Tesis leídas en el curso 2020-2021

Doctorando	Titulo	Directores	Calificación
ANA MATEOS MAROTO	RECUBRIMIENTO Y TRANSPORTE ACTIVO DE LIPOSOMAS.	FRANCISCO ORTEGA GOMEZ / FERNANDO MARTINEZ PEDRERO	Sobresaliente cum laude
"Polyelectrolyte Multilayered Capsules as Biomedical Tools" Ana Mateos-Maroto, Laura Fernández-Peña, Irene Abelenda-Núñez, Francisco Ortega, Ramón G. Rubio y Eduardo Guzmán. Polymers, 2022, 14, 479 "Fabrication of Robust Capsules by Sequential Assembly of Polyelectrolytes onto Charged Liposomes" Marta Ruano, Ana Mateos-Maroto, Francisco Ortega, Hernán Ritacco, José E. F. Rubio, Eduardo Guzmán y Ramón G. Rubio. Langmuir, 2021, 37, 6189 "Polyelectrolyte Multilayers on Soft Colloidal Nanosurfaces: A New Life for the Layer-By-Layer Method" Ana Mateos-Maroto, Irene Abelenda-Núñez, Francisco Ortega, Ramón G. Rubio y Eduardo Guzmán. Polymers, 2021, 13 (8) 1221 "Giant Vesicles with Encapsulated Magnetic Nanowires as Versatile Carriers, Transported via Rotating and Nonhomogeneus Magnetic Fields" Ana Mateos-Maroto, Francisco Ortega, Ramón G. Rubio, Jean-François Berret y Fernando Martínez-Pedrero. Particle & Particle. Systems Characterization, 2019 (36) 1900239 "Magnetic Biohybrid Vesicles Transported by an Internal Propulsion Mechanism" Ana Mateos-Maroto, Andrés Guerrero-Martínez, Ramón G. Rubio. Francisco Ortega y Fernando Martínez-Pedrero. ACS Applied Materials and Interfaces, 2018, 10 (35) 29367-29377 "Layer-by-Layer polyelectrolyte assemblies for encapsulation and release of active compounds" Eduardo Guzmán, Ana Mateos-Maroto, Marta Ruano, Francisco Ortega y Ramón G. Rubio. Advances in Colloid and Interface Science, 2017 (249) 290–307			

Doctorando	Titulo	Directores	Calificación
ELENA GARCÍA GARCÍA	ESTUDIO DE CORROSIÓN DE ESTRUCTURAS EN AMBIENTES CON BAJOS CONTENIDOS EN OXÍGENO.	RAUL ARRABAL DURAN / JAVIER SANCHEZ MONTERO	Sobresaliente cum laude
Elena García, Julio Torres, Nuria Rebolledo, Raúl Arrabal, Javier Sánchez, Corrosion of steel rebars in anoxic environments. Part I: electrochemical measurements, Materials, 2021, 14(10), 2491, doi: 10.3390/ma14102491 Elena García, Julio Torres, Nuria Rebolledo, Raúl Arrabal, Javier Sánchez, Corrosion of steel rebars in anoxic environments. Part II: Growth Rate and Mechanical Strength, Materials, 2021, 14(10), 2547, doi: 10.3390/ma14102547			

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ARTURO TORRES GUTIERREZ	ESTUDIO COMPUTACIONAL DE MATERIALES COMO ELECTRODO POSITIVO PARA BATERÍAS RECARGABLES DE CALCIO.	MARIA ELENA ARROYO DE DOMPABLO	Sobresaliente cum laude

Ashley P. Black, Carlos Frontera, Arturo Torres, Miguel Recio-Poo, Patrick Rozier, Juan D. Forero-Saboya. François Fauth, Esteban Urones-Garrote, M. Elena Arroyo-de Dompablo and M. Rosa Palacín, Elucidation of the redox activity of $Ca_2MnO_{3.5}$ and CaV_2O_4 in calcium batteries using operando XRD: charge compensation mechanism and reversibility, Energy Storage Materials 47, 354(2022)

Arturo Torres, José Luis Casals, M Elena Arroyo-de Dompablo, Enlisting Potential Cathode Materials for Rechargeable Ca Batteries, Chemistry of Materials 33, 2488 (2021). doi: 10.1021/acs.chemmater.0c04741

A. Black, A. Torres, C. Frontera, M.R. Palacín and M.E. Arroyo-de Dompablo, Appraisal of calcium ferrites as cathodes for calcium rechargeable batteries: DFT, synthesis, characterization and electrochemistry of $Ca_4Fe_9O_{17}$, Dalton Transactions 49, 2671 (2020).

A. Torres, F. J. Luque, J. Tortajada, and M.E. Arroyo-de Dompablo, DFT investigation of Ca mobility in reduced-perovskite and oxidized- marokite oxides, Energy Storage Materials 21, 354 (2019).

A. Torres, F. J. Luque, J. Tortajada, and M.E. Arroyo-de Dompablo, Analysis of Minerals as Electrode Materials for Ca-based Rechargeable Batteries, Scientific Reports 9, 1 (2019).

A. Torres, F. Bardé and M.E. Arroyo-de Dompablo, Evaluation of cobalt oxides for calcium battery cathode applications, Solid State Ionics 340, 115004 (2019).

A. Torres and M.E. Arroyo-de Dompablo, Comparative Investigation of MgMnSiO4 and Olivine-Type $MgMnSiS_4$ as Cathode Materials for Mg Batteries, The Journal of Physical Chemistry C 122 (17), 9356 (2018).

Doctorando	Titulo	Directores	Calificación
CARLOS FERRER GRACIA	SÍNTESIS DE NANOPARTÍCULAS NIFE2O4. ENSAYOS DE RECUBRIMIENTO Y FUNCIONALIZACIÓN CON VISTAS A SU EMPLEO COMO MATERIALES FUNCIONALES.	JOSEFA ISASI MARIN / PABLO AREVALO CID	Sobresaliente cum laude
C. Ferrer, J. Isasi, P. Arévalo, M. Fernández Ramos, M. Rapp, M. Alcolea Palafox, J.F. Marco, F. Martín-Hernández. (2021). "Synthesis and assembly strategies for obtaining of $NiFe_2O_4$ and $NiFe_2O_4$@SiO_2-A samples. Relationships between structure, powder morphology, magnetic behavior and Mössbauer spectroscopy. Evaluation of its usefulness for the Cu^{2+} ions removal". Journal of Alloys and Compounds 899, 163403. doi: 10.1016/j.jallcom.2021.163403			

Doctorando	Titulo	Directores	Calificación
LAIA LEON BOIGUES	EFECTOS DEL CONFINAMIENTO EN LAS REACCIONES DE HOMOPOLIMERIZACIÓN Y COPOLIMERIZACIÓN EN NANOREACTORES DE ALÚMINA POROSA (AAO). CINÉTICA DE LA REACCIÓN, RELACIONES DE REACTIVIDAD Y PROPIEDADES DEL POLÍMERO	CARMEN MIJANGOS UGARTE (ICTP)	Sobresaliente cum laude
Laia León-Boigues, Rodrigo Navarro, Carmen Mijangos. "Free radical nanocopolymerization in AAO porous materials: Kinetic, copolymer composition and monomer reactivity ratios". Polymer 2021, 229: 123989.			

Laia León-Boigues, Luis A Pérez, Carmen Mijangos. “In Situ Synthesis of Poly (butyl methacrylate) in Anodic Aluminum Oxide Nanoreactors by Radical Polymerization: A Comparative Kinetics Analysis by Differential Scanning Calorimetry and 1H-NMR”. Polymers, 2021, 13 (4), 602. doi: 10.3390/polym13040602.

Laia León-Boigues, Carmen Mijangos. "Nanopolimerización en confinamiento: nano-reactores AAO y otros sistemas porosos." Revista de plásticos modernos: Ciencia y tecnología de polímeros 2021, 121.764: 3.

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Maryam Safari, Laia León Boigues, Guangyu Shi, Jon Maiz, Guoming Liu, Dujin Wang, Carmen Mijangos, Alejandro Müller."Effect of Nanoconfinement on the isodimorphic crystallization of Poly(butylene succinate-ran-caprolactone) Random Copolymers". Macromolecules 2020, 53, 15, 6486–6497.

Laia Leon-Boigues, Carmen Mijangos, Kamil Kaminski and Marian Paluch. Magdalena Tarnacka, Paulina Maksym, Andrzej Zie, Anna Mielanczyk, e Monika Geppert-Rybczynska, “The application of spatially restricted geometries as a unique route to produce well-defined poly(vinyl pyrrolidones) via free radical polymerisation”. Chem. Commun. 2019, 55: 6441-6444; doi: 10.1039/c9cc02625h.

Laia León-Boigues, Catalina von Bilderling, Lía I. Pietrasanta, Omar Azzaroni, Juan M. Giussi and Carmen Mijangos. “A Patterned Butyl Methacrylate-co-2-Hydroxyethyl Acrylate Copolymer with Softening Surface and Swelling Capacity”. Polymers 2019, 11, 290; doi:10.3390/polym11020290.

Doctorando	Titulo	Directores	Calificación
JOSÉ ANTONIO DOMINGUEZ AGUILILLA	DESARROLLO DE ESTUDIOS Y ENSAYOS EXPERIMENTALES PARA LOS SISTEMAS DE CONTRAMEDIDAS FRENTE A RIEGOS NRBQ.	JAVIER QUIÑONES DIEZ / MARTA FERNANDEZ DIAZ (CIEMAT)	Sobresaliente cum laude

Javier Quiñones Díez, José Antonio Dominguez, Laura Pascal, Luis Jesús Amigo, José Manuel Cobo, Marta Fernández, COUNTERFOG system applied inside the warehouse: verification of the counter response against radiochemical attack scenario. The European Physical Journal Plus, 2021, 136, 1053, doi.org/10.1140/epjp/s13360-021-02005-7

Javier Quiñones Díez, Laura Pascal, Marta Fernández, José Antonio Dominguez, Luis Jesús Amigo, José Manuel Cobo, K. Mazanec, Counter method against I2(g) radionuclides in CBRN scenario. CBRN Book series. Aracne editrice, 2019.

Laura Pascal, Marta Fernández, José Antonio Dominguez, Luis Jesús Amigo, K. Mazanec, J.L. Perez, Javier Quiñones Díez, First measurement using COUNTERFOG device: chemical warfare agent scenario. Enhancing CBRNE safety & security: Proceedings of the SICC 2017 Conference Science as the first countermeasure for CBRNE and Cyber threats, 93-102, Springer, 2018, ISBN 978-3-319-91791-7.

Doctorando	Titulo	Directores	Calificación
GROWENE WILL QUEIRÓS MUGAS	NUEVO TRATAMIENTO TÉRMICO DE RECOCIDO INTERCRÍTICO DE ACEROS RESISTENTES AL DESGASTE CON BORO DE BAJO IMPACTO MEDIOAMBIENTAL.	LAURA GARCIA SANCHEZ / ANTONIO JOSE CRIADO PORTAL	Sobresaliente cum laude

Growene W Queirós, Ignacio Carabias, Laura García Sanchez, José M Gómez de Salazar, Antonio J Criado, Contribution to The Knowledge of The Action of Boron in The Dual Structure of a Steel 30MnB5 by Means of X-Ray Diffraction., J Material Sci Eng 2019, 8:1. doi: 10.4172/2169-0022.1000508

Doctorando	Titulo	Directores	Calificación
SARA ALMUDENA LOPEZ PAZ	IRON BY COPPER SUBSTITUTION IN M-1212 CUPRATES: COEXISTENCE OF SUPERCONDUCTIVITY AND MAGNETISM. SUSTITUCIÓN DE COBRE POR HIERRO EN CUPRATOS M-1212: COEXISTENCIA DE SUPERCONDUCTIVIDAD Y MAGNETISMO.	MIGUEL ÁNGEL ALARIO FRANCO / REGINO SAEZ PUCHE	Sobresaliente cum laude
García-Martín, Susana; López Paz, Sara; Marín, Rafael; Irujo-Labalde, Xabier; Sanchez-Marcos, Jorge; Pérez-Coll, D.; Alario-Franco, Miguel. (2021). YBaCuO-type perovskites as potential air electrodes for SOFCs. The case of YSr 2 Cu 2 FeO 7+δ. Journal of Materials Chemistry A. 9 doi: 10.1039/d1ta00111f Sara A. López-Paz, D. P. Sari, A. D. Hillier, and M. A. Alario-Franco, "Coexistence of magnetism and superconductivity in the iron containing FeSr2YCu2O7.57 cuprate as studied by µSR", AIP Advances 11, 015011 (2021) doi: 10.1063/9.0000093 Sara A. López-Paz, K. Nakano, J. Sanchez-Marcos, C. Tassel, M. A. Alario-Franco, and H. Kageyama. Hydride-Reduced Eu2SrFe2O6: A T-to-T' Conversion Enabling Fe2+ in Square-Planar Coordination. Inorg. Chem. 2020, 59, 17, 12913–12919. doi: 10.1021/acs.inorgchem.0c01982 Sara A. López-Paz, Xabier Martínez de Irujo-Labalde, Jorge Sánchez-Marcos, Clemens Ritter, Emilio Moran, and Miguel A. Alario-Franco. Soft Magnetic Switching in a FeSr2YCu2O7.85 Superconductor with Unusually High Iron Valence. Inorg. Chem. 2019, 58, 19, 12809–12814. doi: 10.1021/acs.inorgchem.9b01770			

Doctorando	Titulo	Directores	Calificación
SANDRA JIMENEZ FALCAO	NANOSENSORES Y SISTEMAS INTELIGENTES DE LIBERACIÓN CONTROLADA BASADOS EN NANOMATERIALES POROSOS.	MARIA PALOMA MARTINEZ RUIZ / REYNALDO VILLALONGA SANTANA	Sobresaliente cum laude
Jimenez-Falcao, S., Joga, N., Garcia-Fernandez, A., Llopis-Lorente, A., Torres, D., de Luis, B., Sancenón, F., Martínez-Ruiz, P., Martinez-Manez, R., Villalonga, R. (2019) Janus nanocarrier powered by bi-enzymatic cascade system for smart delivery. Journal of Material Chemistry B 7: 4669 – 4676. Jimenez-Falcao, S., de Luis, B., García-Fernández, A., Llopis-Lorente, A., Díez, P., Sánchez, A., Sancenón, F., Martínez-Ruiz, P., Martinez-Manez, R., Villalonga, R. (2019) Glucose-responsive enzyme-controlled mesoporous nanomachine with a layer-by-layer supramolecular architecture. ACS Applied Bio Materials 2: 3321-3328. Jimenez-Falcao, S., Parra-Nieto, J., Pérez-Cuadrado, H., Martínez-Máñez, R., Martínez-Ruiz, P., Villalonga, R. (2019) Avidin-gated mesoporous silica nanoparticles for signal amplification in electrochemical biosensor. Electrochemistry Communications 108: 106556.			

Jimenez-Falcao, S., Villalonga, A., Arévalo-Villena, M., Briones-Pérez, A., Martínez-Máñez, R., Martínez-Ruiz, P., Villalonga, R. (2020) Enzyme-controlled mesoporous nanosensor for the detection of living Saccharomyces cerevisiae. Sensors and Actuators B: Chemical 303: 127197. doi: 10.1016/j.snb.2019.127197.

Jimenez-Falcao, S., Villalonga, A., Parra-Nieto, J., Llopis-Lorente, A., Martinez-Ruiz, P., Martinez-Mañez, R., Villalonga, R. (2020) Dithioacetal-mechanized mesoporous nanosensor for Hg(II) determination. Microporous and Mesoporous Materials 297: 110054.

Jimenez-Falcao, S., Torres, D., Martínez-Ruiz, P., Vilela, D., Martínez-Máñez, R., Villalonga, R. (2021). Sucrose-responsive intercommunicated Janus nanoparticles network. Nanomaterials 11(10), 2492.

Doctorando	Titulo	Directores	Calificación
LIDIA NAZARET GOMEZ ARRIBAS	DISEÑO, SÍNTESIS, CARACTERIZACIÓN Y APLICACIONES ANALÍTICAS DE ELEMENTOS DE RECONOCIMIENTO BIOMIMÉTICOS.	MARIA CRUZ MORENO BONDI / JAVIER LUCAS URRACA RUIZ /MARIA ELENA BENITO PEÑA	Sobresaliente cum laude

Gómez-Arribas, L. N.; Benito-Peña, E.; Hurtado-Sánchez, M. D. C.; Moreno-Bondi, M. C. Biosensing Based on Nanoparticles for Food Allergens Detection. Sensors 2018, 18 (4), 1087. doi: 10.3390/s18041087.

Gómez-Arribas, L. N.; Urraca, J. L.; Benito-Peña, E.; Moreno-Bondi, M. C. Tag-Specific Affinity Purification of Recombinant Proteins by Using Molecularly Imprinted Polymers. Anal. Chem. 2019, 91 (6), 4100–4106. doi: 10.1021/acs.analchem.8b05731.

Gómez-Arribas, L. N.; Juste-Dolz, A.; Peltomaa, R.; Giménez-Romero, D.; Morais, S.; Barderas, R.; Cuadrado, C.; Maquieira, Á.; Benito-Peña, E.; Moreno-Bondi, M. C. Identification of High-Affinity Phage-Displayed VH Fragments by Use of a Quartz Crystal Microbalance with Dissipation Monitoring. Sensors and Actuators B: Chemical 2021, 340, 129954. doi: 10.1016/j.snb.2021.129954.

Gómez-Arribas, L. N.; Darder, M. del M.; García, N.; Rodriguez, Y.; Urraca, J. L.; Moreno-Bondi, M. C. Hierarchically Imprinted Polymer for Peptide Tag Recognition Based on an Oriented Surface Epitope Approach. ACS Appl. Mater. Interfaces 2020, 12 (43), 49111–49121. doi: 10.1021/acsami.0c14846.

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Doctorando	Titulo	Directores	Calificación
MARTA LUISA MURILLO SANCHEZ	DINÁMICA ESTRUCTURAL ULTRARRÁPIDA DE FOTODISOCIACION MOLECULAR RESUELTA EN TIEMPO	LUIS BAÑARES MORCILLO	Sobresaliente cum laude

Femtosecond XUV - IR induced photodynamics in the methyl iodide cation. M. L. Murillo - Sánchez, G. Reitsma, S. Marggi Poullain, P. Fernández - Milán, J. González - Vázquez, R. d. Nalda, F. Martín, M. J. J. Vrakking, O. Kornilov and L. Bañares. New Journal of Physics, 23(7): 073023.

Structural dynamics effects on the electronic predissociation of alkyl iodides. M. L. Murillo - Sánchez, A. Zanchet, S. Marggi Poullain, J. González - Vázquez and L. Bañares. Scientific Reports, 2020, 10, (1), 6700. doi: 10.1038/s41598-020-62982-0

Femtochemistry under scrutiny: Clocking state - resolved channels in the photodissociation of CH3I in the A – band, M. L. Murillo - Sánchez, J. González - Vázquez, M. E. Corrales, R. de Nalda, E. Martínez - Núñez, A. García - Vela and L. Bañares. The Journal of Chemical Physics, 2020, 152, (1), 014304.

Femtosecond XUV induced dynamics of the methyl iodide cation-G. Reitsma, M. L. Murillo - Sánchez, R. de Nalda, M. E. Corrales, S. Marggi Poullain, J. González - Vázquez, M. J. J. Vrakking, L. Bañares and O. Kornilov.-EPJ Web Conf., 2019, 205, 02020.

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Halogen - atom effect on the ultrafast photodissociation dynamics of the dihalomethanes CH2ICl and CH2BrI. M. L. Murillo - Sánchez, S. Marggi Poullain, J. J. Bajo, M. E. Corrales, J. González - Vázquez, I. R. Solá and L. Bañares. Physical Chemistry Chemical Physics, 2018, 20, (32), 20766 - 20778.

Femtosecond photodissociation dynamics of chloroiodomethane in the first absorption band. M. L. Murillo - Sánchez, S. Marggi Poullain, J. González - Vázquez, M. E. Corrales, G. Balerdi and L. Bañares. Chemical Physics Letters, 2017, 683, 22 – 28.

Doctorando	Titulo	Directores	Calificación
RUBÉN DEL OLMO MARTÍNEZ	TRATAMIENTOS SUPERFICIALES LIBRES DE CR(VI) PARA ALEACIONES DE ALUMINIO	RAUL ARRABAL DURAN / ENDZHE MATYKINA	Sobresaliente cum laude

Rubén del Olmo, Marta Mohedano, Beatriz Mingo, Raúl Arrabal, Endzhe Matykina, LDH post-treatment of flash PEO coatings. Coatings (9), 2019. Open Access. doi: 10.3390/coatings9060354

Rubén del Olmo, Ursa Tiringer, I. Miloševc, Peter Visser, Raúl Arrabal, Endzhe Matykina, J.M.C. Mol, Hybrid sol-gel coatings applied on anodized AA2024-T3 for active corrosion protection. Surface and Coatings Technology, 2021, 419, 127251. doi: 10.1016/j.surfcoat.2021.127251

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Hugo Mora-Sanchez, Rubén del Olmo (co-author), Joaquín Rams, Belén Torres, Marta Mohedano, Endzhe Matykina, Raúl Arrabal, Hard Anodizing and Plasma Electrolytic Oxidation of an Additively Manufactured Al-Si alloy. Surface and Coatings Technology, 2021, 420, 127339. doi: 10.1016/j.surfcoat.2021.127339

Rubén del Olmo, Marta Mohedano, Peter Visser, Alicia Rodriguez, Endzhe Matykina, Raúl Arrabal, Effect of cerium on thin sulfuric acid anodizing of 2024-T3 alloy. Journal of Materials Research and Technology, 2021, 15, 3240-3254. doi: 10.1016/j.jmrt.2021.09.117

Rubén del Olmo, M. Mohedano, E. Matykina, R. Arrabal, Permanganate loaded Ca-Al-LDH coating for active corrosion protection of 2024-T3 alloy. Corrosion Science, 2022, 198, 110144. doi: 10.1016/j.corsci.2022.110144

Doctorando	Titulo	Directores	Calificación
PABLO SALCEDO FERNÁNDEZ	NUEVAS REDES METAL-ORGÁNICAS Y MATERIALES COMPUESTOS: SÍNTESIS Y APLICACIONES.	PATRICIA HORCAJADA CORTES / THOMAS DEVIC (IMDEA, CNRS)	Sobresaliente cum laude

Doctorando	Titulo	Directores	Calificación
GUSTAVO GARCIA MARTIN	NUEVAS MEZCLAS MULTICOMPONENTE DE SALES FUNDIDAS PARA APLICACIONES COMO FLUIDOS DE ALMACENAMIENTO TÉRMICO EN PLANTAS DE CONCENTRACIÓN SOLAR	FRANCISCO JAVIER PEREZ TRUJILLO / MARIA ISABEL LASANTA CARRASCO / RICARDO DIAZ MARTIN (UCM, UDIMA)	Sobresaliente cum laude
G. García-Martín; M.I. Lasanta, V. Encinas-Sánchez; M.T. de Miguel; F.J.Pérez (2017). Evaluation of corrosion resistance of A516 Steel in a molten nitrate salt mixture using a pilot plant facility for application in CSP plants. Solar Energy Materials and Solar Cells. Volume 161, March 2017, Pages 226-231. doi: 10.1016/j.solmat.2016.12.002. Gustavo García-Martin, María I. Lasanta, María T. de Miguel, Andre Illana Sánchez, Francisco J. Pérez-Trujillo (2021). Corrosion Behavior of VM12-SHC Steel in Contact with Solar Salt and Ternary Molten Salt in Accelerated Fluid Conditions. Energies, 2021, 14(18), 5903; doi: 10.3390/en14185903. Encinas Sánchez, Víctor & Lasanta, Isabel & De Miguel, Maria & Martin, Gustavo & Perez Trujillo, Francisco. (2021). Corrosion monitoring of 321H in contact with a quaternary molten salt for parabolic trough CSP plants. Corrosion Science. 178. doi: 109070. 10.1016/j.corsci.2020.109070.			