

J₂IFAM 2025

XVI CONFERENCE OF YOUNG RESEARCHERS IN ATOMIC AND MOLECULAR PHYSICS

CERTIFICAMOS QUE,

THIS IS TO CERTIFY THAT,

RAIDEL MARTÍN BARRIOS

HAS DELIVERED AN **ORAL COMMUNICATION** ENTITLED "**INELASTIC COLLISION OF HYDROGEN ATOMS ON TUNGSTEN SURFACES WITH HYDROGEN COVERAGE**" AT THE J₂IFAM 2025 CONFERENCE, CELEBRATED IN VALLADOLID (SPAIN) THE DAYS FEBRUARY 24-27, 2025

Alberto Lesarri

ALBERTO LESARRI,
PRESIDENTE GEFAM

D. Heras

DOMINGO HERAS
PRESIDENTE DEL COMITÉ ORGANIZADOR

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THIS IS TO CERTIFY THAT,

DANIEL FÉLIX GONZÁLEZ

HAS DELIVERED AN **ORAL COMMUNICATION** ENTITLED "**REACTIVE COLLISIONS OF S (3P) + H₃⁺ (1A'')**: FORCE-FIELD APPROACH TO THE AB INITIO POTENTIAL ENERGY SURFACE" AT THE J₂IFAM 2025 CONFERENCE, CELEBRATED IN VALLADOLID (SPAIN)
THE DAYS FEBRUARY 24-27, 2025

Alberto Lesarri

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JAVIER DOMÍNGUEZ-CALVO

HAS DELIVERED AN **ORAL COMMUNICATION** ENTITLED “**HOOKE'S ATOM: A TOY MODEL FOR DFT**” AT THE J₂IFAM 2025 CONFERENCE, CELEBRATED IN VALLADOLID (SPAIN) THE DAYS FEBRUARY 24-27, 2025

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LORENZO PAOLONI

HAS DELIVERED AN **ORAL COMMUNICATION** ENTITLED “**CHARACTERIZATION OF ULTRAFAST PHOTOINDUCED MOLECULAR PROCESSES: MODELING OF TRANSIENT X-RAY PHOTOELECTRON SPECTROSCOPY**” AT THE J₂IFAM 2025 CONFERENCE, CELEBRATED IN VALLADOLID (SPAIN) THE DAYS FEBRUARY 24-27, 2025

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ZHEN WANG

HAS DELIVERED AN **ORAL COMMUNICATION** ENTITLED “**ROTATIONAL STUDY ON ORTHO-/META-BROMOPROPIONIC ACID AND THEIR MONOHYDRATED CLUSTERS**” AT THE J₂IFAM 2025 CONFERENCE, CELEBRATED IN VALLADOLID (SPAIN) THE DAYS FEBRUARY 24-27, 2025

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MARTINO NAPOLI

HAS DELIVERED AN **ORAL COMMUNICATION** ENTITLED “**DENSITY FUNCTIONAL THEORY SIMULATIONS OF SKAERGAARDITE (CUPD) USING QUANTUM ESPRESSO**” AT THE J₂IFAM 2025 CONFERENCE, CELEBRATED IN VALLADOLID (SPAIN) THE DAYS FEBRUARY 24-27, 2025

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THIS IS TO CERTIFY THAT,

NUNO M. CAMPOS

HAS DELIVERED AN **ORAL COMMUNICATION** ENTITLED “**QUANTUM TUNNELING DYNAMICS IN A MOLECULAR SANDWICH**” AT THE J₂IFAM 2025 CONFERENCE, CELEBRATED IN VALLADOLID (SPAIN) THE DAYS FEBRUARY 24-27, 2025

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THIS IS TO CERTIFY THAT,

JIARUI MA

HAS DELIVERED AN **ORAL COMMUNICATION** ENTITLED "**A BROADBAND ROTATIONAL SPECTROSCOPIC STUDY OF TETRAHYDRO-2H-PYRAN-2-OL AND ITS MICRO-HYDRATION**" AT THE J₂IFAM 2025 CONFERENCE, CELEBRATED IN VALLADOLID (SPAIN)
THE DAYS FEBRUARY 24-27, 2025

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THIS IS TO CERTIFY THAT,

GUILLEM VILA-SILES

HAS DELIVERED AN **ORAL COMMUNICATION** ENTITLED "**SHEDDING LIGHT ON
NONLINEAR OPTICAL PROPERTIES: A COMPARATIVE COMPUTATIONAL ANALYSIS**"
AT THE J₂IFAM 2025 CONFERENCE, CELEBRATED IN VALLADOLID (SPAIN) THE DAYS
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PRACHI MISRA

HAS DELIVERED AN **ORAL COMMUNICATION** ENTITLED “**FACILITATING THE SEARCH OF 1-AMINO-2-PROPONAL IN SPACE BY STUDYING ITS ROTATIONAL SPECTRUM**” AT THE J₂IFAM 2025 CONFERENCE, CELEBRATED IN VALLADOLID (SPAIN) THE DAYS
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ARAN INSAUSTI

HAS DELIVERED AN **ORAL COMMUNICATION** ENTITLED "**ROTATIONAL SPECTROSCOPIC STUDY OF A WEAKLY BOND FURFURAL AND N-HEXANE BINARY COMPLEX**" AT THE J₂IFAM 2025 CONFERENCE, CELEBRATED IN VALLADOLID (SPAIN)
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SARAH J. MADLENER

HAS DELIVERED AN **ORAL COMMUNICATION** ENTITLED “**THE INFLUENCE OF CHLORIDE ON THE PHOTOCHEMISTRY OF PYRUVATE IN SALT CLUSTERS**” AT THE J₂IFAM 2025 CONFERENCE, CELEBRATED IN VALLADOLID (SPAIN) THE DAYS FEBRUARY 24-27, 2025

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THIS IS TO CERTIFY THAT,

RITA J.C. ROQUE

HAS DELIVERED AN **ORAL COMMUNICATION** ENTITLED "**THE CONCERTED DYNAMICS
OF WATER MOLECULES AROUND A CHIRAL MOLECULAR SWITCH**" AT THE J₂IFAM
2025 CONFERENCE, CELEBRATED IN VALLADOLID (SPAIN) THE DAYS FEBRUARY 24-27,
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MARÍA MALLO ÁLVAREZ

HAS DELIVERED AN **ORAL COMMUNICATION** ENTITLED “**KINETIC MODELLING OF INTERSTELLAR HYDROCARBONS: CYANO DERIVATIVES OF PROPENE**” AT THE J₂IFAM 2025 CONFERENCE, CELEBRATED IN VALLADOLID (SPAIN) THE DAYS FEBRUARY 24-27, 2025

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ALICIA OMIST

HAS DELIVERED AN **ORAL COMMUNICATION** ENTITLED “**ELECTRONIC AND MAGNETIC PROPERTIES OF TRIANGULENE MONOMER AND ITS OLIGOMERS**” AT THE J₂IFAM 2025 CONFERENCE, CELEBRATED IN VALLADOLID (SPAIN) THE DAYS FEBRUARY 24-27, 2025

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MARIANA LEIFERMAN TAMAMES

HAS DELIVERED AN **ORAL COMMUNICATION** ENTITLED “**ROLE OF IONIZATION AND PROTONATION IN THE FORMATION OF PEPTIDE BONDS IN CLUSTERS OF AMINO ACIDS IN THE GAS PHASE**” AT THE J₂IFAM 2025 CONFERENCE, CELEBRATED IN VALLADOLID (SPAIN) THE DAYS FEBRUARY 24-27, 2025

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IRENE BELLOSO

HAS DELIVERED AN **ORAL COMMUNICATION** ENTITLED “**SIMULATION OF HYDROGEN ADSORPTION ON SINGLE-CLUSTER VANADIUM CATALYSTS SUPPORTED ON LAYERED MATERIALS**” AT THE J₂IFAM 2025 CONFERENCE, CELEBRATED IN VALLADOLID (SPAIN) THE DAYS FEBRUARY 24-27, 2025

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THIS IS TO CERTIFY THAT,

FARHA SAJEEV

HAS DELIVERED AN **ORAL COMMUNICATION** ENTITLED “**WATER COMPLEXES ON A CYCLIC THIOETHER FROM BROADBAND ROTATIONAL SPECTROSCOPY**” AT THE J₂IFAM 2025 CONFERENCE, CELEBRATED IN VALLADOLID (SPAIN) THE DAYS FEBRUARY 24-27, 2025

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THIS IS TO CERTIFY THAT,

KUSHAL SHAW

HAS DELIVERED AN **ORAL COMMUNICATION** ENTITLED "**ULTRAFAST EXCITED-STATE
DYNAMICS OF ANISOLE AND ITS METHYL SUBSTITUTES**" AT THE J₂IFAM 2025
CONFERENCE, CELEBRATED IN VALLADOLID (SPAIN) THE DAYS FEBRUARY 24-27, 2025

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THIS IS TO CERTIFY THAT,

FERNANDO TORRES-HERNÁNDEZ

HAS DELIVERED AN **ORAL COMMUNICATION** ENTITLED “**SPECTROSCOPIC ANALYSIS OF NON-COVALENT INTERACTIONS IN 2-PHENYLETHANETHIOL, 2-PHENYLETHANOL AND 2-PHENYLETHYLAMINE DIMERS**” AT THE J₂IFAM 2025 CONFERENCE, CELEBRATED IN VALLADOLID (SPAIN) THE DAYS FEBRUARY 24-27, 2025

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SHAN JIN

HAS DELIVERED AN **ORAL COMMUNICATION** ENTITLED “**TOWARD DETECTION OF FEH⁺ IN THE INTERSTELLAR MEDIUM: INFRARED MULTIPLE PHOTON DISSOCIATION SPECTROSCOPY OF ARGON-TAGGED FEH⁺**” AT THE J₂IFAM 2025 CONFERENCE, CELEBRATED IN VALLADOLID (SPAIN) THE DAYS FEBRUARY 24-27, 2025

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ROGER CASTILLO DELGADO

HAS DELIVERED AN **ORAL COMMUNICATION** ENTITLED "**GLYCOLIC ACID
MICROSOLVATION IN GAS PHASE**" AT THE J₂IFAM 2025 CONFERENCE, CELEBRATED IN
VALLADOLID (SPAIN) THE DAYS FEBRUARY 24-27, 2025

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JORGE ALONSO DE LA FUENTE

HAS DELIVERED AN **ORAL COMMUNICATION** ENTITLED “**UNVEILING THE ROLE OF PHOSPHORUS HYDRIDES IN ASTROCHEMISTRY: FORMATION, DESTRUCTION AND REACTION DYNAMICS**” AT THE J₂IFAM 2025 CONFERENCE, CELEBRATED IN VALLADOLID (SPAIN) THE DAYS FEBRUARY 24-27, 2025

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RICARDO MORÁN

HAS DELIVERED AN **ORAL COMMUNICATION** ENTITLED “**PROBING THE STRUCTURE OF THE ATMOSPHERIC AEROSOL PRECURSOR PINANEDIOL AND ITS WATER COMPLEXES WITH MICROWAVE SPECTROSCOPY**” AT THE J₂IFAM 2025 CONFERENCE, CELEBRATED IN VALLADOLID (SPAIN) THE DAYS FEBRUARY 24-27, 2025

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PAUL PINILLOS

HAS DELIVERED AN **ORAL COMMUNICATION** ENTITLED “**STUDY OF THE HYDRATION OF ASPARTAME WITH IR-UV SPECTROSCOPY**” AT THE J₂IFAM 2025 CONFERENCE, CELEBRATED IN VALLADOLID (SPAIN) THE DAYS FEBRUARY 24-27, 2025

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SANTIAGO PÉREZ-HERNANDO

HAS DELIVERED AN **ORAL COMMUNICATION** ENTITLED "**STEREODYNAMICS OF COLD
MOLECULAR COLLISIONS**" AT THE J₂IFAM 2025 CONFERENCE, CELEBRATED IN
VALLADOLID (SPAIN) THE DAYS FEBRUARY 24-27, 2025

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DAVID SAN ANDRÉS

HAS DELIVERED AN **ORAL COMMUNICATION** ENTITLED “**FIRST DETECTION IN SPACE OF THE HIGH-ENERGY ISOMER OF CYANOMETHANIMINE: H₂CNCN**” AT THE J₂IFAM 2025 CONFERENCE, CELEBRATED IN VALLADOLID (SPAIN) THE DAYS FEBRUARY 24-27, 2025

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ANDRÉS VERDE

HAS DELIVERED AN **ORAL COMMUNICATION** ENTITLED “**UNRAVELLING THE
STRUCTURE OF RESVERATROL THROUGH LASER-ABLATION ROTATIONAL
SPECTROSCOPY AND QUANTUM CHEMICAL CALCULATIONS**” AT THE J₂IFAM 2025
CONFERENCE, CELEBRATED IN VALLADOLID (SPAIN) THE DAYS FEBRUARY 24-27, 2025

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SAHAR MAHANAE

HAS DELIVERED AN **ORAL COMMUNICATION** ENTITLED "**MOLECULAR DYNAMICS AND DFT SIMULATIONS OF CO₂/CH₄ SEPARATION THROUGH CARBON-BASED NANOPOROUS MEMBRANES: INFLUENCE OF PORE SIZE**" AT THE J2IFAM 2025 CONFERENCE, CELEBRATED IN VALLADOLID (SPAIN) THE DAYS FEBRUARY 24-27, 2025

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**XVI CONFERENCE OF YOUNG RESEARCHERS
IN ATOMIC AND MOLECULAR PHYSICS**

CERTIFICAMOS QUE,

THIS IS TO CERTIFY THAT,

ANTONIO CEBREIRO

HAS DELIVERED AN **ORAL COMMUNICATION** ENTITLED "**MAGNETIC ANALYSIS USING
EFFICIENT STATE-INTERACTION APPROACH**" AT THE J₂IFAM 2025 CONFERENCE,
CELEBRATED IN VALLADOLID (SPAIN) THE DAYS FEBRUARY 24-27, 2025

Alberto Lesarri

ALBERTO LESARRI,
PRESIDENTE GEFAM

D. Heras

DOMINGO HERAS
PRESIDENTE DEL COMITÉ ORGANIZADOR

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CERTIFICAMOS QUE,

THIS IS TO CERTIFY THAT,

AZAHARA ORTIZ

HAS DELIVERED A **FLASH+POSTER COMMUNICATION** ENTITLED
“**PHOTODISSOCIATION INITIATED BY SUNLIGHT OF 2-BUTANONA IN THE
TROPOSPHERE**” AT THE J₂IFAM 2025 CONFERENCE, CELEBRATED IN VALLADOLID
(SPAIN) THE DAYS FEBRUARY 24-27, 2025

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CERTIFICAMOS QUE,

THIS IS TO CERTIFY THAT,

JOHANNA Y. SANDOVAL

HAS DELIVERED A **FLASH+POSTER COMMUNICATION** ENTITLED “**SINGLE ATOM AND SINGLE CLUSTER TRANSITION METAL CATALYSTS SUPPORTED ON GDY AND BGDY LAYERS**” AT THE J₂IFAM 2025 CONFERENCE, CELEBRATED IN VALLADOLID (SPAIN) THE DAYS FEBRUARY 24-27, 2025

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THIS IS TO CERTIFY THAT,

LORENA ACEVEDO

HAS DELIVERED A **FLASH+POSTER COMMUNICATION** ENTITLED "**OPTICAL RESPONSE OF A BINARY ATOMIC SYSTEM WITH GAIN**" AT THE J₂IFAM 2025 CONFERENCE, CELEBRATED IN VALLADOLID (SPAIN) THE DAYS FEBRUARY 24-27, 2025

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THIS IS TO CERTIFY THAT,

JIARUI MA

HAS DELIVERED A **FLASH+POSTER COMMUNICATION** ENTITLED "**ROTATIONAL SPECTROSCOPIC STUDY OF CIS-STILBENE AND ITS WATER COMPLEXES**" AT THE J₂IFAM 2025 CONFERENCE, CELEBRATED IN VALLADOLID (SPAIN) THE DAYS FEBRUARY 24-27, 2025

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THIS IS TO CERTIFY THAT,

SAMRAT DEV

HAS DELIVERED A **FLASH+POSTER COMMUNICATION** ENTITLED "**AZOPHENYL-SUBSTITUTED SCHIFF BASE AS A CU(II) SENSOR: A MOLECULAR SPECTROSCOPY AND DFT-BASED STUDY**" AT THE J₂IFAM 2025 CONFERENCE, CELEBRATED IN VALLADOLID (SPAIN) THE DAYS FEBRUARY 24-27, 2025

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SOFÍA MUNICIO

HAS DELIVERED A **FLASH+POSTER COMMUNICATION** ENTITLED "**THE CONFORMATIONAL PANORAMA OF GABAPENTIN**" AT THE J2IFAM 2025 CONFERENCE, CELEBRATED IN VALLADOLID (SPAIN) THE DAYS FEBRUARY 24-27, 2025

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ANDREA VÁZQUEZ

HAS DELIVERED A **FLASH+POSTER COMMUNICATION** ENTITLED “**INVESTIGATING GAS-PHASE MICROSOLVATION AND CONFORMATIONAL BEHAVIOR OF PYRUVIC ACID USING HIGH-RESOLUTION ROTATIONAL SPECTROSCOPY**” AT THE J₂IFAM 2025 CONFERENCE, CELEBRATED IN VALLADOLID (SPAIN) THE DAYS FEBRUARY 24-27, 2025

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FRANCISCO MARTÍNEZ

HAS DELIVERED A **FLASH+POSTER COMMUNICATION** ENTITLED “**KINETIC STUDY OF CN WITH H₂S AND CH₃CH₂SH AT THE ULTRA-LOW TEMPERATURES OF THE INTERSTELLAR MEDIUM.**” AT THE J₂IFAM 2025 CONFERENCE, CELEBRATED IN VALLADOLID (SPAIN) THE DAYS FEBRUARY 24-27, 2025

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THIS IS TO CERTIFY THAT,

KUSHAL SHAW

HAS DELIVERED A **FLASH+POSTER COMMUNICATION** ENTITLED "**MAPPING CHARGE TRANSFER DYNAMICS IN NITROANILINE AND DERIVATIVES**" AT THE J₂IFAM 2025 CONFERENCE, CELEBRATED IN VALLADOLID (SPAIN) THE DAYS FEBRUARY 24-27, 2025

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THIS IS TO CERTIFY THAT,

SHAN JIN

HAS DELIVERED A **FLASH+POSTER COMMUNICATION** ENTITLED "**SPECTROSCOPY OF IONIC IRON COMPOUNDS WITH ASTROCHEMICAL RELEVANCE**" AT THE J₂IFAM 2025 CONFERENCE, CELEBRATED IN VALLADOLID (SPAIN) THE DAYS FEBRUARY 24-27, 2025

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THIS IS TO CERTIFY THAT,

ÁLVARO DE LA FUENTE VILLANUEVA

HAS DELIVERED AN **FLASH+POSTER COMMUNICATION** ENTITLED “**THEORETICAL
STUDY OF REACTIONS IN THE INTERSTELLAR MEDIUM WITH PHOSPHORUS
RADICALS**” AT THE J₂IFAM 2025 CONFERENCE, CELEBRATED IN VALLADOLID (SPAIN)
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SARA LLORENTE

HAS DELIVERED A **FLASH+POSTER COMMUNICATION** ENTITLED “**INTEGRATION AND CALIBRATION OF A CMOS CAMERA FOR HIGH-RESOLUTION SPECTROSCOPY OF ND III**” AT THE J₂IFAM 2025 CONFERENCE, CELEBRATED IN VALLADOLID (SPAIN) THE DAYS
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THIS IS TO CERTIFY THAT,

MUNAVVAR HUSAIN

HAS DELIVERED A **FLASH+POSTER COMMUNICATION** ENTITLED "**EXPLORING THE
EXCITATION EFFECTS OF FLUORINE AND COBALT SUBSTITUTION ON PORPHINE
USING QUANTUM CHEMISTRY TOPOLOGY**" AT THE J₂IFAM 2025 CONFERENCE,
CELEBRATED IN VALLADOLID (SPAIN) THE DAYS FEBRUARY 24-27, 2025

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SÉRGIO R. DOMINGOS

HAS DELIVERED A **PLENARY TALK** ENTITLED "**MOLECULAR STRUCTURE AND
RECOGNITION IN THE GAS PHASE: A ROTATIONAL EXPEDITION**" AT THE J₂IFAM 2025
CONFERENCE, CELEBRATED IN VALLADOLID (SPAIN) THE DAYS FEBRUARY 24-27, 2025

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THIS IS TO CERTIFY THAT,

CHRISTIAN CLEAR

HAS DELIVERED A **PLENARY TALK** ENTITLED “**THE POWER OF PRECISION: IMPROVING ATOMIC DATA FOR ASTROPHYSICAL DISCOVERIES**” AT THE J2IFAM 2025 CONFERENCE, CELEBRATED IN VALLADOLID (SPAIN) THE DAYS FEBRUARY 24-27, 2025

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MIGUEL GALLEGOS

HAS DELIVERED AN **INVITED TALK** ENTITLED “**EXPLAINABLE CHEMICAL AI (XCAI):
MOVING BEYOND ACCURATE PREDICTIONS**” AT THE J₂IFAM 2025 CONFERENCE,
CELEBRATED IN VALLADOLID (SPAIN) THE DAYS FEBRUARY 24-27, 2025

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CERTIFICAMOS QUE,

THIS IS TO CERTIFY THAT,

JAVIER ORTÍN-FERNÁNDEZ

HAS DELIVERED AN **INVITED TALK** ENTITLED “**NEXTMOL: A COMPUTATIONAL CHEMISTRY PLATFORM TO BUILD, CHARACTERIZE AND PREDICT IN THE SPECIALTY CHEMICAL INDUSTRY**” AT THE J₂IFAM 2025 CONFERENCE, CELEBRATED IN VALLADOLID (SPAIN) THE DAYS FEBRUARY 24-27, 2025

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CERTIFICAMOS QUE,

THIS IS TO CERTIFY THAT,

CATALINA COLL

HAS DELIVERED AN **INVITED TALK** ENTITLED “**THEORETICAL STUDY OF REALISTIC SILICON NANOSTRUCTURES: STRUCTURAL, ELECTRONIC AND VIBRATIONAL PROPERTIES**” AT THE J₂IFAM 2025 CONFERENCE, CELEBRATED IN VALLADOLID (SPAIN)
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CERTIFICAMOS QUE,

THIS IS TO CERTIFY THAT,

CLARA INÉS ALCOLADO

HAS DELIVERED AN **INVITED TALK** ENTITLED “**INSPIRING WOMEN IN STEM**” AT THE
J2IFAM 2025 CONFERENCE, CELEBRATED IN VALLADOLID (SPAIN) THE DAYS FEBRUARY
24-27, 2025

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CERTIFICAMOS QUE,

THIS IS TO CERTIFY THAT,

JAVIER CARMONA-GARCÍA

HAS DELIVERED AN **INVITED TALK** ENTITLED "**SHEDDING LIGHT ON ATMOSPHERIC
PHOTOCHEMISTRY BY MEANS OF COMPUTATIONAL METHODS**" AT THE J2IFAM 2025
CONFERENCE, CELEBRATED IN VALLADOLID (SPAIN) THE DAYS FEBRUARY 24-27, 2025

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CERTIFICAMOS QUE,

THIS IS TO CERTIFY THAT,

MARKEL YLLA

HAS DELIVERED AN **INVITED TALK** ENTITLED “**MACHINE LEARNING MODEL FOR MULTIREFERENCE DIAGNOSTICS BASED ON KOHN-SHAM ENERGIES**” AT THE J₂IFAM 2025 CONFERENCE, CELEBRATED IN VALLADOLID (SPAIN) THE DAYS FEBRUARY 24-27, 2025

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IRENE VALLADARES DUQUE

HAS ATTENDED THE J₂IFAM 2025 CONFERENCE, CELEBRATED IN VALLADOLID (SPAIN)
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DANIEL BIBIK

HAS ATTENDED THE J₂IFAM 2025 CONFERENCE, CELEBRATED IN VALLADOLID (SPAIN)
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VUK BALETIC

HAS ATTENDED THE J₂IFAM 2025 CONFERENCE, CELEBRATED IN VALLADOLID (SPAIN)
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VANJA BACKOVIC

HAS ATTENDED THE J₂IFAM 2025 CONFERENCE, CELEBRATED IN VALLADOLID (SPAIN)
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DEJAN KARADZIC

HAS ATTENDED THE J₂IFAM 2025 CONFERENCE, CELEBRATED IN VALLADOLID (SPAIN)
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