

Física Aplicada

Áreas de conocimiento: Física Aplicada

Director: Jorge Andrés Portí Durán

Secretaria: María Tirado Miranda

Página web: <http://fisicaaplicada.ugr.es/>

Profesorado: CU: 19, PTU: 20, PE: 1, PAYD: 2, Investigadores Doctores: 22, Investigadores en formación: 14 Jóvenes Investigadores (sistema nacional de garantía juvenil):6

Tesis leídas:

- Refuerzos de fibra de carbono para rehabilitación de vigas de madera. Modelos analíticos, ensayos experimentales y puesta en obra.

Doctorando: Francisco José Rescalvo Fernández.

Director: Ignacio Valverde Palacios, Antolín Gallego Molina.

Fecha de lectura: 24/07/2018.

- Electro-optical behaviour of non-spherical nanoparticles under alternating fields.

Doctorando: Paloma Arenas Guerrero.

Director: Ángel V. Delgado Mora, María Luisa Jiménez Olivares.

Fecha de lectura: 19/10/2018.

- Synergetic use of active and passive remote sensing techniques to retrieve vertical profiles of atmospheric aerosol properties during day-and night-time.

Doctorando: José Antonio Benavent Oltra.

Director: Lucas Alados Arboledas, Roberto Román Díez.

Fecha de lectura: 29/03/2019.

- Crecimiento higroscópico del aerosol atmosférico: aproximación mediante teledetección (Atmospheric aerosol hygroscopic growth: approaching through remote sensing).

Doctorando: Andrés Esteban Bedoya Velásquez.

Director: Juan Luis Guerrero Rascado, Carlos David Hoyos (Universidad Nacional de Colombia, sede Medellín).

Fecha de lectura: 28/06/2019.

Grupos de Investigación.

TEP232 ACÚSTICA Y DIAGNÓSTICO DE MATERIALES Y ESTRUCTURAS

- Responsable: ANTONINO GALLEGO MOLINA

RNM286 CLIMATOLOGIA URBANA Y CAMBIO CLIMATICO

- Responsable: JUAN IGNACIO JIMENEZ JIMENEZ

FQM115 FISICA DE FLUIDOS Y BIOCOLOIDES

- Responsable: MIGUEL ANGEL CABRERIZO VÍLCHEZ

RNM119 FÍSICA DE LA ATMÓSFERA

- Responsable: YOLANDA CASTRO DÍEZ

FQM254 FISICA DE LA INFORMACION Y DE LOS SISTEMAS COMPLEJOS

- Responsable: RAMON ROMAN ROLDAN

TIC104 SISTEMAS, SEÑALES Y ONDAS

- Responsable: M^a DEL CARMEN CARRIÓN PÉREZ

Dirección y participación en Proyectos I+D

- 2018 ESTUDIO NUMERICO-EXPERIMENTAL DEL ACOPLAMIENTO TROPOSFERA-IONOSFERAMAGNETOSFERA VIA ANALISIS DE LAS RESONANCIAS DE SCHUMANN. APLICACION A CAMBIO CLIMATICO Y CLIMA ESPACIAL, , 01/01/2018-31/12/2020

Investigador/a JORGE PORTÍ DURÁN

Investigador/a M^a DEL CARMEN CARRIÓN PÉREZ

Investigador/a DAVID BLANCO NAVARRO

Investigador/a JESUS RODRIGUEZ CAMACHO

Investigador JUAN FRANCISCO GOMEZ LOPERA

- 2018 Estudio de los balances de carbono y agua en ecosistemas gestionados para su adaptación al cambio climático (ELEMENTAL), , 01/01/2018-31/12/2020

Responsable JUAN LUIS GUERRERO RASCADO

Participante ANDREW STEPHEN KOWALSKI

- 2018 A Programme of Research in Planetary and Solar System Science - Understanding the Formation of Phosphorus and Nitrogen Compounds ST/P000517/1, , 17/04/2018-

Investigador/a JUAN CARLOS GOMEZ MARTIN

- 2018 First study of the global Nickel and Aluminium Layers in the upper atmosphere (NIALL) NE/P001815/1, , 17/04/2018-

Investigador/a JUAN CARLOS GOMEZ MARTIN

- 2018 Evaluación y predicción de la respuesta espectral de paneles fotovoltaicos bajo condiciones reales de ensuciamiento e insolación, Competitivo, 01/01/2018-01/01/2021
Participante JUAN LUIS BOSCH SALDAÑA
- 2018 DESARROLLO DE PRODUCTOS DE INGENIERIA ELABORADOS A BASE DE TABLONES Y CHAPAS DE CHOPO CON INSERCIONES DE MATERIAL COMPUESTO PARA SU USO EN CONSTRUCCION, Competitivo, 01/01/2018-31/12/2020
Responsable ANTOLINO GALLEGO MOLINA
- 2018 ESTUDIO DE LOS BALANCES DE CARBONO Y AGUA EN ECOSISTEMAS GESTIONADOS PARA SU ADAPTACION AL CAMBIO CLIMATICO, Competitivo, 01/01/2018-31/12/2020
Responsable JUAN LUIS GUERRERO RASCADO
Participante ENRIQUE PEREZ SANCHEZ-CAÑETE
Participante HASSAN LYAMANI
- 2018 CAMBIO CLIMATICO A CORTO PLAZO: PREDICCIÓN DECENAL REGIONALIZADA PARA LA PENISULA IBERICA. INFLUENCIA DE LAS INTERACCIONES TIERRA- ATMOSFERA EN LOS RECURSOS HIDRICOS, Competitivo, 01/01/2018-31/12/2021
Responsable MARÍA JESÚS ESTEBAN PARRA
- 2018 HIDROGELES MAGNETICOS SUPRAMOLECULARES PARA MEDICINA REGENERATIVA, Competitivo, 01/01/2018-31/12/2020
Responsable MODESTO TORCUATO LÓPEZ LÓPEZ
- 2018 ESTUDIO NUMERICO-EXPERIMENTAL DEL ACOPLAMIENTO TROPOSFERA-IONOSFERA-MAGNETOSFERA VIA ANALISIS DE LAS RESONANCIAS DE SCHUMANN. APLICACION A CAMBIO CLIMATICO Y CLIMA ESPACIAL, Competitivo, 01/01/2018-31/12/2020
Responsable JUAN FRANCISCO GOMEZ LOPERA
- 2018 FABRICACION DE SUPERFICIES CON BASE METALICA, DE BAJA ADHESION Y DURADERAS, Competitivo, 01/01/2018-31/12/2020
Responsable MIGUEL ANGEL RODRÍGUEZ VALVERDE
Participante PABLO FRANCISCO IBÁÑEZ IBÁÑEZ
- 2018 GRASP-ACE - Development of GRASP radiative transfer code for the retrieval of aerosol, Competitivo, 01/03/2018-28/02/2022
Responsable DANIEL PÉREZ RAMÍREZ
- 2018 PRODUCCION DE ENERGIA LIMPIA POR METODOS CAPACITIVOS EN INTERFASES NANOPOROSAS, Competitivo, 01/04/2018-31/03/2019
Responsable MARIA LUISA JIMENEZ OLIVARES
- 2018 Aerosoles, Nubes y Gases Traza ACTRIS-ESPAÑA, Competitivo, 01/07/2018-30/06/2020
Responsable LUCAS ALADOS ARBOLEDAS
- 2018 Proceso de deformación incremental de chapas pre-recubiertas: evaluación de las características del recubrimiento tras la deformación y estrategias de mejora, No competitivo, 01/07/2018-30/06/2019
Participante FRANCISCO JAVIER MONTES RUIZ-CABELLO
- 2018 COOP_PLUS -COOPERATION OF RESEARCH INFRASTRUCTURES TO ADDRESS GLOBAL CHALLENGES IN THE ENVIRONMENT FIELD, , 01/02/2018-31/12/2018
Coordinador ENRIQUE PEREZ SANCHEZ-CAÑETE
- 2018 Desarrollo De Productos De Ingenieria Elaborados A Base De Tablones Y Chapas De Chopo Con Inserciones De Material Compuesto Para Su Uso En Construcción, , 01/01/2018-31/12/2020
Participante CHIHAB ABARKANE
Responsable ANTOLINO GALLEGO MOLINA
Investigador/a FRANCISCO JOSÉ RESCALVO FERNÁNDEZ
Participante ELISABET SUÁREZ VARGAS
- 2018 Equipamiento para el estudio de la interacción aerosol-nube mediante el muestreo de núcleos de condensación dentro de nubes. , , 01/01/2018-31/12/2020
Investigador/a JUAN LUIS GUERRERO RASCADO
Investigador/a ENRIQUE PEREZ SANCHEZ-CAÑETE
Investigador/a DANIEL PÉREZ RAMÍREZ
Investigador/a ANDREW STEPHEN KOWALSKI
Investigador/a ALBERTO CAZORLA CABRERA
Responsable FRANCISCO JOSE OLMO REYES
Investigador/a LUCAS ALADOS ARBOLEDAS
- 2018 Equipamiento del IISTA para la Investigación del Cambio Global en el marco de los ERICs (European Research Infrastructure Consortia): ICOS, LifeWatch y ACTRIS., , 01/01/2018-31/12/2020
Investigador/a ANDREW STEPHEN KOWALSKI
Investigador/a FRANCISCO JOSE OLMO REYES
Responsable LUCAS ALADOS ARBOLEDAS

Contratos de investigación

- 2018 Juan de la Cierva Incorporación, , 01/01/2018-31/12/2019
Coordinador ENRIQUE PEREZ SANCHEZ-CAÑETE
- 2018 Realización del -Proyecto general de investigación aplicada a la conservación de Cueva de Nerja:
Segunda fase. Estudio de procesos geoquímicos y flujos de carbono (CO₂, CH₄) en un medio
trifásico (aire, agua y roca). Aplicación a la gestión y conservación, , 01/04/2018-31/12/2018
Investigador/a ENRIQUE PEREZ SANCHEZ-CAÑETE
- 2018 Estudio de distribuciones de tamaño de gotas de niebla en la autovía A-8, Contrato art. 11/45 LRU -
68/83 LOU, 26/09/2018-30/10/2018
Investigador/a LUCAS ALADOS ARBOLEDAS

Publicaciones en revistas

- 2019 Artículo: Precipitable water vapor over oceans from the Maritime Aerosol Network: Evaluation of
global models and satellite products under clear sky conditions, Atmospheric Research, 215, , 294-304
DANIEL PÉREZ RAMÍREZ
HASSAN LYAMANI
ROBERTO ROMAN DIEZ
- 2019 Artículo: A SPECTROSCOPY ANALYSIS OF THE INTERACTION BETWEEN MEGA 10 AND CONCAVALIN A,
Journal of Molecular Liquids, 275, , 674-681
AIXA MARÍA AGUILERA GARRIDO
FRANCISCO GALISTEO GONZÁLEZ
MARÍA JOSÉ GÁLVEZ RUIZ
- 2019 Artículo: Electro-orientation of silver nanowires in alternating fields, Langmuir, 35, 3, 687-694
ANGEL VICENTE DELGADO MORA
MARIA LUISA JIMENEZ OLIVARES
PALOMA ARENAS GUERRERO
- 2019 Artículo: Wetting transitions on rough surfaces revealed with captive bubble experiments. The role
of surface energy, Journal of Colloid and Interface Science, 539, , 448-456
FRANCISCO JAVIER MONTES RUIZ-CABELLO
MIGUEL ANGEL CABRERIZO VÍLCHEZ
MIGUEL ANGEL RODRÍGUEZ VALVERDE
- 2019 Artículo: Catalytic and Electron Conducting Carbon Nanotube-Reinforced Lysozyme Crystals,
Advanced Functional Materials, 29, , 1807351-
MODESTO TORCUATO LÓPEZ LÓPEZ
- 2019 Artículo: Stored potential energy increases and elastic properties alterations are produced after
restoring dentin with Zn-containing amalgams, Journal of the Mechanical Behavior of Biomedical
Materials, 91, , 109-121
MODESTO TORCUATO LÓPEZ LÓPEZ
- 2019 Artículo: Diagnosis of hysteretic dampers used for seismic protection of structures by means
ultrasonic measurements, Measurement: Journal of the International Measurement Confederation, ,
ANTOLINO GALLEGO MOLINA
CHIHAB ABARKANE
FRANCISCO JOSÉ RESCALVO FERNÁNDEZ
- 2019 Artículo: Protein-surface interactions at the nanoscale: Atomistic simulations with implicit solvent
models, Current Opinion in Colloid & Interface Science, 41, , 40-40
DELFINA BASTOS GONZÁLEZ
- 2019 Artículo: Nonequilibrium Uptake Kinetics of Molecular Cargo into Hollow Hydrogels Tuned by
Electrosteric Interactions, ACS nano, XXXX, XXXX, XXXX-XXXX
ARTURO MONCHO JORDÁ
IRENE ADROHER BENÍTEZ
- 2019 Artículo: Seasonal analysis of the atmosphere during five years by using microwave radiometry over
a mid-latitude site, Atmospheric Research, 218, , 78-89
ALBERTO CAZORLA CABRERA
FRANCISCO JOSE OLMO REYES
INMACULADA FOYO MORENO
JUAN LUIS GUERRERO RASCADO
LUCAS ALADOS ARBOLEDAS
ROBERTO ROMAN DIEZ
- 2019 Artículo: Analyzing the turbulent planetary boundary layer by remote sensing systems: the Doppler
wind lidar, aerosol elastic lidar and microwave radiometer, Atmospheric Chemistry and Physics, 19, ,
1263-1280
FRANCISCO JOSE OLMO REYES
JUAN LUIS GUERRERO RASCADO
LUCAS ALADOS ARBOLEDAS

ROBERTO ROMAN DIEZ

- 2019 Articulo: Impact of primary NO₂ emissions at different urban sites exceeding the European NO₂ standard limit, *Science of the Total Environment*, 646, , 1117-1125

FRANCISCO JOSE OLMO REYES

HASSAN LYAMANI

LUCAS ALADOS ARBOLEDAS

- 2019 Articulo: Retrievals of aerosol single scattering albedo by multiwavelength lidar measurements: Evaluations with NASA Langley HSRL-2 during discover-AQ field campaigns, *Remote Sensing of Environment: an interdisciplinary journal*, 222, , 144-164

DANIEL PÉREZ RAMÍREZ

- 2019 Articulo: Evaluation of night-time aerosols measurements and lunar irradiance models in the frame of the first multi-instrument nocturnal intercomparison campaign, *Atmospheric Environment*, 219, , 190-211

DANIEL PÉREZ RAMÍREZ

JOSE ANTONIO BENAVENT OLTRA

LUCAS ALADOS ARBOLEDAS

ROBERTO ROMAN DIEZ

- 2019 Articulo: Magnetorheology of alginate ferrogels, *Smart Materials and Structures*, 28, , -

CRISTINA GILA VILCHEZ

JUAN DE DIOS GARCÍA LÓPEZ-DURÁN

MODESTO TORCUATO LÓPEZ LÓPEZ

- 2019 Articulo: Probing in-vitro digestion at oil-water interfaces, *Current Opinion in Colloid & Interface Science*, 39, , 51-60

JULIA MALDONADO VALDERRAMA

- 2019 Articulo: Maslinic acid conjugate with 7-amino-4-methylcoumarin as probe to monitor the temperature dependent conformational changes of human serum albumin by FRET, *Spectrochimica Acta, Part A: Molecular and Biomolecular Spectroscopy*, 214, , 161-169

FRANCISCO GALISTEO GONZÁLEZ

- 2019 Articulo: Anisotropic magnetic hydrogels: design, structure and mechanical properties, *Royal Society of London. Philosophical Transactions A. Mathematical, Physical and Engineering Sciences*, 377, 2143, -

CRISTINA GILA VILCHEZ

JUAN DE DIOS GARCÍA LÓPEZ-DURÁN

MODESTO TORCUATO LÓPEZ LÓPEZ

- 2019 Articulo: Contribution to column-integrated aerosol typing based on Sun-photometry using different criteria, *Atmospheric Research*, 224, , 1-17

DANIEL PÉREZ RAMÍREZ

FRANCISCO JOSE OLMO REYES

HASSAN LYAMANI

INMACULADA FOYO MORENO

JUAN LUIS GUERRERO RASCADO

LUCAS ALADOS ARBOLEDAS

- 2019 Articulo: A comparison of ISO 2631-5:2004 and ISO 2631-5:2018 standards for whole-body vibrations exposure: A case study, *Studies in Systems, Decision and Control*, 202, , 711-719

DIEGO PABLO RUIZ PADILLO

- 2019 Articulo: Tropical Pacific sea surface temperature influence on seasonal streamflow variability in Ecuador, *International Journal of Climatology*, , , 1-20

MARÍA JESÚS ESTEBAN PARRA

MATILDE GARCÍA-VALDECASAS OJEDA

SONIA RAQUEL GÁMIZ FORTIS

YOLANDA CASTRO DÍEZ

- 2019 Articulo: Spatio-Temporal Analysis for Extreme Temperature Indices over Levant Region, *International Journal of Climatology*, JOC-18-0606R, , -

MARÍA JESÚS ESTEBAN PARRA

SONIA RAQUEL GÁMIZ FORTIS

YOLANDA CASTRO DÍEZ

- 2019 Articulo: Land-Atmosphere Interaction Changes over the Iberian Peninsula by using 1 High-resolution Projections, *Climate Dynamics*, CLDY-D-19-00249, , -

MARÍA JESÚS ESTEBAN PARRA

MATILDE GARCÍA-VALDECASAS OJEDA

SONIA RAQUEL GÁMIZ FORTIS

YOLANDA CASTRO DÍEZ

- 2019 Articulo: Extending the pool of compatible peptide hydrogels for protein crystallization., *Crystals*, 9, ,

244-

MODESTO TORCUATO LÓPEZ LÓPEZ

- 2019 Artículo: Water-Repellent Fluoropolymer-Based Coatings, *Coatings*, 9, 5, 293-

MIGUEL ANGEL CABRERIZO VÍLCHEZ

MIGUEL ANGEL RODRÍGUEZ VALVERDE

- 2019 Artículo: Functionalized Biomimetic Magnetic Nanoparticles as Effective Nanocarriers for Targeted Chemotherapy, *Particle and Particle Systems Characterization*, , , 1900057-

ANGEL VICENTE DELGADO MORA

GUILLERMO RAMÓN IGLESIAS SALTO

- 2019 Artículo: Enhancement of Magnetic Hyperthermia by Mixing Synthetic Inorganic and Biomimetic Magnetic Nanoparticles, *Pharmaceutics*, , , -

ANGEL VICENTE DELGADO MORA

GUILLERMO RAMÓN IGLESIAS SALTO

- 2019 Artículo: CO₂ dynamics are strongly influenced by low frequency atmospheric pressure changes in semiarid grasslands, *Journal of Geophysical Research: Biogeosciences*, , 124, 902-917

ANDREW STEPHEN KOWALSKI

ENRIQUE PEREZ SANCHEZ-CAÑETE

- 2019 Artículo: Silver-loaded nanoparticles affect ex-vivo mechanical behavior and mineralization of dentin, *Medicina Oral, Patología Oral y Cirugía Bucal*, 24, 2, e156-e164

MODESTO TORCUATO LÓPEZ LÓPEZ

- 2019 Artículo: Impact of mineral dust on shortwave and longwave radiation: Evaluation of different vertically resolved parameterization in 1-D radiative transfer computations, *Atmospheric Chemistry and Physics*, 19, 1, 523-542

JOSE ANTONIO BENAVENT OLTRA

LUCAS ALADOS ARBOLEDAS

ROBERTO ROMAN DIEZ

- 2018 Review: Smart Drug-Delivery Systems for Cancer Nanotherapy, *Current Drug Targets*, 19, , 339-359

JUAN LUIS ORTEGA VINUESA

PAOLA SÁNCHEZ MORENO

- 2018 Artículo: Synthesis and interfacial activity of PMMA/PtBMA Janus and homogeneous nanoparticles at water/oil interfaces, *Colloids and Surfaces. A, Physicochemical and Engineering Aspects*, , , -

MIGUEL ANGEL CABRERIZO VÍLCHEZ

MIGUEL ANGEL RODRÍGUEZ VALVERDE

ROQUE HIDALGO ALVAREZ

- 2018 Artículo: Probing in-vitro digestibility of food biopreservative AS-48, *Food Chemistry*, 246,

<https://doi.org/10.1016/j.foodchem.2017.10.149>, 249-257

JULIA MALDONADO VALDERRAMA

MARÍA JOSÉ GÁLVEZ RUIZ

- 2018 Artículo: Retrievals of aerosol microphysics from simulations of spaceborne multiwavelength lidar measurements, *Journal of Quantitative Spectroscopy & Radiative Transfer*, 205, , 27-39

DANIEL PÉREZ RAMÍREZ

- 2018 Artículo: Generation of genipin cross-linked fibrin-agarose hydrogel tissue-like models for tissue engineering applications., *Biomedical materials*, 13, 2, 025021-

MODESTO TORCUATO LÓPEZ LÓPEZ

- 2018 Artículo: Solar extinction measurement system based on digital cameras. Application to solar tower plants, *Renewable Energy*, 125, , 648-654

JUAN LUIS BOSCH SALDAÑA

- 2018 Artículo: Experimental validation of a CFRP laminated/ fabric hybrid layout for retrofitting and repairing timber beams, *Mechanics of Advanced Materials and Structures*, , , 1-8

ANTOLINO GALLEGRO MOLINA

CHIHAB ABARKANE

ELISABET SUÁREZ VARGAS

FRANCISCO JOSÉ RESCALVO FERNÁNDEZ

- 2018 Artículo: Iron nanoparticles-based supramolecular hydrogels to originate anisotropic hybrid materials with enhanced mechanical strength, *Materials Chemistry Frontiers*, 2, , 686-699

JUAN DE DIOS GARCÍA LÓPEZ-DURÁN

MODESTO TORCUATO LÓPEZ LÓPEZ

- 2018 Artículo: Gas exchange at whole plant level shows that a less conservative water use is linked to a higher performance in three ecologically distinct pine species., *Environmental Research Letters*, 13,

4, -

ENRIQUE PEREZ SANCHEZ-CAÑETE

- 2018 Artículo: Electric Birefringence of carbon nanotubes: single- vs double-walled, *Carbon*, 126, , 77-84

MARIA LUISA JIMENEZ OLIVARES

PALOMA ARENAS GUERRERO

- 2018 Artículo: MULTIIONIC EFFECTS ON THE CAPACITANCE OF POROUS ELECTRODES, Physical Chemistry Chemical Physics, 20, 7, 5012-5020

ANGEL VICENTE DELGADO MORA

GUILLERMO RAMÓN IGLESIAS SALTO

MARÍA DEL MAR FERNÁNDEZ MARTÍNEZ-REY

MARIA LUISA JIMENEZ OLIVARES

PALOMA ARENAS GUERRERO

SILVIA ALEJANDRA AHUALLI YAPUR

- 2018 Artículo: Modeling water vapor impacts on the solar irradiance reaching the receiver of a solar tower plant by means of artificial neural networks, Solar Energy, 169, 1, 34-39

JUAN LUIS BOSCH SALDAÑA

- 2018 Artículo: Impacts of hydraulic redistribution on grass-tree competition versus facilitation in a semiarid savanna, New Phytologist, 215, 4, 1451-1461

ENRIQUE PEREZ SANCHEZ-CAÑETE

- 2018 Artículo: Can land degradation drive differences in the C exchange of two similar semiarid ecosystems?, Biogeosciences, 15, , 263-278

ANDREW STEPHEN KOWALSKI

ENRIQUE PEREZ SANCHEZ-CAÑETE

- 2018 Artículo: A new empirical model to estimate hourly diffuse photosynthetic photon flux density, Atmospheric Research, 203, , 189-196

INMACULADA FOYO MORENO

LUCAS ALADOS ARBOLEDAS

- 2018 Artículo: Albumin-covered lipid nanocapsules exhibit enhanced uptake performance by breast tumor cells, Colloids and Surfaces B: Biointerfaces, 165, , 103-110

AIXA MARÍA AGUILERA GARRIDO

FRANCISCO GALISTEO GONZÁLEZ

- 2018 Artículo: NANO-ENGINEERING OF BIOMEDICAL PREDNISOLONE LIPOSOMES: EVALUATION OF THE CYTOTOXIC EFFECT ON HUMAN COLON CARCINOMA CELL LINES, Journal of Pharmacy and Pharmacology, 70, , 448-497

ANGEL VICENTE DELGADO MORA

- 2018 Artículo: Evidence of electrostatic-enhanced depletion attraction in the structural properties and phase behavior of binary charged colloidal suspensions, Soft Matter, 14, , 1355-1364

ARTURO MONCHO JORDÁ

CATALINA E. HARO PEREZ

- 2018 Artículo: Direct determination of forces between charged nanogels through coarse-grained simulations, Physical Review E, 97, 042608, 1-7

ALBERTO MARTÍN MOLINA

ARTURO MONCHO JORDÁ

- 2018 Artículo: Maximizing the absorption of small cosolutes inside neutral hydrogels: steric exclusion versus hydrophobic adhesion, Physical Chemistry Chemical Physics, 20, 4, 2814-2825

ALBERTO MARTÍN MOLINA

ARTURO MONCHO JORDÁ

- 2018 Artículo: Soil water content effects on net ecosystem CO₂ and actual evapotranspiration in a Mediterranean semiarid savanna of Central Chile, Scientific Reports, 8, 8570, -

ANDREW STEPHEN KOWALSKI

- 2018 Artículo: Erratum to 'Effect of hygroscopic growth on the aerosol light-scattering coefficient: A review of measurements, techniques and error sources', Atmospheric Environment, 179, , 331-

ALBERTO CAZORLA CABRERA

FRANCISCO JOSE OLMO REYES

HASSAN LYAMANI

LUCAS ALADOS ARBOLEDAS

- 2018 Artículo: Study of the planetary boundary layer by microwave radiometer, elastic lidar and Doppler lidar estimations in Southern Iberian Peninsula, Atmospheric Research, 213, , 185-195

JOSE ANTONIO BENAVENT OLTRA

JUAN LUIS GUERRERO RASCADO

LUCAS ALADOS ARBOLEDAS

ROBERTO ROMAN DIEZ

- 2018 Artículo: A European aerosol phenomenology - 6: Scattering properties of atmospheric aerosol particles from 28 ACTRIS sites, Atmospheric Chemistry and Physics, 18, , 7877-7911

LUCAS ALADOS ARBOLEDAS

- 2018 Artículo: Ionic coupling effects in dynamic electrophoresis and electric permittivity of aqueous concentrated suspensions, Colloids and Surfaces. A, Physicochemical and Engineering Aspects, 541,

, 195-211

ANGEL VICENTE DELGADO MORA

- 2018 Artículo: Hygroscopic growth study in the framework of EARLINET during the SLOPE I campaign: Synergy of remote sensing and in situ instrumentation, Atmospheric Chemistry and Physics, 18, 10, 7001-7017

FRANCISCO JOSE OLMO REYES

JOSE ANTONIO BENAVENT OLTRA

JUAN ANDRES CASQUERO VERA

JUAN LUIS GUERRERO RASCADO

LUCAS ALADOS ARBOLEDAS

ROBERTO ROMAN DIEZ

- 2018 Artículo: Retrieval of aerosol profiles combining sunphotometer and ceilometer measurements in GRASP code, Atmospheric Research, 204, , 161-177

ALBERTO CAZORLA CABRERA

DANIEL PÉREZ RAMÍREZ

FRANCISCO JOSE OLMO REYES

HASSAN LYAMANI

JOSE ANTONIO BENAVENT OLTRA

JUAN ANDRES CASQUERO VERA

LUCAS ALADOS ARBOLEDAS

ROBERTO ROMAN DIEZ

- 2018 Artículo: Experimental techniques for the calibration of lidar depolarization channels in EARLINET, Atmospheric Measurement Techniques, 11, 2, 1119-1141

LUCAS ALADOS ARBOLEDAS

- 2018 Artículo: PEI-NIR Heptamethine Cyanine Nanotheranostics for Tumor Targeted Gene Delivery, Bioconjugate Chemistry, 29, 8, 2561-2575

ANA BELÉN JÓDAR REYES

- 2018 Artículo: Ion-modified nanoparticles induce different apatite formation in cervical dentine., International Endodontic Journal, 51, 9, 1019-1029

MODESTO TORCUATO LÓPEZ LÓPEZ

- 2018 Artículo: Characterization of smoke and dust episode over West Africa: comparison of MERRA-2 modeling with multiwavelength Mie/Raman lidar observations, Atmospheric Measurement Techniques, 11, , 949-969

DANIEL PÉREZ RAMÍREZ

- 2018 Artículo: Rheology of magnetic alginate hydrogels, Journal of Rheology, 62, 5, 1083-1096

CRISTINA GILA VILCHEZ

JUAN DE DIOS GARCÍA LÓPEZ-DURÁN

MODESTO TORCUATO LÓPEZ LÓPEZ

- 2018 Artículo: FORMULATION AND IN VITRO EVALUATION OF MAGNETOLIPOSOMES AS A POTENTIAL NANOTOOL IN COLORECTAL CANCER THERAPY, Colloids and Surfaces B: Biointerfaces, , , -

ANGEL VICENTE DELGADO MORA

- 2018 Artículo: Health monitoring of timber beams retrofitted with carbon fiber composites via the acoustic emission technique, Composite Structures, 206, , 392-402

ANTOLINO GALLEGRO MOLINA

ELISABET SUÁREZ VARGAS

FRANCISCO JOSÉ RESCALVO FERNÁNDEZ

- 2018 Artículo: Characterization of the Extraterrestrial Magnesium Source in the Atmosphere Using a Meteoric Ablation Simulator, Geophysical Research Letters, , , -

JUAN CARLOS GOMEZ MARTIN

- 2018 Artículo: Comment on "Methanol dimer formation drastically enhances hydrogen abstraction from methanol by OH at low temperature" by W. Siebrand, Z. Smedarchina, E. Martínez-Núñez and A. Fernández-Ramos, Phys. Chem. Chem. Phys., 2016, 18, 22712, Physical Chemistry Chemical Physics, 20, , 8349-8354

JUAN CARLOS GOMEZ MARTIN

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- 2018 Poster en Congreso: Ion-modified nanoparticles induce different apatite formation in cervical dentin., XLI Congreso de la Sociedad Ibérica de Biomecánica y Biomateriales, 18/10/2018, Madrid, MODESTO TORCUATO LÓPEZ LÓPEZ

- 2018 Poster en Congreso: Remote sensing the Atmospheric Boundary Layer: a review in the framework of the COST-Actions TOPROF, X Workshop Lidar Measurement in Latin America, 19/11/2018, Medellín, Colombia, Congreso

JUAN LUIS GUERRERO RASCADO

- 2018 Poster en Congreso: Retrieving cloud properties from solar background signal by ground-based lidar measurements over the Southeastern Spain, X Workshop Lidar Measurement in Latin America, 19/11/2018, Medellín, Colombia, Congreso

JUAN LUIS GUERRERO RASCADO

LUCAS ALADOS ARBOLEDAS

JOSE ANTONIO BENAVENT OLTRA

- 2018 Ponencia en Congreso: Investigating aerosol hygroscopic enhancement factors by combination of automatic remote sensing and chemical analysis, X Workshop Lidar Measurement in Latin America, 19/11/2018, Medellín, Colombia, Congreso

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JUAN ANDRES CASQUERO VERA

- 2018 Poster en Congreso: Lidar hardware automatization, data backup and treatment, X Workshop Lidar Measurement in Latin America, 19/11/2018, Medellín, Colombia, Congreso

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- 2018 Ponencia en Congreso: Estimations of the lidar depolarization uncertainties by means of a polarimetric lidar simulator, European Lidar Conference, 03/07/2018, Thesaloniki, Greece, Congreso

FRANCISCO JOSE OLMO REYES

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JUAN LUIS GUERRERO RASCADO

- 2018 Poster en Congreso: Comparison of optical products retrieved by the Single Calculus chain and the

- operational retrieving algorithm at the EARLINET Granada Station, European Lidar Conference, 03/07/2018, Thesaloniki, Greece, Congreso
JUAN LUIS GUERRERO RASCADO
LUCAS ALADOS ARBOLEDAS
- 2018 Poster en Congreso: Vertical Particle Flux Observations with Remote Sensing Technique during SLOPE II, European Lidar Conference, 03/07/2018, Thesaloniki, Greece, Congreso
FRANCISCO JOSE OLMO REYES
LUCAS ALADOS ARBOLEDAS
HASSAN LYAMANI
JUAN LUIS GUERRERO RASCADO
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JUAN ANDRES CASQUERO VERA
- 2018 Sesión plenaria en Congreso: SOUNDSCAPE EVALUATION OF URBAN SOCIAL SPACES. A COMPARATIVE STUDY: BERLIN - GRANADA, 176th MEETING ACOUSTICAL SOCIETY OF AMERICA, 05/11/2018, VICTORIA, BC, CANADA, Congreso
JERONIMO VIDA MANZANO
- 2018 Comunicación en congreso: Uso de Indicadores de Calidad Acústica para la valoración cualitativa de los ambientes sonoros ("Soundscapes"), Congreso Nacional del Medio Ambiente 2018, 26/11/2018, Madrid, Congreso
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- 2018 Comunicación en congreso: STABILITY AND IN VITRO DIGESTIBILITY OF HYALURONIC ACID-PROTEIN COATED LIPID LIQUID NANOCAPSULES FOR ORAL DIGESTION, VI Jornadas de Jóvenes Investigadores en Coloides e Interfaces, 07/02/2018, Córdoba, España, Congreso
MARÍA JOSÉ GÁLVEZ RUIZ
AIXA MARÍA AGUILERA GARRIDO
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JULIA MALDONADO VALDERRAMA
- 2018 Poster en Congreso: IN VITRO DIGESTIBILITY OF HYALURONIC ACID-BSA COATED OLIVE OIL NANOCAPSULES AS ORAL DRUG DELIVERY SYSTEM, 17th Food Colloids Conference: Application of Soft Matter Concepts, 08/04/2018, Leeds, UK, Congreso
AIXA MARÍA AGUILERA GARRIDO
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FRANCISCO GALISTEO GONZÁLEZ
- 2018 Poster en Congreso: A GREAT CHALLENGE IN ONCOLOGICAL THERAPY: ORAL ADMINISTRATION OF NOVEL LIPID NANOCAPSULES (LNCs) LOADED WITH DRUGS AGAIN PANCREATIC CANCER, 17th Food Colloids Conference: Application of Soft Matter Concepts, 08/04/2018, Leeds, UK, Congreso
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JULIA MALDONADO VALDERRAMA
- 2018 Poster en Congreso: THE EFFECT OF HYALURONIC ACID ON PROTEIN INTERFACIAL LAYERS, 17th Food Colloids Conference: Application of Soft Matter Concepts, 08/04/2018, Leeds, UK, Congreso
MIGUEL ANGEL CABRERIZO VÍLCHEZ
MARÍA JOSÉ GÁLVEZ RUIZ
JULIA MALDONADO VALDERRAMA
- 2018 Comunicación en congreso: IMPACT OF ADDITIVES ON SCLEROSING FOAM: FOAM STABILITY AND SURFACE, EUFOAM 2018, 10/07/2018, Liege, Belgium, Congreso
JULIA MALDONADO VALDERRAMA
MARÍA JOSÉ GÁLVEZ RUIZ
MIGUEL ANGEL CABRERIZO VÍLCHEZ
- 2018 Comunicación en congreso: EL CINE Y LAS SERIES DE TV COMO HERRAMIENTAS PARA LA COMPRESIÓN DEL SENTIDO MATEMÁTICO EN FUTUROS MAESTROS, XVII CONGRESO DE ENSEÑANZA Y APRENDIZAJE DE LAS MATEMÁTICAS. MATEMÁTICAS EN TIERRA DE CINE, 04/07/2018, Almería, Congreso
JOSÉ ANTONIO GARZÓN GUERRERO
- 2018 Conferencias impartidas en Jornada: La planificación de la docencia, III Jornadas de Iniciación a la Docencia Universitaria para contratados/as Predoctorales FPU y FPI, 22/11/2018, Granada, España, Jornada
MODESTO TORCUATO LÓPEZ LÓPEZ
- 2018 Conferencias impartidas en Seminario: Hidrogeles magnéticos inteligentes para medicina regenerativa, Seminario en el marco del IV Plan Propio de Investigación y Transferencia de la Universidad de Sevilla, 24/10/2018, Facultad de Física, Universidad de Sevilla, Sevilla, Seminario

MODESTO TORCUATO LÓPEZ LÓPEZ

- 2018 Ponencia en Congreso: Blue energy by Capmix methods: Combination of polyelectrolyte and membrane coated, Interfaces Against Pollution, 10/06/2018, LA GRANDE MOTTE, Congreso

MARIA LUISA JIMENEZ OLIVARES

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ANGEL VICENTE DELGADO MORA

MARÍA DEL MAR FERNÁNDEZ MARTÍNEZ-REY

- 2018 Ponencia en Congreso: Ensemble of soft electrodes and ionic exchange membranes for Capacitive, Interfaces Against Pollution, 10/06/2018, LA GRANDE MOTTE, Congreso

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GUILLERMO RAMÓN IGLESIAS SALTO

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JULIA MALDONADO VALDERRAMA

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JULIA MALDONADO VALDERRAMA

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ALBERTO MARTÍN MOLINA

ARTURO MONCHO JORDÁ

- 2018 Poster en Congreso: Impact of Climate Change on Water Resources in the Duero River Basin, EGU General Assembly 2018, 08/04/2018, Austria / Vienna, Congreso

SONIA RAQUEL GÁMIZ FORTIS

MARÍA JESÚS ESTEBAN PARRA

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MATILDE GARCÍA-VALDECASAS OJEDA

- 2018 Poster en Congreso: Evaluating the Feasibility of Using a Drought Index Based on the Actual Evapotranspiration, EGU General Assembly 2018, 08/04/2018, Austria / Vienna, Congreso

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- 2018 Poster en Congreso: Future Projections of the Water Balance Components from the VIC Model: A Case Study, EGU General Assembly 2018, 08/04/2018, Austria / Vienna, Congreso

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- 2018 Poster en Congreso: Impact of Climate Change on Water Availability over the Iberian Peninsula, EGU General Assembly 2018, 08/04/2018, Austria / Vienna, Congreso

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- 2018 Comunicación en congreso: Quality Control Of Magnetic TissueLike Substitutes Elaborated By Tissue Engineering. An In Vivo Study In Wistar Rats, European Society for Artificial Organs, 12/09/2018, Madrid, Congreso

MODESTO TORCUATO LÓPEZ LÓPEZ

- 2018 Comunicación en congreso: Las mareas de presión determinan la dinámica del CO2 subterráneo en dos ecosistemas semiáridos del sureste español., I Congreso Nacional / III Jornadas Investigadores en Formación. Fomentando la interdisciplinariedad, 20/06/2018, Antigua facultad de medicina.

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