



PUBLICATIONS OF THE YEAR 2023 SUPPORTED BY THE SGIIKER

- (1) The E2F2-miR34a-5p axis is involved in the biliary metabolism dysregulation in NASH. ; JUN 2023.

(2) Abalos B, Puelles P, Ibarguchi JIG. Polyphase tectonic reworking of serpentinites and chlorite-tremolite-talc rocks (SW Spain) from the subduction forearc to intracontinental emplacement. *J Metamorph Geol* 2023 MAY;41(4):491-523.

(3) Abarca JA, Diaz-Sainz G, Merino-Garcia I, Beobide G, Albo J, Irabien A. Optimized manufacturing of gas diffusion electrodes for CO₂ electroreduction with automatic spray pyrolysis. *Journal of Environmental Chemical Engineering* 2023 JUN;11(3):109724.

(4) Aboudzadeh MA, Rodriguez-Fanjul V, Terenzi A, de San Roman EG, Miranda JI, Pizarro AM, et al. Synthesis and Characterization of a Luminescent Cyclic Poly(ethylene oxide)-Polypyridyl Ruthenium Complex. *Acs Macro Letters* 2023 JUL 5;12(7):999-1004.

(5) Abu Serea ES, Orue I, Garcia JA, Lanceros-Mendez S, Reguera J. Enhancement and Tunability of Plasmonic-Magnetic Hyperthermia through Shape and Size Control of Au:Fe₃O₄ Janus Nanoparticles. *Acs Applied Nano Materials* 2023.

(6) Abucide A, Portal K, Fernandez-Gamiz U, Zulueta E, Azurmendi I. Unsteady-state turbulent flow field predictions with a convolutional autoencoder architecture. *Aims Mathematics* 2023;8(12):29734-29758.

(7) Abucide-Armas A, Portal-Porras K, Fernandez-Gamiz U, Zulueta E, Teso-Fz-Betono A. Convolutional Neural Network Predictions for Unsteady Reynolds-Averaged Navier-Stokes-Based Numerical Simulations. *Journal of Marine Science and Engineering* 2023 FEB;11(2):239.

(8) Acosta-Piantini E, Rodriguez-Diez E, Chavarri M, Lopez-de-Armentia I, Carmen Villaran M, Ignacio Lombrana J. Preparation of Hydrolyzed Sugarcane Molasses as a Low-Cost Medium for the Mass Production of Probiotic *Lactobacillus paracasei* ssp. *paracasei* F19. *Separations* 2023 JAN;10(1):33.

(9) Aduriz-Arrizabalaga J, Mercero JM, De Sancho D, Lopez X. Rules governing metal coordination in A β -Zn(ii) complex models from quantum mechanical calculations. *Physical Chemistry Chemical Physics* 2023.

(10) Agirrezabala LM, Malaxetxebarria A, Pascual A, Rodriguez-Lazaro J. Deep-sea paleoenvironmental evolution in the mid-Cretaceous of the Basque Pyrenees based on microfaunal analysis (Armintza section). *Cont Shelf Res* 2023 MAY 1:260:105001.



- (11) Aguado L, Joya A, Garbizu M, Plaza-Garcia S, Iglesias L, Hernandez MI, et al. Therapeutic effect of α 7 nicotinic receptor activation after ischemic stroke in rats. *Journal of Cerebral Blood Flow and Metabolism* 2023 AUG;43(8):1301-1316.
- (12) Aguera-Lorente A, Alonso-Pardavila A, Larrinaga M, Boyano MD, Gonzalez E, Falcon-Perez JM, et al. Small extracellular vesicle-based human melanocyte and melanoma signature. *Pigment Cell & Melanoma Research* 2023.
- (13) Aguirre M, Abad D, Albaina A, Gutierrez-Muto M, Langa J, Goni-Urriza M, et al. Ecological status of Urdaibai Biosphere reserve based on bacterial communities in a small-drainage estuary. *Marine and Freshwater Research* 2023;74(8):651-664.
- (14) Aguirre M, Ballard N, Gonzalez E, Hamzehlou S, Sardon H, Calderon M, et al. Polymer Colloids: Current Challenges, Emerging Applications, and New Developments. *Macromolecules* 2023 APR 11;56(7):2579-2607.
- (15) Aihartza J, Vallejo N, Aldasoro M, Garcia-Mudarra JL, Goiti U, Nogueras J, et al. Aerospace-foraging bats eat seasonably across varying habitats. *Scientific Reports* 2023 NOV 10;13(1):19576.
- (16) Akwa Y, Di Malta C, Zallo F, Gondard E, Lunati A, Diaz-de-Grenu LZ, et al. Stimulation of synaptic activity promotes TFEB-mediated clearance of pathological MAPT/Tau in cellular and mouse models of tauopathies. *Autophagy* 2023 FEB 1;19(2):660-677.
- (17) AL Qtaish NH, Villate-Beitia I, Gallego I, Martinez-Navarrete G, Soto-Sanchez C, Sainz-Ramos M, et al. Long-term biophysical stability of nanodiamonds combined with lipid nanocarriers for non-viral gene delivery to the retina. *Int J Pharm* 2023;639:122968.
- (18) Alanko V, Gaminde-Blasco A, Quintela-Lopez T, Loera-Valencia R, Solomon A, Bjorkhem I, et al. 27-hydroxycholesterol promotes oligodendrocyte maturation: Implications for hypercholesterolemia-associated brain white matter changes. *Glia* 2023 JUN;71(6):1414-1428.
- (19) Albujuq NR, Meana JJ, Diez-Alarcia R, Muneta-Arrate I, Naqvi A, Althumayri K, et al. Design, Synthesis, Molecular Docking, and Biological Evaluation of Novel Pimavanserin-Based Analogues as Potential Serotonin 5-HT2A Receptor Inverse Agonists. *J Med Chem* 2023 JUN 28;66(13):9057-9075.
- (20) Almenara N, Gueret R, Huertas-Alonso AJ, Veettil UT, Sipponen MH, Lizundia E. Lignin-Chitosan Gel Polymer Electrolytes for Stable Zn Electrodeposition. *Acs Sustainable Chemistry & Engineering* 2023.
- (21) Alonso-Olazabal A, Zuluaga MC, Martinez-Salcedo A, Esteban-Delgado M, Izquierdo-Marculeta MT, Rechin F, et al. Trade Networks in the Neighbouring Roman



Provinces of Aquitania-Tarraconensis on the Bay of Biscay: Evidence from Petrographic and Chemical Analyses of Common Coarse Ware Pottery. Minerals 2023 JUL;13(7):887.

- (22) Althea Fortuin B, Otegi J, Lopez del Amo JM, Rodriguez Pena S, Meabe L, Manzano H, et al. Synergistic theoretical and experimental study on the ion dynamics of bis(trifluoromethanesulfonyl)imide-based alkali metal salts for solid polymer electrolytes. Physical Chemistry Chemical Physics 2023 SEP 20;25(36):25038-25054.
- (23) Alves R, Fidalgo-Marijuan A, Salado M, Goncalves R, Silva MM, Bazan B, et al. Agar-Based Solid Polymer Electrolyte-Containing Ionic Liquid for Sustainable Electrochromic Devices. Acs Sustainable Chemistry & Engineering 2023 NOV 9;11(46):16575-16584.
- (24) Amigo FJ, Urbikain G, de Lacalle LNL, Pereira O, Fernandez-Lucio P, Fernandez-Valdivielso A. Prediction of cutting forces including tool wear in high-feed turning of Nimonic® C-263 superalloy: A geometric distortion-based model. Measurement 2023 APR;211:112580.
- (25) Andonegi M, Correia DM, Pereira N, Costa CM, Lanceros-Mendez S, de la Caba K, et al. Sustainable Collagen Composites with Graphene Oxide for Bending Resistive Sensing. Polymers 2023 OCT;15(19):3855.
- (26) Andonegi M, Correia DM, Pereira N, Fernandes MM, Costa CM, Lanceros-Mendez S, et al. Sustainable antibacterial collagen composites with silver nanowires for resistive pressure sensor applications. European Polymer Journal 2023 NOV 22;200:112494.
- (27) Andonegi M, Correia D, Pereira N, Salado M, Costa CM, Lanceros-Mendez S, et al. Sustainable Collagen Blends with Different Ionic Liquids for Resistive Touch Sensing Applications. Acs Sustainable Chemistry & Engineering 2023 APR 17;11(15):5986-5998.
- (28) Andrew LJ, Gillman ER, Walters CM, Lizundia E, MacLachlan MJ. Multi-Responsive Supercapacitors from Chiral Nematic Cellulose Nanocrystal-Based Activated Carbon Aerogels. Small 2023 AUG;19(34).
- (29) Aranburu N, Otaegi I, Guerrica-Echevarria G. Mechanical, electrical, and adhesive synergies in melt-processed hybrid bio-based TPU nanocomposites. Polym Test 2023 JUL;124:108068.
- (30) Araujo AMM, Cruz LMM, Gomes M, Gallo B, Valente LMM, Berrueta LAA. Characterization of polyphenols in the methanol leaf extract of *Bathysa gymnocarpa* (Rubiaceae) by HPLC-DAD-ESI-MS/MS. Natural Product Research 2023.
- (31) Arbelaitz A, Orue A. Walnut shells as cellulose nanocrystal source: isolation procedure and properties characterization. Biomass Conversion and Biorefinery 2023.



- (32) Aretxabaleta X, Garcia del Cano G, Barrondo S, Lopez de Jesus M, Gonzalez-Burguera I, Saumell-Esnaola M, et al. Endocannabinoid 2-Arachidonoylglycerol Synthesis and Metabolism at Neuronal Nuclear Matrix Fractions Derived from Adult Rat Brain Cortex. *International Journal of Molecular Sciences* 2023 FEB;24(4):3165.
- (33) Aretxabaleta XM, Lopez-Zorrilla J, Etxebarria I, Manzano H. Multi-step nucleation pathway of C-S-H during cement hydration from atomistic simulations. *Nature Communications* 2023 DEC 2;14(1):7979.
- (34) Argaiz M, Aguirre M, Tomovska R. Strategies towards improved performance of waterborne coatings through multiplying the ionic interparticle interactions. *Progress in Organic Coatings* 2023 OCT;183:107731.
- (35) Argaiz M, Aguirre M, Tomovska R. Towards improved performance of waterborne polymer dispersions through creation of dense ionic interparticle network within their films. *Polymer* 2023 JAN 16;265:125571.
- (36) Arranz K, Urrutxurtu I, Martinez-Patino D, Navarro E. Growth and Physiological Performance in Growth Phenotypes of the Carpet Shell Clam (*Ruditapes decussatus*) Fed Diets of Variable Lipid/Carbohydrate Ratios. *Aquacult Nutr* 2023 AUG 12;2023:3622475.
- (37) Arrieta-Aguirre I, Menendez-Manjon P, Carrano G, Diez A, Fernandez-de-Larrinoa I, Moragues M. Molecular Identification of Fungal Species through Multiplex-qPCR to Determine Candidal Vulvovaginitis and Antifungal Susceptibility. *Journal of Fungi* 2023 DEC;9(12):1145.
- (38) Assi DS, Haris MPU, Karthikeyan V, Kazim S, Ahmad S, Roy VAL. Low Switching Power Neuromorphic Perovskite Devices with Quick Relearning Functionality. *Advanced Electronic Materials* 2023 AUG;9(8).
- (39) Azpitarte O, Zudaire A, Uranga J, Lopez X, Salassa L, Formoso E, et al. One- and Two-Electron Reductions in MiniSOG and their Implication in Catalysis. *Chemphyschem* 2023 AUG 1;24(15):e202300091.
- (40) Azuaje-Hualde E, Komen J, Alonso-Cabrera JA, van den Berg A, de Pancorbo MM, van der Meer AD, et al. Cell Patterning Technology on Polymethyl Methacrylate through Controlled Physicochemical and Biochemical Functionalization. *Biosensors-Basel* 2023 OCT;13(10):904.
- (41) Ballester-Bayarri L, Limousin E, Fernandez M, Aguirresarobe R, Ballard N. Scalable synthesis of methacrylate-based vitrimer powders by suspension polymerization. *Polymer Chemistry* 2023 APR 4;14(14):1656-1664.



- (42) Baraka F, Robles E, Labidi J. Microwave-assisted esterification of bleached and unbleached cellulose nanofibers. *Industrial Crops and Products* 2023 JAN;191:115970.
- (43) Barandiaran I, Gomez-Hermoso-de-Mendoza J, Gutierrez J, Tercjak A, Kortaberria G. Nanostructuring Biobased Epoxy Resin with PEO-PPO-PEO Block Copolymer. *Polymers* 2023 MAR;15(5):1216.
- (44) Barbosa JC, Correia DM, Fidalgo-Marijuan A, Goncalves R, Ferdov S, Bermudez VdZ, et al. Influence of Solvent Evaporation Temperature on the Performance of Ternary Solid Polymer Electrolytes Based on Poly(vinylidene fluoride-co-hexafluoropropylene) Combining an Ionic Liquid and a Zeolite. *Acs Applied Energy Materials* 2023;6(10):5239-5248.
- (45) Barbosa JC, Correia DM, Fidalgo-Marijuan A, Goncalves R, Ferdov S, Bermudez VdZ, et al. High Performance Ternary Solid Polymer Electrolytes Based on High Dielectric Poly(vinylidene fluoride) Copolymers for Solid State Lithium-Ion Batteries. *Acs Applied Materials & Interfaces* 2023 JUN 28;15(27):32301-32312.
- (46) Barbosa JC, Pinto RS, Correia DM, Fidalgo-Marijuan A, Silva MM, Goncalves R, et al. Effect of fluorinated polymer matrix type in the performance of solid polymer electrolytes based on ionic liquids for solid-state lithium-ion batteries. *Chem Eng J* 2023;478:147388.
- (47) Barbosa JC, Pinto RS, Correia DM, Tubio CR, Goncalves R, Costa CM, et al. Solid polymer electrolytes based on a high dielectric polymer and ionic liquids for lithium batteries. *J Power Sources* 2023 NOV 30;585:233630.
- (48) Barbosa JC, Correia DM, Nunes P, Fernandes M, Fidalgo-Marijuan A, Goncalves R, et al. Influence of ionic liquid characteristics on the performance of ternary solid polymer electrolytes with poly(vinylidene fluoride-co-hexafluoropropylene) and zeolite. *J Power Sources* 2023;572:233095.
- (49) Barreda-Gomez G, Manuel I, Rodriguez-Puertas R. Neuroanatomical characterization of the G protein-coupled receptor activity evoked by galanin-related ligands. *J Chem Neuroanat* 2023 MAR;128:102226.
- (50) Barros A, Artetxe B, Eletxigerra U, Aranzabe E, Gutierrez-Zorrilla JM. Systematic Approach to the Synthesis of Cobalt-Containing Polyoxometalates for Their Application as Energy Storage Materials. *Materials* 2023 JUL;16(14):5054.
- (51) Barros A, Eletxigerra U, Aranzabe E, Artetxe B, Gutierrez-Zorrilla JM. Towards cobalt-containing polyoxometalate-based electrolytes for redox flow batteries operating under mild conditions. *Electrochim Acta* 2023 MAR 20;445:142058.



- (52) Barroso N, Andreo J, Beobide G, Castillo O, Luque A, Perez-Yanez S, et al. Magnetic sustentation as an adsorption characterization technique for paramagnetic metal-organic frameworks. *Communications Chemistry* 2023 JAN 5;6(1).
- (53) Barroso N, Dutta S, Andreo J, Beobide G, Castillo O, Luque A, et al. Guest-induced breathing mediated selective alcohol recovery from water by MIL-88A(Fe). *Journal of Materials Chemistry a* 2023 OCT 10;11(39):21300-21311.
- (54) Basurko OC, Markalain G, Mateo M, Pena-Rodriguez C, Mondragon G, Larruskain A, et al. End-of-life fishing gear in Spain: Quantity and recyclability. *Environmental Pollution* 2023 JAN 1;316:120545.
- (55) Baztarrika I, Salazar-Sanchez A, Crespo SH, Mirones JIL, Canut A, Alonso R, et al. Virulence genotype and phenotype of two clinical isolates of Arcobacter butzleri obtained from patients with different pathologies. *Arch Microbiol* 2023 NOV;205(12):369.
- (56) Beccari S, Sierra-Torre V, Valero J, Pereira-Iglesias M, Garcia-Zaballa M, Soria FN, et al. Microglial phagocytosis dysfunction in stroke is driven by energy depletion and induction of autophagy. *Autophagy* 2023 JUL 3;19(7):1952-1981.
- (57) Beltran de Heredia I, Garbisu C, Alkorta I, Urra J, Gonzalez-Gaya B, Ruiz-Romera E. Spatio-seasonal patterns of the impact of wastewater treatment plant effluents on antibiotic resistance in river sediments. *Environmental Pollution* 2023 FEB 15;319:120883.
- (58) Benito D, Izagirre U, Lekube X, Zaldibar B, Villalba A, De Montaudouin X, et al. Molecular confirmation of pearl formation in arctic mussels (*Mytilus edulis*) caused by *Gymnophallus bursicola* (Odhner 1900) metacercariae. *Parasitology* 2023 SEP;150(11):1015-1021.
- (59) Bera S, Das S, Melle-Franco M, Mateo-Alonso A. An Organic Molecular Nanobarrel that Hosts and Solubilizes C60. *Angewandte Chemie-International Edition* 2023;62(5).
- (60) Beraza-Millor M, Rodriguez-Castejon J, Miranda J, del Pozo-Rodriguez A, Rodriguez-Gascon A, Solinis MA. Novel Golden Lipid Nanoparticles with Small Interference Ribonucleic Acid for Substrate Reduction Therapy in Fabry Disease. *Pharmaceutics* 2023 JUL;15(7):1936.
- (61) Bermejo-Lopez A, Pereda-Ayo B, Onrubia-Calvo JA, Gonzalez-Marcos JA, Gonzalez-Velasco JR. How the presence of O₂ and NO_x influences the alternate cycles of CO₂ adsorption and hydrogenation to CH₄ on Ru-Na-Ca/Al₂O₃ dual function material. *Journal of Co₂ Utilization* 2023;67:102343.
- (62) Bermejo-Lopez A, Pereda-Ayo B, Onrubia-Calvo JA, Gonzalez-Marcos JA, Gonzalez-Velasco JR. Boosting dual function material Ni-Na/Al₂O₃ in the CO₂



adsorption and hydrogenation to CH₄: Joint presence of Na/Ca and Ru incorporation. Journal of Environmental Chemical Engineering 2023 APR;11(2):109401.

- (63) Bernal-Chico A, Tepavcevic V, Manterola A, Utrilla C, Matute C, Mato S. Endocannabinoid signaling in brain diseases: Emerging relevance of glial cells. *Glia* 2023 JAN;71(1):103-126.
- (64) Bilbao J, Pavloudi C, Blanco-Rayon E, Franco J, Madariaga I, Seoane S. Phytoplankton community composition in relation to environmental variability in the Urdaibai estuary (SE Bay of Biscay): Microscopy and eDNA metabarcoding. *Mar Environ Res* 2023 OCT;191:106175.
- (65) Blanco-Doval A, Barron LJR, Aldai N. Changes during lactation in the mineral element content of mare milk produced in semi-extensive rural farms. *Journal of Food Composition and Analysis* 2023 OCT;123:105629.
- (66) Blanco-Pillado JJ, Jimenez-Aguilar D, Queiruga JM, Urrestilla J. Parametric resonances in axionic cosmic strings. *Journal of Cosmology and Astroparticle Physics* 2023 APR(4):043.
- (67) Blanco-Pillado JJ, Jimenez-Aguilar D, Queiruga JM, Urrestilla J. The dynamics of domain wall strings. *Journal of Cosmology and Astroparticle Physics* 2023 MAY(5):011.
- (68) Boukha Z, Bermejo-Lopez A, De-La-Torre U, Gonzalez-Velasco JR. Behavior of nickel supported on calcium-enriched hydroxyapatite samples for CCU-methanation and ICCU-methanation processes. *Applied Catalysis B-Environmental* 2023 DEC 5;338:122989.
- (69) Bozal-Leorri A, Miguel Arregui L, Torralbo F, Begona Gonzalez-Moro M, Gonzalez-Murua C, Aparicio-Tejo P. Soil moisture modulates biological nitrification inhibitors release in sorghum plants. *Plant Soil* 2023 JUN;487(1-2):197-212.
- (70) Briaudeau T, Guerrero-Limon G, Zorita I, Marigomez I, Izagirre U. Toxicopathic effects of waterborne Cd in sole juveniles, a prospective pollution monitoring sentinel for estuarine ecosystems. *Frontiers in Marine Science* 2023 AUG 4;10:1182294.
- (71) Brito EL, Willocq B, Boschet F, Ballard N. Film formation of high poly(vinyl chloride) content latex particles. *Progress in Organic Coatings* 2023;183:107783.
- (72) Brito-Pereira R, Macedo AS, Ribeiro C, Cardoso VF, Lanceros-Mendez S. Natural Indigenous Paper Substrates for Colorimetric Bioassays in Portable Analytical Systems: Sustainable Solutions from the Rain Forests to the Great Plains. *Acs Applied Materials & Interfaces* 2023 OCT 2;15(40):46747-46755.



- (73) Brito-Pereira R, Ribeiro C, Tubio CR, Castro N, Costa P, Lanceros-Mendez S. Beeswax multifunctional composites with thermal-healing capability and recyclability. *Chem Eng J* 2023 FEB 1;453:139840.
- (74) Bukreev DA, Derevyanko MS, Moiseev AA, Matsyuk IM, Ballesteros A, Svalov AV, et al. Magneto-Impedance Tomography of Composite CuBe/FeCoNi Wires. *Spin* 2023 JUN;13(02).
- (75) Burgoa A, Arriaga A, Badiola JH, Ibarretxe J, Iturronobeitia M, Martinez-Amesti A, et al. On the injection molding of thick-walled thermoplastic vulcanizates: linking static and dynamic mechanical properties with morphology. *Polym Int* 2023 MAY;72(5):508-519.
- (76) Cabodevilla X, Gomez-Moliner BJ, Abad N, Madeira MJ. Simultaneous analysis of the intestinal parasites and diet through eDNA metabarcoding. *Integrative Zoology* 2023 MAY;18(3):399-413.
- (77) Calabrese C, Camiruaga A, Parra-Santamaria M, Evangelisti L, Melandri S, Maris A, et al. A Competition between Relative Stability and Binding Energy in Caffeine Phenyl-Glucose Aggregates: Implications in Biological Mechanisms. *International Journal of Molecular Sciences* 2023 MAR;24(5):4390.
- (78) Camiruaga A, Usabiaga I, Pinillos P, Basterretxea FJ, Fernandez JA, Martinez R. Aggregation of nucleobases and metabolites: Adenine-theobromine trimers. *J Chem Phys* 2023 FEB 14;158(6):064304.
- (79) Campos-Arias L, del Olmo R, Perinka N, Casado N, Luis Vilas-Vilela J, Mecerreyres D, et al. PEDOT:PSS-based screen-printable inks for H₂O₂ electrochemical detection. *Electrochim Acta* 2023 JAN 20;439:141615.
- (80) Canales R, Barrio VL. Photo- and Thermocatalytic CO₂ Methanation: A Comparison of Ni/Al₂O₃ and Ni-Ce Hydrotalcite-Derived Materials under UV and Visible Light. *Materials* 2023 SEP;16(17):5907.
- (81) Canales R, Gil-Calvo M, Barrio VL. UV- and visible-light photocatalysis using Ni-Co bimetallic and monometallic hydrotalcite-like materials for enhanced CO₂ methanation in sabatier reaction. *Heliyon* 2023 AUG;9(8):e18456.
- (82) Carranza T, Guerrero P, de la Caba K, Etxabide A. Texture-modified soy protein foods: 3D printing design and red cabbage effect. *Food Hydrocoll* 2023 DEC;145:109141.
- (83) Carrasco D, Nieto-Pinero E, Alonso-Orts M, Serna R, San Juan JM, No ML, et al. Temperature-Dependent Anisotropic Refractive Index in β -Ga₂O₃: Application in Interferometric Thermometers. *Nanomaterials* 2023 MAR;13(6):1126.



- (84) Carvalhoab EO, Rincon-Iglesias M, Brito-Pereira R, Lizundia E, Fernandes MM, Lanceros-Mendez S. Designing antimicrobial biomembranes via clustering amino-modified cellulose nanocrystals on silk fibroin β -sheets. *Int J Biol Macromol* 2023 JUL 1;242:125049.
- (85) Castro-Hinojosa C, Del Sol-Fernandez S, Moreno-Antolin E, Martin-Gracia B, Ovejero JG, de la Fuente JM, et al. A Simple and Versatile Strategy for Oriented Immobilization of His-Tagged Proteins on Magnetic Nanoparticles. *Bioconjug Chem* 2023;34(12):2275-2292.
- (86) Ch LTL, Jaramillo F, Calderon JA, Tirado JL, Akhmatskaya E, Bonilla MR. The crystal chemistry and reactivity of ternary Na₂Fe₃Cl₈ from the NaCl-FeCl₂ system and its potential application as coating layer for cathode in sodium ion batteries. *J Alloys Compounds* 2023 DEC 15;968:172123.
- (87) Chernyshova P, Guraya T, Martinez-Amesti A, Andonegi H, Singamneni S, Chen ZW. On the Mechanism of Formation of Bimodal Grain Structure in Al-4.5Mg-0.7Sc-0.3Zr Alloy Processed by Laser Powder Bed Fusion. *Advanced Engineering Materials* 2023 JUL;25(13).
- (88) Chillón SA, Fernandez-Gamiz U, Zulueta E, Ugarte-Anero A, Urbina-García O. Numerical modeling of a sneeze, a cough and a continuum speech inside a hospital lift. *Heliyon* 2023 FEB;9(2):e13370.
- (89) Chiosso ME, Crespo I, Merlo AB, Valle B. Metal-Doped HZSM-5 Zeolite Catalysts for Catalytic Cracking of Raw Bio-Oil: Exploring Activity toward Value-Added Products. *Catalysts* 2023 AUG;13(8):1198.
- (90) Cobos M, Pagalday E, Puyadena M, Cabido X, Martin L, Mugica A, et al. Waterborne hybrid polyurethane coatings containing Casein as sustainable green flame retardant through different synthesis approaches. *Progress in Organic Coatings* 2023 JAN;174:107278.
- (91) Coleto I, Marin-Pena AJ, Urbano-Gamez JA, Gonzalez-Hernandez AI, Shi W, Li G, et al. Interaction of ammonium nutrition with essential mineral cations. *J Exp Bot* 2023 OCT 13;74(19):6131-6144.
- (92) Correa MA, Ferreira A, Souza ALR, Dantas Neto JM, Bohn F, Vaz F, et al. Anomalous Nernst Effect in Flexible Co-Based Amorphous Ribbons. *Sensors* 2023 FEB;23(3):1420.
- (93) Corte-Leon P, Skorvanek I, Andrejka F, Zhukova V, Blanco JM, Ipatov M, et al. Temperature influence on magnetic properties and magnetoimpedance effect of Fe-rich glass-coated microwires. *Aip Advances* 2023 FEB 1;13(2):025337.



- (94) Corte-Leon P, Skorvanek I, Andrejka F, Zhukova V, Blanco JM, Ipatov M, et al. Effect of temperature on magnetic properties and magnetoimpedance effect in Fe-rich microwires. *J Alloys Compounds* 2023 JUN 15;946:169419.
- (95) Cortes HA, Bonilla MR, Marinero EE, Carrasco J, Akhmatkaya E. Anion Trapping and Ionic Conductivity Enhancement in PEO-Based Composite Polymer-Li₇La₃Zr₂O₁₂ Electrolytes: The Role of the Garnet Li Molar Content. *Macromolecules* 2023 MAY 22;56(11):4256-4266.
- (96) Costantini I, Aramendia J, Prieto-Taboada N, Arana G, Madariaga JM, Ruiz JF. Study of Micro-Samples from the Open-Air Rock Art Site of Cueva de la Vieja (Alpera, Albacete, Spain) for Assessing the Performance of a Desalination Treatment. *Molecules* 2023 AUG;28(15):5854.
- (97) Crespo I, Palos R, Trueba D, Bilbao J, Arandes JM, Gutierrez A. Intensifying gasoline production in the hydrocracking of pre-hydrotreated light cycle oil by means of Pt and Pd supported on a spent FCC catalyst. *Fuel* 2023 FEB 15;334:126579.
- (98) Criado-Gonzalez M, Alegret N, Fracaroli AM, Mantione D, Guzman-Gonzalez G, Del Olmo R, et al. Mixed Conductive, Injectable, and Fluorescent Supramolecular Eutectogel Composites. *Angewandte Chemie-International Edition* 2023 JUN 26;62(26).
- (99) Criado-Gonzalez M, Bondi L, Marzuoli C, Gutierrez-Fernandez E, Tullii G, Ronchi C, et al. Semiconducting Polymer Nanoporous Thin Films as a Tool to Regulate Intracellular ROS Balance in Endothelial Cells. *Acs Applied Materials & Interfaces* 2023 JUL 19;15(30):35973-35985.
- (100) Dalmau D, Crespo O, Matxain JMM, Urriolabeitia EPP. Fluorescence Amplification of Unsaturated Oxazolones Using Palladium: Photophysical and Computational Studies. *Inorg Chem* 2023.
- (101) Dan A, Sainz-Menchon M, Gabirondo-Lopez J, Echaniz T, Fuente R, Lopez GA, et al. Emissivity measurements of W/TiAlN/TiAlSiN/TiAlSiON/TiAlSiO-based multilayer spectrally selective absorbers at high temperature. *Solar Energy* 2023 MAR 1;252:403-412.
- (102) de Cozar A, Arrieta A, Arrastia I, Cossio FP. Higher-Order Electrocyclizations in Biological and Synthetic Processes. *Chempluschem* 2023.
- (103) de Cozar A, Arrieta A, Cossio FP. Selectivity in Cationic Cyclizations Involving Alkynes: A Computational Study on the Biomimetic Synthesis of Steroids. *Chemistry-a European Journal* 2023 APR 3;29(19).



- (104) de Cozar A, Romero-Nieto C. Boundaries of the Hyperconjugation from it-Extended Six-Membered Phosphorus Heterocycles. *Inorg Chem* 2023;62(10):4097-4105.
- (105) de la Encarnacion C, Jungwirth F, Vila-Liarte D, Renero-Lecuna C, Kavak S, Orue I, et al. Hybrid core-shell nanoparticles for cell-specific magnetic separation and photothermal heating. *Journal of Materials Chemistry B* 2023 JUN 21;11(24):5574-5585.
- (106) de Meatza I, Urdampilleta I, Boyano I, Castrillo I, Landa-Medrano I, Sananes-Israel S, et al. From Lab to Manufacturing Line: Guidelines for the Development and Upscaling of Aqueous Processed NMC622 Electrodes. *J Electrochem Soc* 2023 JAN 1;170(1):010527.
- (107) de Pariza XL, Varela O, Catt SO, Long TE, Blasco E, Sardon H. Recyclable photoresins for light-mediated additive manufacturing towards Loop 3D printing. *Nature Communications* 2023 SEP 7;14(1):5504.
- (108) Del Molino E, Arribas M, Perez I, Valdavida F, Jesus Gonzalez J. Microstructure and Wear Resistance in Medium and High C Steels Treated by Quenching and Partitioning. *Steel Research International* 2023 AUG;94(8).
- (109) del Olmo JA, Alonso JM, Saez-Martinez V, Benito-Cid S, Perez-Gonzalez R, Vilas-Vilela JL, et al. Hyaluronic acid-based hydrogel coatings on Ti6Al4V implantable biomaterial with multifunctional antibacterial activity. *Carbohydr Polym* 2023;301:120366.
- (110) del Olmo JA, Perez-Alvarez L, Martinez VS, Cid SB, Ruiz-Rubio L, Gonzalez RP, et al. Multifunctional antibacterial chitosan-based hydrogel coatings on Ti6Al4V biomaterial for biomedical implant applications. *Int J Biol Macromol* 2023 MAR 15;231:123328.
- (111) Del-Rio L, No ML, Gomez R, Garcia-Sesma L, Urionabarrenetxea E, Ortega P, et al. Additive Manufacturing of Fe-Mn-Si-Based Shape Memory Alloys: State of the Art, Challenges and Opportunities. *Materials* 2023 DEC;16(24):7517.
- (112) Diaz E, Delafuente M, Delafuente S, Ribeiro S, Lanceros-Mendez S. Cytocompatible and biodegradable poly(d,l-lactide-coglycolide)/reduced graphene oxide scaffolds. *Journal of Biomaterials Science-Polymer Edition* 2023;34(15):2091-2106.
- (113) Diaz J, Alvarez-Prado LM, Valvidares SM, Montoya I, Redondo C, Morales R, et al. Spatially Resolving the Magnetic Configuration of Trilayer Submicrometer Disks with Vortex Chiral Asymmetry Using X-Ray Resonant Magnetic Scattering. *Physical Review Applied* 2023 JUL 6;20(1):014008.



- (114) Diaz-Ramirez J, Basasoro S, Gonzalez K, Eceiza A, Retegi A, Gabilondo N. Integral Valorization of Grape Pomace for Antioxidant Pickering Emulsions. *Antioxidants* 2023 MAY 8;12(5):1064.
- (115) Dicaro S, Gonzalez SN, Serra-Varela S, Heredia N. Structure and metamorphism of the Cushamen Complex in San?ic?o and Coll?on Cur?a-Limay rivers confluence: A Devonian metamorphic event related to the subduction stage of the Gondwanan Patagonian orogen. *Journal of South American Earth Sciences* 2023 JAN;121:104152.
- (116) Diez AG, Pereira N, Tubio CR, Vilas-Vilela JL, Costa CM, Lanceros-Mendez S. Magnetic Polymer Actuators with Self-Sensing Resistive Bending Response Based on Ternary Polymer Composites. *Acs Applied Electronic Materials* 2023 MAY 30;5(6):3426-3435.
- (117) Diez-Solinska A, Azkona G, Munoz-Culla M, Beitia-Oyarzabal G, Goni-Balentziaga O, Gomez-Lazaro E, et al. The role of sociability in social instability stress: Behavioral, neuroendocrine and monoaminergic effects. *Physiol Behav* 2023 OCT 15;270:114306.
- (118) Dinislamova OAA, Yaryshev IOO, Bugayova AVV, Shklyar TFF, Safronov APP, Lotfollahi Z, et al. Impact of Magneto-Deformation Effect in Ferrogels on the Echogenicity of Magnetic Composites. *Spin* 2023;13(02).
- (119) Dubey RK, Marongiu M, Fu S, Wen G, Bonn M, Wang HI, et al. Accelerated iterative synthesis of ultralong graphene nanoribbons with full atomic precision. *Chem* 2023;9(10):2983-2996.
- (120) Duque-Redondo E, Yamada K, Masoero E, Prieto JB, Manzano H. Adsorption and migration of Cs and Na ions in geopolymers and zeolites. *Materials Today Communications* 2023 AUG;36:106496.
- (121) Echenique-Errandonea E, Rojas S, Cepeda J, Choquesillo-Lazarte D, Rodriguez-Dieguez A, Seco JM. Slow Magnetic Relaxation and Modulated Photoluminescent Emission of Coordination Polymer Based on 3-Amino-4-hydroxybenzoate Zn and Co Metal Ions. *Molecules* 2023 FEB;28(4):1846.
- (122) Elorza J, Recio C. Contemporary beachrock formation at Arrigunaga beach (Bizkaia, Spain) on anthropogenic slag. *Journal of Iberian Geology* 2023;49(2):189-213.
- (123) Erana H, Diaz-Dominguez CM, Charco JM, Vidal E, Gonzalez-Miranda E, Perez-Castro MA, et al. Understanding the key features of the spontaneous formation of bona fide prions through a novel methodology that enables their swift and consistent generation. *Acta Neuropathologica Communications* 2023 SEP 7;11(1):145.



- (124) Escolano M, Gavina D, Diaz-Oltra S, Sanchez-Rosello M, del Pozo C. Enantioselective Synthesis of Fluorinated Indolizidinone Derivatives. *Org Lett* 2023;25(18):3222-3227.
- (125) Esnaola A, Larranaga A, Gonzalez-Esteban J, Elosegi A, Aihartza J. Using biological traits to assess diet selection: the case of the Pyrenean desman. *J Mammal* 2023 DEC 5;104(6):1205-1215.
- (126) Esporrín-Ubieto D, Sonzogni AS, Fernandez M, Acera A, Matxinandiarena E, Cadavid-Vargas JF, et al. The role of Eudragit® as a component of hydrogel formulations for medical devices. *Journal of Materials Chemistry B* 2023 OCT 6;11(38):9276-9289.
- (127) Esteban JJ, Cuevas J, Tubia JM. Provenance Analysis of the Ojen Nappe and Its Implication for the Geodynamic History (Alpujarride Complex, Betic Cordilleras, Spain). *Minerals* 2023 APR;13(4):569.
- (128) Etxabide A, Arregi M, Cabezudo S, Guerrero P, de la Caba K. Whey Protein Films for Sustainable Food Packaging: Effect of Incorporated Ascorbic Acid and Environmental Assessment. *Polymers* 2023 JAN;15(2):387.
- (129) Etxebarria I, Veneranda M, Costantini I, Prieto-Taboada N, Larranaga A, Marieta C, et al. Testing the volcanic material burying Pompeii as pozzolanic component for compatible conservation mortars. *Case Studies in Construction Materials* 2023;18:e02194.
- (130) Feng L, Sharma A, Wang Z, Muresanu DF, Tian ZR, Vicente Lafuente J, et al. Nanowired delivery of DL-3-n-butylphthalide with antibodies to alpha synuclein potentiated neuroprotection in Parkinson's disease with emotional stress. *Nanowired Delivery of Drugs and Antibodies for Neuroprotection in Brain Diseases with Co-Morbidity Factors* 2023;171:47-82.
- (131) Fernandes LC, Correia DM, Tariq M, Esperanca JMSS, Martins P, Lanceros-Mendez S. Multifunctional Magnetoelectric Sensing and Bending Actuator Response of Polymer-Based Hybrid Materials with Magnetic Ionic Liquids. *Nanomaterials* 2023 AUG;13(15):2186.
- (132) Fernandez-Tena A, Guerrica-Echevarria G, Aranburu N, Wang Z, Cavallo D, Muller AJ. How to Achieve a Highly Toughened 70/30 PLA/PCL Blend by Using Nucleating Agents and Tailoring Processing Conditions. *Acs Applied Polymer Materials* 2023 DEC 11;6(1):583-595.
- (133) Fernandez-Tena A, Otaegi I, Irusta L, Sebastian V, Guerrica-Echevarria G, Mueller AJ, et al. High-Impact PLA in Compatibilized PLA/PCL Blends: Optimization of Blend Composition and Type and Content of Compatibilizer. *Macromolecular Materials and Engineering* 2023 DEC;308(12):2300213.



- (134) Figueroa DG, Lizarraga J, Urio A, Urrestilla J. Strong Backreaction Regime in Axion Inflation. *Phys Rev Lett* 2023 OCT 13;131(15):151003.
- (135) Fortuin BA, Meabe L, Pena SR, Zhang Y, Qiao L, Etxabe J, et al. Molecular-Level Insight into Charge Carrier Transport and Speciation in Solid Polymer Electrolytes by Chemically Tuning Both and Lithium Salt. *Journal of Physical Chemistry C* 2023 FEB 2;127(4):1955-1964.
- (136) Franco M, Motealleh A, Costa CM, Perinka N, Ribeiro C, Tubio CR, et al. Environmentally Friendlier Printable Conductive and Piezoresistive Sensing Materials Compatible with Conformable Electronics. *Acs Applied Polymer Materials* 2023 AUG 3;5(9):7144-7154.
- (137) Galan G, Gallastegui G, Cuesta A, Corretge G, Suarez O, Gonzalez-Menendez L. Contrasting appinites, vaugnerites and related granitoids from the NW Iberian Massif: insight into mantle and crustal sources. *European Journal of Mineralogy* 2023 OCT 18;35(5):845-871.
- (138) Galarreta-Rodriguez I, Etxebeste-Mitxeltorena M, Moreno E, Plano D, Sanmartin C, Megahed S, et al. Preparation of Selenium-Based Drug-Modified Polymeric Ligand-Functionalised Fe₃O₄ Nanoparticles as Multimodal Drug Carrier and Magnetic Hyperthermia Inductor. *Pharmaceuticals* 2023 JUL;16(7):949.
- (139) Gallastegui A, Foglia F, McMillan PF, Casado N, Gueguen A, Mecerreyes D. Poly(diallylmethylammonium) proton conducting membranes with high ionic conductivity at intermediate temperatures. *Polymer* 2023 JUL 11;280:126064.
- (140) Gandarias L, Gubieda AG, Gorni G, Mathon O, Olivi L, Abad-Diaz-de-Cerio A, et al. Intracellular transformation and disposal mechanisms of magnetosomes in macrophages and cancer cells. *Biotechnology Journal* 2023;18(10).
- (141) Gandarias L, Jefremovas EM, Gandia D, Marcano L, Martinez-Martinez V, Ramos-Cabrera P, et al. Incorporation of Tb and Gd improves the diagnostic functionality of magnetotactic bacteria. *Materials Today Bio* 2023;20:100680.
- (142) Gandia D, Marcano L, Gandarias L, Villanueva D, Orue I, Abrudan RM, et al. Tuning the Magnetic Response of Magnetospirillum magneticum by Changing the Culture Medium: A Straightforward Approach to Improve Their Hyperthermia Efficiency. *Acs Applied Materials & Interfaces* 2023 JAN 11;15(1):566-577.
- (143) Garay G, Hurtado J, Pedron M, Garcia L, Reyes E, Sanchez-Diez E, et al. Organocatalytic Enantioselective Vinylcyclopropane-Cyclopentene (VCP-CP) Rearrangement. *Angewandte Chemie-International Edition* 2023:e202302416.



- (144) Garcia-Arnaez I, Romero-Gavilan F, Cerqueira A, Azkargorta M, Elortza F, Suay J, et al. Proteomics as a tool to study the osteoimmunomodulatory role of metallic ions in a sol-gel coating. *Journal of Materials Chemistry B* 2023.
- (145) Garcia-Fernandez MD, Larrea A, Fernandez R, Rodriguez-Puertas R, Astigarraga E, Manuel I, et al. Microarrays, Enzymatic Assays, and MALDI-MS for Determining Specific Alterations to Mitochondrial Electron Transport Chain Activity, ROS Formation, and Lipid Composition in a Monkey Model of Parkinson's Disease. *International Journal of Molecular Sciences* 2023 MAR;24(6):5470.
- (146) Garcia-Fuentevilla L, Dominguez G, Martin-Sampedro R, Hernandez M, Arias ME, Santos JI, et al. Enzyme-Catalyzed Polymerization of Kraft Lignin from Eucalyptus globulus: Comparison of Bacterial and Fungal Laccases Efficacy. *Polymers* 2023 FEB;15(3):513.
- (147) Garcia-Gomez A, Corte-Leon P, Ipatov M, Zhukova V, Gonzalez J, Fert A, et al. Effect of applied stresses on magnetic properties of Co and Fe-rich glass-coated microwires. *Aip Advances* 2023 MAR 1;13(3):035103.
- (148) Garcia-Gomez A, Blanco JM, Corte-Leon P, Ipatov M, Gonzalez A, Gonzalez J, et al. Anomalous Magnetic Anisotropy Behaviour in Co-Rich and Fe-Rich Glass-Coated Microwires under Applied Stress. *Sensors* 2023 OCT;23(19):8068.
- (149) Garcia-Orue I, Santos-Vizcaino E, Uranga J, de la Caba K, Guerrero P, Igartua M, et al. Agar/gelatin hydro-film containing EGF and Aloe vera for effective wound healing. *Journal of Materials Chemistry B* 2023 JUL 26;11(29):6896-6910.
- (150) Gardoki J, Cearreta A, Irabien MJ, Gomez-Arozamena J, Villasante-Marcos V, Garcia-Artola A, et al. Modern conditions and recent environmental evolution of the industrialized inner Ria of Ferrol (Galicia, NW Spain). *Cont Shelf Res* 2023 SEP 15;267:105098.
- (151) Gil-Barbarin A, Gutierrez-Ortiz JI, Lopez-Fonseca R, de Rivas B. Co₃O₄ hollow nanotubes for the catalytic oxidation of C₂-chlorinated VOCs. *Journal of Environmental Chemical Engineering* 2023 JUN;11(3):109841.
- (152) Giron-Elola C, Sasiain I, Sanchez-Fernandez R, Pazos E, Correa A. Site-Selective C-H Amination of Phenol-Containing Biomolecules. *Org Lett* 2023 JUN 7;25(23):4383-4387.
- (153) Golov A, Carrasco J. Unveiling Solid Electrolyte Interphase Formation at the Molecular Level: Computational Insights into Bare Li-Metal Anode and Li₆PS_{5-x} Sex Cl Argyrodite Solid Electrolyte. *Acs Energy Letters* 2023 SEP 13;8(10):4129-4135.



- (154) Gomes SS, Valerio P, de Freitas VT, Fabiao C, Soares AM, Araujo MF. An insight from the sea: provenance studies on Roman lead artefacts from the Arade River, Portimão (Portugal). *Archaeological and Anthropological Sciences* 2023 NOV;15(11):171.
- (155) Gomez-Blanco N, Prato M. Microwave-assisted one-step synthesis of water-soluble manganese-carbon nanodot clusters. *Communications Chemistry* 2023 AUG 23;6(1):174.
- (156) Gomez-Cortes JF, Czaja P, No ML, Szczerba MJ, Juan JMS. Extremely stable stress-induced martensitic transformation at the nanoscale during superelastic cycling of Ni₅₁Mn₂₈Ga₂₁ shape memory alloy. *Materials Science and Engineering A-Structural Materials Properties Microstructure and Processing* 2023 AUG 10;881:145339.
- (157) Gomez-Cortes JF, No ML, Chuvalin A, Ruiz-Larrea I, San Juan JM. Thermal Stability of Cu-Al-Ni Shape Memory Alloy Thin Films Obtained by Nanometer Multilayer Deposition. *Nanomaterials* 2023 SEP;13(18):2605.
- (158) Gomez-Hermoso-de-Mendoza J, Gutierrez J, Tercjak A. Highly hydrophobic cellulose acetate mats modified with poly(ethylene oxide-b-propylene oxide-b-ethylene oxide) triblock copolymer and TiO₂ nanoparticles by electrospinning. *Cellulose* 2023;30(15):9501-9515.
- (159) Gonzalez A, Garcia-Gomez A, Zhukova V, Corte-Leon P, Ipatov M, Blanco JM, et al. Optimization of Magnetoimpedance Effect and Magnetic Properties of Fe-Rich Glass-Coated Microwires by Annealing. *Sensors* 2023 SEP;23(17):7481.
- (160) Gonzalez E, Barquero A, Paulis M, Leiza JR. Fabrication of Multifunctional Composite Nanofibers by Green Electrospinning. *Macromolecular Materials and Engineering* 2023;308(8).
- (161) Gonzalez K, Larraza I, Martin L, Eceiza A, Gabilondo N. Effective reinforcement of plasticized starch by the incorporation of graphene, graphene oxide and reduced graphene oxide. *Int J Biol Macromol* 2023;249:126130.
- (162) Gonzalez-Izquierdo P, de Pedro I, Canadillas-Delgado L, Beobide G, Vallcorba O, Sanchez-Andujar M, et al. Tailoring the physical properties of hybrid magnetic quinuclidine-based plastic compounds via weak interactions. *Crystengcomm* 2023 JAN 23;25(4):579-592.
- (163) Gonzalez-Magana A, Tascon I, Altuna-Alvarez J, Queralt-Martin M, Colautti J, Velazquez C, et al. Structural and functional insights into the delivery of a bacterial Rhs pore-forming toxin to the membrane. *Nature Communications* 2023 NOV 28;14(1):7808.



- (164) Gunatilake UB, Caballe-Abalos A, Garcia-Rey S, Mercader-Ruiz J, Basabe-Desmonts L, Benito-Lopez F. Lab-in-a-Bead: Magnetic Janus Bead Probe for the Detection of Biomarkers in Blood. *Advanced Materials Interfaces* 2023.
- (165) Gundogdu K, Ituriza AO, Orruno M, Montanchez I, Eguiraun H, Martinez I, et al. Addressing the Joint Impact of Temperature and pH on Vibrio harveyi Adaptation in the Time of Climate Change. *Microorganisms* 2023 APR;11(4):1075.
- (166) Hafez T, Ortiz-Zarragoitia M, Cagnon C, Cravo-Laureau C, Duran R. Cold sediment microbial community shifts in response to crude oil water-accommodated fraction with or without dispersant: a microcosm study. *Environmental Science and Pollution Research* 2023;30(15):44640-44656.
- (167) Haris MPU, Xia J, Kazim S, Molenda Z, Hirsch L, Buffeteau T, et al. Probing proton diffusion as a guide to environmental stability in powder-engineered FAPbI₃ and CsFAPbI₃ perovskites. *Cell Reports Physical Science* 2023 MAR 15;4(3):101304.
- (168) Hemasiri NH, Ashraf M, Kazim S, Graf R, Ullah N, Tahir MN, et al. Interface tweaking of perovskite solar cells with carbon nitride-based 2D materials. *Nano Energy* 2023 MAY;109:108326.
- (169) Heredia N, Pedreira D, Giacosa R, Serra-Varela S, Folx N, Allard J, et al. The poly-orogenic Paleozoic rocks of Cuesta del Rahue area (Precordillera Neuquina, Argentina) and their significance in marking the southern end of the Chanic orogenic belt. *Journal of South American Earth Sciences* 2023 APR;124:104255.
- (170) Hernandez-Ramos F, Alriols MG, Antxustegi MM, Labidi J, Erdocia X. Valorisation of crude glycerol in the production of liquefied lignin bio-polyols for polyurethane formulations. *Int J Biol Macromol* 2023 AUG 30;247:125855.
- (171) Hernandez-Ramos F, Novi V, Gonzalez Alriols M, Labidi J, Erdocia X. Optimisation of lignin liquefaction with polyethylene glycol/glycerol through response surface methodology modelling. *Industrial Crops and Products* 2023 AUG;198:116729.
- (172) Herrero A, Aseguinolaza IR, Oleaga A, Garcia-Adeva AJ, Apinaniz E, Garshev AV, et al. Selecting optimal R₆TX₂ intermetallics (R = Gd, Tb, Dy; T = Mn, Fe, Co, Ni; X = Sb, Te) for magnetic refrigeration. *Dalton Transactions* 2023 MAY 2;52(17):5780-5797.
- (173) Herrero MT, de Sarralde JD, Conde N, Herran A, Urquiza G, SanMartin R. Metal-Catalyzed Cascade Reactions between Alkyneoic Acids and Dinucleophiles: A Review. *Catalysts* 2023 MAR;13(3):495.
- (174) Hidalgo J, Epelde L, Anza M, Becerril JM, Garbisu C. Mycoremediation with *Agaricus bisporus* and *Pleurotus ostreatus* growth substrates versus phytoremediation



with *Festuca rubra* and *Brassica* sp. for the recovery of a Pb and ?-HCH contaminated soil. Chemosphere 2023 JUN;327:138538.

(175) Ibarra D, Garcia-Fuentevilla L, Dominguez G, Martin-Sampedro R, Hernandez M, Arias ME, et al. NMR Study on Laccase Polymerization of Kraft Lignin Using Different Enzymes Source. International Journal of Molecular Sciences 2023 FEB;24(3):2359.

(176) Iriarte-Velasco U, Sierra I, Gutierrez-Ortiz MA, Ayastuy JL. Bioapatite derived from animal bones as support for environmentally concerned catalysts: WGS with suppressed methanation activity. Journal of Environmental Chemical Engineering 2023 OCT;11(5):110677.

(177) Irizar P, Gomez-Laserna O, Arana G, Madariaga JM, Martinez-Arkarazo I. Ionic liquids (ILs)-loaded hydrogels as a potential cleaning method of metallic stains for stone conservation. Journal of Cultural Heritage 2023;64:12-22.

(178) Irizar P, Pintor-Rial A, Martinez-Arkarazo I, Olazabal MA, Ruiz-Rubio L, Cardiano P, et al. Bio-based hybrid nanocomposites as multifunctional sustainable materials for stone conservation. Progress in Organic Coatings 2023 DEC;185:107899.

(179) Izaguirre N, Fernandez-Rodriguez J, Robles E, Labidi J. Sonochemical oxidation of technical lignin to obtain nanoparticles with enhanced functionality. Green Chem 2023 OCT 30;25(21):8808-8819.

(180) Jauregi L, Gonzalez A, Garbisu C, Epelde L. Organic amendment treatments for antimicrobial resistance and mobile element genes risk reduction in soil-crop systems. Scientific Reports 2023 JAN 17;13(1).

(181) Keller JG, Petersen KV, Mizielski K, Thiesen C, Bjergbaek L, Reguera RM, et al. Gel-Free Tools for Quick and Simple Screening of Anti-Topoisomerase 1 Compounds. Pharmaceuticals 2023 APR 27;16(5):657.

(182) Kroff M, Hevia SAA, O'Shea JNN, de Muro IG, Palomares V, Rojo T, et al. Lithium Iron Phosphate/Carbon (LFP/C) Composite Using Nanocellulose as a Reducing Agent and Carbon Source. Polymers 2023 JUN;15(12):2628.

(183) Kumar CS, Urbikain G, de Lacalle LNL, Gangopadhyay S, Fernandes F. Investigating the effect of novel self-lubricant TiSiVN films on topography, diffusion and oxidation phenomenon at the chip-tool interface during dry machining of Ti-6Al-4V alloy. Tribol Int 2023 AUG;186:108604.

(184) Kumar CS, Urbikain G, Lucio PFD, Lacalle LNLD, Perez-Salinas C, Gangopadhyay S, et al. Investigating the self-lubricating properties of novel TiSiVN coating during dry turning of Ti6Al4V alloy. Wear 2023;532:205095.



- (185) Kumarasinghe L, Garcia-Gimeno MA, Ramirez J, Mayor U, Zugaza JL, Sanz P. P-Rex1 is a novel substrate of the E3 ubiquitin ligase Malin associated with Lafora disease. *Neurobiol Dis* 2023 FEB;177:105998.
- (186) Lamas I, Gonzalez J, Longarte A, Montero R. Influence of H-bonds on the photoionization of aromatic chromophores in water: The aniline molecule. *J Chem Phys* 2023 MAY 21;158(19):191102.
- (187) Landa L, Remiro A, Valecillos J, Bilbao J, Gayubo AG. Syngas production through combined steam-dry reforming of raw bio-oil over a NiAl₂O₄ spinel derived catalyst. *Journal of Co₂ Utilization* 2023 DEC;78:102637.
- (188) Landa L, Remiro A, Valecillos J, Valle B, Sun S, Wu C, et al. Sorption enhanced steam reforming (SESR) of raw bio-oil with Ni based catalysts: Effect of sorbent type, catalyst support and sorbent/catalyst mass ratio. *Fuel Process Technol* 2023 AUG;247:107799.
- (189) Landa L, Remiro A, Valle B, Bilbao J, Gayubo AG. Comparison of the NiAl₂O₄ derived catalyst deactivation in the steam reforming and sorption enhanced steam reforming of raw bio-oil in packed and fluidized-bed reactors. *Chem Eng J* 2023;458:141494.
- (190) Larranaga A, Bello-Alvarez C, Lizundia E. Cytotoxicity and Inflammatory Effects of Chitin Nanofibrils Isolated from Fungi. *Biomacromolecules* 2023 NOV 21;24(12):5737-5748.
- (191) Larranaga X, Sarasua JR, Zuza E. Role of Inorganic Fillers on the Physical Aging and Toughness Loss of PLLA/BaSO₄ Composites. *Acs Applied Polymer Materials* 2023 NOV 1;5(11):9620-9631.
- (192) Larraza I, Santamaria-Echart A, Fernandes I, Barreiro F, Arbelaitz A, Eceiza A. Bioinks Functionalized with Natural Extracts for 3D Printing. *Journal of Polymers and the Environment* 2023.
- (193) Lebedeva IVV, Garcia A, Artacho E, Ordejon P. Modular implementation of the linear- and cubic-scaling orbital minimization methods in electronic structure codes using atomic orbitals. *Royal Society Open Science* 2023 APR 26;10(4):230063.
- (194) Lemine OM, El-Boubou K, Orue I, Garcia JA, Elansary M, Ali R, et al. Heating efficiency of Gd- and Co-doped γ -Fe₂O₃ nanoparticles measured by AC magnetometer for magnetic-mediated hyperthermia. *J Magn Magn Mater* 2023 DEC 1;587:171279.
- (195) Lew-Yee JFH, del Campo JM, Piris M. Electron Correlation in the Iron(II) Porphyrin by Natural Orbital Functional Approximations. *Journal of Chemical Theory and Computation* 2023 JAN 10;19(1):211-220.



- (196) Lew-Yee JFH, Piris M, del Campo JM. Outstanding improvement in removing the delocalization error by global natural orbital functional. *J Chem Phys* 2023 FEB 28;158(8):084110.
- (197) Lopes Brito E, Ballard N. Film formation of hard-core/soft-shell latex particles. *Journal of Polymer Science* 2023;61(5):410-421.
- (198) Lopez-Frances A, del Corte X, Serna-Burgos Z, de los Santos JM, de Cozar A, Vicario J. Chiral self-recognition in a bispericyclic cyclodimerisation reaction of 1-azadienes. *Organic Chemistry Frontiers* 2023 DEC 5;10(24):6103-6111.
- (199) Lopez-Mendez R, Reguera J, Fromain A, Abu Serea ES, Cespedes E, Teran FJ, et al. X-Ray Nanothermometry of Nanoparticles in Tumor-Mimicking Tissues under Phototherapy. *Advanced Healthcare Materials* 2023 DEC;12(31).
- (200) Lopez-Zorrilla J, Aretxabaleta XM, Yeu IW, Etxebarria I, Manzano H, Artrith N. aenet-PyTorch: A GPU-supported implementation for machine learning atomic potentials training. *J Chem Phys* 2023 APR 28;158(16):164105.
- (201) Lorea B, Garcia-Urricelqui A, Odriozola JM, Razkin J, Espinal-Viguri M, Oiarbide M, et al. Organocatalytic Michael Addition of Unactivated α -Branched Nitroalkanes to Afford Optically Active Tertiary Nitrocompounds. *Org Lett* 2023 NOV 27;25(48):8590-8595.
- (202) Lutzu S, Alvina K, Puente N, Grandes P, Castillo PEE. Target cell-specific plasticity rules of NMDA receptor-mediated synaptic transmission in the hippocampus. *Frontiers in Cellular Neuroscience* 2023 APR 5;17:1068472.
- (203) Luzi F, Dehesa AA, Laudadio E, Puglia D, Lizundia E, Stipa P, et al. Effect of Wet and Dry Environments in CNC/MWCNTs/Ag₂O Electrically Conductive Films: Material Characterization and Molecular Dynamics Simulation. *Journal of Physical Chemistry C* 2023 OCT 17;127(42):20749-20761.
- (204) Luzuriaga J, García-Urkia N, Salvador-Moya J, Pardo-Rodríguez B, Etxebarria I, Fernandez-San-Argimiro F-, et al. CHANGES IN OSTEOGENESIS BY HUMAN DENTAL PULP STEM CELLS ON PORCINE DECELLULARISED ADIPOSE TISSUE SOLID FOAMS OF DIFFERENT POROSITY. *European Cells and Materials* 2023;46:119-137.
- (205) Macedo VM, Pereira N, Tubio CR, Martins P, Costa CM, Lanceros-Mendez S. 3D-Printed Carrageenan-Based Nanocomposites for Force-Sensing Applications. *Advanced Engineering Materials* 2023 JUN;25(11).



- (206) Maestu JF, Diez AG, Tubio CR, Gomez A, Berasategui J, Costa P, et al. Ternary Multifunctional Composites with Magnetorheological Actuation and Piezoresponse Sensing Response. *Acs Applied Electronic Materials* 2023 JUL 12;5(8):4296-4307.
- (207) Majarena U, Esteban JJ, Gale C, Gil-Imaz A, Lago M. Cisuralian calc-alkaline magmatism in the Herrera Unit of the Iberian Chain (Cantabrian Zone of the Iberian Massif, Spain): age and geodynamic constraints from U-Pb laser ablation inductively coupled plasma mass spectrometry zircon analysis. *Journal of the Geological Society* 2023 NOV 3;180(6):jgs2022106.
- (208) Majarena U, Gale C, Julian Esteban J, Lago M, Gil-Imaz A. The magmatism of Atienza (NW Iberian Chain, Spain): age, origin and architecture of the magmatic plumbing system. *Journal of Iberian Geology* 2023 MAR;49(1):47-69.
- (209) Marieta C, Martin-Garin A, Leon I, Guerrero A. Municipal Solid Waste Incineration Fly Ash: From Waste to Cement Manufacturing Resource. *Materials* 2023 MAR;16(6):2538.
- (210) Marques-Almeida T, Ribeiro C, Irastorza I, Miranda-Azpiazu P, Torres-Aleman I, Silvan U, et al. Electroactive Materials Surface Charge Impacts Neuron Viability and Maturation in 2D Cultures. *Acs Applied Materials & Interfaces* 2023 JUN 22;15(26):31206-31213.
- (211) Martinez L, Merino M, Montoya JM. An integer programming model for obtaining cyclic quasi-difference matrices. *Operations Research Perspectives* 2023;10:100260.
- (212) Martinez-Gardeazabal J, Moreno-Rodriguez M, de San Roman EG, Abad B, Manuel I, Rodriguez-Puertas R. Mass Spectrometry for the Advancement of Lipid Analysis in Alzheimer's Research. *Methods Mol Biol* 2023;2561:245-259.
- (213) Martinez-Sabando J, Coin F, Raposo JC, Larranaga A, Melillo JH, Cerveny S. Dual crosslinking of low-methoxyl pectin by calcium and europium for the simultaneous removal of pharmaceuticals and divalent heavy metals. *Chem Eng J* 2023 NOV 1;475:146162.
- (214) Martin-Llorente A, Serrano M, Rio IB, Lekunberri L, Ocerin G, Puente N, et al. Omega-3 Recovers Cannabinoid 1 Receptor Expression in the Adult Mouse Brain after Adolescent Binge Drinking. *International Journal of Molecular Sciences* 2023 DEC;24(24):17316.
- (215) Martin-Martin JA, Gonzalez-Marcos MP, Aranzabal A, Gonzalez-Velasco JR. Effect of interaction degree between Mn and Ce of MnOX-CeO₂ formulation on NO reduction and o-DCB oxidation performed simultaneously. *Journal of Environmental Chemical Engineering* 2023;11(4):110200.



- (216) Martins LA, Biosca LT, Gomez-Tejedor JA, Serra JP, Correia DM, Costa CM, et al. Influence of the Inclusion of Propylene Carbonate Electrolyte Solvent on the Microstructure and Thermal and Mechanical Stability of Poly(l-lactic acid) and Poly(vinylidene fluoride-co-hexafluoropropylene) Battery Separator Membranes. *Journal of Physical Chemistry C* 2023 MAY 31;127(22):10480-10487.
- (217) Martin-Saiz L, Abad-Garcia B, Solano-Iturri JD, Mosteiro L, Martin-Allende J, Rueda Y, et al. Using the Synergy between HPLC-MS and MALDI-MS Imaging to Explore the Lipidomics of Clear Cell Renal Cell Carcinoma. *Anal Chem* 2023 JAN 31;95(4):2285-2293.
- (218) Masdeu C, de los Santos JM, Palacios F, Alonso C. The Intramolecular Povarov Tool in the Construction of Fused Nitrogen-Containing Heterocycles. *Top Curr Chem* 2023 JUN;381(4):20.
- (219) Mashal M, Attia N, Grijalvo S, Eritja R, Puras G, Pedraz JL. Stability of polymeric cationic niosomes and their plasmid DNA-based complexes as gene delivery carriers. *Drug Deliv* 2023 DEC 31;30(1):2219420.
- (220) Matanin AR, Gerasimov KI, Moiseev ES, Smirnov NS, Ivanov AI, Malevannaya EI, et al. Toward Highly Efficient Multimode Superconducting Quantum Memory. *Physical Review Applied* 2023 MAR 3;19(3):034011.
- (221) Mateos-Martin J, Dhbaibi K, Melle-Franco M, Mateo-Alonso A. Modulating Strain in Twisted Pyrene-Fused Azaacenes. *Chemistry-a European Journal* 2023.
- (222) Matxain JM, Huertos MA. Hydrogen Tunneling in Stoichiometric and Catalytic Reactions involving Transition Metals. *Chemcatchem* 2023;15(24).
- (223) Mazo N, Navo CD, Peccati F, Andreo J, Airoldi C, Goldsztejn G, et al. Conformationally Restricted β -Sheet Breaker Peptides Incorporating Cyclic α -Methylisoserine Sulfamides. *Chemistry-a European Journal* 2023 February.
- (224) Medina C, Laegdsmand Ao, Ltaief LB, Hoque Z, Roos AH, Jurkovicova L, et al. Long-lasting XUV activation of helium nanodroplets for avalanche ionization. *New Journal of Physics* 2023 MAY 1;25(5):053030.
- (225) Memisoglu G, Murugesan RC, Zubia J, Rozhin AG. Graphene Nanocomposite Membranes: Fabrication and Water Treatment Applications. *Membranes* 2023 FEB;13(2):145.
- (226) Mena-Gutierrez S, Pascual-Colino J, Beobide G, Castillo O, Castellanos-Rubio A, Luque A, et al. Isoreticular Chemistry and Applications of Supramolecularly Assembled Copper-Adenine Porous Materials. *Inorg Chem* 2023 NOV 1;62(45):18496-18509.



- (227) Mendes-Felipe C, Carvalho R, Martins P, Ivankov OI, Bobrikov I, Petrenko V, et al. Photocurable Hybrid Materials with High Magnetodielectric Coupling. *Acs Applied Polymer Materials* 2023 AUG 14;5(9):7631-7641.
- (228) Mendes-Felipe C, Isusi I, Gomez-Jimenez-Aberasturi O, Prieto-Fernandez S, Ruiz-Rubio L, Sangermano M, et al. One-Step Method for Direct Acrylation of Vegetable Oils: A Biobased Material for 3D Printing. *Polymers* 2023 JUL;15(14):3136.
- (229) Mendez-Mateos D, Barrio VL, Requies JM, Gil-Calvo M. Graphene-based versus alumina supports on CO₂ methanation using lanthanum-promoted nickel catalysts. *Environmental Science and Pollution Research* 2023.
- (230) Mendiburu-Valor E, Calvo-Correas T, Martin L, Harismendy I, Pena-Rodriguez C, Eceiza A. Synthesis and characterization of sustainable polyurethanes from renewable and recycled feedstocks. *J Clean Prod* 2023 MAY 10;400:136749.
- (231) Mendiburu-Valor E, Larraza I, Echeverria-Altuna O, Harismendy I, Pena-Rodriguez C, Eceiza A. Thermoset polyurethanes from biobased and recycled components. *Journal of Polymers and the Environment* 2023 NOV;31(11):4946-4959.
- (232) Merazzo KJ, Diez AG, Tubio CR, Manchado JC, Malet R, Perez M, et al. Acrylonitrile Butadiene Styrene-Based Composites with Permalloy with Tailored Magnetic Response. *Polymers* 2023 FEB;15(3):626.
- (233) Mercader Ruiz J, Beitia M, Delgado D, Sanchez P, Guadilla J, Perez de Arrilucea C, et al. Method Based on Ultrafiltration to Obtain a Plasma Rich in Platelet and Plasma Growth Factors. *Journal of Clinical Medicine* 2023 SEP;12(18):5941.
- (234) Mercero JM, Grande-Aztatzi R, Ugalde JM, Piris M. Natural orbital functional theory studies of all-metal aromaticity: The Al₃- anion. *Advances in Quantum Chemistry*, Vol.88 2023;88:229-248.
- (235) Miranda-Apodaca J, Artetxe U, Aguado I, Martin-Souto L, Ramirez-Garcia A, Lacuesta M, et al. Stress Response to Climate Change and Postharvest Handling in Two Differently Pigmented Lettuce Genotypes: Impact on *Alternaria alternata* Invasion and Mycotoxin Production. *Plants-Basel* 2023 MAR;12(6):1304.
- (236) Mirandona-Olaeta A, Goikolea E, Lanceros-Mendez S, Fidalgo-Marijuan A, de Larramendi IR. Ionic Liquid-Laden Zn-MOF-74-Based Solid-State Electrolyte for Sodium Batteries. *Batteries-Basel* 2023 DEC;9(12):588.
- (237) Molla LD, Aranburu A, Villalain JJ, Garcia-Garmilla F, Uriarte JA, Zabaleta A, et al. Why Did Red Ereno Limestone Go Red? Linking Scientific Knowledge and Geoheritage Story-Telling (Basque Country, Spain). *Geoheritage* 2023 SEP;15(3):89.



- (238) Monroy S, Larranaga A, Martinez A, Perez J, Molinero J, Basaguren A, et al. Temperature Sensitivity of Microbial Litter Decomposition in Freshwaters: Role of Leaf Litter Quality and Environmental Characteristics. *Microb Ecol* 2023 APR;85(3):839-852.
- (239) Monteserin C, Blanco M, Uranga N, Sanchez J, Laza JM, Vilas JL, et al. Sustainable biobased epoxy thermosets with covalent dynamic imine bonds for green composite development. *Polymer* 2023 OCT 20;285:126339.
- (240) Montilla A, Zabala A, Er-Lukowiak M, Rissiek B, Magnus T, Rodriguez-Iglesias N, et al. Microglia and meningeal macrophages depletion delays the onset of experimental autoimmune encephalomyelitis. *Cell Death & Disease* 2023 JAN 12;14(1):16.
- (241) Moreno AG, Woolley JM, Dominguez E, de Cozar A, Heredia A, Stavros VG. Synergic photoprotection of phenolic compounds present in tomato fruit cuticle: a spectroscopic investigation in solution. *Physical Chemistry Chemical Physics* 2023 MAY 10;25(18):12791-12799.
- (242) Munana-Gonzalez S, Veloso-Fernandez A, Ruiz-Rubio L, Perez-Alvarez L, Vilas-Vilela JL. Covalent Cross-Linking as a Strategy to Prepare Water-Dispersible Chitosan Nanogels. *Polymers* 2023 JAN;15(2):434.
- (243) Murali S, Agirre A, Irusta L, Gonzalez A, Tomovska R. Chemical structure of zwitterionic monomers as a tool to produce colloidally stable (meth)acrylic polymer colloids. *Polymer* 2023;287:126421.
- (244) Naim C, Besalu-Sala P, Zalesny R, Luis JM, Castet F, Matito E. Are Accelerated and Enhanced Wave Function Methods Accurate to Compute Static Linear and Nonlinear Optical Properties? *Journal of Chemical Theory and Computation* 2023;19(6):1753-1764.
- (245) Naim C, Vangheluwe R, Ledoux-Rak I, Champagne B, Tonnele C, Blanchard-Desce M, et al. Electric-field induced second harmonic generation responses of push-pull polyenic dyes: experimental and theoretical characterizations. *Physical Chemistry Chemical Physics* 2023;25(20):13978-13988.
- (246) Naksomboon K, Gomez-Bengo E, Mehara J, Roithova J, Otten E, Fernandez-Ibanez MA. Mechanistic studies of the palladium-catalyzed S,O-ligand promoted C-H olefination of aromatic compounds. *Chemical Science* 2023 MAR 15;14(11):2943-2953.
- (247) Nam-Cha SH, Dominguez-Jurado E, Tinoco-Valencia SL, Perez-Tanoira R, Morata-Moreno N, Alfaro-Ruiza R, et al. Synthesis, characterization, and antibacterial activities of a heteroscorpionate derivative platinum complex against methicillin-resistant *Staphylococcus aureus*. *Frontiers in Cellular and Infection Microbiology* 2023 MAR 27;13:1100947.

- (248) Nieto N, Porte J, Saurel D, Djuandhi L, Sharma N, Lopez-Urionabarrenechea A, et al. Use of Hydrothermal Carbonization to Improve the Performance of Biowaste-Derived Hard Carbons in Sodium Ion-Batteries. *Chemsuschem* 2023 DEC 7;16(23).

(249) Nieto-Ortega S, Garcia SM, Melado-Herreros A, Foti G, Olabarrieta I, Roger J. Multivariate Curve Resolution Applied to Near Infrared Spectroscopic Data Acquired Throughout the Cooking Process to Monitor Evolving Bechamel Sauces. *Food and Bioprocess Technology* 2023 APR;16(4):881-896.

(250) No ML, Klein T, Clemens H, Juan JMS. High-temperature microstructure evolution of an advanced intermetallic nano-lamellar γ -TiAl-based alloy and associated diffusion processes. *Acta Materialia* 2023;261:119380.

(251) Nzioka A, Valencia A, Atxaerandio-Landa A, Diaz de Cerio O, Amzad Hossain M, Korta M, et al. Apoptosis and autophagy-related gene transcription during ovarian follicular atresia in European hake (*Merluccius merluccius*). *Mar Environ Res* 2023 JAN;183:105846.

(252) Odena C, Gomez-Bengoa E, Martin R. Ring Walking Mediated by Ni-Ni Species as a Vehicle for Enabling Distal C(sp₂)-H Functionalization of Aryl Pivalates. *J Am Chem Soc* 2023 DEC 28;146(1):112-117.

(253) Olazabal I, Gonzalez A, Vallejos S, Rivilla I, Jehanno C, Sardon H. Upgrading Polyurethanes into Functional Ureas through the Asymmetric Chemical Deconstruction of Carbamates. *Acs Sustainable Chemistry & Engineering* 2023 JAN 9;11(1):332-342.

(254) Oleaga A, Erkoreka A, Herrero A, Provino A, Peddis D, Manfrinetti P. Effect of Nd doping on the crystallographic, magnetic, and magnetocaloric properties of Nd_xGd_{3-x}CoNi. *Apl Materials* 2023 JUN 1;11(6):061112.

(255) Olmos-Juste R, Larranaga-Jaurrieta G, Larraza I, Ramos-Diez S, Camarero-Espinosa S, Gabilondo N, et al. Alginate-waterborne polyurethane 3D bioprinted scaffolds for articular cartilage tissue engineering. *Int J Biol Macromol* 2023 DEC 31;253:127070.

(256) Orduna L, Otaegi I, Aranburu N, Guerrica-Echevarria G. Ionic Liquids as Alternative Curing Agents for Conductive Epoxy/CNT Nanocomposites with Improved Adhesive Properties. *Nanomaterials* 2023 FEB;13(4):725.

(257) Orrego AH, Rubanu MG, Lopez IL, Andres-Sanz D, Garcia-Marquina G, Pieslinger GE, et al. ATP-Independent and Cell-Free Biosynthesis of β -Hydroxy Acids Using Vinyl Esters as Smart Substrates. *Angewandte Chemie-International Edition* 2023 MAR 20:62(13).

- (258) Ostolaza M, Arrizubieta JI, Lamikiz A, Ukar E. Study of the flexural behaviour and bonding strength of WC-Co metal matrix composite coatings produced by Laser Directed Energy Deposition. *Surf Coat Technol* 2023 JUN 25;463:129538.

(259) Ozkizilcik A, Sharma A, Feng L, Muresanu DF, Tian ZR, Vicente Lafuente J, et al. Nanowired delivery of antibodies to tau and neuronal nitric oxide synthase together with cerebrolysin attenuates traumatic brain injury induced exacerbation of brain pathology in Parkinson's disease. *Nanowired Delivery of Drugs and Antibodies for Neuroprotection in Brain Diseases with Co-Morbidity Factors* 2023;171:83-121.

(260) Pacheco SCF, Moran MJ, Santos JI, Salassa L, Lopez-Gallego F. Chemoenzymatic Oxidation of Diols Catalyzed by Co-Immobilized Flavins and Dehydrogenases. *Chemcatchem* 2023 JUL 21;15(14).

(261) Paesa M, Almazan F, Yus C, Sebastian V, Arruebo M, Gandia LM, et al. Gold Nanoparticles Capped with a Novel Titanium(IV)-Containing Polyoxomolybdate Cluster: Selective and Enhanced Bactericidal Effect Against Escherichia coli. *Small* 2023.

(262) Pajuelo-Corral O, Garcia JA, Castillo O, Luque A, Mendicute-Fierro C, Rodriguez-Dieguez A, et al. A Lamellar Zn-Based Coordination Polymer Showing Increasing Photoluminescence upon Dehydration. *Molecules* 2023 AUG;28(15):5643.

(263) Palacios JK, Michell RM, Mueller AJ. Crystallization, morphology and self-assembly of double, triple and tetra crystalline block polymers. *Polym Test* 2023 APR;121:107995.

(264) Palma-Lemus K, Hamzehlou S, Froidevaux V, Boustingorry P, Leiza JR. Acidic Aqueous-Phase Copolymerization of AA and HPEG Macromonomer: Influence of Monomer Concentration on Reactivity Ratios. *Ind Eng Chem Res* 2023;62(44):18427-18437.

(265) Pardina D, Santamaria A, Alonso ML, Bartolome L, Alonso RM, Mana JA, et al. HS-SPME-GC/MS Method for the Simultaneous Determination of Trihalomethanes, Geosmin, and 2-Methylisoborneol in Water Samples. *Chemosensors* 2023 FEB;11(2):84.

(266) Pareja D, Inanez J, Ben Amara A, Diaz L, Arana G, Chapoulie R. The Ychsma ceramic provenance from Armatambo, 1250 - 1532 CE (Lima Peru). A local or imported production? *Journal of Archaeological Science-Reports* 2023 FEB;47:103772.

(267) Parra O, Portillo A, Erena J, Aguayo AT, Bilbao J, Ateka A. Boosting the activity in the direct conversion of CO₂/CO mixtures into gasoline using ZnO-ZrO₂ catalyst in tandem with HZSM-5 zeolite. *Fuel Process Technol* 2023 JUN 15:245:107745.



- (268) Pascual-Colino J, Perez-Aguirre R, Beobide G, Castillo O, de Pedro I, Luque A, et al. An in solution adsorption characterization technique based on the response to an external magnetic field of porous paramagnetic materials: application on supramolecular metal-adenine frameworks containing heterometallic heptameric clusters. *Inorganic Chemistry Frontiers* 2023;10(8):2250-2261.
- (269) Pascual-Colino J, Virpurwala QJS, Mena-Gutierrez S, Perez-Yanez S, Luque A, Beobide G, et al. Thermochemical CO₂ Reduction Catalyzed by Homometallic and Heterometallic Nanoparticles Generated from the Thermolysis of Supramolecularly Assembled Porous Metal-Adenine Precursors. *Inorg Chem* 2023.
- (270) Penas C, Arroyo-Berdugo Y, Apraiz A, Rasero J, Munoa-Hoyos I, Andollo N, et al. Pirin is a prognostic marker of human melanoma that dampens the proliferation of malignant cells by downregulating JARID1B/KDM5B expression. *Scientific Reports* 2023 JUN 12;13(1).
- (271) Penche G, Gonzalez-Marcos MP, Gonzalez-Velasco JR, Vos CW, Kozak CM. Two-dimensional (2D) layered double metal cyanides as alternative catalysts for CO₂/propylene oxide copolymerization. *Catalysis Science & Technology* 2023 SEP 18;13(18):5214-5226.
- (272) Peralta Conde A, Lamas I, Sanchez Albaneda M, Mendez C, Longarte A, Montero R. Tracking ultrafast dynamics by sub-20-fs UV pulses generated in the lab open atmosphere. *Chemical Physics Letters* 2023 FEB;812:140268.
- (273) Pereira J, Brunet TC, Ruiz IM, Llorens SR, Lobato CC, Riaza AR, et al. Horse-and-rider brooches of "Castellares" type: a symbol shared by cavalry chiefs of pre-Roman groups of the Iberian meseta. *Trabajos De Prehistoria* 2023;80(1):e07.
- (274) Pereira N, Pinto RS, Goncalves R, Tubio CR, Costa CM, Lanceros-Mendez S. Direct-Ink Writing Processing of High-k Poly(vinylidene fluoride-trifluoroethylene-chlorofluoroethylene) and Its Integration into an All-Printed Capacitive Touch-Sensing Device. *Acs Applied Electronic Materials* 2023;5(11):5977-5985.
- (275) Perez-Diez S, Bernier C, Inanez JG, Maguregui M. A Non-Invasive In Situ Spectroscopic Analysis of Cinnabar Minerals to Assist Provenance Studies of Archaeological Pigments. *Crystals* 2023 FEB;13(2):207.
- (276) Perez-Diez S, Caruso F, Nardini EF, Stollenwerk M, Maguregui M. Secco painting technique revealed in non-restored Pompeian murals by analytical and imaging techniques. *Microchemical Journal* 2023 NOV;194:109365.
- (277) Perfecto-Irigaray M, Merino-Garcia I, Albo J, Beobide G, Castillo O, Luque A, et al. Copper(II)-porphyrin functionalized titanium(IV) metal-organic aerogels for the



visible-light driven conversion of CO₂ to alcohols. Materials Today Energy 2023 AUG;36:101346.

(278) Pinillos P, Camiruaga A, Torres-Hernandez F, Basterrechea FJ, Usabiaga I, Fernandez JA. Exploring the interaction sites in glucose and galactose using phenol as a probe. Physical Chemistry Chemical Physics 2023;25(10):7205-7212.

(279) Pittala RK, Sharma P, Anne G, Patil S, Varghese V, Das SR, et al. Development and Mechanical Characterization of Ni-Cr Alloy Foam Using Ultrasonic-Assisted Electroplating Coating Technique. Coatings 2023 JUN;13(6):1002.

(280) Policia R, Correia DM, Perinka N, Tubio CR, Lanceros-Mendez S. Influence of polymer matrix on the luminescence of phosphor based printable electroluminescent materials and devices. Polymer 2023 FEB 22;268:125700.

(281) Polo Y, Luzuriaga J, Gonzalez de Langarica S, Pardo-Rodriguez B, Martinez-Tong DE, Tapeinos C, et al. Self-assembled three-dimensional hydrogels based on graphene derivatives and cerium oxide nanoparticles: scaffolds for co-culture of oligodendrocytes and neurons derived from neural stem cells. Nanoscale 2023 MAR 2;15(9):4488-4505.

(282) Portal-Porras K, Fernandez-Gamiz U, Zulueta E, Garcia-Fernandez R, Berrizbeitia SE. Active flow control on airfoils by reinforcement learning. Ocean Eng 2023;287:115775.

(283) Portal-Porras K, Fernandez-Gamiz U, Zulueta E, Garcia-Fernandez R, Irigaray O. Parametric study of vortex generators on a fin-and-tube heat exchanger. Energy Sources Part A-Recovery Utilization and Environmental Effects 2023 OCT 2;45(4):10051-10072.

(284) Portal-Porras K, Fernandez-Gamiz U, Zulueta E, Irigaray O, Garcia-Fernandez R. Hybrid LSTM+CNN architecture for unsteady flow prediction. Materials Today Communications 2023;35:106281.

(285) Portillo A, Parra O, Erena J, Aguayo AT, Bilbao J, Ateka A. Effect of water and methanol concentration in the feed on the deactivation of In₂O₃-ZrO₂/SAPO-34 catalyst in the conversion of CO₂/CO to olefins by hydrogenation. Fuel 2023;346:128298.

(286) Portillo A, Parra O, Aguayo AT, Erena J, Bilbao J, Ateka A. Setting up In₂O₃-ZrO₂/SAPO-34 Catalyst for Improving Olefin Production via Hydrogenation of CO₂/CO Mixtures. Catalysts 2023 JUL;13(7):1101.

(287) Poths P, Zandkarimi B, Alexandrova AN, Jimenez-Izal E. Pt : Ge Ratio as a Lever of Activity and Selectivity Control of Supported PtGe Clusters in Thermal Dehydrogenation. Chemcatchem 2023 MAR 22;15(6).



- (288) Prieto L, Reyes E, Uria U, Carrillo L, Vicario JL. Desymmetrization of Oxabenzonorbornadienes through Bronsted Acid-Catalyzed Enantioselective (3+2) Cycloaddition with Hydrazones. *Asian Journal of Organic Chemistry* 2023 JUL;12(7).
- (289) Prieto-Montero R, Diaz Andres A, Prieto-Castaneda A, Tabero A, Longarte A, Agarrabeitia AR, et al. Halogen-free photosensitizers based on meso-enamine-BODIPYs for bioimaging and photodynamic therapy. *Journal of Materials Chemistry B* 2023;11(1):169-179.
- (290) Prieto-Pascual U, Alli IV, Bustos I, Vitorica-Yrezabal IJ, Matxain JM, Freixa Z, et al. Air-Stable 14-Electron Rhodium(III) Complexes Bearing Si₂N Ligands as Catalysts in Hydrolysis of Silanes. *Organometallics* 2023;42(20):2991-2998.
- (291) Prieto-Pascual U, de Morentin AM, Choquesillo-Lazarte D, Rodriguez-Dieguez A, Freixa Z, Huertos MA. Catalytic activation of remote alkenes through silyl-rhodium(III) complexes. *Dalton Transactions* 2023 JUL 4;52(26):9090-9096.
- (292) Prieto-Pascual U, Rodriguez-Dieguez A, Freixa Z, Huertos MA. Tailor-Made Synthesis of Hydrosilanols, Hydrosiloxanes, and Silanediols Catalyzed by di-Silyl Rhodium(III) and Iridium(III) Complexes. *Inorg Chem* 2023 FEB 20;62(7):3095-3105.
- (293) Puertas AI, Llamas-Arriba MG, Etxebeste O, Berregi I, Pardo MA, Prieto A, et al. Characterization of the heteropolysaccharides produced by *Liquorilactobacillus sicerae* CUPV261 and *Secundilactobacillus collinoides* CUPV237 isolated from cider*. *Int J Food Microbiol* 2023;397:110199.
- (294) Quant L, Diarce G, Bouzas L, Garcia-Romero A. A comprehensive study of the phase segregation of a urea-based phase change material tested under thermal cycling conditions. *Journal of Energy Storage* 2023 APR;60:106621.
- (295) Razquin I, Iregui A, Cobos M, Latasa J, Eceiza A, Gonzales K, et al. Cationically photocured epoxy/polycaprolactone materials processed by solution electrospinning, melt electrowriting and 3D printing: Morphology and shape memory properties. *Polymer* 2023 AUG 8;282:126160.
- (296) Razquin-Bobillo L, Pajuelo-Corral O, Zabala-Lekuona A, Vitorica-Yrezabal I, Garcia JA, Moreno JM, et al. A Luminescent MOF Based on Pyrimidine-4,6-dicarboxylate Ligand and Lead(II) with Unprecedented Topology. *Crystals* 2023 OCT;13(10):1490.
- (297) Regato-Herbella M, Morhenn I, Mantione D, Pascuzzi G, Gallastegui A, dos Santos Valle ABC, et al. ROS-Responsive 4D Printable Acrylic Thioether-Based Hydrogels for Smart Drug Release. *Chemistry of Materials* 2023 DEC 13;36(3):1262-1272.

- (298) Revilla G, Al Qtaish N, Caruana P, Sainz-Ramos M, Lopez-Mendez T, Rodriguez F, et al. Lenvatinib-Loaded Poly(lactic-co-glycolic acid) Nanoparticles with Epidermal Growth Factor Receptor Antibody Conjugation as a Preclinical Approach to Therapeutically Improve Thyroid Cancer with Aggressive Behavior. *Biomolecules* 2023 NOV;13(11):1647.

(299) Reyes E, Prieto L, Uria U, Carrillo L, Vicario JL. Asymmetric Dual Enamine Catalysis/Hydrogen Bonding Activation. *Catalysts* 2023 JUL;13(7):1091.

(300) Reynoso AJ, Ayastuy JL, Iriarte-Velasco U, Gutierrez-Ortiz MA. Bio-hydrogen and valuable chemicals from industrial waste glycerol via catalytic aqueous-phase transformation. *Fuel Process Technol* 2023;242:107634.

(301) Rodriguez J, Sinner AG, Martinez-Chico D, Zalduegui JFS. AMALIA, A Matching Algorithm for Lead Isotope Analyses: Formulation and proof of concept at the Roman foundry of Fuente Spitz (Jaen, Spain). *Journal of Archaeological Science-Reports* 2023 OCT;51:104192.

(302) Rodriguez-Muniz GM, Fraga-Timiraos AB, Navarrete-Miguel M, Borrego-Sanchez A, Roca-Sanjuan D, Miranda MA, et al. Reductive Photocycloreversion of Cyclobutane Dimers Triggered by Guanines. *J Org Chem* 2023 JUL 12;88(14):10111-10121.

(303) Ruiz D, Michel VF, Niederberger M, Lizundia E. Chitin Nanofibrils from Fungi for Hierarchical Gel Polymer Electrolytes for Transient Zinc-Ion Batteries with Stable Zn Electrodeposition. *Small* 2023;19(45).

(304) Ruiz JM, Beitia M, Delgado D, Sanchez P, Arnaiz MJ, de Dicastillo LL, et al. New Formulation of Platelet-Rich Plasma Enriched in Platelet and Extrplatelet Biomolecules Using Hydrogels. *International Journal of Molecular Sciences* 2023 SEP;24(18):13811.

(305) Ruiz-Bilbao E, Iturrospe A, Reinoso S, Artetxe B, Beobide G, San Felices L, et al. Consecutive Single-Crystal-to-Single-Crystal Isomerization of Novel Octamolybdate Anions within a Microporous Hybrid Framework with Robust Water Sorption Properties. *Angewandte Chemie-International Edition* 2023 OCT 16;62(42).

(306) Rusconi S, Schenk C, Zarnescu A, Akhmatskaya E. Reducing model complexity by means of the optimal scaling: Population balance model for latex particles morphology formation. *Applied Mathematics and Computation* 2023 APR 15;443:127756.

(307) Saladrigas M, Gomez-Bengoa E, Bonjoch J, Bradshaw B. Four-Step Synthesis of (-)-4-epi-Presilphiperfolan-8 α -ol by Intramolecular Iron Hydride Atom Transfer-Mediated Ketone-Alkene Coupling and Studies to Access trans-Hydrindanols with a Botryane Scaffold. *Chemistry-a European Journal* 2023.



- (308) Salaheldeen M, Garcia-Gomez A, Corte-Leon P, Gonzalez A, Ipatov M, Zhukova V, et al. Manipulation of magnetic and structure properties of Ni₂FeSi glass-coated microwires by annealing. *J Alloys Compounds* 2023 MAY 5;942:169026.
- (309) Salaheldeen M, Ipatov M, Zhukova V, Garcia-Gomez A, Gonzalez J, Zhukov A. Preparation and magnetic properties of Co₂-based Heusler alloy glass-coated microwires with high Curie temperature. *Aip Advances* 2023 FEB 1;13(2):025325.
- (310) Salaheldeen M, Ipatov M, Corte-Leon P, Zhukova V, Zhukov A. Effect of Annealing on the Magnetic Properties of Co₂MnSi-Based Heusler Alloy Glass-Coated Microwires. *Metals* 2023 FEB;13(2):412.
- (311) Salaheldeen M, Wederni A, Ipatov M, Zhukova V, Lopez Anton R, Zhukov A. Enhancing the Squareness and Bi-Phase Magnetic Switching of Co₂FeSi Microwires for Sensing Application. *Sensors* 2023 MAY 26;23(11):5109.
- (312) Salaheldeen M, Wederni A, Ipatov M, Zhukova V, Zhukov A. Preparation and Magneto-Structural Investigation of High-Ordered (L21 Structure) Co₂MnGe Microwires. *Processes* 2023 APR;11(4):1138.
- (313) Salaheldeen M, Wederni A, Ipatov M, Zhukova V, Zhukov A. Carbon-Doped Co₂MnSi Heusler Alloy Microwires with Improved Thermal Characteristics of Magnetization for Multifunctional Applications. *Materials* 2023 AUG;16(15):5333.
- (314) Salaheldeen M, Zhukova V, Ipatov M, Zhukov A. Unveiling the Magnetic and Structural Properties of (X₂YZ; X = Co and Ni, Y = Fe and Mn, and Z = Si) Full-Heusler Alloy Microwires with Fixed Geometrical Parameters. *Crystals* 2023 NOV;13(11):1550.
- (315) Salaheldeen M, Zhukova V, Wederni A, Ipatov M, Zhukov A. Magnetic Properties of Co₂MnSi-Based Heusler Alloy Glass-Coated Microwires. *IEEE Trans Magn* 2023 NOV;59(11):7300904.
- (316) Sanchez A, Esmail Shalan A, Rosales M, Ruiz de Larramendi I, Javier del Campo F. Screen-printed nickel hydroxide electrodes: Semiconducting, electrocatalytic, and electrochromic properties. *J Electroanal Chem* 2023 JAN 1;928:117052.
- (317) Sanchez-Camacho J, Infante-Tadeo S, Carrasco AC, Scoditti S, Martinez A, Barroso-Bujans F, et al. Flavin-Conjugated Pt(IV) Anticancer Agents. *Inorg Chem* 2023 APR 10;62(14):5644-5651.
- (318) Sanchez-Diez E, Garcia L, Arcelus O, Qiao L, San Felices L, Carrasco J, et al. Crystal structure and cation-anion interactions of potassium (Difluoromethanesulfonyl)(trifluoromethanesulfonyl)imide. *Frontiers in Chemistry* 2023 JUL 12;11:1191394.



- (319) Sanchez-Espana J, Ilin AMM, Yusta I, van der Graaf CMM, Sanchez-Andrea I. Fe(III) Biomineralization in the Surface Microlayer of Acid Mine Waters Catalyzed by Neustonic Fe(II)-Oxidizing Microorganisms. *Minerals* 2023 APR;13(4):508.
- (320) Santamarina-Garcia G, Amores G, Hernandez I, Moran L, Barron LJR, Virto M. Relationship between the dynamics of volatile aroma compounds and microbial succession during the ripening of raw ewe milk-derived Idiazabal cheese. *Current Research in Food Science* 2023;6:100425.
- (321) Sanz-Latorre M, Soto M, de Cerio OD, Valenciano I, Gutierrez M, Izagirre U. Distribution of the alien bivalve Xenostrobus securis (Lamarck, 1819) in the coast of Bizkaia (northern Iberian Peninsula). *Cont Shelf Res* 2023;267:105101.
- (322) Sarrionandia F, Errandonea-Martin J, Larrondo E, Carracedo-Sanchez M, Abalos B, Gil Ibarguchi JI. Low-Ti Continental Tholeiite Origin of Magmas With Calc-Alkaline Signature in Transcurrent Settings: The Mississippian Matachel Volcanic Field (SW Iberian Massif). *Geochemistry Geophysics Geosystems* 2023 NOV;24(11):e2023GC011139.
- (323) Sarrionandia F, Errandonea-Martin J, Larrondo E, Carracedo-Sanchez M, Abalos B, Gil-Ibarguchi JI. Mineral chemistry dataset of the Tournaisian-Lower Visan submarine basaltic volcanism of the Matachel Basin (SW Iberian Massif). *Data in Brief* 2023 FEB;46:108826.
- (324) Sasselli IR, Coluzza I. Assessment of the MARTINI 3 Performance for Short Peptide Self-Assembly. *Journal of Chemical Theory and Computation* 2023 DEC 19;20(1):224-238.
- (325) Sastre AA, Montoro ML, Llavero F, Zugaza JL. Amyloid β 1-42 Oligomers Induce Galectin-1S8 O-GlcNAcylation Leading to Microglia Migration. *Cells* 2023 JUL;12(14):1876.
- (326) Serra JP, Fernandes LC, Pereira N, Fidalgo-Marijuan A, Porro JM, Costa CM, et al. Humidity Sensors Based on Magnetic Ionic Liquids Blended in Poly(vinylidene fluoride-co-hexafluoropropylene). *Acs Applied Polymer Materials* 2023 JAN 13;5(1):109-119.
- (327) Serras-Malillos A, Perez-Martinez BB, Lopez-Urionabarrenechea A, Acha E, Caballero BM. Integral recycling of polyester based end-of-life fibre reinforced plastic waste towards syngas generation. *Sustainable Materials and Technologies* 2023;38:e00773.
- (328) Serreta-Oliván A, Sancho-Cohen R, Sanchez-Gimeno AC, Martin-Ramos P, Cuchi-Oterino JA, Casanova-Gascon J. Traditional Olive Tree Varieties in Alto Aragón (NE



Spain): Molecular Characterization, Single-Varietal Oils, and Monumental Trees. Agriculture-Basel 2023 DEC;13(12):2204.

(329) Sharma A, Feng L, Muresanu DF, Tian ZR, Vicente Lafuente J, Buzoianu AD, et al. Sleep deprivation enhances amyloid beta peptide, p-tau and serotonin in the brain: Neuroprotective effects of nanowired delivery of cerebrolysin with monoclonal antibodies to amyloid beta peptide, p-tau and serotonin. Nanowired Delivery of Drugs and Antibodies for Neuroprotection in Brain Diseases with Co-Morbidity Factors 2023;171:125-162.

(330) Sharma HS, Feng L, Muresanu DF, Tian ZR, Vicente Lafuente J, Buzoianu AD, et al. Stress induced exacerbation of Alzheimer's disease brain pathology is thwarted by co-administration of nanowired cerebrolysin and monoclonal amyloid beta peptide antibodies with serotonin 5-HT6 receptor antagonist SB-399885. Nanowired Delivery of Drugs and Antibodies for Neuroprotection in Brain Diseases with Co-Morbidity Factors 2023;171:3-46.

(331) Sierra I, Ayastuy JL, Gutierrez-Ortiz MA, Iriarte-Velasco U. A study on the impact of the reaction mechanism of the thermochemical activation of bone char (by pyrolysis and carbonization). J Anal Appl Pyrolysis 2023 MAY;171:105973.

(332) Sierra I, Iriarte-Velasco U, Ayastuy JL, Aguayo AT. Production of magnetic sewage sludge biochar: investigation of the activation mechanism and effect of the activating agent and temperature. Biomass Conversion and Biorefinery 2023 DEC;13(18):17101-17118.

(333) Sierra S, Lopez R, Gomez-Bengoa E, Falvello LR, Urriolabeitia EP. Synthesis of 1,2-diaminotrxinic delta-cyclobutanes by BF₃-controlled [2+2]-photocycloaddition of 5(4H)-oxazolones and stereoselective expansion of delta-cyclobutanes to give highly substituted pyrrolidine-2,5-dicarboxylates. Organic & Biomolecular Chemistry 2023 APR 12;21(15):3203-3213.

(334) Silva-Brea D, de Sancho D, Lopez X. Influence of metal binding on the conformational landscape of neurofilament peptides. Physical Chemistry Chemical Physics 2023 OCT 11;25(39):26429-26442.

(335) Souii I, Sanhoury MA, Vicario J, Jimenez-Aberasturi X, Efrit ML, M'rabet H, et al. Synthesis and Characterization of a New Series of Bis(allylic- α -aminophosphonates) under Mild Reaction Conditions. Molecules 2023 JUN;28(12):4678.

(336) Tabernilla Z, Ateka A, Bilbao J, Aguayo AT, Epelde E. Performance of HZSM-5 agglomerated in a mesoporous matrix in the fuel production from ethylene at atmospheric pressure. Energy 2023 DEC 1;284:128703.



- (337) Tariq S, Irusta L, Fernandez M, Paulis M. Crosslinking versus interdiffusion in two pot one pack acetoacetoxy-amine based binder system. *Progress in Organic Coatings* 2023 JAN;174:107292.
- (338) Tarrino A, Abalos B, Puelles P, Eguiluz L, Diez-Martin F. The crystalline quartz-rich raw material from Olduvai Gorge (Tanzania): why is it called quartzite when it should be called quartz? *Archaeological and Anthropological Sciences* 2023 JUN;15(6):78.
- (339) Telleria-Allika X, Mercero JM, Ugalde JM, Lopez X, Matxain JM. Few electron systems confined in Gaussian potential wells and connection to Hooke atoms. *International Journal of Quantum Chemistry* 2023;123(5).
- (340) Telleria-Allika X, Ugalde JM, Matito E, Ramos-Cordoba E, Rodriguez-Mayorga M, Lopez X. Aufbau principle and singlet-triplet gap in spherical Hooke atoms. *International Journal of Quantum Chemistry* 2023;123(3).
- (341) Terradillos I, Bonilla-Del Rio I, Puente N, Serrano M, Mimenza A, Lekunberri L, et al. Altered glial expression of the cannabinoid 1 receptor in the subiculum of a mouse model of Alzheimer's disease. *Glia* 2023 APR;71(4):866-879.
- (342) Torre-Fdez I, Garcia-Florentino C, Huidobro J, Coloma L, Ruiz-Galende P, Aramendia J, et al. Characterization of olivines and their metallic composition: Raman spectroscopy could provide an accurate solution for the active and future Mars missions. *J Raman Spectrosc* 2023;54(3):340-350.
- (343) Trejo A, Masdeu C, Serrano-Perez I, Pedrola M, Juanola N, Ghashghaei O, et al. Efficient AntiMycolata Agents by Increasing the Lipophilicity of Known Antibiotics through Multicomponent Reactions. *Antibiotics-Basel* 2023 JAN;12(1):83.
- (344) Trueba D, Palos R, Bilbao J, Arandes JM, Gutierrez A. Kinetic modeling of the hydrocracking of polystyrene blended with vacuum gasoil. *Chem Eng J* 2023;451:138709.
- (345) Trueba D, Zambrano N, Hita I, Palos R, Azkotiti J, Castano P, et al. Hydrocracking mechanisms of oxygenated plastics and vacuum gasoil blends. *Fuel Process Technol* 2023 SEP;248:107822.
- (346) Tubio CR, Valle X, Carvalho E, Moreira J, Costa P, Correia DM, et al. Poly(3-hydroxybutyrate-co-3-hydroxyvalerate) Blends with Poly(caprolactone) and Poly(lactic acid): A Comparative Study. *Polymers* 2023 DEC;15(23):4566.
- (347) Tullii G, Gutierrez-Fernandez E, Ronchi C, Bellacanzone C, Bondi L, Criado-Gonzalez M, et al. Bimodal modulation of in vitro angiogenesis with photoactive polymer nanoparticles. *Nanoscale* 2023;15(46):18716-18726.



- (348) Uceta H, Cabrera-Espinoza A, Barrejon M, Sanchez JG, Gutierrez-Fernandez E, Kosta I, et al. p-Type Functionalized Carbon Nanohorns and Nanotubes in Perovskite Solar Cells. *Acs Applied Materials & Interfaces* 2023 SEP 6;15(38):45212-45228.
- (349) Udabe J, Tiwari N, Picco A, Huck-Iriart C, Escudero C, Calderon M. Multi-hierarchical nanoparticles with tunable core by emulsion polymerization processes. *European Polymer Journal* 2023 DEC 11;201:112566.
- (350) Ugalde-Arbizu M, Aguilera-Correa JJ, Garcia-Almodovar V, Ovejero-Paredes K, Diaz-Garcia D, Esteban J, et al. Dual Anticancer and Antibacterial Properties of Silica-Based Theranostic Nanomaterials Functionalized with Coumarin343, Folic Acid and a Cytotoxic Organotin(IV) Metallodrug. *Pharmaceutics* 2023 FEB;15(2):560.
- (351) Ugalde-Arbizu M, Aguilera-Correa JJ, San Sebastian E, Paez PLL, Nogales E, Esteban J, et al. Antibacterial Properties of Mesoporous Silica Nanoparticles Modified with Fluoroquinolones and Copper or Silver Species. *Pharmaceutics* 2023 JUL;16(7):961.
- (352) Ugarte L, Fernandez-d'Arlas B, Larraza I, Berra G, Gabilondo N, Eceiza A. Revalorization of sheep-wool keratin for the preparation of fully biobased printable inks. *Journal of Polymers and the Environment* 2023 OCT;31(10):4302-4313.
- (353) Ugarte-Anero A, Fernandez-Gamiz U, Portal-Porras K, Lopez-Gude JM, Sanchez-Merino G. Numerical study of different ventilation schemes in a classroom for efficient aerosol control. *Heliyon* 2023 SEP;9(9):e19961.
- (354) Unzueta-Larrinaga P, Barrena-Barbadillo R, Ibarra-Lecue I, Horrillo I, Villate A, Recio M, et al. Isolation and Differentiation of Neurons and Glial Cells from Olfactory Epithelium in Living Subjects. *Mol Neurobiol* 2023;60(8):4472-4487.
- (355) Uranga J, Carranza T, Penalba M, de la Caba K, Guerrero P. Valorization of agar production residue as a filler in soy protein hydrogels for 3D printing. *International Journal of Bioprinting* 2023;9(4).
- (356) Urigoitia G, Obieta M, Herrero MT, Lezama L, Sanmartin R. Molecular Oxygen-Induced Transamidation of Unactivated Amides in Diethyl Carbonate in the Presence of a Palladium Catalyst. *Advanced Synthesis & Catalysis* 2023.
- (357) Uribe-Etxebarria V, Ramon Pineda J, Garcia-Gallastegi P, Aglian A, Unda F, Ibarretxe G. Notch and Wnt Signaling Modulation to Enhance DPSC Stemness and Therapeutic Potential. *International Journal of Molecular Sciences* 2023 APR;24(8):7389.



- (358) Urruzuno I, Andrade-Sampedro P, Correa A. Palladium-Catalyzed Site-Selective C(sp₂)-H Acetoxylation of Tyrosine-Containing Peptides. European Journal of Organic Chemistry 2023 FEB 6;26(6).
- (359) Usategui L, Lopez-Ferreno I, Echaniz T, Sainz-Menchon M, Musi M, Clemens H, et al. Emissivity measurements conducted on intermetallic γ -TiAl-based alloys for aeronautical applications. Journal of Materials Research and Technology-Jmr&T 2023;27:3170-3179.
- (360) Vallejo N, Aihartza J, Olasagasti L, Aldasoro M, Goiti U, Garin I. Seasonal shift in the diet of the notched-eared bat (*Myotis emarginatus*) in the Basque Country: from flies to spiders. Mammalian Biology 2023 AUG;103(4):419-431.
- (361) Valverde A, de Fernandez-de Luis R, Salazar H, Goncalves BF, King S, Almasy L, et al. On The Multiscale Structure and Morphology of Pvdf-Hfp@Mof Membranes in The Scope of Water Remediation Applications. Advanced Materials Interfaces 2023.
- (362) Varela-Martinez E, Bilbao-Arribas M, Abendano N, Asin J, Perez M, Lujan L, et al. Identification and characterization of miRNAs in spleens of sheep subjected to repetitive vaccination. Scientific Reports 2023 APR 17;13(1).
- (363) Vega-Mas I, Ascencio-Medina E, Bozal-Leorri A, Gonzalez-Murua C, Marino D, Gonzalez-Moro MB. Will crops with biological nitrification inhibition capacity be favored under future atmospheric CO₂? Frontiers in Plant Science 2023 AUG 24;14:1245427.
- (364) Veloso-Fernandez A, Ruiz-Rubio L, Yugueros I, Moreno-Benitez MI, Laza JM, Vilas-Vilela JL. Improving the Recyclability of an Epoxy Resin through the Addition of New Biobased Vitrimer. Polymers 2023 SEP;15(18):3737.
- (365) Vera-Hincapie N, Iriarte-Velasco U, Ayastuy JL, Gutierrez-Ortiz MA. Effect of the synthesis method on the performance of Ni-CeO₂-ZrO₂ catalysts for the hydrogenolysis of glycerol with endogenous hydrogen. Journal of Environmental Chemical Engineering 2023;11(5):111072.
- (366) Villaescusa L, Hernandez I, Azcune L, Rudi A, Mercero JM, Landa A, et al. Rigidified Bis(sulfonyl)ethylenes as Effective Michael Acceptors for Asymmetric Catalysis: Application to the Enantioselective Synthesis of Quaternary Hydantoins. J Org Chem 2023.
- (367) Villen I, Teso D, Martinez-Filgueira P, Fernandez-Gamiz U, Marquez G, Lopez-Gude JM, et al. 2D PIV/PTV-3D uRANS RSM Investigation on the Combined Effect of Iron Filings Filtering Techniques in a Backward Facing Step Flow. JOM 2023 MAR;75(3):759-779.



- (368) Vozzolo G, Ximenis M, Mantione D, Fernandez M, Sardon H. Thermally Reversible Organocatalyst for the Accelerated Reprocessing of Dynamic Networks with Creep Resistance. *Acs Macro Letters* 2023.
- (369) Wederni A, Salaheldeen M, Ipatov M, Zhukova V, Zhukov A. Influence of the Geometrical Aspect Ratio on the Magneto-Structural Properties of Co₂MnSi Microwires. *Metals* 2023 OCT;13(10):1692.
- (370) Wojtas MN, Diaz-Gonzalez M, Stavtseva N, Shoam Y, Verma P, Buberman A, et al. Interplay between hippocampal TACR3 and systemic testosterone in regulating anxiety-associated synaptic plasticity. *Mol Psychiatry* 2023.
- (371) Wolfel A, Wang H, Osorio-Blanco ER, Bergueiro J, Romero MR, Igarzabal CIA, et al. Structural control and functionalization of thermoresponsive nanogels: turning cross-linking points into anchoring groups. *Polymer Chemistry* 2023 JUN 27;14(25):2998-3007.
- (372) Xu X, Soriano-Agueda L, Lopez X, Ramos-Cordoba E, Matito E. All-Purpose Measure of Electron Correlation for Multireference Diagnostics. *Journal of Chemical Theory and Computation* 2023 DEC 29;20(2):721-727.
- (373) Zangi R. Multimerizations, Aggregation, and Transfer Reactions of Small Numbers of Molecules. *Journal of Chemical Information and Modeling* 2023 JUL 11;63(14):4383-4391.
- (374) Zarandona I, Correia DM, Moreira J, Costa CM, Lanceros-Mendez S, Guerrero P, et al. Magnetically responsive chitosan-pectin films incorporating Fe₃O₄ nanoparticles with enhanced antimicrobial activity br. *Int J Biol Macromol* 2023 FEB 1;227:1070-1077.
- (375) Zarraonaindia I, Cretazzo E, Mena-Petite A, Diez-Navajas AM, Perez-Lopez U, Lacuesta M, et al. Holistic understanding of the response of grapevines to foliar application of seaweed extracts. *Frontiers in Plant Science* 2023 FEB 24;14:1119854.
- (376) Zhang J, Zhou G, Un H, Zheng F, Jastrzembski K, Wang M, et al. Wavy Two-Dimensional Conjugated Metal-Organic Framework with Metallic Charge Transport. *J Am Chem Soc* 2023 OCT 18;145(43):23630-23638.
- (377) Zheng F, Martins PM, Queiros JM, Tavares CJ, Vilas-Vilela JL, Lanceros-Mendez S, et al. Hybrid TiO₂:Au nanostars based polymeric membranes for photocatalytic degradation of ciprofloxacin in water samples. *Chemosphere* 2023;313:137630.
- (378) Zheng F, Queiros JM, Martins PM, de Luis RF, Fidalgo-Marijuan A, Vilas-Vilela JL, et al. Au-sensitised TiO₂ and ZnO nanoparticles for broadband pharmaceuticals photocatalytic degradation in water remediation. *Colloids and Surfaces A-Physicochemical and Engineering Aspects* 2023;671:131594.



- (379) Zhukov A, Corte-Leon P, Blanco JM, Ipatov M, Garcia-Gomez A, Gonzalez A, et al. Development of amorphous microwires with graded magnetic anisotropy. *J Magn Magn Mater* 2023;587:171358.
- (380) Zhukov A, Alexandrov S, Rodionova V, Zhukova V. Special Issue "Advances in Innovative Engineering Materials and Processes". *Processes* 2023 FEB;11(2):578.
- (381) Zhukova V, Churyukanova M, Kaloshkin S, Corte-Leon P, Ipatov M, Zhukov A. Magnetostriiction of amorphous Co-based and Fe-Ni-based magnetic microwires: Effect of stresses and annealing. *J Alloys Compounds* 2023 SEP 5;954:170122.
- (382) Zhukova V, Corte-Leon P, Allue A, Gondra K, Ipatov M, Blanco JM, et al. Magnetic Properties and Applications of Glass- coated Ferromagnetic Microwires. *Advanced Electromagnetics* 2023;12(3):69-74.
- (383) Zhukova V, Garcia-Gomez A, Gonzalez A, Churyukanova M, Kaloshkin S, Corte-Leon P, et al. The Magnetostriiction of Amorphous Magnetic Microwires: The Role of the Local Atomic Environment and Internal Stresses Relaxation. *Magnetochemistry* 2023 OCT;9(10):222.