

Física Aplicada

Áreas de conocimiento: Física Aplicada

Director: Arturo Moncho Jordá

Secretario: Francisco Javier Montes Ruíz Cabello

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Profesorado: CU: 24; PTU: 18, PCD: 10; Resto de PDI (incluido en el POD): 27

Tesis leídas:

- Desarrollo de una metodología para la integración de la evaluación de los factores de calidad ambiental interiores en el modelado de información de construcción (Building Information Modeling-BIM)
Doctorando: Aguilar Aguilera, Antonio Jesús
Directores: Ruiz Padillo, Diego Pablo ; Martínez Aires, María Dolores
Fecha de lectura: 24/02/2023
Lugar: Departamento de Física Aplicada
- High-resolution imaging of relativistic jets and supermassive black
Doctorando: Fuentes Fernández, Antonio
Directores: Gomez Fernandez, Jose Luis
Fecha de lectura: 25/11/2022
Lugar: Departamento de Física Aplicada
- Magnetorreología en presencia de campos magnéticos triaxiales: formación de estructuras coloidales y análisis de imagen.
Doctorando: Martínez Cano, Óscar
Directores: De Vicente Álvarez-Manzaneda, Juan ; Pérez De Inestrosa, Javier Ramírez
Fecha de lectura: 10/03/2023
Lugar: Departamento de Física Aplicada
- Analysis of the Sierra Nevada elf station recordings: a contribution to the study of the schumann resonances
Doctorando: Rodríguez Camacho, Jesús
Directores: Carrión Pérez, María Carmen ; Salinas Extremera, Alfonso
Fecha de lectura: 09/03/2023
Lugar: Departamento de Física Aplicada
- Hidrological modelling and its application to the study of the impacts of climate change in the spanish catchments.
Doctorando: Yeste Donaire, Patricio Antonio
Directores: María Jesús Esteban Parra, Yolanda Castro Díez
Fecha de lectura: 18/01/2023
Lugar: Departamento de Física Aplicada

Grupos de Investigación.

- FQM115 FISICA DE FLUIDOS Y BIOCÓLOIDES
- Responsable: MARÍA JOSÉ GÁLVEZ RUIZ
- FQM144 FISICA DE INTERFASES Y SISTEMAS COLOIDALES
- Responsable: ANGEL VICENTE DELGADO MORA
- RNM119 FÍSICA DE LA ATMÓSFERA
- Responsable: YOLANDA CASTRO DÍEZ
- TEP232 INVESTIGACIÓN Y DESARROLLO EN INGENIERÍA DE EDIFICACIÓN
- Responsable: ANTOLINO GALLEGU MOLINA
- FQM400 Magnetic Soft Matter Group
- Responsable: JUAN DE VICENTE ALVAREZ-MANZANEDA
- TIC104 SISTEMAS, SEÑALES Y ONDAS
- Responsable: M^a DEL CARMEN CARRIÓN PÉREZ

Dirección y participación en Proyectos I+D

- 2023 PREPARATION FOR ASSESSING THE ROLE OF URBAN GREEN INFRASTRUCTURE IN MITIGATING BIOGENIC AND NON-BIOGENIC CONTAMINATION IN URBAN LIVING LABS (PRE-GREENMITIGATION3), Programa de Proyectos Pre-Competitivos. Plan Propio, 01/01/2023-31/12/2023
Investigador JUAN LUIS GUERRERO RASCADO
- 2023 DISEÑO, CONSTRUCCIÓN Y VALIDACIÓN DE UN CAUDALÍMETRO BASADO EN GALGAS EXTENSIONOMÉTRICAS PARA SUSPENSIONES DE SÍLICE EN SISTEMAS MICROFLUÍDICOS, PROYECTO DE INVESTIGACIÓN PRECOMPETITIVO PARA JÓVENES DOCTORES, 01/01/2023-31/12/2023
Participante JUAN DE VICENTE ALVAREZ-MANZANEDA
Investigador JOSÉ RAFAEL MORILLAS MEDINA
- 2023 Magnetic Multiaxial Microrheology of Anisotropic Living Materials, Universidad de Granada. Plan Propio de Investigación y Transferencia de la Universidad de Granada. Programa 20. Proyectos de

- Investigación Precompetitivos para Jóvenes Investigadores: Modalidad 20.a., 01/01/2023-31/12/2023
Participante JUAN DE VICENTE ALVAREZ-MANZANEDA
- 2022 Micro-reactores inspirados en células artificiales. Explorando su activación a distancia mediante campos de fuerza, ¿Proyectos de Investigación I+D+i del Programa Operativo FEDER Andalucía (2020), 01/01/2022-30/06/2023
Investigador MODESTO TORCUATO LÓPEZ LÓPEZ
Investigador LAURA RODRIGUEZ ARCO
 - 2022 Caracterización de procesos atmosféricos mediante teledetección y simulación: aplicaciones a energías renovables, calidad del aire y ciclo hidrológico, Plan Estatal de Investigación Científica y Técnica y de Innovación 2017-2020., 01/01/2022-31/12/2023
Investigador LUCAS ALADOS ARBOLEDAS
 - 2022 Soportes magnéticos 3D conductivos e inyectables para la reconexión neuronal. MAG-NET, A Ayudas en concurrencia competitiva a proyectos de I+D+i en el marco del programa operativo FEDER Andalucía 2014-2020., 01/01/2022-31/12/2023
Investigador PAOLA SÁNCHEZ MORENO
 - 2022 Nanopartículas camufladas con membranas celulares como potencial tratamiento del glioblastoma, Plan Propio Universidad de Granada, 01/01/2022-31/12/2022
Investigador PAOLA SÁNCHEZ MORENO
 - 2022 NANOPARTICULAS CAMUFLADAS CON MEMBRANAS CELULARES PARA TERAPIA DIRIGIDA DE GLIOBLASTOMA, Proyectos de Generación de Conocimiento 2021 Modalidad: Investigación Orientada Tipo A, 01/09/2022-31/08/2025
Investigador PAOLA SÁNCHEZ MORENO
Investigador/a ANTONIO MARTÍN RODRÍGUEZ
 - 2022 Predicción climática decenal regionalizada en la Península Ibérica: eventos extremos y variables orientadas a los usuarios (PRECLIMDEX), Plan Nacional, 01/09/2022-30/08/2026
Investigador/a MATILDE GARCÍA-VALDECASAS OJEDA
Investigador/a YOLANDA CASTRO DÍEZ
Investigador MARÍA JESÚS ESTEBAN PARRA
Investigador SONIA RAQUEL GÁMIZ FORTIS
 - 2022 Comportamiento de enjambre y agregación de microrrobots mediante interacciones controladas, Programa Estatal para Impulsar la Investigación Científico-Técnica y su Transferencia, 01/09/2022-31/08/2025
Investigador/a ANGEL VICENTE DELGADO MORA
Investigador MARIA LUISA JIMENEZ OLIVARES
 - 2022 Biorremediación sostenible de metales pesados y recuperación de elementos críticos mediante bacterias encapsuladas en hidrogeles, Convocatoria de 2021 de proyectos orientados a la transición ecológica y a la transición digital, del plan estatal de investigación científica, técnica y de innovación 2021-2023, 01/12/2022-30/11/2024
Investigador MODESTO TORCUATO LÓPEZ LÓPEZ
 - 2022 Ring Formation and Yielding Behavior of Dipolar Non-brownian Fluids, EUSMI, 01/01/2022-31/12/2022
Participante JUAN DE VICENTE ALVAREZ-MANZANEDA
Participante JOSÉ RAFAEL MORILLAS MEDINA
 - 2022 Optimización en Laboratorio y Evaluación In-situ del uso de Nanomateriales Magnéticos para la Remediación Ambiental en un Humedal Mediterráneo, Ministerio de Ciencia e Innovación, 01/12/2022-30/11/2024
Responsable JUAN DE VICENTE ALVAREZ-MANZANEDA
Investigador/a FERNANDO VEREDA MORATILLA
 - 2022 USO DE LA TECNICA DE DESALINIZACION CAPACITIVA (CDI) PARA LA SEPARACION SELECTIVA DE IONES DISUELTOS EN AGUA, PROYECTOS ORIENTADOS A LA TRANSICION ECOLOGICA Y DIGITAL, DEL PE DE INVESTIGACION CIENTIFICA, TECNICA Y DE INNOVACION 21-23, EN EL MARCO DEL PRTR, 01/12/2022-30/11/2024
Coordinador GUILLERMO RAMÓN IGLESIAS SALTO
Coordinador SILVIA ALEJANDRA AHUALLI YAPUR

Contratos de investigación

- 2022 Inventario de árboles singulares de los municipios granadinos, ARTÍCULO 83 LOU, 01/11/2022-31/12/2022
Responsable ANTOLINO GALLEGU MOLINA

Publicaciones en revistas

- 2023 Artículo: Impact of urban aerosols on the cloud condensation activity using a clustering model, Science of the Total Environment, 858, 1, 159657-

- DANIEL PÉREZ RAMÍREZ
FRANCISCO JOSE OLMO REYES
HASSAN LYAMANI
JUAN ANDRES CASQUERO VERA
LUCAS ALADOS ARBOLEDAS
- 2023 Artículo: Comment on 'Physical mechanism of vertical gradient of pressure flux and its impact on turbulent flux estimation', *Agricultural and Forest Meteorology*, 328, 109250, -
ANDREW STEPHEN KOWALSKI
- 2023 Artículo: Organic amendments from recycled waste promote short-term carbon sequestration of restored soils in drylands, *Journal of Environmental Management*, 327, 116879, -
ENRIQUE PEREZ SANCHEZ-CAÑETE
- 2023 Artículo: Conocimiento didáctico-matemático sobre la distribución de la media muestral de profesorado de bachillerato en formación., *Uniciencia*, 37, 1, 1-20
JOSÉ ANTONIO GARZÓN GUERRERO
- 2023 Artículo en prensa: Conocimiento didáctico-matemático de profesores de educación secundaria en formación sobre inferencia estadística., *Bolema : Boletim de Educação Matemática*, , , -
JOSÉ ANTONIO GARZÓN GUERRERO
- 2023 Artículo: The temporary effect of weed-cover maintenance on transpiration and carbon assimilation of olive trees, *Agricultural and Forest Meteorology*, 329, , -
ANDREW STEPHEN KOWALSKI
ENRIQUE PEREZ SANCHEZ-CAÑETE
- 2023 Artículo: Alginate Hydrogels Reinforced by Dehydration under Stress - Application to a Soft Magnetic Actuator, *Gels*, 9, 1, 39-
CRISTINA GILA VILCHEZ
MODESTO TORCUATO LÓPEZ LÓPEZ
- 2023 Artículo: Macromolecules, *Macromolecules*, 56, , 518-527
ANGEL VICENTE DELGADO MORA
MARIA LUISA JIMENEZ OLIVARES
- 2023 Artículo: Iron-copper oxide nanoparticles supported on reduced graphene oxide for the degradation of cyclophosphamide by photo-Fenton reaction., *Catalysis Today*, , , -
PAOLA SÁNCHEZ MORENO
- 2023 Artículo: Vertical characterization of fine and coarse dust particles during an intense Saharan dust outbreak over the Iberian Peninsula in springtime 2021, *Atmospheric Chemistry and Physics*, 23, , 143-161
JUAN LUIS GUERRERO RASCADO
LUCAS ALADOS ARBOLEDAS
- 2023 Artículo: Atmospheric boundary layer height from ground-based remote sensing: a review of capabilities and limitations, *Atmospheric Measurement Techniques*, 16, , 433-479
JUAN LUIS GUERRERO RASCADO
LUCAS ALADOS ARBOLEDAS
- 2023 Artículo: Experimental Realization of a Colloidal Ratchet Effect in a non-Newtonian Fluid, *Physical Review Applied*, 19, 2, -
JOSÉ RAFAEL MORILLAS MEDINA
JUAN DE VICENTE ALVAREZ-MANZANEDA
- 2023 Artículo: Predictive Model of Clothing Insulation in Naturally Ventilated Educational Buildings, *Buildings*, 13, 4, 1002-
DIEGO PABLO RUIZ PADILLO
- 2023 Artículo: A new method to estimate aerosol radiative forcing on photosynthetically active radiation, *Atmospheric Research*, 291, , -
INMACULADA FOYO MORENO
JUAN LUIS GUERRERO RASCADO
- 2023 Artículo: Biocompatible Short-Peptides Fibrin Co-assembled Hydrogels, *ACS Applied Polymer Materials*, 5, , 2154-2165
CRISTINA GILA VILCHEZ
LAURA RODRIGUEZ ARCO
MODESTO TORCUATO LÓPEZ LÓPEZ
- 2023 Review: Lipid-core nanoparticles: Classification, preparation methods, routes of administration and recent advances in cancer treatment, *Advances in Colloid and Interface Science*, 314, , 102871-102908
AIXA MARÍA AGUILERA GARRIDO
FRANCISCO GALISTEO GONZÁLEZ
- 2023 Artículo: Maslinic acid solid lipid nanoparticles as hydrophobic anticancer drug carriers: Formulation, in vitro activity and in vivo biodistribution, *Biomedicine & Pharmacotherapy*, 163, , 114828-114841

- AIXA MARÍA AGUILERA GARRIDO
FRANCISCO GALISTEO GONZÁLEZ
MARÍA JOSÉ GÁLVEZ RUIZ
- 2023 Artículo: Interaction-limited aggregation: fine-tuning the size of pNIPAM particles by association with hydrophobic ions, *Macromolecules*, 56, 6, 2246-2257
- ARTURO MONCHO JORDÁ
DELFINA BASTOS GONZÁLEZ
- 2023 Artículo: Liquid structure of bistable macromolecules using mean-field density functional theory, *Soft Matter*, 19, , 2832-2846
- ARTURO MONCHO JORDÁ
- 2023 Artículo: Magnetite mineralization inside cross-linked protein crystals, *Crystal Growth & Design*, 23, , 4032-4040
- MODESTO TORCUATO LÓPEZ LÓPEZ
- 2023 Artículo: High-speed videomicroscopy of sheared carbonyl iron suspensions, *Smart Materials and Structures*, 32, , 025004-
- JOSÉ RAFAEL MORILLAS MEDINA
JUAN DE VICENTE ALVAREZ-MANZANEDA
- 2023 Artículo: Bottom-up preparation of phase-separated polymersomes, *Macromolecular Bioscience*, , , -
- LAURA RODRIGUEZ ARCO
- 2023 Artículo: Multi-Scale Analysis of Agricultural Drought Propagation on the Iberian Peninsula Using Non-Parametric Indices, *Water*, 15, 11, -
- MATILDE GARCÍA-VALDECASAS OJEDA
SONIA RAQUEL GÁMIZ FORTIS
- 2023 Artículo: A Pareto-Based Sensitivity Analysis and Multiobjective Calibration Approach for Integrating Streamflow and Evaporation Data, *Water Resources Research*, 59, , -
- MARÍA JESÚS ESTEBAN PARRA
MATILDE GARCÍA-VALDECASAS OJEDA
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- 2023 Artículo: Tribological variable-friction coefficient models for the simulation of dense suspensions of rough polydisperse particles, *Journal of Rheology*, 67, 2, 541-558
- JUAN DE VICENTE ALVAREZ-MANZANEDA
- 2023 Artículo: Effects of layer-by-layer coating on activated carbon electrodes for capacitive deionization, *Physical Chemistry Chemical Physics*, 25, 13, 9482-9491
- ANGEL VICENTE DELGADO MORA
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SILVIA ALEJANDRA AHUALLI YAPUR
- 2023 Artículo: Effect of coating nanostructure on the electrokinetics of polyelectrolyte-coated particles. Grafted vs adsorbed polymer, *Journal of Molecular Liquids*, 375, , 121384-
- ANGEL VICENTE DELGADO MORA
SILVIA ALEJANDRA AHUALLI YAPUR
- 2023 Artículo: A Holistic Solution to Icing by Acoustic Waves: Deicing, Active Anti-icing, Sensing with Piezoelectric Crystals, and Synergy with Thin Film Passive Anti-icing Solutions, *Advanced Functional Materials*, 33, 15, 2209421-
- MIGUEL ANGEL RODRÍGUEZ VALVERDE
PABLO FRANCISCO IBÁÑEZ IBÁÑEZ
- 2023 Artículo: Water-Repellent Galvanized Steel Surfaces Obtained by Sintering of Zinc Nanopowder, *Langmuir*, 39, 15, 5469-5476
- FRANCISCO JAVIER MONTES RUIZ-CABELLO
MIGUEL ANGEL CABRERIZO VÍLCHEZ
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PABLO FRANCISCO IBÁÑEZ IBÁÑEZ
- 2023 Artículo: Setting a comprehensive strategy to face the runback icing phenomena, *Surface and Coatings Technology*, 465, , 129585-
- PABLO FRANCISCO IBÁÑEZ IBÁÑEZ
- 2023 Artículo: Self-healing magnetorheological elastomers based on thermoreversible Diels-Alder networks, *Smart Materials and Structures*, 32, 4, 045004-
- JUAN DE VICENTE ALVAREZ-MANZANEDA
- 2022 Artículo: pH influences the interfacial properties of blue whiting (*M. poutassou*) and whey protein hydrolysates determining the physical stability of fish oil-in-water emulsions, *Food Hydrocolloids*, 122, , 107075-
- JULIA MALDONADO VALDERRAMA

- 2022 Artículo: Active interaction switching controls the dynamic heterogeneity of soft colloidal dispersions, *Soft Matter*, 18, , 397-411
ARTURO MONCHO JORDÁ
- 2022 Artículo: Temporal dynamics of dryland soil CO₂ efflux using high-frequency measurements: Patterns and dominant drivers among biocrust types, vegetation and bare soil, *Geoderma*, 405, , ENRIQUE PEREZ SANCHEZ-CAÑETE
- 2022 Artículo: Ice adhesion of PDMS surfaces with balanced elastic and water-repellent properties, *Journal of Colloid and Interface Science*, 608, 1, 792-799
FRANCISCO JAVIER MONTES RUIZ-CABELLO
MIGUEL ANGEL CABRERIZO VÍLCHEZ
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PABLO FRANCISCO IBÁÑEZ IBÁÑEZ
- 2022 Artículo: Errores en gráficos estadísticos de la prensa portuguesa y su interpretación por futuros profesores de matemáticas, *Acta Latinoamericana de Matemática Educativa*, 34, 2, 376-385
JOSÉ ANTONIO GARZÓN GUERRERO
- 2022 Artículo: El contexto PISA de los gráficos estadísticos en los libros de texto de matemáticas Educación Básica en Costa Rica, *Revista Digital Matemática*, 22, 2, -
JOSÉ ANTONIO GARZÓN GUERRERO
- 2022 Artículo: Comprensión de la mediana por estudiantes universitarios, *Avances de Investigación en Educación Matemática*, 22, , 1-21
JOSÉ ANTONIO GARZÓN GUERRERO
- 2022 Artículo: Enhancing magnetorheology with precession magnetic fields, *Journal of Rheology*, 66, 1, 67-78
JUAN DE VICENTE ALVAREZ-MANZANEDA
- 2022 Artículo: Design of Smart Lubricants using the Inverse Ferrofluid Approach, *Tribology International*, 166, , 107346-
JOSÉ RAFAEL MORILLAS MEDINA
JUAN DE VICENTE ALVAREZ-MANZANEDA
ROQUE HIDALGO ALVAREZ
- 2022 Artículo: Analysis of cloud effects on long-term global and diffuse photosynthetically active radiation at a Mediterranean site, *Atmospheric Research*, 268, , -
INMACULADA FOYO MORENO
JUAN LUIS GUERRERO RASCADO
- 2022 Artículo: Aerosol number fluxes and concentrations over a southern European urban area, *Atmospheric Environment*, 269, 118849, -
FRANCISCO JOSE OLMO REYES
HASSAN LYAMANI
JOSE ANTONIO BENAVENT OLTRA
JUAN ANDRES CASQUERO VERA
LUCAS ALADOS ARBOLEDAS
- 2022 Artículo: Assessment of ventilation rates inside educational buildings in Southwestern Europe: Analysis of implemented strategic measures, *Journal of Building Engineering*, 51, 104204, -
DIEGO PABLO RUIZ PADILLO
- 2022 Artículo: Lidar and Radar Signal Simulation: Stability Assessment of the Aerosol-Cloud Interaction Index, *Remote Sensing*, 14, 1333, -
JUAN ANDRES CASQUERO VERA
LUCAS ALADOS ARBOLEDAS
- 2022 Artículo: Effect of Hyaluronic Acid on the microstructure, interaction with mucin, and in vitro digestibility of Liquid Lipid Nanocapsules shelled with Human and Bovine Serum Albumin, *Food Chemistry*, 383, , 132330-132340
AIXA MARÍA AGUILERA GARRIDO
FRANCISCO GALISTEO GONZÁLEZ
JULIA MALDONADO VALDERRAMA
MARÍA JOSÉ GÁLVEZ RUIZ
- 2022 Artículo: Preparation of highly stable oleogel-based nanoemulsions for encapsulation and controlled release of curcumin, *Food Chemistry*, 378, , 132132-132140
AIXA MARÍA AGUILERA GARRIDO
FRANCISCO GALISTEO GONZÁLEZ
MARÍA JOSÉ GÁLVEZ RUIZ
- 2022 Artículo: Torsional wave elastography to assess the mechanical properties of the cornea, *Scientific Reports*, 12, , 8354-
FELISA REYES ORTEGA

- 2022 Artículo: Development of a BIM-Based Framework Using Reverberation Time (BFRT) as a Tool for Assessing and Improving Building Acoustic Environment, Buildings, 12, 5, -
DIEGO PABLO RUIZ PADILLO
- 2022 Artículo: Whole Body Vibration Exposure Transmitted to Drivers of Heavy Equipment Vehicles: A Comparative Case According to the Short- and Long-Term Exposure Assessment Methodologies Defined in ISO 2631-1 and ISO 2631-5, International Journal of Environmental Research and Public Health, 19, 9, -
DIEGO PABLO RUIZ PADILLO
- 2022 Artículo: Coarse-Grained Simulations of Solute Diffusion in Crosslinked Flexible Hydrogels, Macromolecules, 55, 5, 1495-1504
ALBERTO MARTÍN MOLINA
- 2022 Artículo: Electrokinetic detection of the salt-free condition in colloids. Application to polystyrene latexes, Advances in Colloid and Interface Science, 299, , 102539-1-102539-10
ANGEL VICENTE DELGADO MORA
MARIA LUISA JIMENEZ OLIVARES
SILVIA ALEJANDRA AHUALLI YAPUR
- 2022 Artículo: Four Year Study of the Schumann Resonance Regular Variations Using the Sierra Nevada Station Ground-Based Magnetometers, Journal of Geophysical Research: Atmospheres, 127, 6, 1-19
JESUS RODRIGUEZ CAMACHO
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- 2022 Artículo: Estimating the urban atmospheric boundary layer height from remote sensing applying machine learning techniques., Atmospheric Research, 266, , 105962-
ALBERTO CAZORLA CABRERA
JUAN LUIS GUERRERO RASCADO
LUCAS ALADOS ARBOLEDAS
- 2022 Artículo: Wind and Turbulence Statistics in the Urban Boundary Layer over a Mountain Valley System in Granada, Spain, Remote Sensing, 14, 10, -
JUAN LUIS GUERRERO RASCADO
LUCAS ALADOS ARBOLEDAS
- 2022 Artículo: Statistical validation of Aeolus L2A particle backscatter coefficient retrievals over ACTRIS/EARLINET stations on the Iberian Peninsula, Atmospheric Chemistry and Physics, 22, , 1425-1451
JUAN LUIS GUERRERO RASCADO
LUCAS ALADOS ARBOLEDAS
- 2022 Artículo: Electro-orientation of Ag nanowires in viscoelastic fluids, Journal of Colloid and Interface Science, 622, , 700-707
ANGEL VICENTE DELGADO MORA
MARIA LUISA JIMENEZ OLIVARES
- 2022 Artículo: Schumann resonance data processing programs and four-year measurements from Sierra Nevada ELF station, Computers & Geosciences, 165, , 1-8
JESUS RODRIGUEZ CAMACHO
JORGE PORTÍ DURÁN
M^a DEL CARMEN CARRIÓN PÉREZ
- 2022 Artículo: Organic/Inorganic hydrogels by simultaneous selfassembly and mineralization of aromatic shortpeptides, Inorganic Chemistry Frontiers, 9, , 743-752
MODESTO TORCUATO LÓPEZ LÓPEZ
- 2022 Artículo: Complexation of DNA with Thermoresponsive Charged Microgels: Role of Swelling State and Electrostatics, Gels, 8, 3, 184-1-184-20
ALBERTO MARTÍN MOLINA
JOSE RAMOS JULIÁN
JULIA MALDONADO VALDERRAMA
YAN YANG
- 2022 Artículo: Assessing pollen extreme events over a Mediterranean site: role of local surface meteorology, Atmospheric Environment, 272, 118928, 1-13
ALBERTO CAZORLA CABRERA
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- 2022 Artículo: Mechanical Durability of Low Ice Adhesion Polydimethylsiloxane Surfaces, ACS Omega, , XXX, XXX-XXX
FRANCISCO JAVIER MONTES RUIZ-CABELLO

- MIGUEL ANGEL CABRERIZO VÍLCHEZ
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PABLO FRANCISCO IBÁÑEZ IBÁÑEZ
- 2022 Artículo: Interactions between curcumin and cell membrane models by Langmuir monolayers, Colloids and Surfaces B: Biointerfaces, 217, , 112636-112646
JULIA MALDONADO VALDERRAMA
MARÍA JOSÉ GÁLVEZ RUIZ
- 2022 Artículo: Solid lipid nanoparticles to improve bioaccessibility and permeability of orally administered maslinic acid, Drug Delivery, 19, 1, 1971-1982
AIXA MARÍA AGUILERA GARRIDO
FRANCISCO GALISTEO GONZÁLEZ
MARÍA JOSÉ GÁLVEZ RUIZ
- 2022 Artículo: The Acoustics of the Palace of Charles V as a Cultural Heritage Concert Hall, Acoustics, 4, 3, 800-820
JERONIMO VIDA MANZANO
- 2022 Artículo: El poder local y la modernización autoritaria en Granada. Contradicciones y límites de la reforma urbana, 1928-1930, Historia Contemporánea, , 68, 139-169
ROQUE HIDALGO ALVAREZ
- 2022 Artículo: Las Fiestas del Corpus como espacio de debate y confrontación durante la dictadura con rey en Granada (1924-1930), Revista del Centro de Estudios Históricos de Granada y su Reino, , 34, 249-275
ROQUE HIDALGO ALVAREZ
- 2022 Artículo: Dynamics of the Atmospheric Boundary Layer over two middle-latitude rural sites with Doppler lidar, Atmospheric Research, 280, 106434, -
JOSE ANTONIO BENAVENT OLTRA
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- 2022 Artículo: Dynamics of the Atmospheric Boundary Layer over two middle-latitude rural sites with Doppler lidar, Atmospheric Research, 280, 106434, -
JUAN ANDRES CASQUERO VERA
- 2022 Artículo: Novel Treatments for Age-Related Macular Degeneration: A Review of Clinical Advances in Sustained Drug Delivery Systems, Pharmaceuticals, 14, 7, 1473-
FELISA REYES ORTEGA
- 2022 Artículo: Cool surfaces strategies emphasized on materials dimension: A review, Applied Sciences, 12, , 1893-
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- 2022 Artículo: Light Reflectance Characterization of Waste Glass Coating for Tiles, Applied Sciences, 12, , 1537-
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- 2022 Artículo: Combined magnetic hyperthermia and photothermia with polyelectrolyte/gold-coated magnetic nanorods, Polymers, 14, , 4913-
ANGEL VICENTE DELGADO MORA
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- 2022 Artículo: Modelling and visualization for the analysis and comprehension of the acoustic performance of buildings through the implementation of a building information modelling-based methodology, The Journal of the Acoustical Society of America, 152, 3, 1515-1527
DIEGO PABLO RUIZ PADILLO
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ANA BELÉN JÓDAR REYES
- 2022 Comunicación en congreso: Spatial and temporal variability of soil respiration in an irrigated olive grove in southeastern Spain, EGU General Assembly 2022, 23/05/2022, Viena, Austria, Congreso
ANDREW STEPHEN KOWALSKI
ENRIQUE PEREZ SANCHEZ-CAÑETE
- 2022 Comunicación en congreso: Monitoring Carbon and Water exchanges in experimental forest and olive grove plots under different management strategies, Arqus Research Focus Forum on Climate Change and Biodiversity, 30/05/2022, Lyon (Francia), Congreso
ENRIQUE PEREZ SANCHEZ-CAÑETE
ANDREW STEPHEN KOWALSKI
- 2022 Poster en Congreso: Comprehensive monitoring and adaptive management of mountain forest, Arqus Research Focus Forum on Climate Change and Biodiversity, 30/05/2022, Lyon (Francia), ENRIQUE PEREZ SANCHEZ-CAÑETE
- 2022 Poster en Congreso: Characterization of the rural boundary layer dynamics based on the combination of ceilometer and Sun-photometric measurements, International Aerosol Conference 2022, 04/09/2022, Atenas, Grecia, Congreso
HASSAN LYAMANI
JUAN LUIS GUERRERO RASCADO
LUCAS ALADOS ARBOLEDAS
ALBERTO CAZORLA CABRERA
- 2022 Comunicación en congreso: Monitoring Carbon (CO₂ and CH₄) exchanges in the main dominant woody species in Sierra Nevada mountains (Spain) located at different ecological environments, International Mountain Conference 2022, 11/09/2022, INNSBRUCK - AUSTRIA, Congreso
ENRIQUE PEREZ SANCHEZ-CAÑETE
- 2022 Poster en Congreso: TERAPIA DIRIGIDA FRENTE A CÁNCER DE COLON: APROXIMACIÓN MEDIANTE MAGNETOLIPOSOMAS ASOCIADOS A ANTICUERPOS ANTI-LGR5 Y OXALIPLATINO, VIII Congreso de Estudiantes de Investigación Biosanitaria, 09/03/2022, Granada, Congreso
GUILLERMO RAMÓN IGLESIAS SALTO
- 2022 Poster en Congreso: NUEVA ESTRATEGIA TERAPÉUTICA CON NANOFORMULACIONES FUNCIONALIZADAS CON LGR5 EN CÁNCER DE COLON AVANZADO, II Congreso de Investigación PTS Granada, 09/02/2022, Granada, Congreso
GUILLERMO RAMÓN IGLESIAS SALTO
- 2022 Poster en Congreso: NUEVA ESTRATEGIA TERAPÉUTICA EN EL TRATAMIENTO DEL CÁNCER COLORRECTAL MEDIANTE EL USO DE MAGNETOLIPOSOMAS FUNCIONALIZADOS CON ANTICUERPOS FRENTE A LGR5, VIII Congreso de estudiantes de investigación biosanitaria (CEIBS), 09/03/2022, , , , , , , , , , . FACULTAD DE MEDICINA. UNIVERSIDAD DE GRANADA, Congreso
GUILLERMO RAMÓN IGLESIAS SALTO
- 2022 Poster en Congreso: Influence of organic aerosol sources in the aerosol hygroscopicity and CCN activity during BioCloud field campaign, International Aerosol Conference 2022, 04/09/2022, Atenas, Grecia, Congreso
JUAN ANDRES CASQUERO VERA
FRANCISCO JOSE OLMO REYES
LUCAS ALADOS ARBOLEDAS
HASSAN LYAMANI
DANIEL PÉREZ RAMÍREZ
- 2022 Poster en Congreso: Combinación del efecto de una quimioterapia dirigida y fototerapia mediante el uso de nanopartículas magnéticas biomiméticas funcionalizadas con un nuevo inhibidor de ChoKa1, PL48, 44º Congreso de la Sociedad Española de Bioquímica y Biología Molecular, 06/09/2022, Málaga,

Congreso

GUILLERMO RAMÓN IGLESIAS SALTO

- 2022 Comunicación en congreso: Magnetic Soft Matter and Singular Laboratory on Non-Newtonian Fluid Physics, Smart Materials & Surface Science Research Focus Forum, 28/09/2022, Granada, Congreso

FERNANDO VEREDA MORATILLA

JUAN DE VICENTE ALVAREZ-MANZANEDA

- 2022 Poster en Congreso: NUEVOS MAGNETOLIPOSOMAS BIOMIMÉTICOS COMO NANOPORTADORES DE OXALIPLATINO, II CONGRESO INVESTIGACION PTS, 09/02/2022, PTS Granada, Congreso

GUILLERMO RAMÓN IGLESIAS SALTO

- 2022 Poster en Congreso: Analysing the aerosol radiative effects at Granada during 2008-2018, 11th International Aerosol Conference, 04/09/2022, Athens, ATHEN, GREECE, Congreso

INMACULADA FOYO MORENO

JUAN LUIS GUERRERO RASCADO

- 2022 Poster en Congreso: Developments in GRASP algorithm for the retrievals of aerosol properties vertically-resolved combining multiwavelength backscattered lidar and polarimetry: Application to ACEPOL field campaign data, Advancement of POLarimetric Observations, 09/08/2022, Silver Spring, Maryland, EEUU, Congreso

DANIEL PÉREZ RAMÍREZ

- 2022 Ponencia en Congreso: Polarized imaging nephelometer for continuous monitoring of aerosol phase functions and its applications to remote sensing and air-quality, Advancement of POLarimetric Observations, 09/08/2022, Silver Spring, Maryland, EEUU, Congreso

FRANCISCO JOSE OLMO REYES

DANIEL PÉREZ RAMÍREZ

LUCAS ALADOS ARBOLEDAS

- 2022 Poster en Congreso: Comprehensive experimental study of activation properties of Mediterranean pollen types through organic chemical composition and surface tension effects, 11th International Aerosol Conference, 04/09/2022, Athens, ATHEN, GREECE, Congreso

JUAN ANDRES CASQUERO VERA

HASSAN LYAMANI

ALBERTO CAZORLA CABRERA

DANIEL PÉREZ RAMÍREZ

FRANCISCO JOSE OLMO REYES

LUCAS ALADOS ARBOLEDAS

JULIA MALDONADO VALDERRAMA

- 2022 Poster en Congreso: Presenting BioCloud: Impact of biogenic emissions in the cloud condensation and ice nuclei budgets, 11th International Aerosol Conference, 04/09/2022, Athens, ATHEN, GREECE, Congreso

FRANCISCO JOSE OLMO REYES

JUAN ANDRES CASQUERO VERA

ALBERTO CAZORLA CABRERA

DANIEL PÉREZ RAMÍREZ

LUCAS ALADOS ARBOLEDAS

HASSAN LYAMANI

- 2022 Poster en Congreso: Assessment of potential sources of airborne pollen in a high-mountain Mediterranean site (Sierra Nevada National Park, Spain), 11th International Aerosol Conference, 04/09/2022, Athens, ATHEN, GREECE, Congreso

ALBERTO CAZORLA CABRERA

JUAN LUIS GUERRERO RASCADO

LUCAS ALADOS ARBOLEDAS

- 2022 Ponencia en Congreso: Evaluation of the aerosol radiative effects based on GAME model and GRASPpac retrievals applied to AERONET/ICENET stations, International Aerosol Conference 2022, 04/09/2022, Atenas, Grecia, Congreso

LUCAS ALADOS ARBOLEDAS

FRANCISCO JOSE OLMO REYES

ROBERTO ROMAN DIEZ

ALBERTO CAZORLA CABRERA

- 2022 Poster en Congreso: Polarized Imaging Nephelometer for aerosol microphysical properties retrieval and for supporting upcoming satellite missions, International Aerosol Conference 2022, 04/09/2022, Atenas, Grecia, Congreso

DANIEL PÉREZ RAMÍREZ

LUCAS ALADOS ARBOLEDAS

FRANCISCO JOSE OLMO REYES

- CRISTINA GILA VILCHEZ
MODESTO TORCUATO LÓPEZ LÓPEZ
- 2022 Poster en Congreso: GOTAS DE EMULSIÓN DE PICKERING PARA APLICACIONES BIOMÉDICAS, III SIMPOSIO DE TERAPIAS AVANZADAS Y TECNOLOGÍAS BIOMÉDICAS, 16/12/2022, FACULTAD DE MEDICINA. UNIVERSIDAD DE GRANADA, Congreso
GUILLERMO RAMÓN IGLESIAS SALTO
MODESTO TORCUATO LÓPEZ LÓPEZ
LAURA RODRIGUEZ ARCO
CRISTINA GILA VILCHEZ
- 2022 Poster en Congreso: OPTIMIZACIÓN DE FORMA Y POROSIDAD DE UN PROTOTIPO DE MEMBRANA POLIMÉRICA PARA REGENERACIÓN ÓSEA GUIADA, IV Congreso de la Asociación Andaluza de Cirugía Bucal, 04/06/2022, Sancti Petri (Cádiz, España), Congreso
CRISTINA GILA VILCHEZ
MODESTO TORCUATO LÓPEZ LÓPEZ
- 2022 Poster en Congreso: DISEÑO Y FABRICACIÓN DE UN HIDROGEL NO REABSORBIBLE PARA RELLENO DE TEJIDO BLANDO ORAL, IV Congreso de la Asociación Andaluza de Cirugía Bucal, 04/06/2022, Sancti Petri (Cádiz, España), Congreso
MODESTO TORCUATO LÓPEZ LÓPEZ
CRISTINA GILA VILCHEZ
- 2022 Comunicación en congreso: Effect of biomimetic coatings on the nanoparticle-cell interactions: a comparative study of particles camouflaged with polymers, proteins, polysaccharides, or cell membranes, 9th Iberian Meeting on Colloids and Interfaces, 10/07/2022, - Santiago de Compostela (A Coruña), España, Congreso
PAOLA SÁNCHEZ MORENO
MARÍA JOSÉ GÁLVEZ RUIZ
FRANCISCO GALISTEO GONZÁLEZ
- 2022 Comunicación en congreso: Injectable Magnetic Supramolecular Hydrogels, XVIII Simposio de Jóvenes Investigadores Químicos, 21/11/2022, Centro de Investigaciones Científicas de la Isla de la Cartuja, Sevilla (España), Congreso
CRISTINA GILA VILCHEZ
MODESTO TORCUATO LÓPEZ LÓPEZ
- 2022 Poster en Congreso: Injectable Magnetic Supramolecular Hydrogels, XXXVIII Reunión Bienal de la Real Sociedad Española de Química (RSEQ), 27/06/2022, Granada, Congreso
CRISTINA GILA VILCHEZ
MODESTO TORCUATO LÓPEZ LÓPEZ
- 2022 Ponencia en Congreso: Controlling the structure, phase behavior and dynamics of soft colloids by active interaction switching, Iberian Meeting on Colloids and Interfaces 9, 10/07/2022, Santiago de Compostela, Congreso
ARTURO MONCHO JORDÁ
- 2022 Ponencia en Congreso: Controlling the structure, phase behavior and dynamics of soft colloids by active interaction switching, 36th European Colloid and Interface Society Conference, 04/09/2022, Creta, Grecia, Congreso
ARTURO MONCHO JORDÁ
- 2022 Ponencia en Congreso: Magneto-polymer hydrogels with large length changes in response to magnetic stimuli, EPF European Polymer Congress 2022, 26/06/2022, - Praga, República Checa, Congreso
MODESTO TORCUATO LÓPEZ LÓPEZ
CRISTINA GILA VILCHEZ
JUAN DE DIOS GARCÍA LÓPEZ-DURÁN
LAURA RODRIGUEZ ARCO
- 2022 Comunicación en congreso: Shear rheology of magnetorheological fluids under triaxial fields, 75th Annual Meeting of the American Physical Society Division of Fluid Dynamics, 20/11/2022, ESTADOS UNIDOS DE AMERICA. INDIANAPOLIS;, Congreso
JOSÉ RAFAEL MORILLAS MEDINA
JUAN DE VICENTE ALVAREZ-MANZANEDA
- 2022 Poster en Congreso: Formation of Magnetic Pickering Microtubules Guided by Micropatterned Magnetic Forces, 9th Iberian Meeting on Colloids and Interfaces, 10/07/2022, Santiago de Compostela (A Coruña), España, Congreso
GUILLERMO RAMÓN IGLESIAS SALTO
MODESTO TORCUATO LÓPEZ LÓPEZ
LAURA RODRIGUEZ ARCO
- 2022 Comunicación en congreso: Exploiting liquid-liquid phase separation to compartmentalise stimuli-



responsive nanoparticles within droplets, 9th Iberian Meeting on Colloids and Interfaces, 10/07/2022,
- Santiago de Compostela (A Coruña), España, Congreso
MODESTO TORCUATO LÓPEZ LÓPEZ
LAURA RODRIGUEZ ARCO
- 2022 Poster en Congreso: Active Assemblies, Active Assemblies, 21/09/2022, Leipzig, Alemania,
MARIA LUISA JIMENEZ OLIVARES
- 2022 Comunicación en congreso: . The water vapor adsorption by dry soils potentially links the water and
carbon cycles: insight from a semiarid crusted ecosystem, EUROPEAN GEOSCIENCES UNION GENERAL
ASSEMBLY 2022, 23/05/2022, Viena, Austria, Congreso
ENRIQUE PEREZ SANCHEZ-CAÑETE