with neon and methane targets: Effects of the initial vibrational state of CH ₄	REMIGIO CABRERA TRUJILLO EDNA MAGDALENA HERNANDEZ GONZALEZ GUILLERMO GUADALUPE HINOJOSA AGUIRRE et al.	JOURNAL OF PHYSICS B-ATOMIC MOLECULAR AND OPTICAL PHYSICS	2016
39	Preface	REMIGIO CABRERA TRUJILLO Sabin J.R.	Advances in Quantum Chemistry	2016
40	Confinement effects on the electron transfer cross section: A study of He ²⁺ colliding on atomic H	REMIGIO CABRERA TRUJILLO	JOURNAL OF PHYSICS B-ATOMIC MOLECULAR AND OPTICAL PHYSICS	2016
41	Preface	REMIGIO CABRERA TRUJILLO Sabin J.R.	Advances in Quantum Chemistry	2015
42	Total and state-to-state electron capture and excitation cross-sections for Li ⁺ , Be ²⁺ and B ³⁺ colliding with H (1s) at low-to-intermediate energies	REMIGIO CABRERA TRUJILLO Domínguez-Gutiérrez F.J.	JOURNAL OF PHYSICS B-ATOMIC MOLECULAR AND OPTICAL PHYSICS	2015
43	Energy-level structure of the hydrogen atom confined by a penetrable cylindrical cavity	REMIGIO CABRERA TRUJILLO RICARDO MENDEZ FRAGOSO Cruz S.A.	JOURNAL OF PHYSICS B-ATOMIC MOLECULAR AND OPTICAL PHYSICS	2015
44	Large increase in the electron capture and excitation cross sections for Li ⁺ colliding with atomic H under UV laser assistance	FRANCISCO JAVIER DOMINGUEZ GUTIERREZ REMIGIO CABRERA TRUJILLO	JOURNAL OF PHYSICS B-ATOMIC MOLECULAR AND OPTICAL PHYSICS	2015
45	Confinement effects on an ultra-cold matter wave-packet by a square well impurity near the de-localization threshold: Analytic solutions, scaling, and width properties	RICARDO MENDEZ FRAGOSO REMIGIO CABRERA TRUJILLO	EUROPEAN PHYSICAL JOURNAL D	2015

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46	FRANK E. HARRIS: A NAME TO BE RECKONED WITH! PREFACE	REMIGIO CABRERA TRUJILLO Sabin, John R.	Advances in Quantum Chemistry	2015
47	On a Hyperbolic Solution to the Nonlinear Schrödinger Equation for a Square Well Potential Coupled to a Contact Impurity at the Delocalization Threshold	RICARDO MENDEZ FRAGOSO REMIGIO CABRERA TRUJILLO	Advances in Quantum Chemistry	2015
48	Multiresolution Approach for Laser-Modified Collisions of Atoms and Ions	Fco. Javier DominguezGutierrez REMIGIO CABRERA TRUJILLO Krstic, Predrag S.	Advances in Quantum Chemistry	2015
49	Comparison of laser-assisted charge transfer of symmetric and asymmetric colliding systems	REMIGIO CABRERA TRUJILLO Domínguez-Gutiérrez F.J.	4TH EUROPEAN SYMPOSIUM ON FIRE SAFETY SCIENCE	2014
50	Accurate evaluation of pressure effects on the electronic stopping cross section and mean excitation energy of atomic hydrogen beyond the Bethe approximation	REMIGIO CABRERA TRUJILLO Cruz, S. A.	NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION B-BEAM INTERACTIONS WITH MATERIALS AND ATOMS	2014
51	Pulse duration effects on laser-assisted electron transfer cross section for He ²⁺ ions colliding with atomic hydrogen	FRANCISCO JAVIER DOMINGUEZ GUTIERREZ REMIGIO CABRERA TRUJILLO	EUROPEAN PHYSICAL JOURNAL D	2014
52	Confinement approach to pressure effects on the dipole and the generalized oscillator strength of atomic hydrogen	REMIGIO CABRERA TRUJILLO Cruz, S. A.	PHYSICAL REVIEW A	2013
53	Universal scaling behavior of molecular electronic stopping cross section for protons colliding with small molecules and nucleobases	L. N. Trujillo Lopez C. Martinez Flores REMIGIO CABRERA TRUJILLO	NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION B-BEAM INTERACTIONS WITH MATERIALS AND ATOMS	2013

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54	Numerical study of laser-assisted transmission and reflection coefficients of a wave packet by an attractive impurity	REMIGIO CABRERA TRUJILLO FRANCISCO JAVIER DOMINGUEZ GUTIERREZ	RADIATION EFFECTS AND DEFECTS IN SOLIDS	2012
55	Isotope effect for associative detachment: $H(D)(-)+H(D) \rightarrow H-2(D-2)+e(-)$	REMIGIO CABRERA TRUJILLO Miller, K. A. Bruhns, H. et al.	PHYSICAL REVIEW A	2012
56	Mass scaling laws due to isotopic effects in the energy loss of $He2+$ colliding with H, D, and T	REMIGIO CABRERA TRUJILLO Sabin, J. R. Oehrn, Y. et al.	PHYSICAL REVIEW A	2011
57	Protonium formation in collisions of antiprotons with atomic and molecular hydrogen: a semiclassical study	REMIGIO CABRERA TRUJILLO Esry, B. D.	RADIATION EFFECTS AND DEFECTS IN SOLIDS	2011
58	Hydrogen and helium charge exchange collisions at kiloelectronvolt energies: an electron-nuclear dynamics review	REMIGIO CABRERA TRUJILLO	PLASMA SOURCES SCIENCE & TECHNOLOGY	2010
59	Isotope effects on the charge transfer into the $n=1, 2$, and 3 shells of $He2+$ in collisions with H, D, and T	REMIGIO CABRERA TRUJILLO Stolterfoht, N. Krstic, P. S. et al.	PHYSICAL REVIEW A	2010
60	Electron-capture cross sections for $Li+$ colliding on H and H-2 in the low-keV energy region	REMIGIO CABRERA TRUJILLO IGNACIO ALVAREZ TORRES MARIA DEL CARMEN CISNEROS GUDIÑO et al.	PHYSICAL REVIEW A	2010
61	Stopping power of molecules for fast ions	REMIGIO CABRERA TRUJILLO Sabin, John R. Oddershede, Jens et al.	MOLECULAR PHYSICS	2010
62	Differential, state-to-state, and total-charge-transfer cross sections for $H+$ colliding with Ar	REMIGIO CABRERA TRUJILLO ALEJANDRO AMAYA TAPIA ARMANDO ANTILLON DIAZ	PHYSICAL REVIEW A	2009
63	Fragmentation of water on swift $He-3(2+)$ ion impact	REMIGIO CABRERA TRUJILLO Sabin, John R. Stolterfoht, Nikolaus et al.	NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION B-BEAM INTERACTIONS WITH MATERIALS AND ATOMS	2009
64	Laser and isotope effects in charge transfer processes in atomic collisions	REMIGIO CABRERA TRUJILLO	RADIATION EFFECTS AND DEFECTS IN SOLIDS	2009

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65	Stueckelberg Oscillations in the Charge Transfer into the $n=2$ and $n=3$ Shells of He^{2+} on Collision With H	REMIGIO CABRERA TRUJILLO Stolterfoht, N. Krstic, P. S. et al.	INTERNATIONAL JOURNAL OF QUANTUM CHEMISTRY	2009
66	Double electron capture cross-sections by protons in collisions with He	OLMO GONZALEZ MAGAÑA REMIGIO CABRERA TRUJILLO GUILLERMO GUADALUPE HINOJOSA AGUIRRE et al.	RADIATION EFFECTS AND DEFECTS IN SOLIDS	2009
67	Differential, partial and total electron capture cross sections in p-Ar collisions	ALEJANDRO AMAYA TAPIA ARMANDO ANTILLON DIAZ REMIGIO CABRERA TRUJILLO et al.	4TH EUROPEAN SYMPOSIUM ON FIRE SAFETY SCIENCE	2009
68	Cross sections for $\text{H}(+)$ and H atoms colliding with Li in the low-keV-energy region	REMIGIO CABRERA TRUJILLO Sabin, John R. Deumens, E. et al.	PHYSICAL REVIEW A	2008
69	Ground-state energy shift of He close to a surface and its relation with the scattering potential: A confinement model	EUGENIO LEY KOO REMIGIO CABRERA TRUJILLO Cruz, S. A.	PHYSICAL REVIEW A	2008
70	Collision-induced fragmentation cross sections of $\text{CO}(2)$	OLMO GONZALEZ MAGAÑA REMIGIO CABRERA TRUJILLO GUILLERMO GUADALUPE HINOJOSA AGUIRRE	PHYSICAL REVIEW A	2008
71	Charge Exchange and Fragmentation in Slow Collisions of He^{2+} with Water Molecules	REMIGIO CABRERA TRUJILLO Stolterfoht N. Hellhammer R. et al.	Advances in Quantum Chemistry	2007
72	Theoretical investigation of energy deposition and electron capture cross-sections for helium ion impact on formaldehyde	REMIGIO CABRERA TRUJILLO Sabin J.R. Deumens E. et al.	NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION B-BEAM INTERACTIONS WITH MATERIALS AND ATOMS	2007
73	Water-molecule fragmentation induced by charge exchange in slow collisions with He^+ and He^{2+} ions in the keV-energy region	REMIGIO CABRERA TRUJILLO Deumens E. Öhrn Y. et al.	PHYSICAL REVIEW A	2007

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74	First international meeting on recent developments in the study of radiation effects in matter: A Festschrift dedicated to Lewis T. Chadderton upon his fifty years in physics	REMIGIO CABRERA TRUJILLO MARIA DEL CARMEN CISNEROS GUDIÑO Cruz S.A. et al.	RADIATION EFFECTS AND DEFECTS IN SOLIDS	2007
75	Strong isotope effects on the charge transfer in slow collisions of He 2+ with atomic hydrogen, deuterium, and tritium	REMIGIO CABRERA TRUJILLO Stolterfoht N. Öhrn Y. et al.	PHYSICAL REVIEW LETTERS	2007
76	Cross sections for C+ and O+ production in the collision of CO+ 2 ions with atomic He	GUILLERMO GUADALUPE HINOJOSA AGUIRRE REMIGIO CABRERA TRUJILLO González O. et al.	AIP Conference Proceedings	2007
77	Ground state energy shift of He and He+ close to a surface: A confinement model	EUGENIO LEY KOO REMIGIO CABRERA TRUJILLO Cruz S.A.	AIP Conference Proceedings	2007
78	Enormous isotope effects on charge transfer in slow collisions of He 2+ with H, D, and T	REMIGIO CABRERA TRUJILLO Stolterfoht N. Öhrn Y. et al.	AIP Conference Proceedings	2007
79	Preference for breaking the O-H bond over the O-D bond following HDO ionization by fast ions	REMIGIO CABRERA TRUJILLO Sayler A.M. Leonard M. et al.	JOURNAL OF PHYSICS B-ATOMIC MOLECULAR AND OPTICAL PHYSICS	2006
80	Laser-assisted charge transfer in He2+ +H collisions	REMIGIO CABRERA TRUJILLO Anis F. Roudnev V. et al.	PHYSICAL REVIEW A	2006
81	From the Orbital Implementation of the Kinetic Theory to the Polarization Propagator Method in the Study of Energy Deposition Problems	REMIGIO CABRERA TRUJILLO JACQUES ANDRE CLAUDE SOULLARD SAINTRAIS Cruz S.A.	Advances in Quantum Chemistry	2005
82	Comparison of shell corrections in the Bohr and Bethe formulations of stopping power	REMIGIO CABRERA TRUJILLO Oddershede J. Sabin J.R.	NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION B-BEAM INTERACTIONS WITH MATERIALS AND ATOMS	2005
83	Stopping of swift antiprotons by hydrogen atoms and the Barkas correction	REMIGIO CABRERA TRUJILLO Sabin J.R. Öhm Y. et al.	PHYSICAL REVIEW A	2005

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84	Prediction of the energy dependence of molecular fragmentation cross sections for collisions of swift protons with ethane and acetylene	REMIGIO CABRERA TRUJILLO Sabin J.R. Deumens E. et al.	PHYSICAL REVIEW A	2005
85	Orientalional Effects in Energy Deposition by Protons in Water	REMIGIO CABRERA TRUJILLO Sabin J.R. Deumens E. et al.	Advances in Quantum Chemistry	2005
86	Molecular Stopping Powers from the Target Oscillator Strength Distribution	REMIGIO CABRERA TRUJILLO Sabin J.R. Oddershede J.	Advances in Quantum Chemistry	2004
87	Calculation of Cross Sections in Electron-Nuclear Dynamics	REMIGIO CABRERA TRUJILLO Sabin J.R. Deumens E. et al.	Advances in Quantum Chemistry	2004
88	Dynamical Processes in Stopping Cross Sections	REMIGIO CABRERA TRUJILLO Sabin J.R. Deumens E. et al.	Advances in Quantum Chemistry	2004
89	Application of the END theory to the H + D ₂ ? HD + D reaction	REMIGIO CABRERA TRUJILLO Öhrn Y. Deumens E. et al.	JOURNAL OF PHYSICAL CHEMISTRY A	2004
90	Absolute differential and total cross sections for direct and charge-transfer scattering of keV protons by O ₂	REMIGIO CABRERA TRUJILLO Öhrn Y. Deumens E. et al.	PHYSICAL REVIEW A	2004
91	Resonant charge transfer between H ⁺ and H from 1 to 5000 eV	REMIGIO CABRERA TRUJILLO Killian B.J. Deumens E. et al.	JOURNAL OF PHYSICS B-ATOMIC MOLECULAR AND OPTICAL PHYSICS	2004
92	The Theory and Computation of Energy Deposition Properties	REMIGIO CABRERA TRUJILLO Sabin J.R.	Advances in Quantum Chemistry	2004
93	Case for projectile kinetic energy gain in stopping power studies	REMIGIO CABRERA TRUJILLO Sabin J.R. Öhrn Y. et al.	INTERNATIONAL JOURNAL OF QUANTUM CHEMISTRY	2003
94	Energy loss studies of protons colliding with ethane: Preliminary results	REMIGIO CABRERA TRUJILLO Sabin J.R. Öhrn Y. et al.	JOURNAL OF ELECTRON SPECTROSCOPY AND RELATED PHENOMENA	2003
95	Explanation of the observed trend in the mean excitation energy of a target as determined using several projectiles	REMIGIO CABRERA TRUJILLO Sabin J.R. Oddershede J.	PHYSICAL REVIEW A	2003

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96	Explanation of the observed trend in the mean excitation energy of a target as determined using several projectiles	REMIGIO CABRERA TRUJILLO Sabin J.R. Oddershede J.	PHYSICAL REVIEW A	2003
97	Theoretical and experimental studies of the [Formula Presented] system: Differential cross sections for direct and charge-transfer scattering at kilo-electron-volt energies	REMIGIO CABRERA TRUJILLO Öhrn Y. Deumens E. et al.	PHYSICAL REVIEW A	2002
98	Dynamics of proton-acetylene collisions at 30 eV	REMIGIO CABRERA TRUJILLO Malinovskaya S.A. Sabin J.R. et al.	JOURNAL OF CHEMICAL PHYSICS	2002
99	Stopping cross sections for N4+ ?H at low projectile velocity	REMIGIO CABRERA TRUJILLO Sabin J.R. Deumens E. et al.	PHYSICAL REVIEW A	2002
100	Molecular target and projectile angular scattering effects in stopping power and charge exchange at low-to-intermediate projectile energies	REMIGIO CABRERA TRUJILLO Öhrn Y. Sabin J.R. et al.	PHYSICAL REVIEW A	2002
101	Theoretical and experimental studies of the H+-N2 system: Differential cross sections for direct and charge-transfer scattering at kilo-electron-volt energies	REMIGIO CABRERA TRUJILLO Öhrn Y. Deumens E. et al.	PHYSICAL REVIEW A	2002
102	Trajectory and molecular binding effects in stopping cross section for hydrogen beams on H2	REMIGIO CABRERA TRUJILLO Öhrn Y. Deumens E. et al.	JOURNAL OF CHEMICAL PHYSICS	2002
103	Effect of shape on molecular directional Compton profiles	REMIGIO CABRERA TRUJILLO Apell S.P. Oddershede J. et al.	JOURNAL OF MOLECULAR STRUCTURE-THE OCHEM	2000
104	Charge Exchange and Threshold Effect in the Energy Loss of Slow Projectiles	REMIGIO CABRERA TRUJILLO Sabin J.R. Öhrn Y. et al.	PHYSICAL REVIEW LETTERS	2000
105	Stopping cross section in the low- to intermediate-energy range: Study of proton and hydrogen atom collisions with atomic N, O, and F	REMIGIO CABRERA TRUJILLO Öhrn Y. Deumens E. et al.	PHYSICAL REVIEW A	2000
106	Direct differential-cross-section calculations for ion-atom and atom-atom collisions in the keV range	REMIGIO CABRERA TRUJILLO Sabin J.R. Öhrn Y. et al.	PHYSICAL REVIEW A	2000

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107	Impact parameter dependence of electronic and nuclear energy loss of swift ions: $H+He$ and $H+H$	REMIGIO CABRERA TRUJILLO Deumens E. Öhrn Y. et al.	NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION B-BEAM INTERACTIONS WITH MATERIALS AND ATOMS	2000
108	Projectile isotope effects on electronic stopping power: Harmonic Oscillator approach	REMIGIO CABRERA TRUJILLO	NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION B-BEAM INTERACTIONS WITH MATERIALS AND ATOMS	1999
109	The Bethe Sum Rule and Basis Set Selection in the Calculation of Generalized Oscillator Strengths	REMIGIO CABRERA TRUJILLO Sabin J.R. Oddershede J. et al.	Advances in Quantum Chemistry	1999
110	Stopping power in the independent-particle model: Harmonic oscillator results	REMIGIO CABRERA TRUJILLO	PHYSICAL REVIEW A	1999
111	Oscillator strength sum rules with an external electromagnetic field	REMIGIO CABRERA TRUJILLO Sabin J.R. Öhrn Y. et al.	PHYSICAL REVIEW A	1998
112	Bethe theory of stopping incorporating electronic excitations of partially stripped projectiles	REMIGIO CABRERA TRUJILLO Cruz S.A. Oddershede J. et al.	PHYSICAL REVIEW A	1997
113	Bond stopping cross sections for protons incident on molecular targets within the OLPA/FSGO implementation of the kinetic theory	REMIGIO CABRERA TRUJILLO JACQUES ANDRE CLAUDE SOULLARD SAINTRAIS Cruz S.A.	NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION B-BEAM INTERACTIONS WITH MATERIALS AND ATOMS	1994

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114	Firsov approach to chemical bond effects on the low-energy electronic stopping power of heavy ions	JACQUES ANDRE CLAUDE SOULLARD SAINTRAIS REMIGIO CABRERA TRUJILLO Cruz S.A.	NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION B-BEAM INTERACTIONS WITH MATERIALS AND ATOMS	1993
115	Chemical bond effects on the low-energy electronic stopping power of Li and He ions on saturated alcohols, ethers and amines	JACQUES ANDRE CLAUDE SOULLARD SAINTRAIS REMIGIO CABRERA TRUJILLO Cruz S.A.	NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION B-BEAM INTERACTIONS WITH MATERIALS AND ATOMS	1993

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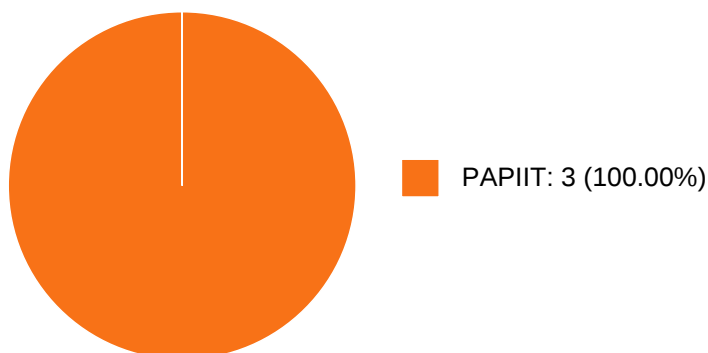


#	Título	Autores	Alcance	Año	ISBN
1	La Física Atómica, Molecular y Óptica en México	IGNACIO ALVAREZ TORRES REMIGIO CABRERA TRUJILLO MARIA DEL CARMEN CISNEROS GUDIÑO et al.	Capítulo de un Libro	2016	9786079745509
2	Lasers in Atomic Collisions, Cold Plasma and Cold Atom Physics	REMIGIO CABRERA TRUJILLO JOSE IGNACIO JIMENEZ MIER Y TERAN ANTONIO MARCELO JUAREZ REYES	Capítulo de un Libro	2011	9789533077697

REMIGIO CABRERA TRUJILLO

PARTICIPACIÓN EN PROYECTOS

Histórico de participación en proyectos

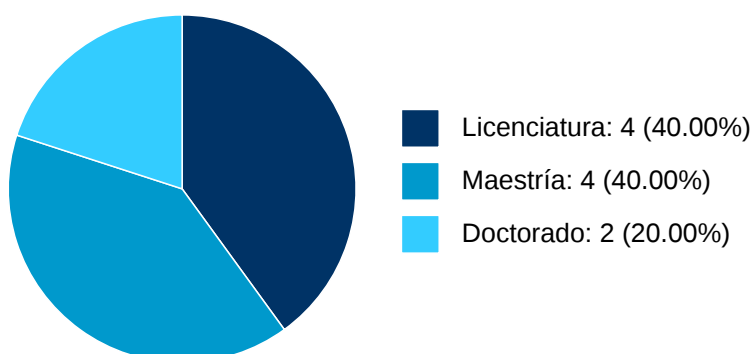


#	Nombre	Participantes	Fuente	Fecha inicio	Fecha fin
1	Fotoionización, dinámica molecular y pérdida de energía de sistemas cuánticos confinados	REMIGIO CABRERA TRUJILLO	Recursos PAPIIT	01-01-2017	31-12-2019
2	Dinámica molecular y pérdida de energía de sistemas cuánticos confinados mediante END y TDHF.	REMIGIO CABRERA TRUJILLO	Recursos PAPIIT	01-01-2020	31-12-2022
3	Sistemas cuánticos confinados y dinámica electrón-núcleo	REMIGIO CABRERA TRUJILLO	Recursos PAPIIT	01-01-2023	31-12-2025

REMIGIO CABRERA TRUJILLO

PARTICIPACIÓN EN TESIS

Histórico de Colaboraciones en Tesis



#	Título del documento	Tipo de Tesis	Sinodales	Autores	Entidad	Año
1	Construction and application of a neutral particle detector for experiments on spectroscopy of negative ions	Tesis de Licenciatura	REMIGIO CABRERA TRUJILLO,	Morales Rodríguez, Andrea,	Instituto de Ciencias Físicas,	2024
2	Optical levitation of micron-sized liquids and solids : electric field characterization and measurement, charge quantization and dumbbells	Tesis de Licenciatura	REMIGIO CABRERA TRUJILLO,	Urquiza González, Mitzi Valeria,	Instituto de Ciencias Físicas,	2021
3	Photodetachment experiments on As ⁻ , Au ⁻ and Ag ⁻ experimental procedure to measure cross sections and electron affinities	Tesis de Licenciatura	REMIGIO CABRERA TRUJILLO,	Cruz Pérez, Denisse,	Instituto de Ciencias Físicas,	2021
4	Optical levitation of droplets whispering gallery modes, harmonic resonance and charge quantization	Tesis de Licenciatura	REMIGIO CABRERA TRUJILLO,	Tello Marmolejo, Javier,	Instituto de Ciencias Físicas,	2019

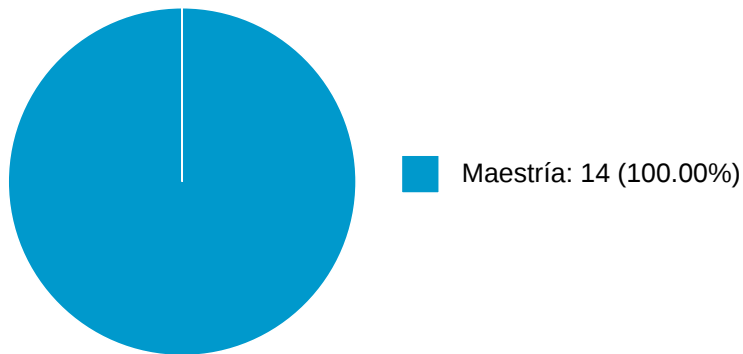
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5	Dipole and generalized oscillator strength dependent properties of free and at extreme conditions systems with applications to material damage	Tesis de Doctorado	REMIGIO CABRERA TRUJILLO,	Martínez Flores, César,	Instituto de Ciencias Físicas,	2018
6	Soliton dynamics : a 1d bec study complemented by an optically levitated droplets experiment	Tesis de Maestría	REMIGIO CABRERA TRUJILLO,	Monroy Villa, Ricardo,	Instituto de Ciencias Físicas,	2017
7	Estudio del proceso de captura electrónica asistida por un pulso láser ultra-rápido e intenso en colisiones ión-átomo	Tesis de Doctorado	REMIGIO CABRERA TRUJILLO,	Domínguez Gutiérrez, Francisco Javier,	Instituto de Ciencias Físicas,	2015
8	Efecto de la simetría del estado base en el poder de frenamiento electrónico y ley de escalamiento	Tesis de Maestría	REMIGIO CABRERA TRUJILLO,	Martínez Flores, César,	Instituto de Ciencias Físicas,	2014
9	Estudio del poder de frenamiento electrónico en moléculas simples y compuestos orgánicos	Tesis de Maestría	REMIGIO CABRERA TRUJILLO,	Trujillo López, Luisa Natalia,	Instituto de Ciencias Físicas,	2014
10	Colisiones atómicas asistidas por láser	Tesis de Maestría	REMIGIO CABRERA TRUJILLO,	Domínguez Gutiérrez, Francisco Javier,	Instituto de Ciencias Físicas,	2010

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DOCENCIA IMPARTIDA

Histórico de docencia



#	Nivel titulación	Asignatura	Entidad	Alumnos	Semestre
1	Maestría	SEMINARIO DE INVESTIGACIÓN II	Instituto de Ciencias Físicas	1	2024-2
2	Maestría	SEMINARIO DE INVESTIGACIÓN I	Instituto de Ciencias Físicas	1	2024-1
3	Maestría	FUNDAMENTOS DE ESPECTROSCOPÍA ATÓMICA, MOLECULAR Y SUS APLICACIONES(FIS.CUÁNTICA,ATÓM. Y MOLEC)	Instituto de Ciencias Físicas	2	2024-1
4	Maestría	FÍSICA ATÓMICA I (FÍSICA CUÁNTICA, ATÓMICA Y MOLECULAR)	Instituto de Ciencias Físicas	7	2023-2
5	Maestría	SEMINARIO DE INVESTIGACIÓN II	Instituto de Ciencias Físicas	1	2017-2
6	Maestría	SEMINARIO DE INVESTIGACION I-394288	Instituto de Ciencias Físicas	1	2017-1
7	Maestría	MECANICA CUANTICA II-394328	Instituto de Ciencias Físicas	2	2017-1
8	Maestría	MECANICA CUANTICA I	Instituto de Ciencias Físicas	2	2016-2
9	Maestría	SEMINARIO DE INVESTIGACION II	Instituto de Ciencias Físicas	2	2013-2
10	Maestría	SEMINARIO DE INVESTIGACION I	Instituto de Ciencias Físicas	2	2013-1
11	Maestría	MECANICA CUANTICA I	Instituto de Ciencias Físicas	4	2012-2



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



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12	Maestría	SEMINARIO DE INVESTIGACION II	Instituto de Ciencias Físicas	1	2010-2
13	Maestría	INTRODUCCION A LA FISICA COMPUTACIONAL	Instituto de Ciencias Físicas	1	2009-2
14	Maestría	FISICA MOLECULAR	Instituto de Ciencias Físicas	1	2008-1



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



REMIGIO CABRERA TRUJILLO

PATENTES

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

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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