



NOBORU TAKEUCHI TAN

Datos Generales

Nombre: NOBORU TAKEUCHI TAN

Máximo nivel de estudios: DOCTORADO

Antigüedad académica en la UNAM: 30 años

Nombramientos

Vigente: INVESTIGADOR TITULAR C TC Definitivo
Centro de Nanociencias y Nanotecnología en la UNAM
Desde 01-01-2008 (fecha inicial de registros en el SIIA)

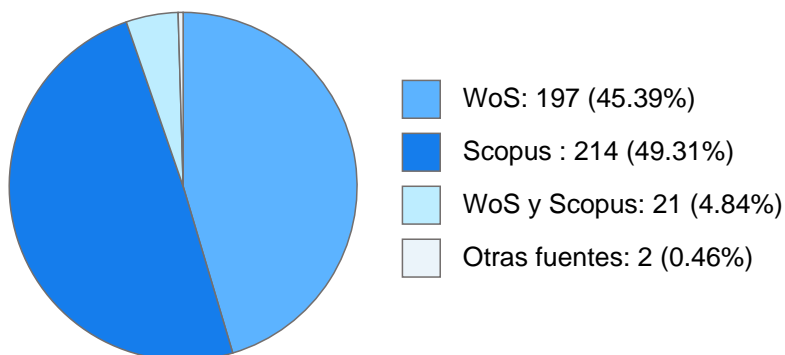
Estímulos, programas, premios y reconocimientos

SNI III - VIGENTE
PRIDE D - VIGENTE
PASPA Estancias de Investigación en el extranjero 2019
PASPA Estancias Sabáticas 2018
PASPA Estancias Sabáticas 2010 - 2011
RDUNJA Investigación en ciencias exactas 2001

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DOCUMENTOS EN REVISTAS

Histórico de Documentos



#	Título	Autores	Revista	Año
1	Two-dimensional antiferromagnetic nodal-line semimetal and spin Hall effect in MnC ₄	NOBORU TAKEUCHI TAN JONATHAN GUERRERO SANCHEZ Fernandez H. et al.	JOURNAL OF PHYSICS-CONDENSED MATTER	2024
2	Density Functional Theory Study of Single-Atom Transition Metal Catalysts Supported on Pyridine-Substituted Graphene Nanosheets for Oxygen Reduction Reaction	HECTOR NOE FERNANDEZ ESCAMILLA JOSE ISRAEL PAEZ ORNELAS JONATHAN GUERRERO SANCHEZ et al.	Acs Applied Nano Materials	2024
3	Towards understanding the first half-ALD cycle of Ag growth: adsorption and dissociation of silver(i) acetamidinates on the Ag(110) surface	JOSE ISRAEL PAEZ ORNELAS NOBORU TAKEUCHI TAN JONATHAN GUERRERO SANCHEZ	PHYSICAL CHEMISTRY CHEMICAL PHYSICS	2024
4	Adsorption of Acrolein, Crotonaldehyde, and Cinnamaldehyde on Pt(111) Surfaces: A Comparative DFT Study	RODRIGO PONCE PEREZ JONATHAN GUERRERO SANCHEZ NOBORU TAKEUCHI TAN et al.	JOURNAL OF PHYSICAL CHEMISTRY C	2024
5	Spin Coupling in the Initial Stages of the Zinc-Blende MnN Growth on the CrN (111) Surface	RODRIGO PONCE PEREZ NOBORU TAKEUCHI TAN Moreno-Hernández J.C. et al.	Advanced Theory and Simulations	2024
6	Accommodating a hexagonal β - phase Mn ₂ N film on a cubic MgO (001) substrate	NOBORU TAKEUCHI TAN Shrestha A. Hernandez J.C.M. et al.	APPLIED SURFACE SCIENCE	2024

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7	Influence of the Atomic Local Environment on the ORR Activity of Single-Atom Catalysts in N-Doped Graphene	JOSE ISRAEL PAEZ ORNELAS HECTOR NOE FERNANDEZ ESCAMILLA JONATHAN GUERRERO SANCHEZ et al.	Acs Applied Energy Materials	2024
8	Nb ₂ C and Nb ₂ CO ₂ MXenes as Anodes in Li-Ion Batteries: A Comparative Study by First-Principles Calculations	JOSE ISRAEL PAEZ ORNELAS JONATHAN GUERRERO SANCHEZ RODRIGO PONCE PEREZ et al.	Acs Omega	2024
9	Evidence of Half-Metallicity in the AIP/CrP (001) Interface: A First-Principles Study	NOBORU TAKEUCHI TAN RODRIGO PONCE PEREZ Edgar D. Sanchez-Ovalle et al.	Acs Applied Electronic Materials	2024
10	First-Principles Studies of the Electronic and Optical Properties of Two-Dimensional Arsenic-Phosphorus (2D As-P) Compounds	JONATHAN GUERRERO SANCHEZ NOBORU TAKEUCHI TAN Jose Mario Galicia Hernandez et al.	Acs Omega	2024
11	Crotonaldehyde Adsorption on Cu-Pt Surface Alloys: A Quantum Mechanics Study	JONATHAN GUERRERO SANCHEZ NOBORU TAKEUCHI TAN Ruvalcaba R. et al.	Chemistry-Switzerland	2023
12	Molecular beam epitaxy and crystal structure of majority a-plane-oriented and substrate-strained Mn ₃ Sn thin films grown directly on sapphire (0001)	NOBORU TAKEUCHI TAN Upadhyay S. Erickson T. et al.	JOURNAL OF VACUUM SCIENCE & TECHNOLOGY A	2023
13	Assessing the stability of Kagome D019-Mn ₃ Ga (0001) surfaces: A first-principles study	JONATHAN GUERRERO SANCHEZ RODRIGO PONCE PEREZ NOBORU TAKEUCHI TAN et al.	Surfaces And Interfaces	2023
14	Study of the structure, structural transition, interface model, and magnetic moments of CrN grown on MgO(001) by molecular beam epitaxy	RODRIGO PONCE PEREZ NOBORU TAKEUCHI TAN Alam K. et al.	JOURNAL OF VACUUM SCIENCE & TECHNOLOGY A	2023
15	2D MnC ₄ : A Room-Temperature Antiferromagnetic System	HECTOR NOE FERNANDEZ ESCAMILLA JOSE ISRAEL PAEZ ORNELAS NOBORU TAKEUCHI TAN et al.	Advanced Theory and Simulations	2023
16	Insights about AIP (001) Surface Reconstructions: A Density Functional Theory Study	NOBORU TAKEUCHI TAN RODRIGO PONCE PEREZ Edgar Daniel Sanchez Ovalle et al.	Acs Applied Electronic Materials	2023
17	Atomic-scale study of TiO ₂ -GR nanohybrid formation by ALD: the effect of the gas phase precursor	RODRIGO PONCE PEREZ NOBORU TAKEUCHI TAN HUGO JESUS TIZNADO VAZQUEZ et al.	Nanoscale Advances	2023
18	Exploring the interfacial structure and crystallinity for direct growth of Mn ₃ Sn(0001) on sapphire (0001) by molecular beam epitaxy	NOBORU TAKEUCHI TAN Upadhyay S. Erickson T. et al.	Surfaces And Interfaces	2023

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19	Mn induces a 1×3 reconstruction in the ferromagnetic L21 Mn ₂ FeGa (001) surface	JONATHAN GUERRERO SANCHEZ RODRIGO PONCE PEREZ NOBORU TAKEUCHI TAN et al.	Surfaces And Interfaces	2023
20	Pt ₂ MnGa (001) surface stability and its effect on the magnetic and electronic properties: A DFT study	HECTOR NOE FERNANDEZ ESCAMILLA NOBORU TAKEUCHI TAN JONATHAN GUERRERO SANCHEZ et al.	Materials Today Communications	2022
21	Adsorption, thermal conversion, and catalytic hydrogenation of acrolein on Cu surfaces	RODRIGO PONCE PEREZ NOBORU TAKEUCHI TAN Mindika Tilan Nayakasinghe et al.	JOURNAL OF CATALYSIS	2022
22	Tuning the half-metallicity in reconstructed CrN (111) surfaces	RODRIGO PONCE PEREZ NOBORU TAKEUCHI TAN Juan C. Moreno Hernandez et al.	Surfaces And Interfaces	2022
23	Evaluating the detection and trapping of small gas molecules on hydrogenated siligene	HECTOR NOE FERNANDEZ ESCAMILLA JOSE ISRAEL PAEZ ORNELAS RODRIGO PONCE PEREZ et al.	PHYSICA SCRIPTA	2022
24	Electronic and optical properties of the buckled and puckered phases of phosphorene and arsenene	HECTOR NOE FERNANDEZ ESCAMILLA JONATHAN GUERRERO SANCHEZ NOBORU TAKEUCHI TAN et al.	SCIENTIFIC REPORTS	2022
25	Antiferromagnetic coupling in the initial stages of the MnN epitaxial growth on the CrN (001) surface	NOBORU TAKEUCHI TAN Moreno H. J.C. Ponce-Pérez R. et al.	APPLIED SURFACE SCIENCE	2022
26	Self-energy corrected band-gap tuning induced by strain in the hexagonal boron phosphide monolayer	JONATHAN GUERRERO SANCHEZ HECTOR NOE FERNANDEZ ESCAMILLA NOBORU TAKEUCHI TAN et al.	COMPUTATIONAL MATERIALS SCIENCE	2022
27	Controlling the magnetic alignment at the MnGa/Co ₂ MnSi interface: A DFT study	ADRIAN TELLEZ MORA HECTOR NOE FERNANDEZ ESCAMILLA NOBORU TAKEUCHI TAN et al.	JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS	2022
28	An atomistic study on the structural and thermodynamic properties of Al ₂ Fe bimetallic nanoparticles during melting and solidification: The role of size and composition	JONATHAN GUERRERO SANCHEZ NOBORU TAKEUCHI TAN Cuba-Supanta G. et al.	MATERIALS CHEMISTRY AND PHYSICS	2022
29	Adsorption of sorbitan ester surfactant on copper and Cuprous oxide surfaces: A density functional theory study	NOBORU TAKEUCHI TAN HUGO JESUS TIZNADO VAZQUEZ JONATHAN GUERRERO SANCHEZ et al.	APPLIED SURFACE SCIENCE	2022
30	Atomic-scale understanding of the Na and Cl trapping on the Mo _{1.33} C(OH) ₂ -MXene	JONATHAN GUERRERO SANCHEZ MARIA GUADALUPE MORENO ARMENTA NOBORU TAKEUCHI TAN et al.	SCIENTIFIC REPORTS	2022

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31	Chlorine in NiO promotes electroreduction of CO ₂ to formate	RODRIGO PONCE PEREZ JONATHAN GUERRERO SANCHEZ NOBORU TAKEUCHI TAN et al.	Applied Materials Today	2022
32	Adsorption and Reactivity of Chiral Modifiers in Heterogeneous Catalysis: 1-(1-Naphthyl)ethylamine on Pt Surfaces	HECTOR NOE FERNANDEZ ESCAMILLA JONATHAN GUERRERO SANCHEZ NOBORU TAKEUCHI TAN et al.	ACS CATALYSIS	2022
33	Atomic-scale visualization of topological spin textures in the chiral magnet MnGe	NOBORU TAKEUCHI TAN JONATHAN GUERRERO SANCHEZ Jacob Repicky et al.	Science	2021
34	Investigating the magnetic and atomic interface configuration for a model Fe/CrN bilayer system	NOBORU TAKEUCHI TAN Khan Alam Rodrigo Ponce-Perez et al.	JOURNAL OF VACUUM SCIENCE & TECHNOLOGY A	2021
35	Understanding the Selectivity of the Oxygen Reduction Reaction at the Atomistic Level on Nitrogen-Doped Graphitic Carbon Materials	HECTOR NOE FERNANDEZ ESCAMILLA JONATHAN GUERRERO SANCHEZ ENRIQUE CONTRERAS BERNABE et al.	ADVANCED ENERGY MATERIALS	2021
36	A first-principles study of the atomic layer deposition of ZnO on carboxyl functionalized carbon nanotubes: The role of water molecules	HECTOR NOE FERNANDEZ ESCAMILLA HUGO ALEJANDRO BORBON NUÑEZ HUGO JESUS TIZNADO VAZQUEZ et al.	PHYSICAL CHEMISTRY CHEMICAL PHYSICS	2021
37	Adsorption of crotonaldehyde on metal surfaces: Cu vs Pt	JONATHAN GUERRERO SANCHEZ NOBORU TAKEUCHI TAN Mindika Tilan Nayakasinghe et al.	JOURNAL OF CHEMICAL PHYSICS	2021
38	Surface structures of magnetostrictive D0(3)-Fe ₃ Ga(001)	NOBORU TAKEUCHI TAN JONATHAN GUERRERO SANCHEZ Ruvalcaba R. et al.	APPLIED SURFACE SCIENCE	2021
39	Understanding the Noncollinear Antiferromagnetic IrMn ₃ Surfaces and Their Exchange-Biased Heterostructures from First-Principles	NOBORU TAKEUCHI TAN JONATHAN GUERRERO SANCHEZ Daniel Maldonado-Lopez	Acs Applied Electronic Materials	2021
40	First-principles studies of the strain-induced band-gap tuning in black phosphorene	JONATHAN GUERRERO SANCHEZ HECTOR NOE FERNANDEZ ESCAMILLA NOBORU TAKEUCHI TAN et al.	JOURNAL OF PHYSICS-CONDENSED MATTER	2021
41	Cinnamaldehyde adsorption and thermal decomposition on copper surfaces)	JONATHAN GUERRERO SANCHEZ NOBORU TAKEUCHI TAN Bo Chen et al.	JOURNAL OF VACUUM SCIENCE & TECHNOLOGY A	2021
42	Structural, electronic, and magnetic properties of the CoGa (001) surface and the L1(0) MnGa/CoGa interface: A density functional theory study	JONATHAN GUERRERO SANCHEZ NOBORU TAKEUCHI TAN Alejandro Nogueron et al.	APPLIED SURFACE SCIENCE	2020

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43	Formaldehyde adsorption on a hydrogenated gallium nitride monolayer: A density functional theory study	JONATHAN GUERRERO SANCHEZ NOBORU TAKEUCHI TAN Alvarado-Leal L.A. et al.	APPLIED SURFACE SCIENCE	2020
44	Exchange bias and exchange spring effects in Fe/CrN bilayers	NOBORU TAKEUCHI TAN Khan Alam Keng-Yuan Meng et al.	JOURNAL OF PHYSICS D-APPLIED PHYSICS	2020
45	Determining Surface Terminations and Chirality of Noncentrosymmetric FeGe Thin Films via Scanning Tunneling Microscopy	JONATHAN GUERRERO SANCHEZ NOBORU TAKEUCHI TAN Corbett J.P. et al.	ACS APPLIED MATERIALS & INTERFACES	2020
46	Kinetic Study of the Hydrogenation of Unsaturated Aldehydes Promoted by CuPtx/SBA-15 Single-Atom Alloy (SAA) Catalysts	JONATHAN GUERRERO SANCHEZ NOBORU TAKEUCHI TAN Cao Y. et al.	ACS CATALYSIS	2020
47	Role of oligomer structures in the surface chemistry of amidinate metal complexes used for atomic layer deposition of thin films	JONATHAN GUERRERO SANCHEZ NOBORU TAKEUCHI TAN Bo Chen et al.	JOURNAL OF MATERIALS RESEARCH	2020
48	The effect of strain on the structural and dynamical stability of hydrogenated penta-C2Ge: a density functional theory study	JONATHAN GUERRERO SANCHEZ EDUARDO MARTINEZ GUERRA NOBORU TAKEUCHI TAN et al.	JOURNAL OF PHYSICS D-APPLIED PHYSICS	2020
49	Understanding the first half-ALD cycle of the ZnO growth on hydroxyl functionalized carbon nanotubes	JONATHAN GUERRERO SANCHEZ HUGO ALEJANDRO BORBON NUÑEZ HUGO JESUS TIZNADO VAZQUEZ et al.	PHYSICAL CHEMISTRY CHEMICAL PHYSICS	2020
50	Density Functional Theory Study of the Adsorption and Dissociation of Copper(I) Acetamidinates on Ni(110): The Effect of the Substrate	NOBORU TAKEUCHI TAN JONATHAN GUERRERO SANCHEZ Emiliano Ventura-Macias et al.	JOURNAL OF PHYSICAL CHEMISTRY C	2020
51	Adsorption and diffusion mechanisms of silver ad-atoms on Ag and Cu (110) surfaces: A first principles study	HECTOR NOE FERNANDEZ ESCAMILLA NOBORU TAKEUCHI TAN JONATHAN GUERRERO SANCHEZ et al.	Materials Today Communications	2020
52	Aldehyde trapping by self-propagating atom-exchange reactions on a gallium nitride monolayer: role of the molecule complexity	EDUARDO MARTINEZ GUERRA HECTOR NOE FERNANDEZ ESCAMILLA JONATHAN GUERRERO SANCHEZ et al.	NEW JOURNAL OF CHEMISTRY	2020

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53	Structural properties and thermal stability of multi-walled black phosphorene nanotubes and their operation as temperature driven nanorotors	HECTOR NOE FERNANDEZ ESCAMILLA JONATHAN GUERRERO SANCHEZ NOBORU TAKEUCHI TAN et al.	Nanoscale	2020
54	Membranes made of nitrogen-doped CNTs decorated with magnetite NPs for cleaning treated wastewater	ENRIQUE CONTRERAS BERNABE DAVID ALEJANDRO DOMINGUEZ VARGAS HUGO JESUS TIZNADO VAZQUEZ et al.	Abstracts Of Papers Of The American Chemical Society	2019
55	Zig-zag boron nitride nanotubes functionalization with acetylene molecules: a density functional theory study	NOBORU TAKEUCHI TAN Ponce-Pérez R. Cocolletzi G.H.	ADSORPTION-J OURNAL OF THE INTERNATIONAL ADSORPTION SOCIETY	2019
56	DFT study of the dimethyl sulfoxide reduction on silicene	NOBORU TAKEUCHI TAN Reyes García-Díaz Jonathan Guerrero-Sánchez et al.	APPLIED SURFACE SCIENCE	2019
57	Adsorption of dimethyl sulfoxide on blue phosphorene	JONATHAN GUERRERO SANCHEZ NOBORU TAKEUCHI TAN H. N. Fernandez-Escamilla et al.	SURFACE SCIENCE	2019
58	N-Doped carbon nanotubes enriched with graphitic nitrogen in a buckypaper configuration as efficient 3D electrodes for oxygen reduction to H ₂ O ₂	ENRIQUE CONTRERAS BERNABE DAVID ALEJANDRO DOMINGUEZ VARGAS HUGO JESUS TIZNADO VAZQUEZ et al.	Nanoscale	2019
59	Density Functional Theory Study of the Surface Adsorption and Dissociation of Copper(I) Acetamidates on Cu(110) Surfaces	JONATHAN GUERRERO SANCHEZ NOBORU TAKEUCHI TAN Zaera F.	JOURNAL OF PHYSICAL CHEMISTRY C	2019
60	Silicene as an efficient way to fully inactivate the SO ₂ pollutant	JONATHAN GUERRERO SANCHEZ NOBORU TAKEUCHI TAN Munoz-Pizza D.M.	APPLIED SURFACE SCIENCE	2019
61	Structural and Electronic Properties of Double-Walled Black Phosphorene Nanotubes: A Density Functional Theory Study	JONATHAN GUERRERO SANCHEZ NOBORU TAKEUCHI TAN Fernández-Escamilla H.N. et al.	JOURNAL OF PHYSICAL CHEMISTRY C	2019
62	Formaldehyde trapping by radical initiated reaction on hydrogenated boron nitride	JONATHAN GUERRERO SANCHEZ NOBORU TAKEUCHI TAN Cuba-Supanta G. et al.	APPLIED SURFACE SCIENCE	2019
63	Functionalization of silicene and silicane with benzaldehyde	JONATHAN GUERRERO SANCHEZ NOBORU TAKEUCHI TAN Rubi Zarmiento-García	JOURNAL OF MOLECULAR MODELING	2019

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64	Coadsorption of Formic Acid and Hydrazine on Cu(110) Single-Crystal Surfaces	JONATHAN GUERRERO SANCHEZ NOBORU TAKEUCHI TAN Yunxi Yao et al.	JOURNAL OF PHYSICAL CHEMISTRY C	2019
65	Dislocation structures, interfacing, and magnetism in the $\text{LiO}-\text{MnGa}$ on Fe/Mn 3 N 2 bilayer	JONATHAN GUERRERO SANCHEZ NOBORU TAKEUCHI TAN Corbett J.P. et al.	JOURNAL OF VACUUM SCIENCE & TECHNOLOGY A	2019
66	Nitrogen-induced reconstructions on the Cr(001) surface	JONATHAN GUERRERO SANCHEZ NOBORU TAKEUCHI TAN Ventura-Macias E. et al.	APPLIED SURFACE SCIENCE	2019
67	Formaldehyde adsorption on a hydrogenated aluminum nitride monolayer: A self-propagated reaction	JONATHAN GUERRERO SANCHEZ NOBORU TAKEUCHI TAN Noguero A. et al.	COMPUTATIONAL AND THEORETICAL CHEMISTRY	2019
68	Puckered arsenene single-walled nanotubes: Stability, geometry, and electronic properties	JONATHAN GUERRERO SANCHEZ NOBORU TAKEUCHI TAN Fernández-Escamilla H.N. et al.	COMPUTATIONAL MATERIALS SCIENCE	2019
69	Adsorption and dissociation of NO_2 on silicene	JONATHAN GUERRERO SANCHEZ NOBORU TAKEUCHI TAN Fernández-Escamilla H.N. et al.	APPLIED SURFACE SCIENCE	2019
70	Controlling Selectivity in Unsaturated Aldehyde Hydrogenation Using Single-Site Alloy Catalysts	JONATHAN GUERRERO SANCHEZ NOBORU TAKEUCHI TAN Cao Y. et al.	ACS CATALYSIS	2019
71	Structural transition induced by compression and stretching of puckered arsenene nanotubes	JONATHAN GUERRERO SANCHEZ NOBORU TAKEUCHI TAN Quijano-Briones J.J. et al.	PHYSICAL CHEMISTRY CHEMICAL PHYSICS	2019
72	Formation of ferromagnetic/ferrimagnetic epitaxial interfaces: Stability and magnetic properties	JONATHAN GUERRERO SANCHEZ NOBORU TAKEUCHI TAN	COMPUTATIONAL MATERIALS SCIENCE	2018
73	Mn induced $\sqrt{3}\times\sqrt{3}$ reconstruction in the $\text{t-MnAl}(\text{O}/\text{O}^{\text{I}})$ surface	JONATHAN GUERRERO SANCHEZ NOBORU TAKEUCHI TAN	JOURNAL OF CRYSTAL GROWTH	2018
74	Structural, electronic, and magnetic properties of the CrN ($\text{O}/\text{O}^{\text{I}}$) surface: First-principles studies	NOBORU TAKEUCHI TAN R. Ponce-Perez Khan Alam et al.	APPLIED SURFACE SCIENCE	2018
75	VI IBERO-AMERICAN SYMPOSIUM ON DISSEMINATION AND TRAINING IN NANOTECHNOLOGY, NANODYF 2017	NOBORU TAKEUCHI TAN Joaquin Dario Tutor Sanchez	MOMENTO-REVISTA DE FISICA	2018
76	TEACHING OF NANOTECHNOLOGY IN SECONDARY EDUCATION: THEORY AND PRACTICE	ROBERTO VAZQUEZ MUÑOZ NOBORU TAKEUCHI TAN	MOMENTO-REVISTA DE FISICA	2017

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77	5TH IBEROAMERICAN SYMPOSIUM FOR OUTREACH AND TRAINING IN NANOTECHNOLOGY, NANODYF 2016	NOBORU TAKEUCHI TAN Joaquin Dario Tutor Sanchez	MOMENTO-REVI STA DE FISICA	2017
78	Structural, electronic and magnetic properties of the MnGa(111)-1 × 2 and 2 × 2 reconstructions: Spin polarized first principles total energy calculations	NOBORU TAKEUCHI TAN Garcia-Diaz, Reyes Cocoltzi, Gregorio H. et al.	APPLIED SURFACE SCIENCE	2017
79	Structural and magnetic phase transitions in chromium nitride thin films grown by rf nitrogen plasma molecular beam epitaxy	NOBORU TAKEUCHI TAN Alam, Khan Disseler, Steven M. et al.	PHYSICAL REVIEW B	2017
80	Formaldehyde adsorption on graphane	JONATHAN GUERRERO SANCHEZ NOBORU TAKEUCHI TAN Ventura-Macias, Emiliano	COMPUTATIONAL AND THEORETICAL CHEMISTRY	2017
81	Acetylene chain reaction on hydrogenated boron nitride monolayers: a density functional theory study	NOBORU TAKEUCHI TAN Ponce-Pérez R. Cocoltzi G.H.	JOURNAL OF MOLECULAR MODELING	2017
82	Structural stability stability and the electronic and magnetic properties of ferrimagnetic Mn ₄ N(001) surfaces	NOBORU TAKEUCHI TAN Guerrero-Sánchez, J.	APPLIED SURFACE SCIENCE	2017
83	Zinc-blende MnN bilayer formation on the GaN(111) surface	ABDIEL ANTONIO RAMIREZ TORRES NOBORU TAKEUCHI TAN Gutierrez-Ojeda, S. J. et al.	SUPERLATTICES AND MICROSTRUCTURES	2017
84	Ab-initio study of ReCN in the bulk and as a new two dimensional material	NOBORU TAKEUCHI TAN ARMANDO REYES SERRATO Guerrero-Sanchez, J.	SCIENTIFIC REPORTS	2017
85	Albumin (BSA) adsorption onto graphite stepped surfaces	NOBORU TAKEUCHI TAN Rubio-Pereda, Pamela Vilhena, J. G. et al.	JOURNAL OF CHEMICAL PHYSICS	2017
86	Surface structures of LiO-MnGa (001) by scanning tunneling microscopy and first-principles theory	NOBORU TAKEUCHI TAN Corbett, J.P. Guerrero-Sanchez, J. et al.	APPLIED SURFACE SCIENCE	2017
87	Organic functionalization of silicane with formaldehyde and propanaldehyde	NOBORU TAKEUCHI TAN Morachis-Galindo, Diego Rubio-Pereda, Pamela	APPLIED SURFACE SCIENCE	2017

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88	Simulaciones computacionales para estudiar el nanomundo	JONATHAN GUERRERO SANCHEZ NOBORU TAKEUCHI TAN Rubio-Pereda P.	REVISTA DE LA ACADEMIA COLOMBIANA DE CIENCIAS EXACTAS FISICAS Y NATURALES	2017
89	Antiferromagnetic MnN layer on the MnGa(001) surface	NOBORU TAKEUCHI TAN Guerrero-Sanchez, J.	APPLIED SURFACE SCIENCE	2016
90	Van der Waals molecular interactions in the organic functionalization of graphene, silicane, and germanane with alkene and alkyne molecules: a DFT-D2 study	NOBORU TAKEUCHI TAN Rubio-Pereda, Pamela	JOURNAL OF MOLECULAR MODELING	2016
91	Two-dimensional boron nitride structures functionalization: first principles studies	NOBORU TAKEUCHI TAN Ponce-Perez, R. Cocoletzi, Gregorio H.	JOURNAL OF MOLECULAR MODELING	2016
92	4th IBEROAMERICAN SYMPOSIUM OF DIVULGATION AND FORMATION IN NANOTECHNOLOGY, NANODYF 2015	NOBORU TAKEUCHI TAN Tutor Sanchez, Joaquin Dario	MOMENTO-REVISTA DE FISICA	2016
93	Nitrogen induced phosphorene formation on the boron phosphide (111) surface: A density functional theory study	NOBORU TAKEUCHI TAN Guerrero-Sanchez, J. Lopez-Fuentes, M. et al.	RSC ADVANCES	2016
94	Theoretical investigation of GaN carbon doped	MARIA GUADALUPE MORENO ARMENTA NOBORU TAKEUCHI TAN Espitia Rico M.J. et al.	XLII SYMPOSIUM ON NUCLEAR PHYSICS 2019	2016
95	Mn Adsorption on the GaAs(111)-(2x2)B Surface: First Principles Studies	NOBORU TAKEUCHI TAN LEONARDO MORALES DE LA GARZA Guerrero-Sanchez, Jonathan et al.	ZEITSCHRIFT FUR PHYSIKALISCHE CHEMIE-INTERNATIONAL JOURNAL OF RESEARCH IN PHYSICAL CHEMISTRY & CHEMICAL PHYSICS	2016
96	Understanding the stability of Fe incorporation within Mn ₃ N ₂ (001) surfaces: An ab-initio study	NOBORU TAKEUCHI TAN Guerrero-Sanchez, J. Mandru, Andrada-Oana et al.	APPLIED SURFACE SCIENCE	2016

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97	Ab-initio study of the γ adsorption and YN formation on the GaN(0001) surface: Diffusion pathways and stability	JONATHAN GUERRERO SANCHEZ NOBORU TAKEUCHI TAN Cocolletzi, Gregorio H. et al.	SUPERLATTICES AND MICROSTRUCTURES	2016
98	Formation of InN atomic-size wires by simple N adsorption on the In/Si(111)-(4 x 1) surface	JONATHAN GUERRERO SANCHEZ NOBORU TAKEUCHI TAN	APPLIED SURFACE SCIENCE	2016
99	Surface reactivity of Ge[111] for organic functionalization by means of a radical-initiated reaction: A DFT study	NOBORU TAKEUCHI TAN Rubio-Pereda, Pamela	APPLIED SURFACE SCIENCE	2016
100	The most stable mono-layers of (111)-Pt (fcc) on Graphene: A first-principles GGA study	MARIA GUADALUPE MORENO ARMENTA NOBORU TAKEUCHI TAN Otalora-Acevedo J. et al.	XLII SYMPOSIUM ON NUCLEAR PHYSICS 2019	2016
101	Graphene monolayers on GaN(0001)	MARIA GUADALUPE MORENO ARMENTA NOBORU TAKEUCHI TAN EspitiaRico, Miguel et al.	APPLIED SURFACE SCIENCE	2015
102	Interface formation for a ferromagnetic/antiferromagnetic bilayer system studied by scanning tunneling microscopy and first-principles theory	NOBORU TAKEUCHI TAN Mandru, AndradaOana Pak, Jeongihm et al.	PHYSICAL REVIEW B	2015
103	YN nanostructure formation on the GaN(0001) surface: First principles studies	NOBORU TAKEUCHI TAN GuerreroSanchez, J. Cocolletzi, Gregorio H. et al.	COMPUTATIONAL MATERIALS SCIENCE	2015
104	Structural, electronic and magnetic properties of Mn ₃ N ₂ (001) surfaces	NOBORU TAKEUCHI TAN GuerreroSanchez, J. Mandru, AndradaOana et al.	APPLIED SURFACE SCIENCE	2015
105	Transport properties of atomic-size aluminum chains: first principles and nonequilibrium Green's function studies	NOBORU TAKEUCHI TAN SanchezOchoa, F. Cocolletzi, Gregorio H. et al.	RSC ADVANCES	2015
106	Adsorption of Organic Molecules on the Hydrogenated Germanene: A DFT Study	NOBORU TAKEUCHI TAN RubioPereda, Pamela	JOURNAL OF PHYSICAL CHEMISTRY C	2015
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110	Erratum: Heteroepitaxial growth and surface structure of $\text{LiO-MnGa}(111)$ ultra-thin films on $\text{GaN}(0001)$ (Applied Physics Letters (2013) 103 (161606))	NOBORU TAKEUCHI TAN Mandru, Andrada-Oana Garcia Diaz, Reyes et al.	APPLIED PHYSICS LETTERS	2014
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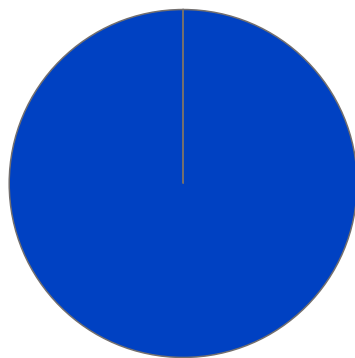
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17	Nanociencia y nanotecnología: la construcción de un mundo mejor átomo por átomo	NOBORU TAKEUCHI TAN	Libro Completo	2015	9786076236062
18	Nanotecnología	NOBORU TAKEUCHI TAN	Libro Completo	2015	9786070265013
19	Energías Limpias, Sësëk yënël muk?	NOBORU TAKEUCHI TAN	Libro Completo	2015	9786070263217
20	Hablemos de Nanotecnología, Dee' te nodonda küümi jom düüygo	NOBORU TAKEUCHI TAN	Libro Completo	2015	9786070270857
21	Hablemos de Nanotecnología, Dee' te nodonda küümi jom düüygo	NOBORU TAKEUCHI TAN	Libro Completo	2015	9786079651220
22	Hablemos de Nanotecnología, Nanotecnologiy knawa	NOBORU TAKEUCHI TAN	Libro Completo	2015	9786070265365
23	Nanociencia y nanotecnología	NOBORU TAKEUCHI TAN	Libro Completo	2015	9786071627995
24	Ja nanociencia jits ja nanotecnología	NOBORU TAKEUCHI TAN	Libro Completo	2014	9786070251733
25	Ja piktä'äky jë myë jk'äjtiin	NOBORU TAKEUCHI TAN	Libro Completo	2014	9786070258800
26	Katamána t' ats' eje sondéle Nanotecnología	NOBORU TAKEUCHI TAN	Libro Completo	2014	9786070258404
27	Energías Limpias, Ya Hogä Nts'edi	NOBORU TAKEUCHI TAN	Libro Completo	2014	9786070261671
28	Energía, Ndyeeé	NOBORU TAKEUCHI TAN	Libro Completo	2014	9786070257681
29	Energías limpias en nuestro mundo	NOBORU TAKEUCHI TAN MARTHA ELOISA APARICIO CEJA	Libro Completo	2014	9786070250286

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30	Conozcamos la nanotecnología, K?ne'la ni nanotecnología	NOBORU TAKEUCHI TAN	Libro Completo	2014	9786070258480
31	Conozcamos la nanotecnología, K?ne'la ni nanotecnología	NOBORU TAKEUCHI TAN	Libro Completo	2014	9786079651213
32	Conozcamos la Nanotecnología, Ko'ox k'ajóoltik le nanotecnología'	NOBORU TAKEUCHI TAN	Libro Completo	2014	9786070250316
33	Nanotecnología, Tatanunio kixiva'a ndachuun	NOBORU TAKEUCHI TAN	Libro Completo	2014	9786070251665
34	Números Mayas de ayer y de hoy, Úuchben yéetel bejla'il maayáaj xokobilo'obe'	NOBORU TAKEUCHI TAN	Libro Completo	2014	9786070262845
35	Números nahuas de ayer y de hoy. In nahuatl tlapoualis: yalhua uan axa	NOBORU TAKEUCHI TAN	Libro Completo	2014	9786070260094
36	Hablemos de nanociencia, Timononohtza inahuac nanociencia	NOBORU TAKEUCHI TAN	Libro Completo	2014	9786070251658
37	Vamos a conocer la nanotecnología, Maga pädihu te'ä ra b'edi ra t'uki t'ot'ä mfädi	NOBORU TAKEUCHI TAN	Libro Completo	2013	9786070246708
38	Descubramos el Mundo de la Nanotecnología, Yugilhajrhu ka nhak yidzlyu kiei Nanoteknologi	NOBORU TAKEUCHI TAN	Libro Completo	2013	9786070247729
39	Energía y medio ambiente.	NOBORU TAKEUCHI TAN	Libro Completo	2013	9786074017007
40	Hablemos de nanociencia, Timononohtza inahuac nanociencia	NOBORU TAKEUCHI TAN	Libro Completo	2013	9786070244155
41	Ja nanociencia jits ja nanotecnología	NOBORU TAKEUCHI TAN	Libro Completo	2013	9786070245800
42	Nanotecnología. Tatanunio Kixiva?a Ndachum.	NOBORU TAKEUCHI TAN	Libro Completo	2013	9786070241734
43	Ja nanociencia jits ja nanotecnología	NOBORU TAKEUCHI TAN	Libro Completo	2013	9786070245800
44	Vamos a conocer la nanotecnología. Maga pä'dihu_ te'a' ra be_di ra nanoteknologi'a	NOBORU TAKEUCHI TAN	Libro Completo	2013	9786070246708
45	Nanociencia y nanotecnología: la construcción de un mundo mejor átomo por átomo	NOBORU TAKEUCHI TAN	Libro Completo	2011	9786071603906
46	Nanociencia y nanotecnología: panorama actual en México	NOBORU TAKEUCHI TAN	Libro Completo	2011	9786070224805
47	Hugo y las Leyes del Movimiento	NOBORU TAKEUCHI TAN Romo, Marisol	Libro Completo	2011	9786077682127
48	El pequeño e increíble nanomundo	NOBORU TAKEUCHI TAN	Libro Completo	2011	9786077682165



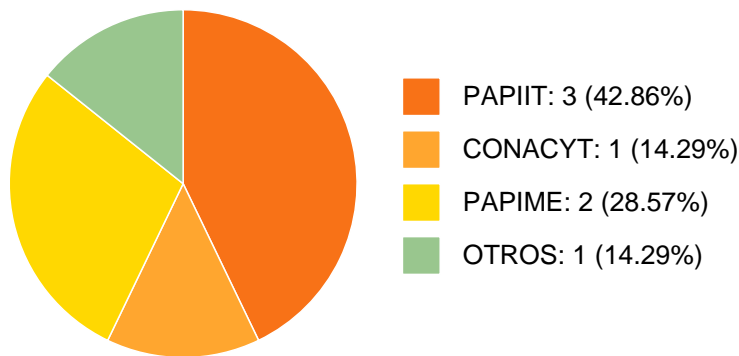
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4	Nanociencia y nanotec tecnología.	NOBORU TAKEUCHI TAN	Libro	2011	9786070224805
9	Panorama actual en Mexico		Completo		
5	Auka: visitando los pueblos Pai Pai,	NOBORU TAKEUCHI TAN	Libro	2011	9786077682202
0	Cucapá, Kumiai y Kiliwa		Completo		
51	Nanociencia y nanotecnología: construyendo un mejor mundo átomo por átomo	NOBORU TAKEUCHI TAN	Libro Completo	2010	9786071601520

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PARTICIPACIÓN EN PROYECTOS

Histórico de participación en proyectos



#	Nombre	Participantes	Fuente	Fecha inicio	Fecha fin
1	Modificación de superficies con la adsorción de átomos y moléculas: un estudio de primeros principios	NOBORU TAKEUCHI TAN	Recursos PAPIIT	01-01-2016	31-12-2018
2	Enseñanza de la ciencia, con énfasis en la nanotecnología, en un México multicultural	NOBORU TAKEUCHI TAN	Recursos PAPIME	01-01-2016	31-12-2018
3	5to Encuentro / talleres conocimientos,Ciencia y Tecnología en un mundo multicultural	NOBORU TAKEUCHI TAN	Recursos CONACYT	13-03-2018	30-11-2018
4	Conocimientos, ciencia y tecnología en un mundo multicultural.	NOBORU TAKEUCHI TAN	Recursos PAPIME	01-01-2019	31-12-2021
5	Estudio de la modificación de superficies y nanoestructuras con la adsorción de átomos y moléculas.	NOBORU TAKEUCHI TAN	Recursos PAPIIT	01-01-2019	31-12-2021
6	Estudio de superficies y su modificación con la adsorción de átomos y moléculas.	NOBORU TAKEUCHI TAN	Recursos CONAHCyT	11-10-2019	11-10-2023



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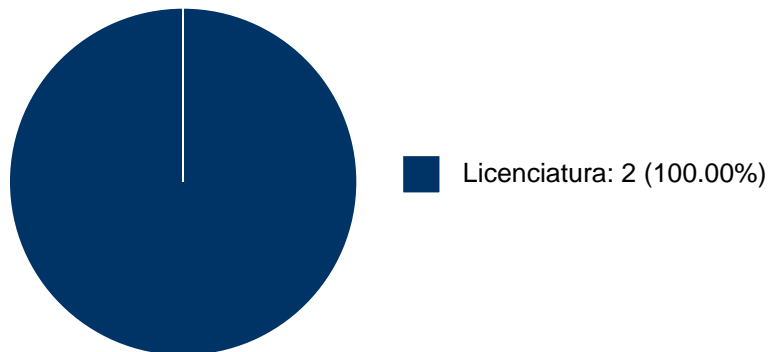
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7	Estudio de la modificación de superficies y nanoestructuras con la adsorción de átomos y moléculas	NOBORU TAKEUCHI TAN	Recursos PAPIIT	01-01-2022	31-12-2024
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PARTICIPACIÓN EN TESIS

Histórico de Colaboraciones en Tesis

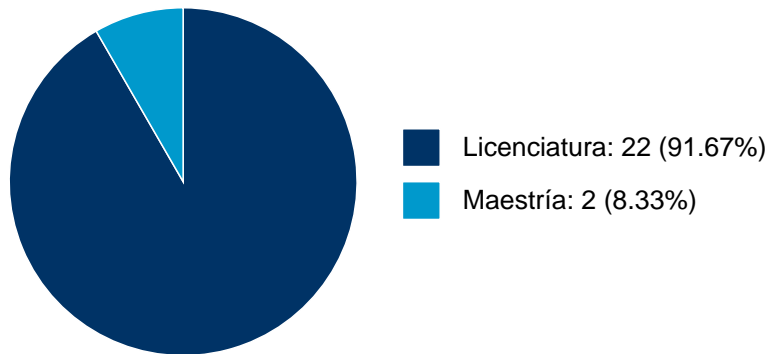


#	Título del documento	Tipo de Tesis	Sinodales	Autores	Entidad	Año
1	Determinación por primeros principios de la estructura de la interfase de MnGa (0 0 1) depositado sobre coga (0 0 1)	Tesis de Licenciatura	NOBORU TAKEUCHI TAN,	Noguerón Arámburu, Alejandro,	Centro de Nanociencias y Nanotecnología en la UNAM,	2019
2	Simulación por primeros principios de la funcionalización de grafeno hidrogenado con formaldehído	Tesis de Licenciatura	NOBORU TAKEUCHI TAN,	Ventura Macías, Miguel Emiliano,	Centro de Nanociencias y Nanotecnología en la UNAM,	2017

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DOCENCIA IMPARTIDA

Histórico de docencia



#	Nivel titulación	Asignatura	Entidad	Alumnos	Semestre
1	Licenciatura	MECANICA CLASICA	Centro de Nanociencias y Nanotecnología en la UNAM	12	2024-2
2	Licenciatura	MECANICA CLASICA	Centro de Nanociencias y Nanotecnología en la UNAM	11	2024-2
3	Licenciatura	MECANICA CLASICA	Centro de Nanociencias y Nanotecnología en la UNAM	9	2023-2
4	Licenciatura	MECANICA CLASICA	Centro de Nanociencias y Nanotecnología en la UNAM	9	2023-2
5	Licenciatura	MECANICA CLASICA	Centro de Nanociencias y Nanotecnología en la UNAM	11	2022-2
6	Licenciatura	MECANICA CLASICA	Centro de Nanociencias y Nanotecnología en la UNAM	13	2022-2
7	Licenciatura	MECANICA CLASICA	Centro de Nanociencias y Nanotecnología en la UNAM	14	2021-2

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8	Licenciatura	MECANICA CLASICA	Centro de Nanociencias y Nanotecnología en la UNAM	13	2021-2
9	Licenciatura	MECANICA CLASICA	Centro de Nanociencias y Nanotecnología en la UNAM	13	2020-2
10	Licenciatura	MECANICA CLASICA	Centro de Nanociencias y Nanotecnología en la UNAM	12	2020-2
11	Licenciatura	SIMULACIONES COMPUTACIONALES	Centro de Nanociencias y Nanotecnología en la UNAM	7	2020-1
12	Licenciatura	SIMULACIONES COMPUTACIONALES	Centro de Nanociencias y Nanotecnología en la UNAM	7	2018-1
13	Licenciatura	MECANICA CLASICA	Centro de Nanociencias y Nanotecnología en la UNAM	12	2017-2
14	Licenciatura	MECANICA CLASICA	Centro de Nanociencias y Nanotecnología en la UNAM	15	2017-2
15	Licenciatura	SIMULACIONES COMPUTACIONALES	Centro de Nanociencias y Nanotecnología en la UNAM	6	2017-1
16	Licenciatura	MECANICA CLASICA-332510	Centro de Nanociencias y Nanotecnología en la UNAM	13	2016-2
17	Licenciatura	MECANICA CLASICA-332511	Centro de Nanociencias y Nanotecnología en la UNAM	9	2016-2
18	Licenciatura	MECANICA CLASICA	Centro de Nanociencias y Nanotecnología en la UNAM	12	2015-2
19	Licenciatura	MECANICA CLASICA	Centro de Nanociencias y Nanotecnología en la UNAM	14	2015-2
20	Licenciatura	MECANICA CLASICA	Centro de Nanociencias y Nanotecnología en la UNAM	18	2014-2
21	Licenciatura	MECANICA CLASICA	Centro de Nanociencias y Nanotecnología en la UNAM	16	2014-2



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22	Licenciatura	MECANICA CLASICA	Centro de Nanociencias y Nanotecnología en la UNAM	11	2013-2
23	Maestría	MECANICA CLASICA	Centro de Nanociencias y Nanotecnología en la UNAM	4	2012-2
24	Maestría	MECANICA CLASICA	Centro de Nanociencias y Nanotecnología en la UNAM	1	2008-2



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TUTORIAS EN POSGRADO

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

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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	2008-2024
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