

Juan Manuel Islas Islas

Email: docente@utte.edu.mx

ORCID: 0000-0001-6681-7919

DATOS GENERALES

CURP: qweqweqw
RFC: wswqeqwe
Nacionalidad: Mexicana
Fecha de Nacimiento: 28/11/2025

ARTÍCULOS CIENTÍFICOS

1. Alves V.. (2025). **Mapping uncertainty using differentiable programming.** *Aiche Journal*. DOI: 10.1002/aic.18940
2. Xin H.. (2025). **Towards agentic science for advancing scientific discovery.** *Nature Machine Intelligence*. DOI: 10.1038/s42256-025-01110-x
3. Xu W.. (2025). **Spin-informed universal graph neural networks for simulating magnetic ordering.** *Proceedings of the National Academy of Sciences of the United States of America*. DOI: 10.1073/pnas.2422973122
4. Kitchin J.R.. (2025). **Solving an inverse problem with generative models.** *Digital Discovery*. DOI: 10.1039/d5dd00137d
5. Chilkunda C.R.. (2025). **A classification-based methodology for the estimation of binary surfactant critical micelle concentrations.** *Digital Discovery*. DOI: 10.1039/d5dd00058k
6. Yuan M.. (2025). **Integrated Systems-to-Atoms (S2A) Framework for Designing Resilient and Efficient Hydrogen Infrastructure Solutions.** *Energy and Fuels*. DOI: 10.1021/acs.energyfuels.4c05903
7. Wander B.. (2025). **CatTSunami: Accelerating Transition State Energy Calculations with Pretrained Graph Neural Networks.** *ACS Catalysis*. DOI: 10.1021/acscatal.4c04272
8. Sunshine E.M.. (2025). **Multiscale optimization of formic acid dehydrogenation process via linear model decision tree surrogates.** *Computers and Chemical Engineering*. DOI: 10.1016/j.compchemeng.2024.108921
9. Wander B.. (2025). **Accessing Numerical Energy Hessians with Graph Neural Network Potentials and Their Application in Heterogeneous Catalysis.** *Journal of Physical Chemistry C*. DOI: 10.1021/acs.jpcc.4c07477
10. Orouji N.. (2025). **Autonomous catalysis research with human–AI–robot collaboration.** *Nature Catalysis*. DOI: 10.1038/s41929-025-01430-6
11. Ulissi Z.W.. (2024). **Practical Application of Machine Learning in Catalysis.** *Rsc Catalysis Series*. DOI: 10.1039/9781839163296-00224
12. Musielewicz J.. (2024). **Improved Uncertainty Estimation of Graph Neural Network Potentials Using Engineered Latent Space Distances.** *Journal of Physical Chemistry C*. DOI: 10.1021/acs.jpcc.4c04972
13. Sharma U.. (2024). **Enumeration of surface site nuclearity and shape in a database of intermetallic low-index surface facets.** *Journal of Catalysis*. DOI: 10.1016/j.jcat.2024.115795

14. Huang Y.. (2024). **Unifying theory of electronic descriptors of metal surfaces upon perturbation.** *Physical Review B*. DOI: 10.1103/PhysRevB.110.L121404
15. Bender J.T.. (2024). **The Potential of Zero Total Charge Predicts Cation Effects for the Oxygen Reduction Reaction.** *ACS Energy Letters*. DOI: 10.1021/acsenenergylett.4c01897
16. Abdelmaqsoud K.. (2024). **Structure Sensitive Reaction Kinetics of Chiral Molecules on Intrinsically Chiral Surfaces.** *Journal of Physical Chemistry C*. DOI: 10.1021/acs.jpcc.4c04224
17. Abdelmaqsoud K.. (2024). **Investigating the error imbalance of large-scale machine learning potentials in catalysis.** *Catalysis Science and Technology*. DOI: 10.1039/d4cy00615a
18. Broderick K.. (2024). **Surface Segregation Studies in Ternary Noble Metal Alloys: Comparing DFT and Machine Learning with Experimental Data.** *Chemphyschem*. DOI: 10.1002/cphc.202400073
19. Abed J.. (2024). **Pourbaix Machine Learning Framework Identifies Acidic Water Oxidation Catalysts Exhibiting Suppressed Ruthenium Dissolution.** *Journal of the American Chemical Society*. DOI: 10.1021/jacs.4c01353
20. Tedesco C.C.. (2024). **Cyclic Steady-State Simulation and Waveform Design for Dynamic/Programmable Catalysis.** *Journal of Physical Chemistry C*. DOI: 10.1021/acs.jpcc.4c01543
21. Caretta C.A.. (2023). **TRACING THE ASSEMBLY HISTORIES OF GALAXY CLUSTERS IN THE NEARBY UNIVERSE.** *Revista Mexicana De Astronomia Y Astrofisica*. DOI: 10.22201/IA.01851101P.2023.59.02.13
22. Sin autores. (2022). **Characterizations and Use of Recycled Optical Components for Polarizing Phase-Shifting Interferometry Applications.** *Photonics*. DOI: 10.3390/photonics9030125
23. Sin autores. (2021). **Measurement in-plane deformations in electronic speckle pattern interferometry using phase-shifting modulated by polarization.** *Optics Communications*. DOI: 10.1016/j.optcom.2021.127245
24. Sin autores. (2020). **Development of a dynamic interferometer using recycled components based on polarization phase shifting techniques.** *Optics and Laser Technology*. DOI: 10.1016/j.optlastec.2019.105915
25. Sin autores. (2020). **Parallel phase shifting radial shear interferometry with complex fringes and unknown phase shift.** *Applied Optics*. DOI: 10.1364/AO.385632
26. Islas J.M.. (2020). **Development of a phase shifting interferometer using recycled components.** *Proceedings of SPIE the International Society for Optical Engineering*. DOI: 10.1117/12.2568890
27. Sin autores. (2019). **Correction to: Dynamic Mach–Zehnder interferometer based on a Michelson configuration and a cube beam splitter system (Optical Review, (2019), 26, 2, (231-240), 10.1007/s10043-019-00493-8).** *Optical Review*. DOI: 10.1007/s10043-019-00519-1
28. Sin autores. (2019). **Dynamic Mach–Zehnder interferometer based on a Michelson configuration and a cube beam splitter system.** *Optical Review*. DOI: 10.1007/s10043-019-00493-8
29. Sin autores. (2018). **Analysis of mean thickness of a phase objects using one-shot phase shifting interferometry.** *Imaging and Applied Optics 2018 (3D, AO, AIO, COSI, DH, IS, LACSEA, LS&C, MATH, pcAOP)*. DOI: 10.1364/3d.2018.jm4a.18
30. Sin autores. (2018). **Interferometric measurements of phase objects by using a simultaneous polarizing phase shifting Mach-Zehnder interferometer.** *Proceedings of SPIE - The International Society for Optical Engineering*. DOI: 10.1117/12.2322762
31. Sin autores. (2018). **Parallel phase-shifting interferometer with four interferograms using a modified Michelson configuration.** *Optics InfoBase Conference Papers*. DOI: 10.1364/3D.2018.JM4A.36
32. Sin autores. (2015). **Statistical assessment of the relation between the inferred morphological type and the emission-line activity type of a large sample of galaxies.** *Proceedings of the International Astronomical Union*. DOI: 10.1017/S1743921314010734
33. Sin autores. (2014). **A mid infrared study of low-luminosity AGNs with wise.** *Revista Mexicana de Astronomia y Astrofisica*.

34. Sin autores. (2011). **Narrow-Line AGNs: confirming the relationship between metallicity and accretion rate.** *Proceedings of Narrow-Line Seyfert 1 Galaxies and their place in the Universe — PoS(NLS1)*. DOI: 10.22323/1.126.0065
35. Sin autores. (2011). **Low luminosity AGN candidates in SDSS.** *Revista Mexicana de Astronomía y Astrofísica: Serie de Conferencias*.
36. Sin autores. (2011). **Narrow-line AGNs: Confirming the relationship between metallicity and accretion rate.** *Proceedings of Science*.
37. Sin autores. (2011). **Optical and OH megamaser observations of the starburst galaxy IIZw 096.** *Monthly Notices of the Royal Astronomical Society*. DOI: 10.1111/j.1365-2966.2011.19124.x
38. Sin autores. (2011). **Relation between activity, morphology and environment for a large sample of SDSS galaxies.** *Revista Mexicana de Astronomía y Astrofísica: Serie de Conferencias*.
39. Sin autores. (2011). **The detection of extreme low-luminosity AGNs.** *Revista Mexicana de Astronomía y Astrofísica: Serie de Conferencias*.
40. Sin autores. (2011). **The nature and origin of narrow line agn activity in a sample of isolated sdss galaxies.** *Revista Mexicana de Astronomía y Astrofísica*.
41. Sin autores. (2011). **What makes a galaxy radio-loud?.** *Proceedings of the International Astronomical Union*. DOI: 10.1017/S174392131200909X
42. Sin autores. (2006). **The substructure in the cluster Abell 85.** *Proceedings of the International Astronomical Union*. DOI: 10.1017/S1743921306005989
43. Sin autores. (2005). **The H I Parkes Zone of Avoidance Survey: The northern extension.** *Astronomical Journal*. DOI: 10.1086/426320