



MARIANO LOPEZ DE HARO

Datos Generales

Nombre: MARIANO LOPEZ DE HARO

Máximo nivel de estudios: DOCTORADO

Antigüedad académica en la UNAM: 46 años

Nombramientos

Vigente: INVESTIGADOR TITULAR C TC Definitivo
Instituto de Energías Renovables
Desde 01-03-2013

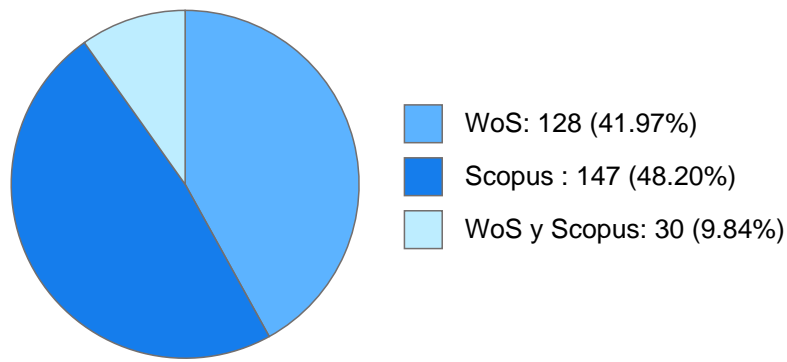
Estímulos, programas, premios y reconocimientos

SNI Emérito 2022 - VIGENTE
SNI III - 2021
PRIDE D - VIGENTE
RDUNJA Investigación en ciencias exactas 1992

MARIANO LOPEZ DE HARO

DOCUMENTOS EN REVISTAS

Histórico de Documentos



| # | Título | Autores | Revista | Año |
|---|---|---|--|------|
| 1 | A heuristic approach for the densest packing fraction of hard-sphere mixtures | MARIANO LOPEZ DE HARO Santos A. | PHYSICA A-STATISTICAL MECHANICS AND ITS APPLICATIONS | 2023 |
| 2 | Liquid-vapor equilibrium and critical point of parabolic-well fluids of variable width derived from Gibbs Ensemble Monte Carlo simulation | MARIANO LOPEZ DE HARO Rodríguez-Rivas Á. | JOURNAL OF MOLECULAR LIQUIDS | 2023 |
| 3 | Minimum entropy production in inhomogeneous thermoelectric materials | MARIANO LOPEZ DE HARO R. E. Gonzalez-Narvaez F. Vazquez | JOURNAL OF APPLIED PHYSICS | 2023 |
| 4 | Internal Structure and Heat Conduction in Rigid Solids: A Two-Temperature Approach | MARIANO LOPEZ DE HARO Gonzalez-Narvaez R.E. Vázquez F. | JOURNAL OF NON-EQUILIBRIUM THERMODYNAMICS | 2022 |
| 5 | Structural and thermodynamic properties of fluids whose molecules interact via one-, two-, and three-step potentials | MARIANO LOPEZ DE HARO Yuste S.B. Santos A. | JOURNAL OF MOLECULAR LIQUIDS | 2022 |

MARIANO LOPEZ DE HARO

| | | | | |
|----|--|--|--|------|
| 6 | Validity of Prigogine' s minimum entropy production principle for a rigid heat-conducting solid beyond the Fourier heat transport regime | MARIANO LOPEZ DE HARO R. E. Gonzalez-Narvaez F. Vazquez | CONTINUUM MECHANICS AND THERMODYNAMICS | 2022 |
| 7 | Structural properties of additive binary hard-sphere mixtures. III. Direct correlation functions | MARIANO LOPEZ DE HARO Pieprzyk Sl. Yuste S.B. et al. | PHYSICAL REVIEW E | 2021 |
| 8 | Thermodynamic Properties of the Parabolic-Well Fluid | MARIANO LOPEZ DE HARO Alvaro Rodriguez-Rivas | Frontiers In Physics | 2021 |
| 9 | Structural properties of additive binary hard-sphere mixtures. II. Asymptotic behavior and structural crossovers | MARIANO LOPEZ DE HARO Slawomir Pieprzyk Santos B. Yuste et al. | PHYSICAL REVIEW E | 2021 |
| 10 | Structural properties of additive binary hard-sphere mixtures | MARIANO LOPEZ DE HARO S. Pieprzyk A. C. Branka et al. | PHYSICAL REVIEW E | 2020 |
| 11 | Equation of State of Four- and Five-Dimensional Hard-Hypersphere Mixtures | MARIANO LOPEZ DE HARO Andres Santos Santos B. Yuste | ENTROPY | 2020 |
| 12 | Structural and thermodynamic properties of hard-sphere fluids | MARIANO LOPEZ DE HARO Santos A. Yuste S.B. | JOURNAL OF CHEMICAL PHYSICS | 2020 |
| 13 | The GMSA for a hard-sphere fluid revisited: evaluation of the Henderson-Blum approximation[*] | MARIANO LOPEZ DE HARO Alejandra Lozada-Hidalgo Douglas Henderson | MOLECULAR PHYSICS | 2019 |
| 14 | Induced correlations and rupture of molecular chaos by anisotropic dissipative Janus hard disks | MARIANO LOPEZ DE HARO Lasanta A. Torrente A. | PHYSICAL REVIEW E | 2019 |
| 15 | On the liquid-vapour coexistence curve in a Lennard-Jones fluid | MIGUEL ROBLES PEREZ MARIANO LOPEZ DE HARO Montes J. | MOLECULAR PHYSICS | 2019 |
| 16 | A plausible approach to heat transfer enhancement: non-Fourier heat transfer in fluids under oscillating conditions | JESUS ANTONIO DEL RIO PORTILLA MARIANO LOPEZ DE HARO E. S. Castillo-Romero | Journal Of Physics Communications | 2018 |
| 17 | Structural properties of the Jagla fluid | MARIANO LOPEZ DE HARO Alvaro Rodriguez-Rivas Santos B. Yuste et al. | PHYSICAL REVIEW E | 2018 |
| 18 | On the causality relations in thermoelectricity | MARIANO LOPEZ DE HARO Federico Vazquez Aldo Figueroa | CONTINUUM MECHANICS AND THERMODYNAMICS | 2018 |

MARIANO LOPEZ DE HARO

| | | | | |
|----|---|--|---|------|
| 19 | On Entropy Generation and the Effect of Heat and Mass Transfer Coupling in a Distillation Process | MARIANO LOPEZ DE HARO Paulina Burgos-Madrigal Diego F. Mendoza | JOURNAL OF NON-EQUILIBRIUM THERMODYNAMICS | 2018 |
| 20 | Equation of state of polydisperse hard-disk mixtures in the high-density regime | MARIANO LOPEZ DE HARO Santos A. Yuste S.B. et al. | PHYSICAL REVIEW E | 2017 |
| 21 | Virial coefficients, equation of state, and demixing of binary asymmetric nonadditive hard-disk mixtures | MARIANO LOPEZ DE HARO Fiumara G. Saija F. et al. | JOURNAL OF CHEMICAL PHYSICS | 2017 |
| 22 | The third International Symposium on Renewable Energy and Sustainability (ISRES 2015) | EDGAR ROLANDO SANTOYO GUTIERREZ ROBERTO BEST Y BROWN MARIANO LOPEZ DE HARO | APPLIED THERMAL ENGINEERING | 2017 |
| 23 | Equation of state and critical point behavior of hard-core double-Yukawa fluids | MIGUEL ROBLES PEREZ MARIANO LOPEZ DE HARO Montes, J. | JOURNAL OF CHEMICAL PHYSICS | 2016 |
| 24 | Theoretical approaches to the structural properties of the square-shoulder fluid | MARIANO LOPEZ DE HARO Yuste, S. B. Santos, A. | MOLECULAR PHYSICS | 2016 |
| 25 | Radial distribution function for hard spheres in fractal dimensions: A heuristic approximation | MARIANO LOPEZ DE HARO Santos, Andres | PHYSICAL REVIEW E | 2016 |
| 26 | Virial coefficients and demixing in the Asakura-Oosawa model | MARIANO LOPEZ DE HARO Tejero, Carlos F. Santos, Andres et al. | JOURNAL OF CHEMICAL PHYSICS | 2015 |
| 27 | The effective colloid interaction in the Asakura-Oosawa model. Assessment of non-pairwise terms from the virial expansion | MARIANO LOPEZ DE HARO Santos, Andres Fiumara, Giacomo et al. | JOURNAL OF CHEMICAL PHYSICS | 2015 |
| 28 | Erratum: Virial coefficients and demixing in the Asakura-Oosawa model (Journal of Chemical Physics (2015) 142 (014902)) | MARIANO LOPEZ DE HARO Tejero, Carlos F. Santos, Andres et al. | JOURNAL OF CHEMICAL PHYSICS | 2015 |
| 29 | Thermoeconomic optimization of an air-cooled tube-bank condenser | MARIANO LOPEZ DE HARO Mendoza Muñoz D.F. Guzmán Reyes G. | Chemical Engineering Transactions | 2015 |
| 30 | Heat transfer and entropy generation in the parallel plate flow of a power-law fluid with asymmetric convective cooling | MARIANO LOPEZ DE HARO SERGIO CUEVAS GARCIA A. Beltran | Energy | 2014 |
| 31 | Note: Equation of state and the freezing point in the hard-sphere model | MIGUEL ROBLES PEREZ MARIANO LOPEZ DE HARO Santos, Andres | JOURNAL OF CHEMICAL PHYSICS | 2014 |

MARIANO LOPEZ DE HARO

| | | | | |
|----|--|--|--|------|
| 32 | Simple effective rule to estimate the jamming packing fraction of polydisperse hard spheres | MARIANO LOPEZ DE HARO Santos, Andres Yuste, Santos B. et al. | PHYSICAL REVIEW E | 2014 |
| 33 | Erratum: Depletion potential in the infinite dilution limit (Journal of Chemical Physics (2008) 128 (134507)) | MARIANO LOPEZ DE HARO Bravo Yuste, Santos Santos, Andres | JOURNAL OF CHEMICAL PHYSICS | 2014 |
| 34 | Structural properties of fluids interacting via piece-wise constant potentials with a hard core | MARIANO LOPEZ DE HARO Santos A. Yuste S.B. et al. | JOURNAL OF CHEMICAL PHYSICS | 2013 |
| 35 | Communication: Virial coefficients and demixing in highly asymmetric binary additive hard-sphere mixtures | MARIANO LOPEZ DE HARO Tejero, Carlos F. Santos, Andres | JOURNAL OF CHEMICAL PHYSICS | 2013 |
| 36 | International Symposium on Renewable Energy and Sustainability (ISRES 2010) Preface | CLAUDIO ALEJANDRO ESTRADA GASCA MARIANO LOPEZ DE HARO EDGAR ROLANDO SANTOYO GUTIERREZ | SOLAR ENERGY | 2012 |
| 37 | Fourth virial coefficients of asymmetric nonadditive hard-disk mixtures | MARIANO LOPEZ DE HARO Saija, Franz Santos, Andres et al. | JOURNAL OF CHEMICAL PHYSICS | 2012 |
| 38 | Equation of state and liquid-vapour equilibrium in a triangle-well fluid | MIGUEL ROBLES PEREZ MARIANO LOPEZ DE HARO Rivera, LD | MOLECULAR PHYSICS | 2012 |
| 39 | Rational-function approximation for fluids interacting via piece-wise constant potentials | MARIANO LOPEZ DE HARO Santos, A. Yuste, S. B. | CONDENSED MATTER PHYSICS | 2012 |
| 40 | On the relation between virial coefficients and the close-packing of hard disks and hard spheres | MIGUEL ROBLES PEREZ MARIANO LOPEZ DE HARO Maestre, Miguel Angel G. et al. | JOURNAL OF CHEMICAL PHYSICS | 2011 |
| 41 | Structure of the square-shoulder fluid | MARIANO LOPEZ DE HARO Yuste, S. B. Santos, A. | MOLECULAR PHYSICS | 2011 |
| 42 | Communication: Inferring the equation of state of a metastable hard-sphere fluid from the equation of state of a hard-sphere mixture at high densities | MARIANO LOPEZ DE HARO Santos, Andres Yuste, Santos B. | JOURNAL OF CHEMICAL PHYSICS | 2011 |
| 43 | A plausible explanation for heart rates in mammals | JORGE ANDRES FLORES VALDES EUGENIA CORVERA POIRE JESUS ANTONIO DEL RIO PORTILLA et al. | JOURNAL OF THEORETICAL BIOLOGY | 2010 |
| 44 | The 5th International Workshop on Non-equilibrium Thermodynamics | MARIANO LOPEZ DE HARO Garcia-Colin, L. S. Vazquez Hurtado, F. | JOURNAL OF NON-NEWTONIAN FLUID MECHANICS | 2010 |
| 45 | Virial coefficients, thermodynamic properties, and fluid-fluid transition of nonadditive hard-sphere mixtures | MARIANO LOPEZ DE HARO Santos A. Yuste S.B. | JOURNAL OF CHEMICAL PHYSICS | 2010 |

MARIANO LOPEZ DE HARO

| | | | | |
|----|---|--|--|------|
| 46 | Critical consolute point in hard-sphere binary mixtures: Effect of the value of the eighth and higher virial coefficients on its location | MARIANO LOPEZ DE HARO Malijevský A. Labík S. | COLLECT CZECH CHEM C | 2010 |
| 47 | 5th International Workshop on Non-Equilibrium Thermodynamics - IWNET 2009 | MARIANO LOPEZ DE HARO | APPL RHEOL | 2010 |
| 48 | A branch-point approximant for the equation of state of hard spheres | MARIANO LOPEZ DE HARO Santos A. | JOURNAL OF CHEMICAL PHYSICS | 2009 |
| 49 | Contact values for disparate-size hard-sphere mixtures | MARIANO LOPEZ DE HARO Santos A. Yuste S.B. et al. | MOLECULAR PHYSICS | 2009 |
| 50 | Heat transfer enhancement in oscillatory flows of Newtonian and viscoelastic fluids | SERGIO CUEVAS GARCIA JESUS ANTONIO DEL RIO PORTILLA MARIANO LOPEZ DE HARO et al. | INTERNATIONAL JOURNAL OF HEAT AND MASS TRANSFER | 2009 |
| 51 | Depletion potential in the infinite dilution limit | MARIANO LOPEZ DE HARO Yuste, Santos Bravo Santos, Andres | JOURNAL OF CHEMICAL PHYSICS | 2008 |
| 52 | Virial series for fluids of hard hyperspheres in odd dimensions | MARIANO LOPEZ DE HARO Rohrmann, Rene D. Santos, Andres et al. | JOURNAL OF CHEMICAL PHYSICS | 2008 |
| 53 | Simple equation of state for hard disks on the hyperbolic plane | MARIANO LOPEZ DE HARO Santos, Andres Yuste, Santos B. | JOURNAL OF CHEMICAL PHYSICS | 2008 |
| 54 | Alternative approaches to the equilibrium properties of hard-sphere liquids | MARIANO LOPEZ DE HARO Yuste S.B. Santos A. | Lecture Notes in Physics | 2008 |
| 55 | Percus-Yevick theory for the structural properties of the seven-dimensional hard-sphere fluid | MARIANO LOPEZ DE HARO Santos A. MIGUEL ROBLES PEREZ | JOURNAL OF CHEMICAL PHYSICS | 2007 |
| 56 | Thermodynamic perturbation theory and phase diagram in simple fluids | MARIANO LOPEZ DE HARO MIGUEL ROBLES PEREZ | JOURNAL OF PHYSICAL CHEMISTRY C | 2007 |
| 57 | Direct correlation function of the hard-sphere fluid | MARIANO LOPEZ DE HARO Tejero C.F. | MOLECULAR PHYSICS | 2007 |
| 58 | Multicomponent fluid of hard spheres near a wall | MARIANO LOPEZ DE HARO Malijevský A. Yuste S.B. et al. | PHYSICAL REVIEW E | 2007 |
| 59 | Thermodynamic perturbation theory and glass transition in simple fluids | MARIANO LOPEZ DE HARO MIGUEL ROBLES PEREZ | PHYSICA A-STATISTICAL MECHANICS AND ITS APPLICATIONS | 2006 |

MARIANO LOPEZ DE HARO

| | | | | |
|----|--|---|--|------|
| 60 | Test of a universality ansatz for the contact values of the radial distribution functions of hard-sphere mixtures near a hard wall | MARIANO LOPEZ DE HARO Yuste S.B. Santos A. | MOLECULAR PHYSICS | 2006 |
| 61 | Erratum: Equation of state of a seven-dimensional hard-sphere fluid. Percus-Yevick theory and molecular-dynamics simulations (Journal of Chemical Physics (2004) 120 (9113)) | MARIANO LOPEZ DE HARO Santos A. MIGUEL ROBLES PEREZ | JOURNAL OF CHEMICAL PHYSICS | 2006 |
| 62 | On the radial distribution function of a hard-sphere fluid | MARIANO LOPEZ DE HARO Santos A. Yuste S.B. | JOURNAL OF CHEMICAL PHYSICS | 2006 |
| 63 | Optimization of a magnetohydrodynamic flow based on the entropy generation minimization method | MARIANO LOPEZ DE HARO Ibáñez G. SERGIO CUEVAS GARCIA | INTERNATIONAL COMMUNICATIONS IN HEAT AND MASS TRANSFER | 2006 |
| 64 | Contact values of the particle-particle and wall-particle correlation functions in a hard-sphere polydisperse fluid | MARIANO LOPEZ DE HARO Santos A. Yuste S.B. | JOURNAL OF CHEMICAL PHYSICS | 2005 |
| 65 | Equation of state of nonadditive d-dimensional hard-sphere mixtures | MARIANO LOPEZ DE HARO Santos A. Yuste S.B. | JOURNAL OF CHEMICAL PHYSICS | 2005 |
| 66 | Demixing can occur in binary hard-sphere mixtures with negative nonadditivity | MARIANO LOPEZ DE HARO Santos A. | PHYSICAL REVIEW E | 2005 |
| 67 | Rescaled density expansions and demixing in hard-sphere binary mixtures | MARIANO LOPEZ DE HARO Tejero C.F. | JOURNAL OF CHEMICAL PHYSICS | 2004 |
| 68 | Equation of state of a seven-dimensional hard-sphere fluid. Percus-Yevick theory and molecular-dynamics simulations | MIGUEL ROBLES PEREZ MARIANO LOPEZ DE HARO Santos A. | JOURNAL OF CHEMICAL PHYSICS | 2004 |
| 69 | The structure factor and equation of state of hard-sphere fluids | MIGUEL ROBLES PEREZ MARIANO LOPEZ DE HARO | JOURNAL OF PHYSICS-CONDENSED MATTER | 2004 |
| 70 | Thermodynamic optimization of radial MHD flow between parallel circular disks | SERGIO CUEVAS GARCIA MARIANO LOPEZ DE HARO Duharte G.I. | JOURNAL OF NON-EQUILIBRIUM THERMODYNAMICS | 2004 |

MARIANO LOPEZ DE HARO

| | | | | |
|----|--|--|--|------|
| 71 | Minimization of entropy generation by asymmetric convective cooling | SERGIO CUEVAS GARCIA MARIANO LOPEZ DE HARO Ibáñez G. | INTERNATIONAL JOURNAL OF HEAT AND MASS TRANSFER | 2003 |
| 72 | Simple models for relaxation in glass-forming systems | MARIANO LOPEZ DE HARO JULIA TAGUEÑA PARGA Gonçalves L.L. et al. | JOURNAL OF NON-CRYSTALLINE SOLIDS | 2003 |
| 73 | Theoretical scheme for the study of thermodynamic and transport properties of simple fluids at the liquid-glass transition line | MIGUEL ROBLES PEREZ MARIANO LOPEZ DE HARO Uruchurtu L.I. | Materials Research Society Symposium Proceedings | 2003 |
| 74 | Erratum: Relaxation in kinetic models on alternating linear chains (Physical Review E (2001) 63 (026114)) | MARIANO LOPEZ DE HARO JULIA TAGUEÑA PARGA Gonçalves L.L. | PHYS REV E | 2003 |
| 75 | On the liquid-glass transition line in monatomic Lennard-Jones fluids | MIGUEL ROBLES PEREZ MARIANO LOPEZ DE HARO | EPL | 2003 |
| 76 | Structure of ternary additive hard-sphere fluid mixtures | MARIANO LOPEZ DE HARO Malijevský A. Malijevský A. et al. | PHYS REV E | 2002 |
| 77 | Equation of state of additive hard-disk fluid mixtures: A critical analysis of two recent proposals | MARIANO LOPEZ DE HARO Yuste S.B. Santos A. | PHYS REV E | 2002 |
| 78 | Erratum: Nagel scaling, relaxation, and universality in the kinetic ising model on an alternating isotopic chain (Phys. Rev. Lett. (2000) 84 (1507)) | MARIANO LOPEZ DE HARO JULIA TAGUEÑA PARGA Gonçalves L.L. et al. | PHYSICAL REVIEW LETTERS | 2002 |
| 79 | Direct correlation functions and bridge functions in additive hard-sphere mixtures | MARIANO LOPEZ DE HARO Yuste S.B. Santos A. | MOLECULAR PHYSICS | 2002 |
| 80 | Contact values of the radial distribution functions of additive hard-sphere mixtures in d dimensions: A new proposal | MARIANO LOPEZ DE HARO Santos A. Yuste S.B. | JOURNAL OF CHEMICAL PHYSICS | 2002 |
| 81 | Erratum: Enhancement in the dynamic response of a viscoelastic fluid flowing in a tube (Physical Review E (1998) 58 (6323)) | JESUS ANTONIO DEL RIO PORTILLA MARIANO LOPEZ DE HARO Whitaker S. | PHYSICAL REVIEW E | 2001 |
| 82 | On the thermodynamic properties of the Lennard-Jones fluid | MIGUEL ROBLES PEREZ MARIANO LOPEZ DE HARO | PHYSICAL CHEMISTRY CHEMICAL PHYSICS | 2001 |
| 83 | Equation of state and structure of binary mixtures of hard d-dimensional hyperspheres | MARIANO LOPEZ DE HARO González-Melchor M. Alejandro J. | JOURNAL OF CHEMICAL PHYSICS | 2001 |

MARIANO LOPEZ DE HARO

| | | | | |
|----|---|---|---|------|
| 84 | Relaxation in kinetic models on alternating linear chains | MARIANO LOPEZ DE HARO JULIA TAGUEÑA PARGA Gonçalves L.L. | PHYSICAL REVIEW E | 2001 |
| 85 | Fluctuating hydrodynamics and irreversible thermodynamics | MARIANO LOPEZ DE HARO Vázquez F. | JOURNAL OF NON-EQUILIBRIUM THERMODYNAMICS | 2001 |
| 86 | Virial coefficients and equations of state for mixtures of hard discs, hard spheres and hard hyperspheres | MARIANO LOPEZ DE HARO Santos A. Yuste S.B. | MOLECULAR PHYSICS | 2001 |
| 87 | Demixing in binary mixtures of hard hyperspheres | MARIANO LOPEZ DE HARO Yuste S.B. Santos A. | EPL | 2000 |
| 88 | Nagel Scaling, Relaxation, and Universality in the Kinetic Ising Model on an Alternating Isotopic Chain | MARIANO LOPEZ DE HARO JULIA TAGUEÑA PARGA Gonçalves L.L. et al. | PHYSICAL REVIEW LETTERS | 2000 |
| 89 | Shear-rate dependent transport coefficients in a binary mixture of Maxwell molecules | MARIANO LOPEZ DE HARO Marín C. Garzó V. | PHYSICS OF FLUIDS | 2000 |
| 90 | Entropy generation analysis of magnetohydrodynamic induction devices | SERGIO CUEVAS GARCIA MARIANO LOPEZ DE HARO Salas H. | JOURNAL OF PHYSICS D-APPLIED PHYSICS | 1999 |
| 91 | Equation of state of a multicomponent d-dimensional hard-sphere fluid | MARIANO LOPEZ DE HARO Santos A. Yuste S.B. | MOLECULAR PHYSICS | 1999 |
| 92 | Consequences of a generalized Ohm's law for magnetic transport in conducting media | SERGIO CUEVAS GARCIA JESUS ANTONIO DEL RIO PORTILLA MARIANO LOPEZ DE HARO | JOURNAL OF PHYSICS D-APPLIED PHYSICS | 1999 |
| 93 | Simple and accurate theory for strong shock waves in a dense hard-sphere fluid | MARIANO LOPEZ DE HARO Montanero J.M. Santos A. et al. | PHYS REV E | 1999 |
| 94 | Enhancement in the dynamic response of a viscoelastic fluid flowing in a tube | JESUS ANTONIO DEL RIO PORTILLA MARIANO LOPEZ DE HARO Whitaker S. | PHYS REV E | 1998 |
| 95 | Strong shock waves in a dense gas: Burnett theory versus Monte Carlo simulation | MARIANO LOPEZ DE HARO Montanero J.M. Garzó V. et al. | PHYS REV E | 1998 |
| 96 | Radial distribution functions for a multicomponent system of sticky hard spheres | MARIANO LOPEZ DE HARO Santos A. Yuste S.B. | JOURNAL OF CHEMICAL PHYSICS | 1998 |
| 97 | Structure of multi-component hard-sphere mixtures | MARIANO LOPEZ DE HARO Yuste S.B. Santos A. | JOURNAL OF CHEMICAL PHYSICS | 1998 |

MARIANO LOPEZ DE HARO

| | | | | |
|-----|---|--|---|------|
| 98 | A student-oriented derivation of a reliable equation of state for a hard-disc fluid | MARIANO LOPEZ DE HARO Santos A. Yuste S.B. | EUROPEAN JOURNAL OF PHYSICS | 1998 |
| 99 | Fluctuations far from equilibrium: Hyperbolic transport | JESUS ANTONIO DEL RIO PORTILLA MARIANO LOPEZ DE HARO Vázquez F. | PHYS REV E | 1997 |
| 100 | On the contact values of the derivatives of the hard-sphere radial distribution function | MIGUEL ROBLES PEREZ MARIANO LOPEZ DE HARO | JOURNAL OF CHEMICAL PHYSICS | 1997 |
| 101 | Nonlinear transport for a dilute gas in steady Couette flow | MARIANO LOPEZ DE HARO Garzó V. | PHYSICS OF FLUIDS | 1997 |
| 102 | Flow of Maxwell fluids in porous media | MARIANO LOPEZ DE HARO Del Río P. J.A. Whitaker S. | TRANSPORT IN POROUS MEDIA | 1996 |
| 103 | Changes on dislocation energy and subgrain formation in Cu-16 at. % Al at T = 723 K and s = 39.2 MPa according to the soft and hard region theory | JORGE ANTONIO MONTEMAYOR ALDRETE ALEJANDRO MENDOZA ALLENDE MARIANO LOPEZ DE HARO | REVISTA MEXICANA DE FISICA | 1996 |
| 104 | Relaxational heat capacity and universality in linear polymer chains | MARIANO LOPEZ DE HARO JULIA TAGUEÑA PARGA Gonçalves L.L. | MODERN PHYSICS LETTERS B | 1996 |
| 105 | Structure of hard-sphere metastable fluids | MARIANO LOPEZ DE HARO Bravo Yuste S. Santos A. | PHYS REV E | 1996 |
| 106 | Shock waves in a dense gas | MARIANO LOPEZ DE HARO Garzó V. | PHYS REV E | 1995 |
| 107 | An accurate and simple equation of state for hard disks | MARIANO LOPEZ DE HARO Santos A. Bravo Yuste S. | JOURNAL OF CHEMICAL PHYSICS | 1995 |
| 108 | Tracer diffusion under shear flow for general repulsive interactions | MARIANO LOPEZ DE HARO Garzó V. | PHYSICS OF FLUIDS | 1995 |
| 109 | Heat Relaxation and Anisotropy in Polymeric Materials | ROSALIO RODRIGUEZ ZEPEDA MARIANO LOPEZ DE HARO OCTAVIO MANERO BRITO | JOURNAL OF NON-EQUILIBRIUM THERMODYNAMICS | 1995 |
| 110 | Kinetic model for heat and momentum transport | MARIANO LOPEZ DE HARO Garzó V. | PHYSICS OF FLUIDS | 1994 |
| 111 | A test of the modified enskog theory for self-diffusion | MARIANO LOPEZ DE HARO Kincaid J.M. Tuo R.-F. | MOLECULAR PHYSICS | 1994 |
| 112 | Anisotropy and thermal stresses in the steady flow of viscoelastic fluids | OCTAVIO MANERO BRITO ROSALIO RODRIGUEZ ZEPEDA MARIANO LOPEZ DE HARO | JOURNAL OF NON-EQUILIBRIUM THERMODYNAMICS | 1993 |

MARIANO LOPEZ DE HARO

| | | | | |
|-----|---|---|--|------|
| 113 | On the Burnett equations for a dense monatomic hard-sphere gas | MARIANO LOPEZ DE HARO Garzó V. | PHYSICA A-STATISTICAL MECHANICS AND ITS APPLICATIONS | 1993 |
| 114 | A simple model for relaxation phenomena in linear polymer chains | MARIANO LOPEZ DE HARO JULIA TAGUEÑA PARGA Espinosa B. et al. | J PHYS A-MATH GEN | 1993 |
| 115 | Kinetic models for diffusion in shear flow | MARIANO LOPEZ DE HARO Garzó A V. | Physics Of Fluids A | 1992 |
| 116 | Extended irreversible thermodynamics as a framework for transport phenomena in porous media | MARIANO LOPEZ DE HARO Del Río P. J.A. | TRANSPORT IN POROUS MEDIA | 1992 |
| 117 | Effect of mass-ratio dependence of the force law for tracer diffusion in shear flow | MARIANO LOPEZ DE HARO Garzó V. | Physics Of Fluids A | 1992 |
| 118 | A Generalization of the Richards Equation Within Extended Irreversible Thermodynamics | MARIANO LOPEZ DE HARO Del Río P. J.A. | WATER RESOURCES RESEARCH | 1991 |
| 119 | Hydrodynamic interactions of dilute polymer solutions in elongational flow | ANGEL ENRIQUE CHAVEZ CASTELLANOS MARIANO LOPEZ DE HARO OCTAVIO MANERO BRITO | JOURNAL OF STATISTICAL PHYSICS | 1991 |
| 120 | On the criteria for deriving approximations of different orders in extended irreversible thermodynamics | MARIANO LOPEZ DE HARO del Riop J.A. | JOURNAL OF NON-EQUILIBRIUM THERMODYNAMICS | 1990 |
| 121 | On the closure assumption in extended irreversible thermodynamics | ROSALIO RODRIGUEZ ZEPEDA MARIANO LOPEZ DE HARO | JOURNAL OF NON-EQUILIBRIUM THERMODYNAMICS | 1989 |
| 122 | Temperature effects in the Rayleigh problem for a convected Jeffreys fluid | MARIANO LOPEZ DE HARO ROSALIO RODRIGUEZ ZEPEDA OCTAVIO MANERO BRITO | RHEOLOGICA ACTA | 1989 |
| 123 | Chapman-Enskog velocity distribution for tracer diffusion | MARIANO LOPEZ DE HARO | JOURNAL OF STATISTICAL PHYSICS | 1989 |
| 124 | Hydrodynamic effects in polymer solutions. I. Friction coefficients in steady elongational flow | MARIANO LOPEZ DE HARO Pérez-Madrid A. Rubí J.M. | JOURNAL OF CHEMICAL PHYSICS | 1988 |

MARIANO LOPEZ DE HARO

| | | | | |
|-----|--|--|--|------|
| 125 | Equilibrium distribution of the kinetic variational theory II (KVT II) | ROLANDO CRISOSTOMO CASTILLO CABALLERO MARIANO LOPEZ DE HARO Martina E. | PHYSICA A-STATISTICAL MECHANICS AND ITS APPLICATIONS | 1988 |
| 126 | A thermodynamic approach to non-linear viscoelasticity | ROSALIO RODRIGUEZ ZEPEDA MARIANO LOPEZ DE HARO OCTAVIO MANERO BRITO | RHEOLOGICA ACTA | 1988 |
| 127 | Irreversible thermodynamics of polydisperse fluids | MARIANO LOPEZ DE HARO Kincaid J.M. Cohen E.G.D. | INTERNATIONAL JOURNAL OF THERMOPHYSICS | 1988 |
| 128 | Consistently averaged hydrodynamic interaction beyond the Oseen approximation for Rouse-Zimm-Bueche dumbbells in steady shear flow | MARIANO LOPEZ DE HARO Rubí J.M. | JOURNAL OF CHEMICAL PHYSICS | 1988 |
| 129 | Fluids with internal degrees of freedom. II. Rayleigh-Brillouin scattering | MARIANO LOPEZ DE HARO ROSALIO RODRIGUEZ ZEPEDA García-Colín L.S. | JOURNAL OF CHEMICAL PHYSICS | 1987 |
| 130 | Linear viscoelasticity and irreversible thermodynamics | MARIANO LOPEZ DE HARO LUIS FELIPE DEL CASTILLO DAVILA ROSALIO RODRIGUEZ ZEPEDA | RHEOLOGICA ACTA | 1986 |
| 131 | An extended thermodynamic approach for the longitudinal velocity correlation function | MARIANO LOPEZ DE HARO ROSALIO RODRIGUEZ ZEPEDA Pérez-García C. et al. | PHYSICA A-STATISTICAL MECHANICS AND ITS APPLICATIONS | 1986 |
| 132 | The Enskog theory for multicomponent mixtures. IV. Thermal diffusion | MARIANO LOPEZ DE HARO Kincaid J.M. Cohen E.G.D. | JOURNAL OF CHEMICAL PHYSICS | 1986 |
| 133 | Transport coefficients of fluid mixtures | ROLANDO CRISOSTOMO CASTILLO CABALLERO MARIANO LOPEZ DE HARO Martina E. | INTERNATIONAL JOURNAL OF THERMOPHYSICS | 1986 |
| 134 | Extended thermodynamic description of diffusion in an inert binary mixture | ROSALIO RODRIGUEZ ZEPEDA MARIANO LOPEZ DE HARO García-Colín L.S. | JOURNAL OF CHEMICAL PHYSICS | 1985 |
| 135 | The underlying thermodynamic aspects of generalized hydrodynamics | ROSALIO RODRIGUEZ ZEPEDA MARIANO LOPEZ DE HARO García-Colín L.S. et al. | PHYSICS LETTERS A | 1985 |

MARIANO LOPEZ DE HARO

| | | | | |
|-----|---|--|--|------|
| 136 | Compatibility between Extended Irreversible Thermodynamics and Kinetic-Theory: Uniform Shear Flow | ROSALIO RODRIGUEZ ZEPEDA MARIANO LOPEZ DE HARO LUIS FELIPE DEL CASTILLO DAVILA | JOURNAL OF NON-EQUILIBRIUM THERMODYNAMICS | 1985 |
| 137 | On the foundations of extended irreversible thermodynamics | MARIANO LOPEZ DE HARO ROSALIO RODRIGUEZ ZEPEDA García-Colín L.S. et al. | JOURNAL OF STATISTICAL PHYSICS | 1984 |
| 138 | Effects of spatial variations in extended irreversible thermodynamics | MARIANO LOPEZ DE HARO ROSALIO RODRIGUEZ ZEPEDA García-Colín L.S. | PHYSICA A-STATISTICAL MECHANICS AND ITS APPLICATIONS | 1984 |
| 139 | The Enskog theory for multicomponent mixtures. III. Transport properties of dense binary mixtures with one tracer component | MARIANO LOPEZ DE HARO Cohen E.G.D. | JOURNAL OF CHEMICAL PHYSICS | 1984 |
| 140 | The Enskog theory for multicomponent mixtures. I. Linear transport theory | MARIANO LOPEZ DE HARO Cohen E.G.D. Kincaid J.M. | JOURNAL OF CHEMICAL PHYSICS | 1983 |
| 141 | The Enskog theory for multicomponent mixtures. II. Mutual diffusion | MARIANO LOPEZ DE HARO Kincaid J.M. Cohen E.G.D. | JOURNAL OF CHEMICAL PHYSICS | 1983 |
| 142 | DIFFUSION COEFFICIENTS OF MULTICOMPONENT HARD-SPHERE FLUID MIXTURES. | MARIANO LOPEZ DE HARO Kincaid J.M. Cohen E.G.D. | American Society Of Mechanical Engineers (paper) | 1983 |
| 143 | Diffusion over barriers: Eigenanalysis of the Smoluchowski equation for bistable potentials | MARIANO LOPEZ DE HARO | PHYSICA A-STATISTICAL MECHANICS AND ITS APPLICATIONS | 1982 |
| 144 | The burnett equations in extended irreversible thermodynamics | MARIANO LOPEZ DE HARO García-Colín L.S. | JOURNAL OF NON-EQUILIBRIUM THERMODYNAMICS | 1982 |
| 145 | Frequency dependent energetics of a polymer chain represented by the Ising model | MARIANO LOPEZ DE HARO | JOURNAL OF CHEMICAL PHYSICS | 1982 |



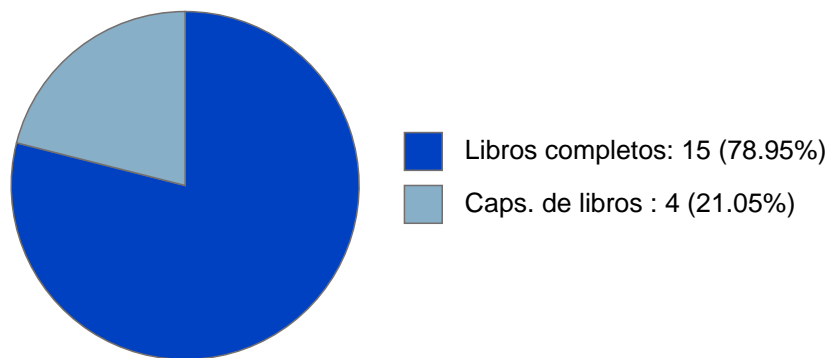
MARIANO LOPEZ DE HARO

| | | | | |
|-----|--|--|------------------------------|------|
| 146 | Frequency dependent energetics of a polymer chain represented by the Orwoll-Stockmayer hopping model | MARIANO LOPEZ DE HARO Pugh D. | Polymer | 1979 |
| 147 | SIMPLE MODEL ILLUSTRATIVE OF SOME FEATURES OF POLYMER DYNAMICS. | MARIANO LOPEZ DE HARO Jones D.A. Pugh D. | J Polym Sci Polym Phys Ed | 1978 |

MARIANO LOPEZ DE HARO

LIBROS Y CAPITULOS CON ISBN

Obras con registro ISBN



| # | Título | Autores | Alcance | Año | ISBN |
|---|---|---|-------------------|------|---------------|
| 1 | Física | SERGIO CUEVAS GARCIA MARIANO LOPEZ DE HARO | Libro Completo | 2019 | 9786072435926 |
| 2 | Física | SERGIO CUEVAS GARCIA MARIANO LOPEZ DE HARO | Libro Completo | 2018 | 9786072431331 |
| 3 | Física | SERGIO CUEVAS GARCIA MARIANO LOPEZ DE HARO | Libro Completo | 2018 | 9786072431348 |
| 4 | Ciencias 2 Física. Secundaria. Savia | SERGIO CUEVAS GARCIA MARIANO LOPEZ DE HARO | Libro Completo | 2016 | 9786072420878 |
| 5 | Ciencias 3 Química. Secundaria. Savia | MARIANO LOPEZ DE HARO | Libro Completo | 2015 | 9786072420274 |
| 6 | Ciencias 2 Física. Secundaria. Savia | SERGIO CUEVAS GARCIA MARIANO LOPEZ DE HARO | Libro Completo | 2015 | 9786072420267 |
| 7 | Ciencias II Física. Secundaria | SERGIO CUEVAS GARCIA MARIANO LOPEZ DE HARO | Libro Completo | 2014 | 9786072411593 |
| 8 | Ciencias II. Física Secundaria. Conect@ Entornos | SERGIO CUEVAS GARCIA MARIANO LOPEZ DE HARO | Libro Completo | 2014 | 9786072412545 |

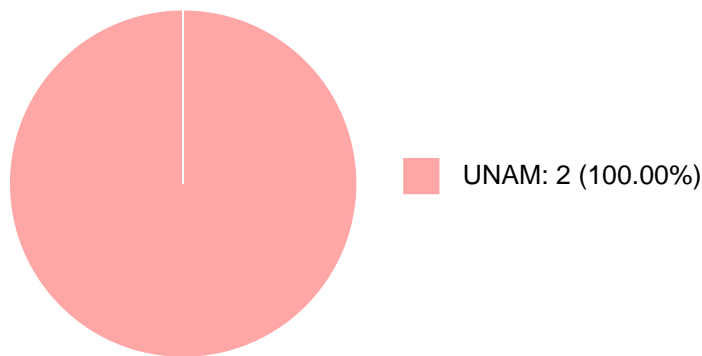
MARIANO LOPEZ DE HARO

| | | | | | |
|----|---|---|-------------------------|------|-------------------|
| 9 | Ciencias II. Física. Secundaria. Conect@ Entornos | SERGIO CUEVAS GARCIA MARIANO LOPEZ DE HARO | Libro Completo | 2014 | 978607240996 5 |
| 10 | Ciencias II. Física. Secundaria. Conect@ entornos | SERGIO CUEVAS GARCIA MARIANO LOPEZ DE HARO JULIA TAGUEÑA PARGA | Libro Completo | 2013 | 9786072407091 |
| 11 | Ciencias 2. Física. Secundaria. Conect@ Entornos | SERGIO CUEVAS GARCIA MARIANO LOPEZ DE HARO | Libro Completo | 2013 | 9786072407374 |
| 12 | Ciencias II. Física. Secundaria. Conecta entornos | MARIANO LOPEZ DE HARO | Libro Completo | 2012 | 9786072405189 |
| 13 | Ciencias II. Física. Secundaria Conect@ Entornos | SERGIO CUEVAS GARCIA MARIANO LOPEZ DE HARO JULIA TAGUEÑA PARGA | Libro Completo | 2012 | 9786072406476 |
| 14 | Ciencias II. Física. Secundaria. Conecta entornos. | JULIA TAGUEÑA PARGA MARIANO LOPEZ DE HARO SERGIO CUEVAS GARCIA | Libro Completo | 2012 | 9786072403673 |
| 15 | Ciencias II. Física. Secundaria. Conecta entornos. | MARIANO LOPEZ DE HARO JULIA TAGUEÑA PARGA SERGIO CUEVAS GARCIA | Libro Completo | 2011 | 9786072403673 |
| 16 | Heat transfer and entropy generation in oscillatory flow between parallel plates | SERGIO CUEVAS GARCIA MARIANO LOPEZ DE HARO | Capítulo de un Libro | 2010 | 9789814307536 |
| 17 | Entropy generation in oscillatory flow between parallel plates | MARIANO LOPEZ DE HARO SERGIO CUEVAS GARCIA Vázquez F. et al. | Capítulo de un Libro | 2010 | 9789814307543 |
| 18 | Variational principles for irreversible hyperbolic transport | JESUS ANTONIO DEL RIO PORTILLA MARIANO LOPEZ DE HARO Vázquez F. | Capítulo de un Libro | 2005 | 978008044488 8 |
| 19 | The dielectric loss function and the search for simple models for relaxation in glass formers | MARIANO LOPEZ DE HARO JULIA TAGUEÑA PARGA Vieira A.P. et al. | Capítulo de un Libro | 2005 | 9781860947209 |

MARIANO LOPEZ DE HARO

PARTICIPACIÓN EN PROYECTOS

Histórico de participación en proyectos

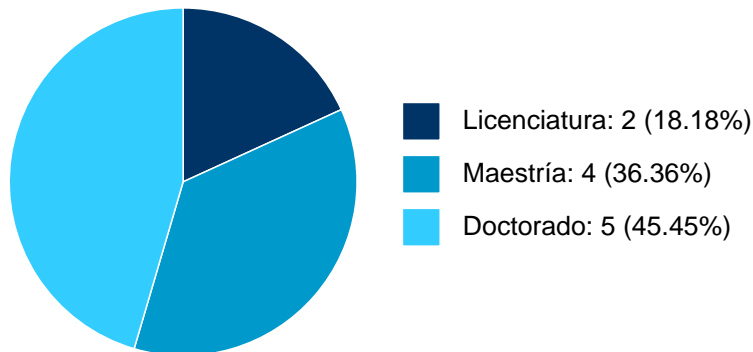


| # | Nombre | Participantes | Fuente | Fecha inicio | Fecha fin |
|---|---|-----------------------|--|--------------|------------|
| 1 | Termodinámica de procesos irreversibles | MARIANO LOPEZ DE HARO | Presupuesto de la UNAM asignado a la Dependencia | 01-01-2016 | 31-12-2018 |
| 2 | Propiedades termodinámicas y estructurales. | MARIANO LOPEZ DE HARO | Presupuesto de la UNAM asignado a la Dependencia | 01-01-2019 | 31-12-2021 |

MARIANO LOPEZ DE HARO

PARTICIPACIÓN EN TESIS

Histórico de Colaboraciones en Tesis



| # | Título del documento | Tipo de Tesis | Sinodales | Autores | Entidad | Año |
|---|--|-----------------------|------------------------|---|-------------------------------------|------|
| 1 | Aplicación de termodinámica irreversible en la destilación de una mezcla multicomponente de hidrocarburos | Tesis de Doctorado | MARIANO LOPEZ DE HARO, | Burgos Madrigal, Paulina, | Instituto de Energías Renovables, | 2017 |
| 2 | Transición de fase fluido-sólido en sistemas de hiperesferas duras | Tesis de Doctorado | MARIANO LOPEZ DE HARO, | MIGUEL ROBLES PEREZ, Estrada Álvarez, César Daniel, | Centro de Investigación en Energía, | 2011 |
| 3 | Fisiorción de Ar en Ca usando autómatas celulares | Tesis de Maestría | MARIANO LOPEZ DE HARO, | López Torres, Maricruz, | Centro de Investigación en Energía, | 2008 |
| 4 | Expresiones totalmente analíticas para la aproximación esférica media generalizada en el fluido de esferas duras | Tesis de Licenciatura | MARIANO LOPEZ DE HARO, | Lozada Hidalgo, Alejandra, | Centro de Investigación en Energía, | 2008 |
| 5 | Diseño de un motor de combustion interna que reduce la generacion de entropia | Tesis de Maestría | MARIANO LOPEZ DE HARO, | Guarner Lans, Enrique Eduardo, | | 2003 |

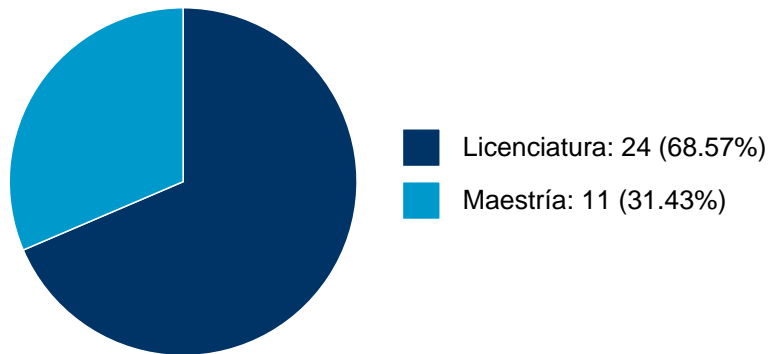
MARIANO LOPEZ DE HARO

| | | | | | |
|----|---|-----------------------|------------------------|--|------|
| 6 | Optimización de procesos y dispositivos energeticos basada en la produccion de entropia | Tesis de Doctorado | SERGIO CUEVAS GARCIA, | MARIANO LOPEZ DE HARO, Ibañez Duharte, Guillermo, | 2003 |
| 7 | Representacion de las propiedades termofisicas de la mezcla bromuro de litio agua etanolamina para su posible uso en un transformador termico | Tesis de Maestría | ROBERTO BEST Y BROWN, | MARIANO LOPEZ DE HARO, Hernandez Pacheco, Eduardo, | 1998 |
| 8 | Estudios variacionales en sistemas fuera de equilibrio | Tesis de Doctorado | MARIANO LOPEZ DE HARO, | Vazquez Hurtado, Federico, | 1996 |
| 9 | Modelo para la relajacion dielectrica en polimeros lineales con transicion vitrea | Tesis de Licenciatura | MARIANO LOPEZ DE HARO, | Espinosa Aceves, Beatriz Alicia, | 1991 |
| 10 | Contribuciones teoricas al estudio de los fenomenos de trasporte en medios porosos | Tesis de Doctorado | MARIANO LOPEZ DE HARO, | Río Portilla, Jesús Antonio del, | 1991 |
| 11 | El orden en la termodinamica irreversible extendida | Tesis de Maestría | MARIANO LOPEZ DE HARO, | Río Portilla, Jesús Antonio del, | 1987 |

MARIANO LOPEZ DE HARO

DOCENCIA IMPARTIDA

Histórico de docencia



| # | Nivel titulación | Asignatura | Entidad | Alumnos | Semestre |
|----|------------------|-------------------------|------------------------------------|---------|----------|
| 1 | Licenciatura | CALCULO INTEGRAL | Centro de Investigación en Energía | 16 | 2023-2 |
| 2 | Licenciatura | CALCULO VECTORIAL | Centro de Investigación en Energía | 16 | 2023-1 |
| 3 | Licenciatura | CALCULO INTEGRAL | Centro de Investigación en Energía | 11 | 2022-2 |
| 4 | Licenciatura | CALCULO VECTORIAL | Centro de Investigación en Energía | 23 | 2022-1 |
| 5 | Licenciatura | CALCULO INTEGRAL | Centro de Investigación en Energía | 24 | 2021-2 |
| 6 | Licenciatura | CALCULO VECTORIAL | Centro de Investigación en Energía | 27 | 2021-1 |
| 7 | Licenciatura | CALCULO VECTORIAL | Centro de Investigación en Energía | 27 | 2020-1 |
| 8 | Licenciatura | FISICA ESTADISTICA | Facultad de Ciencias | 1 | 2020-1 |
| 9 | Licenciatura | CALCULO INTEGRAL | Centro de Investigación en Energía | 27 | 2019-2 |
| 10 | Licenciatura | CALCULO VECTORIAL | Centro de Investigación en Energía | 23 | 2019-1 |
| 11 | Licenciatura | SEMINARIO DE TITULACION | Centro de Investigación en Energía | 2 | 2018-2 |
| 12 | Licenciatura | CALCULO INTEGRAL | Centro de Investigación en Energía | 23 | 2018-2 |

MARIANO LOPEZ DE HARO

| | | | | | |
|----|--------------|--|------------------------------------|----|--------|
| 13 | Licenciatura | CALCULO VECTORIAL | Centro de Investigación en Energía | 30 | 2018-1 |
| 14 | Maestría | SESION DE TUTORIA IV | Instituto de Energías Renovables | 18 | 2018-1 |
| 15 | Licenciatura | SEMINARIO DE TITULACION-337181 | Instituto de Energías Renovables | 1 | 2016-2 |
| 16 | Licenciatura | CALCULO INTEGRAL-332492 | Instituto de Energías Renovables | 25 | 2016-2 |
| 17 | Licenciatura | CALCULO VECTORIAL-333497 | Instituto de Energías Renovables | 27 | 2016-1 |
| 18 | Licenciatura | SEMINARIO DE TITULACION | Instituto de Energías Renovables | 1 | 2015-2 |
| 19 | Licenciatura | CALCULO INTEGRAL | Instituto de Energías Renovables | 24 | 2015-2 |
| 20 | Licenciatura | CALCULO VECTORIAL | Instituto de Energías Renovables | 21 | 2015-1 |
| 21 | Licenciatura | CALCULO INTEGRAL | Instituto de Energías Renovables | 22 | 2014-2 |
| 22 | Licenciatura | CALCULO VECTORIAL | Instituto de Energías Renovables | 28 | 2014-1 |
| 23 | Licenciatura | CALCULO INTEGRAL | Instituto de Energías Renovables | 25 | 2013-2 |
| 24 | Maestría | FISICA ESTADISTICA | Instituto de Energías Renovables | 3 | 2013-2 |
| 25 | Licenciatura | CALCULO VECTORIAL | Centro de Investigación en Energía | 10 | 2013-1 |
| 26 | Licenciatura | CALCULO INTEGRAL | Centro de Investigación en Energía | 10 | 2012-2 |
| 27 | Maestría | TEMAS SELECTOS DE SISTEMAS ENERGETICOS | Centro de Investigación en Energía | 1 | 2012-1 |
| 28 | Maestría | SEMINARIO DE INVESTIGACION II | Centro de Investigación en Energía | 1 | 2011-2 |
| 29 | Maestría | PROYECTO DE INVESTIGACION I | Centro de Investigación en Energía | 1 | 2011-2 |
| 30 | Maestría | PROYECTO DE INVESTIGACION II | Centro de Investigación en Energía | 1 | 2011-2 |
| 31 | Maestría | SEMINARIO DE INVESTIGACION I | Centro de Investigación en Energía | 1 | 2011-1 |
| 32 | Maestría | TEMAS SELECTOS DE SISTEMAS ENERGETICOS | Centro de Investigación en Energía | 2 | 2011-1 |
| 33 | Maestría | TEMAS SELECTOS | Centro de Investigación en Energía | 1 | 2011-1 |



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



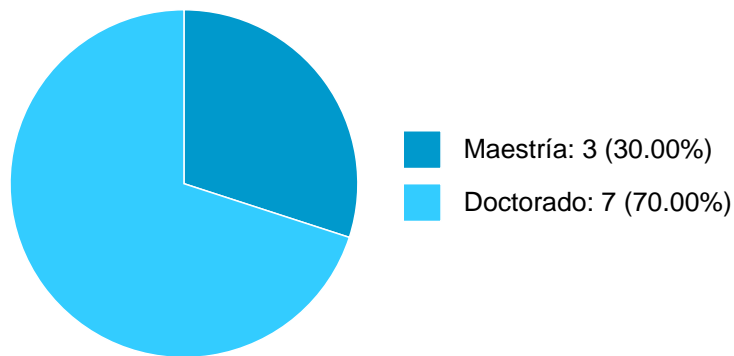
MARIANO LOPEZ DE HARO

| | | | | | |
|----|----------|--|------------------------------------|---|--------|
| 34 | Maestría | TEMAS SELECTOS DE SISTEMAS ENERGETICOS | Centro de Investigación en Energía | 1 | 2008-2 |
| 35 | Maestría | PROYECTO DE INVESTIGACION II | Centro de Investigación en Energía | 1 | 2008-1 |

MARIANO LOPEZ DE HARO

TUTORIAS EN POSGRADO

Histórico de tutorías en posgrado



| # | Entidad | Nivel | Plan de estudios | Año | Semestre |
|----|------------------------------------|-----------|-----------------------------------|------|----------|
| 1 | Centro de Investigación en Energía | Doctorado | Doctorado en Ingeniería (Energía) | 2015 | 2015-2 |
| 2 | Centro de Investigación en Energía | Doctorado | Doctorado en Ingeniería (Energía) | 2014 | 2015-1 |
| 3 | Centro de Investigación en Energía | Doctorado | Doctorado en Ingeniería (Energía) | 2013 | 2013-2 |
| 4 | Centro de Investigación en Energía | Doctorado | Doctorado en Ingeniería (Energía) | 2012 | 2012-2 |
| 5 | Centro de Investigación en Energía | Doctorado | Doctorado en Ingeniería (Energía) | 2012 | 2013-1 |
| 6 | Centro de Investigación en Energía | Doctorado | Doctorado en Ingeniería (Energía) | 2011 | 2011-2 |
| 7 | Centro de Investigación en Energía | Doctorado | Doctorado en Ingeniería (Energía) | 2011 | 2012-1 |
| 8 | Instituto de Energías Renovables | Maestría | Maestría en Ingeniería (Energía) | 2009 | 2009-2 |
| 9 | Instituto de Energías Renovables | Maestría | Maestría en Ingeniería (Energía) | 2009 | 2010-1 |
| 10 | Instituto de Energías Renovables | Maestría | Maestría en Ingeniería (Energía) | 2008 | 2009-1 |



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



MARIANO LOPEZ DE HARO

PATENTES

| # | Título | Inventores | Sección | Año |
|---|---|---|--|------|
| 1 | REDUCCION DINAMICA DE LA CAPA DE MOJADO DURANTE EL DESPLAZAMIENTO DE UN FLUIDO VISCOELASTICO POR UN FLUIDO DE MENOR VISCOSIDAD. | JESUS ANTONIO DEL RIO PORTILLA, MARIANO LOPEZ DE HARO, EUGENIA CORVERA POIRE, | MECHANICAL ENGINEERING; LIGHTING; HEATING; WEAPONS; BLASTING | 2010 |

MARIANO LOPEZ DE HARO

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 |