



PUBLICATIONS OF THE YEAR 2022 SUPPORTED BY THE SGIKER

- (1) Acera A, Abad B, Pereiro X, Rodriguez FD, Ruzafa N, Duran JA, et al. Comparative study of the lipid profile of tears and plasma enriched in growth factors. *Exp Eye Res* 2022 JUN;219:109061.
- (2) Achicallende S, Bonilla-Del Rio I, Serrano M, Mimenza A, Lekunberri L, Anaut-Lusar I, et al. GLAST versus GFAP as astroglial marker for the subcellular study of cannabinoid CB₁ receptors in astrocytes. *Histochem Cell Biol* 2022 DEC;158(6):561-569.
- (3) Agirre A, Aguirre M, Leiza JR. Characterization of grafting properties of ABS latexes: ATR-FTIR vs NMR spectroscopy. *Polymer* 2022 JUN 22;253:124997.
- (4) Agirre M, Bello T, Zhou J, de Gracia Retamosa M, Cossio FP. Synthesis of Bicyclic Hemiacetals Catalyzed by Unnatural Densely Substituted gamma-Dipeptides. *J Org Chem* 2022 NOV 4;87(21):14819-14824.
- (5) Agirresarobe A, Miranda-Apodaca J, Odriozola I, Munoz-Rueda A, Perez-Lopez U. Photosynthesis is not the unique useful trait for discriminating salt tolerance capacity between sensitive and tolerant quinoa varieties. *Planta* 2022 AUG;256(2):20.
- (6) Aigrot M, Barthelemy C, Moyon S, Dufayet-Chaffaud G, Izagirre-Urizar L, Gillet-Legrand B, et al. Genetically modified macrophages accelerate myelin repair. *Embo Molecular Medicine* 2022 AUG 8;14(8):e14759.
- (7) Akhmatskaya E, Sokolovski D. Numerical Regge pole analysis of resonance structures in state-to-state reactive differential cross sections. *Comput Phys Commun* 2022 AUG;277:108370.
- (8) Alba AF, Luis RF, Totoricaguena-Gorrino J, Ruiz-Rubio L, Sanchez J, Vilas-Vilela JL, et al. Understanding electrogenerated chemiluminescence at graphite screen-printed electrodes. *J Electroanal Chem* 2022 JUN 1;914:116331.
- (9) Alboniga OE, Gonzalez-Mendia O, Blanco ME, Alonso RM. HPLC-(Q)-TOF-MS-Based Study of Plasma Metabolic Profile Differences Associated with Age in Pediatric Population Using an Animal Model. *Metabolites* 2022 AUG;12(8):739.
- (10) Almagro-Ruiz A, Pape S, Munoz-Marco H, Wiehe M, Curras E, Fernandez-Garcia M, et al. Fiber laser system of 1550 nm femtosecond pulses with configurable properties for the two-photon excitation of transient currents in semiconductor detectors. *Appl Opt* 2022 NOV 10;61(32):9386-9397.



- (11) Almenara N, Garralda MA, Lopez X, Matxain JM, Freixa Z, Huertos MA. Hydrogen Tunneling in Catalytic Hydrolysis and Alcoholysis of Silanes. *Angewandte Chemie-International Edition* 2022 SEP 5;61(36):e202204558.
- (12) Alonso ML, Roman IS, Bartolome L, Monfort N, Alonso RM, Ventura R. Multiple headspace solid-phase microextraction (MHS-SPME) methodology applied to the determination of volatile metabolites of plasticizers in human urine. *Microchemical Journal* 2022 SEP;180:107567.
- (13) Alonso-Olazabal A, Angel Ortega L, Cruz Zuluaga M, Alonso-Fernandez C, Jimenez-Echevarria J, Sarmiento A. Glaze characterization of the glazed pottery from the medieval workshop of Vega (Burgos, Spain). *J Raman Spectrosc* 2022 JUN;53(6):1204-1213.
- (14) Alonso-Orts M, Carrasco D, San Juan JM, No ML, de Andres A, Nogales E, et al. Wide Dynamic Range Thermometer Based on Luminescent Optical Cavities in Ga₂O₃:Cr Nanowires. *SMALL* 2022 JAN;18(1).
- (15) Alonso-Salces RM, Berrueta LA, Abad-Garcia B, Sasia-Arriba A, Asensio-Regalado C, Dapena E, et al. Untargeted Metabolomic Liquid Chromatography High-Resolution Mass Spectrometry Fingerprinting of Apple Cultivars for the Identification of Biomarkers Related to Resistance to Rosy Apple Aphid. *J Agric Food Chem* 2022 October 19;;70(41):13071-13081.
- (16) Alonso-Salces RM, Berrueta LA, Quintanilla-Casas B, Vichi S, Tres A, Collado MI, et al. Stepwise strategy based on H-1-NMR fingerprinting in combination with chemometrics to determine the content of vegetable oils in olive oil mixtures. *Food Chem* 2022 JAN 1;366:130588.
- (17) Andonegi M, Correia DM, Costa CM, Lanceros-Mendez S, de la Caba K, Guerrero P. Tailoring physicochemical properties of collagen-based composites with ionic liquids and wool for advanced applications. *Polymer* 2022 JUN 14;252:124943.
- (18) Andrade del Olmo J, Maria Alonso J, Ronco-Campana A, Saez-Martinez V, Perez-Gonzalez R, Rothnie AJ, et al. Effectiveness of physicochemical techniques on the activation of Ti6Al4V surface with improved biocompatibility and antibacterial properties. *Surf Coat Technol* 2022 OCT 15;447:128821.
- (19) Andrade del Olmo J, Perez-Alvarez L, Saez Martinez V, Benito Cid S, Perez Gonzalez R, Luis Vilas-Vilela J, et al. Drug Delivery from Hyaluronic Acid-BDDE Injectable Hydrogels for Antibacterial and Anti-Inflammatory Applications. *Gels* 2022 APR;8(4):223.



- (20) Andrade-Sampedro P, Matxain JM, Correa A. Ru-Catalyzed C-H Hydroxylation of Tyrosine-Containing Di- and Tripeptides toward the Assembly of L-DOPA Derivatives. Advanced Synthesis & Catalysis 2022 JUN 21;364(12):2072-2079.
- (21) Angulo-Ibanez A, Perfecto-Irigaray M, Merino-Garcia I, Luengo N, Goitandia AM, Albo J, et al. Metal-organic aerogels based on titanium(IV) for visible-light conducted CO₂ photoreduction to alcohols. Materials Today Energy 2022 DEC;30:101178.
- (22) Anitua E, Zalduendo M, Troya M, Erezuma I, Lukin I, Hernaez-Moya R, et al. Composite alginate-gelatin hydrogels incorporating PRGF enhance human dental pulp cell adhesion, chemotaxis and proliferation. Int J Pharm 2022 APR 5;617:121631.
- (23) Aragon E, Montero-Ruiz I, Polzer ME, van Duivenvoorde W. Shipping metal: Characterisation and provenance study of the copper ingots from the Rochelongue underwater site (Seventh-Sixth century BC), West Languedoc, France. Journal of Archaeological Science-Reports 2022 FEB;41:103286.
- (24) Arbelaitz A, Txueka U, Mezo I, Orue A. Biocomposites Based on Poly(Lactic Acid) Matrix and Reinforced with Lignocellulosic Fibers: The Effect of Fiber Type and Matrix Modification. Journal of Natural Fibers 2022 JAN 2;19(1):1-14.
- (25) Arretxabaleta XM, Lopez-Zorrilla J, Labbez C, Etxebarria I, Manzano H. A potential C-S-H nucleation mechanism: atomistic simulations of the portlandite to C-S-H transformation. Cem Concr Res 2022 DEC;162:106965.
- (26) Argaiiz M, Aguirre M, Tomovska R. Emulsifier-free (meth)acrylic colloids stabilized by cationic monomer containing two charged moieties. Colloid and Interface Science Communications 2022 SEP;50:100659.
- (27) Arranz K, Urrutxurtu I, Navarro E. Elemental C and N balances evidence stoichiometric adjustments to dietary protein content in growth phenotypes of the Manila clam (*Ruditapes philippinarum*). Aquaculture 2022 JUN 30;555:738147.
- (28) Asensio G, Hernandez-Arriaga AM, Martin-del-Campo M, Prieto MA, Rojo L, Vazquez-Lasa B. A study on Sr/Zn phytate complexes: structural properties and antimicrobial synergistic effects against *Streptococcus mutans*. Scientific Reports 2022 NOV 23;12(1):20177.
- (29) Asensio Y, Marras S, Spirito D, Gobbi M, Ipatov M, Casanova F, et al. Magnetic Properties of Layered Hybrid Organic-Inorganic Metal-Halide Perovskites: Transition Metal, Organic Cation and Perovskite Phase Effects. Advanced Functional Materials 2022 DEC;32(51).



- (30) Asensio-Regalado C, Alonso-Salces RM, Gallo B, Berrueta LA, Era B, Pintus F, et al. Tempranillo Grape Extract in Transfersomes: A Nanoproduct with Antioxidant Activity. *Nanomaterials* 2022 MAR;12(5):746.
- (31) Asensio-Regalado C, Maria Alonso-Salces R, Gallo B, Berrueta LA, Porcedda C, Pintus F, et al. A Liposomal Formulation to Exploit the Bioactive Potential of an Extract from Graciano Grape Pomace. *Antioxidants* 2022 JUL;11(7):1270.
- (32) Aslibeiki B, Eskandarzadeh N, Jalili H, Varzaneh AG, Kameli P, Orue I, et al. Magnetic hyperthermia properties of CoFe₂O₄ nanoparticles: Effect of polymer coating and interparticle interactions. *Ceram Int* 2022 OCT 1;48(19):27995-28005.
- (33) Atxaeradio-Landa A, Arrieta-Gisasola A, Laorden L, Bikandi J, Garaizar J, Martinez-Malaxetxebarria I, et al. A Practical Bioinformatics Workflow for Routine Analysis of Bacterial WGS Data. *Microorganisms* 2022 DEC;10(12):2364.
- (34) Aziz A, Carrasco J. Modeling magnesium surfaces and their dissolution in an aqueous environment using an implicit solvent model. *J Chem Phys* 2022 MAY 7;156(17):174702.
- (35) Azpiazu-Muniozguren M, Garcia M, Laorden L, Martinez-Malaxetxebarria I, Seoane S, Bikandi J, et al. Anianabacter salinae gen. nov., sp. nov. ASV31(T), a Facultative Alkaliphilic and Extremely Halotolerant Bacterium Isolated from Brine of a Millennial Continental Saltern. *Diversity-Basel* 2022 NOV;14(11):1009.
- (36) Azuaje-Hualde E, de Pancorbo MM, Benito-Lopez F, Basabe-Desmonts L. Paper based microfluidic platform for single-step detection of mesenchymal stromal cells secreted VEGF. *Anal Chim Acta* 2022 MAR 22;1199:339588.
- (37) Barbarin I, Politakos N, Cantador LS, Cecilia JA, Sanz O, Tomovska R. Tailoring of Textural Properties of 3D Reduced Graphene Oxide Composite Monoliths by Using Highly Crosslinked Polymer Particles toward Improved CO₂ Sorption. *Acs Applied Polymer Materials* 2022 NOV 10;4(12):9065-9075.
- (38) Barbarin I, Politakos N, Serrano-Cantador L, Antonio Cecilia J, Sanz O, Tomovska R. Towards functionalized graphene/polymer monolithic structures for selective CO₂ capture. *Microporous and Mesoporous Materials* 2022 MAY;337:111907.
- (39) Barbosa JC, Correia DM, Fidalgo-Marijuan A, Goncalves R, Fernandes M, Bermudez VD, et al. Sustainable Lithium-Ion Battery Separators Based on Poly(3-Hydroxybutyrate-Co-Hydroxyvalerate) Pristine and Composite Electrospun Membranes. *ENERGY TECHNOLOGY* 2022 FEB;10(2).



- (40) Baroja U, Garin I, Vallejo N, Caro A, Ibanez C, Basso A, et al. Molecular assays to reliably detect and quantify predation on a forest pest in bats faeces. *Scientific Reports* 2022 FEB 10;12(1):2243.
- (41) Barra L, Sardo A, Moros M, Smerilli A, Chiaiese P, Percopo I, et al. Identification of a Green Algal Strain Collected from the Sarno River Mouth (Gulf of Naples, Italy) and Its Exploitation for Heavy Metal Remediation. *Microorganisms* 2022 DEC;10(12):2445.
- (42) Barrenetxe M, Agirre A, Santos J, I., Badia A, Leiza JR, Barquero A. Oil-Based versus Bio-Based C8 Alkyl Chain (Meth)Acrylates in Emulsion Polymerization: Kinetics and Microstructure. *Macromolecular Reaction Engineering* 2022 DEC;16(6):2200014.
- (43) Bayon-Cordero L, Ochoa-Bueno BI, Ruiz A, Ozalla M, Matute C, Sanchez-Gomez MV. GABA Receptor Agonists Protect From Excitotoxic Damage Induced by AMPA in Oligodendrocytes. *Frontiers in Pharmacology* 2022 JUL 26;13:897056.
- (44) Bello-Alvarez C, Etxeberria A, Polo Y, Sarasua J, Zuza E, Larranaga A. Lactide and Ethylene Brassyate-Based Thermoplastic Elastomers and Their Nanocomposites with Carbon Nanotubes: Synthesis, Mechanical Properties and Interaction with Astrocytes. *Polymers* 2022 NOV;14(21):4656.
- (45) Benedicto A, Arteta B, Duranti A, Alonso-Alconada D. The Synthetic Cannabinoid URB447 Exerts Antitumor and Antimetastatic Effect in Melanoma and Colon Cancer. *Pharmaceuticals* 2022 OCT;15(10):1166.
- (46) Bengoetxea de Tena I, Moreno-Rodriguez M, Llorente-Ovejero A, Monge-Benito S, Martinez-Gardeazabal J, Onandia-Hinchado I, et al. Handling and novel object recognition modulate fear response and endocannabinoid signaling in nucleus basalis magnocellularis. *Eur J Neurosci* 2022 MAR;55(6):1532-1546.
- (47) Beranoaguirre A, de Madinabeitia SG, Sanchez-Lorda ME, Puelles P, Abalos B, Gil-Ibarguchi JI. Geochemical dataset of high-pressure acid migmatites from the Cabo Ortegal Complex (NW Spain). *Data in Brief* 2022 FEB;40:107823.
- (48) Berganza LB, Litti L, Meneghetti M, Lanceros-Méndez S, Reguera J. Enhancement of Magnetic Surface-Enhanced Raman Scattering Detection by Tailoring Fe₃O₄@Au Nanorod Shell Thickness and Its Application in the On-site Detection of Antibiotics in Water. *ACS Omega* 2022;7(49):45493-45503.
- (49) Bermejo-Lopez A, Pereda-Ayo B, Gonzalez-Marcos JA, Gonzalez-Velasco CJR. Simulation-based optimization of cycle timing for CO₂ capture and hydrogenation with dual function catalyst. *Catalysis Today* 2022 JUL 1;394:314-324.
- (50) Bermejo-Lopez A, Pereda-Ayo B, Onrubia-Calvo JA, Gonzalez-Marcos JA, Gonzalez-Velasco JR. Aging studies on dual function materials Ru/Ni-Na/Ca-Al₂O₃ for



CO₂ adsorption and hydrogenation to CH₄. Journal of Environmental Chemical Engineering 2022 JUN;10(3):107951.

- (51) Bermejo-Lopez A, Pereda-Ayo B, Onrubia-Calvo JA, Gonzalez-Marcos JA, Gonzalez-Velasco JR. Tuning basicity of dual function materials widens operation temperature window for efficient CO₂ adsorption and hydrogenation to CH₄. Journal of Co₂ Utilization 2022 APR;58:101922.
- (52) Bilbao Y, Jose Trujillo J, Vicario I, Arruebarrena G, Hurtado I, Guraya T. X-ray Thermo-Diffraction Study of the Aluminum-Based Multicomponent Alloy Al58Zn28Si8Mg6. Materials 2022 JUL;15(14):5056.
- (53) Bilbao-Arribas M, Jugo BM. Transcriptomic meta-analysis reveals unannotated long non-coding RNAs related to the immune response in sheep. Frontiers in Genetics 2022 NOV 22;13:1067350.
- (54) Bimendra Gunatilake U, Alvarez-Brana Y, Ojeda E, Basabe-Desmonts L, Benito-Lopez F. Underwater magneto-driven air de-bubbler. Journal of Materials Chemistry a 2022 JUN 21;10(24):12832-12841.
- (55) Bimendra Gunatilake U, Morales R, Basabe-Desmonts L, Benito-Lopez F. Magneto Twister: Magneto Deformation of the Water-Air Interface by a Superhydrophobic Magnetic Nanoparticle Layer. Langmuir 2022 MAR 22;38(11):3360-3369.
- (56) Bizkarguenaga M, Gomez-Santos L, Francisco Madrid J, Jose Saez F, Alonso E. Zona Pellucida sperm-binding protein 3 receptor distribution during Gopc(--) globozoospermic spermatogenesis. Microsc Res Tech 2022 APR;85(4):1454-1464.
- (57) Blakelock E, Martinon-Torres M, Scull C. Early Medieval Copper-Alloy Metalworking at Rendlesham, Suffolk, England. Medieval Archaeology 2022 JUL 3;66(2):343-367.
- (58) Blazquez-Moraleja A, Maierhofer L, Mann E, Prieto-Montero R, Oliden-Sanchez A, Celada L, et al. Acetoxymethyl-BODIPY dyes: a universal platform for the fluorescent labeling of nucleophiles. Organic Chemistry Frontiers 2022 OCT 25;9(21):5774-5789.
- (59) Blyakhman FA, Safronov AP, Zubarev AY, Melnikov GY, Sokolov SY, Varga AL, et al. Mechanical Force Acting on Ferrogel in a Non-Uniform Magnetic Field: Measurements and Modeling. Micromachines 2022 AUG;13(8):1165.
- (60) Bonilla MR, Daza FAG, Cortes HA, Carrasco J, Akhmatskaya E. On the interfacial lithium dynamics in Li₇La₃Zr₂O₁₂:poly(ethylene oxide) (LiTFSI) composite polymer-ceramic solid electrolytes under strong polymer phase confinement. J Colloid Interface Sci 2022 OCT;623:870-882.



- (61) Boukha Z, Bermejo-Lopez A, Pereda-Ayo B, Gonzalez-Marcos JA, Gonzalez-Velasco JR. Study on the promotional effect of lanthana addition on the performance of hydroxyapatite-supported Ni catalysts for the CO₂ methanation reaction. *Applied Catalysis B-Environmental* 2022 OCT 5;314:121500.
- (62) Boukha Z, Gonzalez-Velasco JR, Gutierrez-Ortiz MA. Viability of Au/La₂O₃/HAP catalysts for the CO preferential oxidation reaction under reformate gas conditions. *Applied Catalysis B-Environmental* 2022 SEP 5;312:121384.
- (63) Bozal-Leorri A, Subbarao G, V., Kishii M, Urmeneta L, Kommerell V, Karwat H, et al. Biological nitrification inhibitor-trait enhances nitrogen uptake by suppressing nitrifier activity and improves ammonium assimilation in two elite wheat varieties. *Frontiers in Plant Science* 2022 NOV 11;13:1034219.
- (64) Brito-Pereira R, Ribeiro C, Lanceros-Mendez S, Cardoso VF. Biodegradable polymer-based microfluidic membranes for sustainable point-of-care devices. *Chem Eng J* 2022 NOV 15;448:137639.
- (65) Buron M, Palomares T, Garrido-Pascual P, Herrero de la Parte B, Garcia-Alonso I, Alonso-Varona A. Conditioned Medium from H₂O₂-Preconditioned Human Adipose-Derived Stem Cells Ameliorates UVB-Induced Damage to Human Dermal Fibroblasts. *Antioxidants* 2022 OCT;11(10):2011.
- (66) Calatayud-Sanchez A, Ortega-Gomez A, Barroso J, Zubia J, Benito-Lopez F, Villatoro J, et al. A method for the controllable fabrication of optical fiber-based localized surface plasmon resonance sensors. *Scientific Reports* 2022 JUN 10;12(1):9566.
- (67) Callejo LM, Ignacio Barbero J, Serna-Ruiz M, Eguizabal D, Fernandez Martinez R, Jimbert P, et al. New chromium steel grade for creep applications. *Materials Research Express* 2022 OCT 1;9(10):106509.
- (68) Calvo-Correas T, Benitez M, Larraza I, Ugarte L, Pena-Rodriguez C, Eceiza A. Advanced and traditional processing of thermoplastic polyurethane waste. *Polym Degrad Stab* 2022 APR;198:109880.
- (69) Camiruaga A, Saragi RT, Torres-Hernandez F, Juanes M, Usabiaga I, Lesarri A, et al. The evolution towards cyclic structures in the aggregation of aromatic alcohols: the dimer, trimer and tetramer of 2-phenylethanol. *Physical Chemistry Chemical Physics* 2022 OCT 19;24(40):24800-24809.
- (70) Camiruaga A, Usabiaga I, Calabrese C, Lamas I, Basterretxea FJ, Fernandez JA. Exploring the Influence of Intermolecular Interactions in Prebiotic Chemistry Using Laser Spectroscopy and Calculations. *Chemistry-a European Journal* 2022 JAN 3;28(1).



- (71) Cantero L, Salmeron J, Miranda J, Larretxi I, del Pilar Fernandez-Gil M, Angeles Bustamante M, et al. Performance of Apple Pomace for Gluten-Free Bread Manufacture: Effect on Physicochemical Characteristics and Nutritional Value. *Applied Sciences-Basel* 2022 JUN;12(12):5934.
- (72) Carral-Menoyo A, Sotomayor N, Lete E. Palladium-catalyzed oxidative arene C-H alkenylation reactions involving olefins. *Trends in Chemistry* 2022 JUN;4(6):495-511.
- (73) Carrasco J, Golov A. Enhancing first-principles simulations of complex solid-state ion conductors using topological analysis of procrystal electron density. *Npj Computational Materials* 2022 AUG 30;8(1):187.
- (74) Castellanos-Rubio I, Baron A, Luis-Lizarraga O, Rodrigo I, Gil de Muro I, Orue I, et al. Efficient Magneto-Luminescent Nanosystems based on Rhodamine- Loaded Magnetite Nanoparticles with Optimized Heating Power and Ideal Thermosensitive Fluorescence. *Acs Applied Materials & Interfaces* 2022 NOV 9;14(44):50033-50044.
- (75) Casula E, Manconi M, Belen Lopez-Mendez T, Luis Pedraz J, Calvo E, Lozano A, et al. Complementary effect of Zingiber officinalis extract and citral in counteracting non allergic nasal congestion by simultaneous loading in ad hoc formulated phospholipid vesicles. *Colloids and Surfaces B-Biointerfaces* 2022 JAN;209:112170.
- (76) Catalan-Carrio R, Saez J, Fernandez Cuadrado LA, Arana G, Basabe-Desmonts L, Benito-Lopez F. Ionogel-based hybrid polymer-paper handheld platform for nitrite and nitrate determination in water samples. *Anal Chim Acta* 2022 May 1;1205:339753.
- (77) Catalano S, Gomez-Perez JM, Aguilar-Pujol MX, Chuvilin A, Gobbi M, Hueso LE, et al. Spin Hall Magnetoresistance Effect from a Disordered Interface. *Acs Applied Materials & Interfaces* 2022 FEB 16;14(6):8598-8604.
- (78) Cepeda J, Blasco-Pascual I, Rojas S, Choquesillo-Lazarte D, Guerrero-Arroyo FJ, Morales DP, et al. Sensing Capacity in Dysprosium Metal-Organic Frameworks Based on 5-Aminoisophthalic Acid Ligand. *Sensors* 2022 MAY;22(9):3392.
- (79) Chen F, Melle-Franco M, Mateo-Alonso A. Planar and Helical Dinaphthophenazines. *J Org Chem* 2022 JUN 17;87(12):7635-7642.
- (80) Chizhik A, Corte-Leon P, Zhukova V, Gonzalez J, Zhukov A. MOKE studies of magnetic microwires with longitudinally distributed properties. *J Magn Magn Mater* 2022 APR 1;547:168824.
- (81) Choya A, de Rivas B, Gutierrez-Ortiz JI, Lopez-Fonseca R. Bulk Co₃O₄ for Methane Oxidation: Effect of the Synthesis Route on Physico-Chemical Properties and Catalytic Performance. *Catalysts* 2022 JAN;12(1):87.



- (82) Choya A, de Rivas B, Gutierrez-Ortiz J, I., Lopez-Fonseca R. On the Effect of the Synthesis Route of the Support in Co₃O₄/CeO₂ Catalysts for the Complete Oxidation of Methane. *Ind Eng Chem Res* 2022 DEC 14;61(49):17854-17865.
- (83) Choya A, de Rivas B, Ignacio Gutierrez-Ortiz J, Lopez-Fonseca R. Beneficial effects of nickel promoter on the efficiency of alumina-supported Co₃O₄ catalysts for lean methane oxidation. *Journal of Environmental Chemical Engineering* 2022 DEC;10(6):108816.
- (84) Choya A, Gudyka S, de Rivas B, Gutierrez-Ortiz JI, Kotarba A, Lopez-Fonscca R. Novel Ce-modified cobalt catalysts supported over a-Al₂O₃ open cell foams for lean methane oxidation. *Applied Catalysis A-General* 2022 FEB 25;632:118511.
- (85) Collavini S, Volker SF, Cabrera-Espinoza A, Martinez MA, De Cozar A, San Felices L, et al. Triarylamine Enriched Organostannoxane Drums: Synthesis, Optoelectrochemical Properties, Association Studies, and Gelation Behavior. *Inorg Chem* 2022 MAR 7;61(9):4046-4055.
- (86) Collier C, Muzzio N, Thevi Guntnur R, Gomez A, Redondo C, Zurbano R, et al. Wireless Force-Inducing Neuronal Stimulation Mediated by High Magnetic Moment Microdiscs. *Advanced Healthcare Materials* 2022 MAR;11(6):2101826.
- (87) Coloma L, Garcia-Florentino C, Huidobro J, Torre-Fdez I, Aramendia J, Arana G, et al. Development of non-destructive analytical strategies based on Raman spectroscopy and complementary techniques for Mars Sample Return tested on Northwest Africa 1950 Martian meteorite. *J Raman Spectrosc* 2022 DEC;53(12):2068-2085.
- (88) Colome N, Abian J, Aloria K, Arizmendi JM, Barcelo-Batllori S, Braga-Lagache S, et al. Multi-laboratory experiment PME11 for the standardization of phosphoproteome analysis. *Journal of Proteomics* 2022 JAN 16;251:104409.
- (89) Conde N, Herrero MT, Urquiza G, SanMartin R. Palladium-Catalyzed Domino Cycloisomerization/Double Condensation of Acetylenic Acids with Dinucleophiles. *Catalysts* 2022 FEB;12(2):127.
- (90) Conejo-Cuevas G, Ruiz-Rubio L, Saez-Martinez V, Perez-Gonzalez R, Gartziajuria O, Huguet-Casquier A, et al. Spontaneous Gelation of Adhesive Catechol Modified Hyaluronic Acid and Chitosan. *Polymers* 2022 MAR;14(6):1209.
- (91) Cordero-Lanzac T, Martinez C, Aguayo AT, Castano P, Bilbao J, Corma A. Activation of n-pentane while prolonging HZSM-5 catalyst lifetime during its combined reaction with methanol or dimethyl ether. *Catalysis Today* 2022;383:320-329.
- (92) Cordero-Lanzac T, Rodriguez-Cano MA, Palomo J, Valero-Romero MJ, Aguayo AT, Bilbao J, et al. Binderless ZrO₂/HZSM-5 fibrillar composites by electrospinning as



catalysts for the dimethyl ether-to-olefins process. *Microporous and Mesoporous Materials* 2022 AUG;342:112102.

(93) Cornu JY, Gutierrez M, Randriamamonjy S, Gaudin P, Ouedraogo F, Sourzac M, et al. Contrasting effects of siderophores pyoverdine and desferrioxamine B on the mobility of iron, aluminum, and copper in Cu-contaminated soils. *Geoderma* 2022 AUG 15;420:115897.

(94) Corte-Leon P, Zhukova V, Blanco JM, Chizhik A, Ipatov M, Gonzalez J, et al. Engineering of domain wall propagation in magnetic microwires with graded magnetic anisotropy. *Applied Materials Today* 2022 MAR;26:101263.

(95) Corte-Leon P, Zhukova V, Blanco JM, Ipatov M, Fert A, Gonzalez J, et al. Domain wall propagation in Fe-rich magnetic microwires with graded magnetic anisotropy. *Aip Advances* 2022 MAR 1;12(3):035228.

(96) Corte-Leon P, Zhukova V, Blanco JM, Irigaray A, Gonzalez A, Ipatov M, et al. Graded magnetic anisotropy in Co-rich microwires. *Aip Advances* 2022 MAR 1;12(3):035215.

(97) Cortina M, Arrizubieta JI, Lamikiz A, Ukar E. Impact of cutting fluid on hybrid manufacturing of AISI H13 tool steel. *Rapid Prototyping Journal* 2022 MAY 5;28(5):933-944.

(98) Costa P, Policia R, Perinka N, Alesanco Y, Vinuales A, Carvalho EO, et al. Multifunctional Touch Sensing and Antibacterial Polymer-Based Core-Shell Metallic Nanowire Composites for High Traffic Surfaces. *Advanced Materials Technologies* 2022 OCT;7(10):2101575.

(99) De Bolos E, Martinez-Abadia M, Hernandez-Culebras F, Haymaker A, Swain K, Strutynski K, et al. A Crystalline 1D Dynamic Covalent Polymer. *J Am Chem Soc* 2022 AUG 31;144(34):15443-15450.

(100) de Cozar A. Diastereoselectivity on Intramolecular Alder-ene Reaction of 1,6-Dienes. *Chemphyschem* 2022 DEC 5;23(23):e202200377.

(101) de la Encarnacion C, Lenzi E, Henriksen-Lacey M, Molina B, Jenkinson K, Herrero A, et al. Hybrid Magnetic-Plasmonic Nanoparticle Probes for Multimodal Bioimaging. *Journal of Physical Chemistry C* 2022 NOV 17;126(45):19519-19531.

(102) De la Pena M, Marin-Pena AJ, Urmeneta L, Coleto I, Castillo-Gonzalez J, van Liempd SM, et al. Ammonium nutrition interacts with iron homeostasis in *Brachypodium distachyon*. *J Exp Bot* 2022 JAN;73(1):263-274.



- (103) de Lugo Enrich LB, Aranda Jimenez G, Gutierrez Saez C, Fuentes Sanchez JL, Herranz Redondo AM, Mederos Martin A, et al. An Argaric halberd of the motilla de El Retamar (Argamasilla de Alba, Ciudad Real): context, dating, metallurgical analysis, provenance and interpretation. *Complutum* 2022;33(1):93-119.
- (104) de Luzuriaga IO, Sanchez-Gonzalez A, Synoradzki W, Lopez X, Gil A. Unravelling the binding affinity and selectivity of molybdenum(ii) phenanthroline complexes with DNA G-quadruplexes by using linear-scaling DFT studies. The important role of ancillary ligands. *Physical Chemistry Chemical Physics* 2022 NOV 2;24(42):25918-25929.
- (105) del Corte X, Lopez-Frances A, Villate-Beitia I, Sainz-Ramos M, Martinez de Marigorta E, Palacios F, et al. Multicomponent Synthesis of Unsaturated gamma-Lactam Derivatives. Applications as Antiproliferative Agents through the Bioisosterism Approach: Carbonyl vs. Phosphoryl Group. *Pharmaceuticals* 2022 MAY;15(5):511.
- (106) del Corte X, Maestro A, Lopez-Frances A, Palacios F, Vicario J. Synthesis of Tetrasubstituted Phosphorus Analogs of Aspartic Acid as Antiproliferative Agents. *Molecules* 2022 NOV;27(22):8024.
- (107) Del Molino E, Arribas Telleria M, Gilliams C, Arlazarov A, Jesus Gonzalez J, De Moor E, et al. Influence of Ni and Process Parameters in Medium Mn Steels Heat Treated by High Partitioning Temperature Q&P Cycles. *Metallurgical and Materials Transactions A-Physical Metallurgy and Materials Science* 2022 NOV;53(11):3937-3955.
- (108) del Olmo JA, Alonso JM, Saez-Martinez V, Benito-Cid S, Moreno-Benitez I, Bengoa-Larrauri M, et al. Self-healing, antibacterial and anti-inflammatory chitosan-PEG hydrogels for ulcerated skin wound healing and drug delivery. *Biomaterials Advances* 2022 AUG;139:212992.
- (109) del Olmo JA, Perez Alvarez L, Saez-Martinez V, Benito-Cid S, Ruiz-Rubio L, Perez-Gonzalez R, et al. Wound healing and antibacterial chitosan-genipin hydrogels with controlled drug delivery for synergistic anti-inflammatory activity. *Int J Biol Macromol* 2022 APR 1;203:679-694.
- (110) del Rio-Lavin A, Weber J, Molkentin J, Jimenez E, Artetxe-Arrate I, Pardo MA. Stable isotope and trace element analysis for tracing the geographical origin of the Mediterranean mussel (*Mytilus galloprovincialis*) in food authentication. *Food Control* 2022 SEP;139:109069.
- (111) Delgado R, Nunez-Gonzalez JD. Bayesian network-based over-sampling method (BOSME) with application to indirect cost-sensitive learning. *Scientific Reports* 2022 MAY 24;12(1):8724.



- (112) Del-Rio L, No ML, Sota A, Perez-Casero I, Gomez-Cortes JF, Perez-Cerrato M, et al. Internal friction associated with ? martensite in shape memory steels produced by casting route and through additive manufacturing: Influence of thermal cycling on the martensitic transformation. *J Alloys Compounds* 2022 OCT 25;919:165806.
- (113) Destephen A, de San Roman EG, Ballard N. The influence of thiocarbonylthio compounds on the B(C₆F₅)₃ catalyzed cationic polymerization of styrene. *Polymer Chemistry* 2022 MAR 22;13(12):1739-1750.
- (114) Diarce G, Rojo A, Quant L, Bouzas L, Garcia-Romero A. Thermal endurance of xylitol as a phase change material for thermal energy storage applications. *Journal of Energy Storage* 2022 NOV 25;55:105717.
- (115) Diaz de Sarralde J, Astobieta E, Sevilla A, Rincon Y, Teresa Herrero M, Urgoiti G, et al. Iron-catalyzed cascade synthesis of nitrogen polycycles from alkynoic acids and functionalized amines. *Environmental Chemistry Letters* 2022 DEC;20(6):3421-3427.
- (116) Diaz E, Leon J, Murillo-Marrodan A, Ribeiro S, Lanceros-Mendez S. Influence of rGO on the Crystallization Kinetics, Cytotoxicity, and Electrical and Mechanical Properties of Poly (L-lactide-co-epsilon-caprolactone) Scaffolds. *Materials* 2022 NOV;15(21):7436.
- (117) Diaz E, Mendivil A, Leon J. Crystallization Behavior and Morphology of Biodegradable Poly(epsilon-caprolactone)/Reduced Graphene Oxide Scaffolds. *Biomimetics* 2022 SEP;7(3):116.
- (118) Do Nascimento AMM, Montalban IA, Llamazares De Miguel D, Goicoa T, Ugarte MD, Moncalean P. High temperature and water deficit cause epigenetic changes in somatic plants of *Pinus radiata* D. Don. *Plant Cell Tissue and Organ Culture* 2022 OCT;151(1):107-121.
- (119) Dubey RK, Melle-Franco M, Mateo-Alonso A. Inducing Single-Handed Helicity in a Twisted Molecular Nanoribbon. *J Am Chem Soc* 2022 FEB 16;144(6):2765-2774.
- (120) Duque A, Grau J, Beneke JL, Alonso RM, Campanero MA, Chisvert A. Low toxicity deep eutectic solvent-based ferrofluid for the determination of UV filters in environmental waters by stir bar dispersive liquid microextraction. *Talanta* 2022 JUN 1;243:123378.
- (121) Duque-Redondo E, Bonnaud PA, Manzano H. A comprehensive review of C-S-H empirical and computational models, their applications, and practical aspects. *Cem Concr Res* 2022 JUN;156:106784.

- (122) Duque-Redondo E, Masoero E, Manzano H. Nanoscale shear cohesion between cement hydrates: The role of water diffusivity under structural and electrostatic confinement. *Cem Concr Res* 2022 APR;154:106716.
- (123) Echeazarra L, Barrondo S, Del Cano GG, Bonilla-Del Rio I, Egana-Huguet J, Puente N, et al. Up-regulation of CB1 cannabinoid receptors located at glutamatergic terminals in the medial prefrontal cortex of the obese Zucker rat. *Frontiers in Neuroanatomy* 2022 OCT 18;16:1004702.
- (124) Echenique-Errandonea E, Mendes RF, Figueira F, Choquesillo-Lazarte D, Beobide G, Cepeda J, et al. Multifunctional Lanthanide-Based Metal-Organic Frameworks Derived from 3-Amino-4-hydroxybenzoate: Single-Molecule Magnet Behavior, Luminescent Properties for Thermometry, and CO₂ Adsorptive Capacity. *Inorg Chem* 2022 AUG 22;61(33):12977-12990.
- (125) Echenique-Errandonea E, Mendes RF, Figueira F, Barbosa P, Rojas S, Choquesillo-Lazarte D, et al. Easy Handling and Cost-Efficient Processing of a Tb³⁺-MOF: The Emissive Capacity of the Membrane-Immobilized Material, Water Vapour Adsorption and Proton Conductivity. *Nanomaterials* 2022 DEC;12(24):4380.
- (126) Echenique-Errandonea E, Rojas S, Abdelkader-Fernandez VK, Perez-Mendoza M, Mendes RF, Barbosa P, et al. Adsorptive Capacity, Inhibitory Activity and Processing Techniques for a Copper-MOF Based on the 3,4-Dihydroxybenzoate Ligand. *Molecules* 2022 NOV;27(22):8073.
- (127) Echeverria-Altuna O, Ollo O, Larraza I, Gabilondo N, Harismendy I, Eceiza A. Effect of the biobased polyols chemical structure on high performance thermoset polyurethane properties. *Polymer* 2022 DEC 16;263:125515.
- (128) Echeverria-Altuna O, Ollo O, Calvo-Correas T, Harismendy I, Eceiza A. Effect of the catalyst system on the reactivity of a polyurethane resin system for RTM manufacturing of structural composites. *Express Polymer Letters* 2022 MAR;16(3):234-247.
- (129) Echeverria-Altuna O, Ollo O, Larraza I, Elizetxea C, Harismendy I, Eceiza A. Development of a Novel Biobased Polyurethane Resin System for Structural Composites. *Polymers* 2022 NOV;14(21):4553.
- (130) Elejoste A, Luis Osa J, Arevalillo-Roman A, Eceiza A, Miguel Abascal J, Miguel Rico-Martinez J, et al. Mechanical Properties of Three Bamboo Species: Effect of External Climatic Conditions and Fungal Infestation in Laboratory Conditions. *Forests* 2022 DEC;13(12):2084.
- (131) Espino M, Eguiraun H, Diaz de Cerio O, Carrero JA, Etxebarria N, Martinez I. Antioxidant Activities and Selenogene Transcription in the European Sea Bass



(Dicentrarchus labrax) Liver Depend, in a Non-linear Manner, on the Se/Hg Molar Ratio of the Feeds. *Biol Trace Elel Res* 2022 MAY;200(5):2365-2379.

(132) Etxeberria L, Anakabe J, Fernandez L, Larranaga-Varga A, Vilas-Vilela JL, Ruiz-Rubio L, et al. Crystallization behaviour analysis of norbornene based semicrystalline cyclic olefin copolymer (c-COC) for Point-of-care (PoC) device manufacturing. *European Polymer Journal* 2022 AUG 15;177:111422.

(133) Fadeev FA, Blyakhman FA, Safronov AP, Melnikov GY, Nikanorova AD, Novoselova IP, et al. Biological Impact of gamma-Fe₂O₃ Magnetic Nanoparticles Obtained by Laser Target Evaporation: Focus on Magnetic Biosensor Applications. *Biosensors-Basel* 2022 AUG;12(8):627.

(134) Faouziya H, Pilar M, Francisco MJ, Francisco L, Abdellah M, Mustapha C, et al. Meso-Archean to Mid-Paleozoic Granitoids in Oulad Dlim Massif (the Pericratonic Terrane of the Reguibat Shield, West African Craton, Morocco): Petrology, Geochemistry, Geochronology and Geological Implications. *Journal of Earth Science* 2022 OCT;33(5):1152-1165.

(135) Fenni SE, Rosaria Caputo M, Muller AJ, Cavallo D. Surface Roughness Enhances Self-Nucleation of High-Density Polyethylene Droplets Dispersed within Immiscible Blends. *Macromolecules* 2022 FEB 22;55(4):1412-1423.

(136) Fernandes LC, Meira RM, Correia DM, Ribeiro C, Fernandez E, Tubio CR, et al. Electrospun Magnetic Ionic Liquid Based Electroactive Materials for Tissue Engineering Applications. *Nanomaterials* 2022 SEP;12(17):3072.

(137) Fernandez-d'Arlas B, Arteaga AG, Saralegi A, Corcuera MA, Eceiza A, Muller AJ. Self-assembly and crystallization of double crystalline aliphatic thermoplastic biopolyurethane and its nucleation with cellulose nanocrystals. *Polymer* 2022 FEB 15;241:124521.

(138) Fernandez-Marin R, Fernandes SCM, Sanchez MAA, Labidi J. Halochromic and antioxidant capacity of smart films of chitosan/chitin nanocrystals with curcuma oil and anthocyanins. *Food Hydrocoll* 2022 FEB;123:107119.

(139) Fernandez-Remacha D, Gonzalez-Riancho C, Lastra Osua M, Gonzalez Arce A, Montanchez I, Maria Garcia-Lobo J, et al. Analysis of laccase-like enzymes secreted by fungi isolated from a cave in northern Spain. *Microbiologyopen* 2022 APR;11(2):e1279.

(140) Ferro Uriguén A, Beobide Tellería I, Martínez Arrechea S, Miro Isasi B, Sampedro Yanguela C, Urretavizcaya Anton M. Determination of the cross-contamination and validation of the cleaning process for an automated personalised dosing system. *European Journal of Hospital Pharmacy* 2022 MAY;29(3):157-163.



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- (141) Fraga N, Benito D, Briadeau T, Izagirre U, Ruiz P. Toxicopathic effects of lithium in mussels. Chemosphere 2022 NOV;307:136022.
- (142) Fresneda O, Abad-Garcia B, Rueda Y. Tri-Reagent Homogenate Is a Suitable Starting Material for UHPLC-MS Lipidomic Analysis. Separations 2022 OCT;9(10):268.
- (143) Fuertes M, Selas A, Trejo A, Knudsen BR, Palacios F, Alonso C. Synthesis of hybrid phosphorated indenoquinolines and biological evaluation as topoisomerase I inhibitors and antiproliferative agents. Bioorg Med Chem Lett 2022 FEB 1;57:128517.
- (144) Fusi GM, Lim Z, Lindell SD, Gomez-Bengoa E, Gordon MR, Gazzola S. 2-and 6-Purinylmagnesium Halides in Dichloromethane: Scope and New Insights into the Solvent Influence on the C-Mg Bond. European Journal of Organic Chemistry 2022 FEB 18;2022(7):e202101009.
- (145) Fz-Retana-Amescua P, Aramendia I, Ballesteros-Coll A, Fernandez-Gamiz U, Bidaguren I, Blanco Ilzarbe JM. Numerical study of high lift devices to improve airfoil aerodynamic performance. Energy Sources Part A-Recovery Utilization and Environmental Effects 2022 DEC 21;44(4):9135-9155.
- (146) Galarreta-Rodriguez I, Marcano L, Castellanos-Rubio I, Gil de Muro I, Garcia I, Olivi L, et al. Towards the design of contrast-enhanced agents: systematic Ga³⁺ doping on magnetite nanoparticles. Dalton Transactions 2022 FEB 8;51(6):2517-2530.
- (147) Galasso C, Lekube X, Cancio I, Dell'Anno A, Brunet C, Sansone C, et al. Marine Fungi as Potential Eco-Sustainable Resource for Precious Metals Recovery from Electronic Waste. WASTE AND BIOMASS VALORIZATION 2022 FEB;13(2):967-976.
- (148) Gallastegui A, Camara O, Minudri D, Goujon N, Patil N, Ruiperez F, et al. Aging Effect of Catechol Redox Polymer Nanoparticles for Hybrid Supercapacitors. Batteries & Supercaps 2022 SEP;5(9):e202200155.
- (149) Gallastegui A, Dominguez-Alfaro A, Lezama L, Alegret N, Prato M, Gomez ML, et al. Fast Visible-Light Photopolymerization in the Presence of Multiwalled Carbon Nanotubes: Toward 3D Printing Conducting Nanocomposites. Acs Macro Letters 2022 MAR 15;11(3):303-309.
- (150) Gallego-Cartagena E, Morillas H, Morgado-Gamero W, Fuentes-Gandara F, Vacca-Jimeno V, Salcedo I, et al. Elemental imaging approach to assess the ability of subaerial biofilms growing on constructions located in tropical climates as potential biomonitor of atmospheric heavy metals pollution. Chemosphere 2022 DEC;309:136743.

- (151) Garcia Diez A, Rial Tubio C, Gomez A, Berastegi J, Mounir Bou-Ali M, Etxebarria JG, et al. Tuning magnetorheological functional response of thermoplastic elastomers by varying soft-magnetic nanofillers. *Polym Adv Technol* 2022 AUG;33(8):2610-2619.
- (152) Garcia A, Rodriguez B, Rosales M, Quintero YM, Saiz PG, Reizabal A, et al. A State-of-the-Art of Metal-Organic Frameworks for Chromium Photoreduction vs. Photocatalytic Water Remediation. *Nanomaterials* 2022 DEC;12(23):4263.
- (153) Garcia-Arnaez I, Romero-Gavilan F, Cerqueira A, Elortza F, Azkargorta M, Munoz F, et al. Correlation between biological responses in vitro and in vivo to Ca-doped sol-gel coatings assessed using proteomic analysis. *Colloids and Surfaces B-Biointerfaces* 2022 DEC;220:112962.
- (154) Garcia-Gomez N, Valecillos J, Valle B, Remiro A, Bilbao J, Gayubo AG. Combined effect of bio-oil composition and temperature on the stability of Ni spinel derived catalyst for hydrogen production by steam reforming. *Fuel* 2022 OCT 15;326:124966.
- (155) Garcia-Hidalgo JF, Elorza J. Facies model, cementation and sedimentary evolution of a 20th-century beach and beachrock: The Gorrondatxe wave and tidal coastal system (NE Spain). *Sediment Geol* 2022 DEC;442:106291.
- (156) Garcia-Orue I, Santos-Vizcaino E, Sanchez P, Borja Gutierrez F, Javier Aguirre J, Maria Hernandez R, et al. Bioactive and degradable hydrogel based on human platelet-rich plasma fibrin matrix combined with oxidized alginate in a diabetic mice wound healing model. *Biomaterials Advances* 2022 APR;135:112695.
- (157) Garcia-Roa R, Dominguez-Santos R, Perez-Brocal V, Amparo Latorre AM, Carazo P, Moya A, et al. Kin recognition in *Drosophila*: rearing environment and relatedness can modulate gut microbiota and cuticular hydrocarbon odour profiles. *Oikos* 2022 APR;2022(4).
- (158) Garcia-Urkia N, Luzuriaga J, Uribe-Etxebarria V, Irastorza I, Fernandez-San-Argimiro FJ, Olalde B, et al. Enhanced Adipogenic Differentiation of Human Dental Pulp Stem Cells in Enzymatically Decellularized Adipose Tissue Solid Foams. *Biology-Basel* 2022 AUG;11(8):1099.
- (159) Garrido-Pena R, Flores Fernandez R, Herrero-Corral AM, Munoz Moro P, Gutierrez Saez C, Paulos-Bravo R. Atlantic Halberds as Bell Beaker Weapons in Iberia: Tomb 1 of Humanos (Parla, Madrid, Spain). *Oxford Journal of Archaeology* 2022 AUG;41(3):252-277.
- (160) Gavina D, Escolano M, Rabasa-Alcaniz F, Diaz-Oltra S, Sanchez-Rosello M, del Pozo C. Tandem Asymmetric Cycloaromatization/ Intramolecular Pictet-Spengler-Type



Reaction. An Entry to Polycyclic Pyrroles. Advanced Synthesis & Catalysis 2022 SEP 6;364(17):2982-2988.

- (161) Goicolea MA, Gomez-Caballero A, Saumell-Esnaola M, del Can GG, Unceta N, Salles J, et al. A linear-polymer-based lactoferrin-selective recognition element for an ELISA mimic: A proof of concept. Anal Chim Acta 2022 JAN 25;1191:339309.
- (162) Gomez-Hermoso-de-Mendoza J, Kortaberria G, Gutierrez J, Tercjak A. Competition between polycrystalline morphology and microphase separation in blends based on cellulose triacetate. Polym Degrad Stab 2022 OCT;204:110093.
- (163) Gomez-Lopez A, Ayensa N, Grignard B, Irusta L, Calvo I, Muller AJ, et al. Enhanced and Reusable Poly(hydroxy urethane)-Based Low Temperature Hot-Melt Adhesives. Acs Polymers Au 2022 JUN 8;2(3):194-207.
- (164) Gomez-Lopez A, Grignard B, Calvo I, Detrembleur C, Sardon H. Accelerating the Curing of Hybrid Poly(Hydroxy Urethane)-Epox y Adhesives by the Thiol-Epoxy Chemistry. Acs Applied Polymer Materials 2022 DEC 9;4(12):8786-8794.
- (165) Gonzalez Moreno A, de Cozar A, Prieto P, Dominguez E, Heredia A. Radiationless mechanism of UV deactivation by cuticle phenolics in plants. Nature Communications 2022 APR 4;13(1):1786.
- (166) Gonzalez A, Zhukova V, Corte-Leon P, Chizhik A, Ipatov M, Blanco JM, et al. Tuning of Magnetoimpedance Effect and Magnetic Properties of Fe-Rich Glass-Coated Microwires by Joule Heating. Sensors 2022 FEB;22(3):1053.
- (167) Gonzalez K, Larraza I, Berra G, Eceiza A, Gabilondo N. 3D printing of customized all-starch tablets with combined release kinetics. Int J Pharm 2022 JUN 25;622:121872.
- (168) Gonzalez-Pujana A, Carranza T, Santos-Vizcaino E, Igartua M, Guerrero P, Hernandez RM, et al. Hybrid 3D Printed and Electrospun Multi-Scale Hierarchical Polycaprolactone Scaffolds to Induce Bone Differentiation. Pharmaceutics 2022 DEC;14(12):2843.
- (169) Gonzalez-Soto N, Campos L, Navarro E, Bilbao E, Guilhermino L, Cajaraville MP. Effects of microplastics alone or with sorbed oil compounds from the water accommodated fraction of a North Sea crude oil on marine mussels (*Mytilus galloprovincialis*). Sci Total Environ 2022 DEC 10;851:157999.
- (170) Gorrochategui-Ortega J, Munoz-Colmenero M, Kovacic M, Filipi J, Puskadija Z, Kezic N, et al. A short exposure to a semi-natural habitat alleviates the honey bee hive microbial imbalance caused by agricultural stress. Scientific Reports 2022 NOV 6;12(1):18832.



- (171) Guerrero F, De la Flor S, Ramis X, Santos J, Serra A. Novel hybrid organic/inorganic poly(thiourethane) covalent adaptable networks. *European Polymer Journal* 2022 JUL 5;174:111337.
- (172) Gunatilake UB, Venkatesan M, Basabe-Desmonts L, Benito-Lopez F. Ex situ and in situ Magnetic Phase Synthesised Magneto-Driven Alginate Beads. *J Colloid Interface Sci* 2022 MAR 15;610:741-750.
- (173) Gutierrez-Fernandez E, Scaccabarozzi AD, Basu A, Solano E, Anthopoulos TD, Martin J. Y6 Organic Thin-Film Transistors with Electron Mobilities of 2.4 cm² V⁻¹ s⁻¹ via Microstructural Tuning. *Advanced Science* 2022 JAN;9(1):2104977.
- (174) Guzman I, Altieri P, Elosegi A, Victoria Perez-Calpe A, von Schiller D, Gonzalez JM, et al. Water diversion and pollution interactively shape freshwater food webs through bottom-up mechanisms. *Global Change Biol* 2022 FEB;28(3):859-876.
- (175) Hafez T, Ortiz-Zarragoitia M, Cagnon C, Cravo-Laureau C, Duran R. Legacy and dispersant influence microbial community dynamics in cold seawater contaminated by crude oil water accommodated fractions. *Environ Res* 2022 SEP;212:113467.
- (176) Hamzehlou S, Ruiperez F. Computational study of the transamination reaction in vinylogous acyls: Paving the way to design vitrimers with controlled exchange kinetics. *Journal of Polymer Science* 2022 JUL 1;60(13):1988-1999.
- (177) Hernaez-Estrada B, Gonzalez-Pujana A, Cuevas A, Izeta A, Spiller KLL, Igartua M, et al. Human Hair Follicle-Derived Mesenchymal Stromal Cells from the Lower Dermal Sheath as a Competitive Alternative for Immunomodulation. *Biomedicines* 2022 FEB;10(2):253.
- (178) Hernandez-Castillo AO, Calabrese C, Fritz SM, Uriarte I, Cocinero EJ, Zwier TS. Bond Length Alternation and Internal Dynamics in Model Aromatic Substituents of Lignin. *Chemphyschem* 2022 MAR 18;23(6):e202100808.
- (179) Hernandez-Culebras F, Melle-Franco M, Mateo-Alonso A. Doubling the Length of the Longest Pyrene-Pyrazinoquinoxaline Molecular Nanoribbons. *Angewandte Chemie-International Edition* 2022 JUL 4;61(27):e202205018.
- (180) Hernando S, Nikolakopoulou P, Voulgaris D, Hernandez RM, Igartua M, Herland A. Dual effect of TAT functionalized DHAH lipid nanoparticles with neurotrophic factors in human BBB and microglia cultures. *Fluids and Barriers of the Cns* 2022 MAR 17;19(1):22.
- (181) Herrero A, Oleaga A, Aseguinolaza IR, Garcia-Adeva AJ, Apinaniz E, Garshev AV, et al. Tailoring the magnetocaloric, magnetic and thermal properties of Dy₆(Fe,Mn)X₂ intermetallics (X=Sb, Te, Bi). *J Alloys Compounds* 2022 JAN 15;890.



- (182) Hosseinpourpia R, Eceiza A, Adamopoulos S. Polyurethane Wood Adhesives Prepared from Modified Polysaccharides. *Polymers* 2022 FEB;14(3):539.
- (183) Huizi-Rayo U, Gastearena X, Ortuno AM, Cuerva JM, Rodriguez-Dieguez A, Garcia JA, et al. Influence of Tartrate Ligand Coordination over Luminescence Properties of Chiral Lanthanide-Based Metal-Organic Frameworks. *Nanomaterials* 2022 NOV;12(22):3999.
- (184) Ibarra-Lecue I, Unzueta-Larrinaga P, Barrena-Barbadillo R, Villate A, Horrillo I, Mendivil B, et al. Cannabis use selectively modulates circulating biomarkers in the blood of schizophrenia patients. *Addict Biol* 2022 NOV;27(6):e13233.
- (185) Ibarretxe J, Alonso L, Aranburu N, Guerrica-Echevarria G, Orbea A, Iturroundobeitia M. Sustainable PHBH-Alumina Nanowire Nanocomposites: Properties and Life Cycle Assessment. *Polymers* 2022 NOV;14(22):5033.
- (186) Iglesias-Vazquez S, Valecillos J, Remiro A, Bilbao J, Guadalupe Gayubo A. Stability of a NiAl₂O₄ Derived Catalyst in the Ethanol Steam Reforming in Reaction-Regeneration Cycles: Effect of Reduction Temperature. *Catalysts* 2022 MAY;12(5):550.
- (187) Ilin AM, van der Graaf CM, Yusta I, Sorrentino A, Sanchez-Andrea I, Sanchez-Espana J. Glycerol amendment enhances biosulfidogenesis in acid mine drainage-affected areas: An incubation column experiment. *Frontiers in Bioengineering and Biotechnology* 2022 AUG 29;10:978728.
- (188) Irigoyen M, Matxain JM, Ruiperez F. Combined DFT and MD Simulation Protocol to Characterize Self-Healing Properties in Disulfide-Containing Materials: Polyurethanes and Polymethacrylates as Case Studies. *Frontiers in Materials* 2022 MAR 21;9:859482.
- (189) Irizar P, Irto A, Martinez-Arkarazo I, Olazabal MA, Cardiano P, Gomez-Laserna O. Sugar-derived bio-based resins as platforms for the development of multifunctional hybrids with potential application for stone conservation. *Materials Today Communications* 2022 JUN;31:103662.
- (190) Izaddoust S, Hita I, Zambrano N, Trueba D, Palos R, Zhang W, et al. Fuel production via catalytic cracking of pre-hydrotreated heavy-fuel oil generated by marine-transport operations. *Fuel* 2022 OCT 1;325:124765.
- (191) Jefremovas EM, Gandarias L, Marcano L, Gacia-Prieto A, Orue I, Muela A, et al. Modifying the magnetic response of magnetotactic bacteria: incorporation of Gd and Tb ions into the magnetosome structure. *Nanoscale Advances* 2022 JUN 14;4(12):2649-2659.



- (192) Jimenez N, Ruiperez F, de San Roman EG, Asua JM, Ballard N. Fundamental Insights into Free-Radical Polymerization in the Presence of Catechols and Catechol-Functionalized Monomers. *Macromolecules* 2022 JAN 11;55(1):49-64.
- (193) Jimenez-Aberasturi X, Palacios F, de Los Santos JM. Sc(OTf)(3)-Mediated [4+2] Annulations of N-Carbonyl Aryldiazenes with Cyclopentadiene to Construct Cinnoline Derivatives: Azo-Povarov Reaction. *J Org Chem* 2022 SEP 2;87(17):11583-11592.
- (194) Juan JMS, Gomez-Cortes JF, No ML. Ultra-high mechanical damping during superelastic bending of micro pillars and micro beams in Cu-Al-Ni shape memory alloys. *J Alloys Compounds* 2022 DEC 25;929:167307.
- (195) Julian Esteban J, Cuevas J, Maria Tubia J. Peri-Gondwanan Provenance and Geodynamic Evolution of The Guadaiza Nappe (Alpujarride Complex, Betic Cordilleras, Spain): Insights on The Paleotethyan Paleogeography. *Minerals* 2022 MAR;12(3):325.
- (196) Kaltzakorta I, Gutierrez T, Elvira R, Jimbert P, Guraya T. Manufacturing and forging issues encountered while upscaling 1.3C30Mn10Al-austenitic and 0.65C12Mn-duplex low-density steels. *Mater Manuf Process* 2022 JAN 2;37(1):43-54.
- (197) Khokhlova A, Gudnitz MN, Ferriol P, Tejada S, Sureda A, Pinya S, et al. Epiphytic foraminifers as indicators of heavy-metal pollution in *Posidonia oceanica* seagrass meadows. *Ecol Ind* 2022 JUL;140:109006.
- (198) Kurlyandskaya G, V., Lezama L, Pasynkova AA, Volchkov SO, Lukshina VA, Larranaga A, et al. Amorphous FeCoCrSiB Ribbons with Tailored Anisotropy for the Development of Magnetic Elements for High Frequency Applications. *Materials* 2022 JUN;15(12):4160.
- (199) La Duc E, Montero-Ruiz I, Freestone IC, Lorras JF, Jabalquinto Exposito IM, Martin de la Cruz JC, et al. Diverse strategies for copper production in Chalcolithic Iberia. *Journal of Archaeological Science-Reports* 2022 DEC;46:103683.
- (200) Lachowicz J, I., Mateddu A, Coni P, Caltagirone C, Murgia S, Gibson D, et al. Study of the DNA binding mechanism and in vitro activity against cancer cells of iron(iii) and aluminium(iii) kojic acid derivative complexes. *Dalton Transactions* .
- (201) Landa L, Remiro A, Valecillos J, Valle B, Bilbao J. Unveiling the deactivation by coke of NiAl₂O₄ spinel derived catalysts in the bio-oil steam reforming: Role of individual oxygenates. *Fuel* 2022 AUG 1;321:124009.
- (202) Lanuza J, Postils V, Lopez X. Can aluminum, a non-redox metal, alter the thermodynamics of key biological redox processes? The DPPH-QH(2) radical scavenging reaction as a test case. *Free Radical Biology and Medicine* 2022 FEB 1;179:200-207.



- (203) Larraza I, Vadillo J, Calvo-Correas T, Tejado A, Martin L, Arbelaitz A, et al. Effect of Cellulose Nanofibers' Structure and Incorporation Route in Waterborne Polyurethane-Urea Based Nanocomposite Inks. *Polymers* 2022 NOV;14(21):4516.
- (204) L'Ecuyer P, Marion P, Godin M, Puchhammer F. A Tool for Custom Construction of QMC and RQMC Point Sets. *Monte Carlo and Quasi-Monte Carlo Methods, Mcqmc* 2020 2022;387:51-70.
- (205) L'Ecuyer P, Puchhammer F. Density Estimation by Monte Carlo and Quasi-Monte Carlo. *Monte Carlo and Quasi-Monte Carlo Methods, Mcqmc* 2020 2022;387:3-21.
- (206) L'Ecuyer P, Puchhammer F, Ben Abdellah A. Monte Carlo and Quasi-Monte Carlo Density Estimation via Conditioning. *Informs Journal on Computing*.
- (207) Leguinagoicoa N, Albizuri J, Larranaga A. Fatigue improvement and residual stress relaxation of shot-peened alloy steel DIN 34CrNiMo6 under axial loading. *Int J Fatigue* 2022 SEP;162:107006.
- (208) Liberal U, Rodriguez G, Hall G. Assessing the inhibitory properties of a latent inhibitor in flavor-aversion learning. *Learning & Behavior* 2022 DEC;50(4):447-455.
- (209) Llorente-Ovejero A, Tena IBd, Martinez-Gardeazabal J, Moreno-Rodriguez M, Lombardero L, Manuel I, et al. Cannabinoid Receptors and Glial Response Following a Basal Forebrain Cholinergic Lesion. *Acs Pharmacology & Translational Science* 2022 SEP 9;5(9):791-802.
- (210) Llull Estarellas B, Perello Mateo L, Calvo Trias M. Maritime connections in the Western Mediterranean and access to copper resources in the Balearic Islands during the Late Bronze Age: Isotopic characterization of the bronze deposit at Es Mitja Gran, Mallorca. *Archaeometry* 2022 AUG;64(4):898-915.
- (211) Lopez-Frances A, del Corte X, Serna-Burgos Z, Martinez de Marigorta E, Palacios F, Vicario J. Exploring the Synthetic Potential of gamma-Lactam Derivatives Obtained from a Multicomponent Reaction-Applications as Antiproliferative Agents. *Molecules* 2022 JUN;27(11):3624.
- (212) Lopez-Frances A, Palacios F, Maestro A, Vicario J. Diethyl(benzamido(diisopropoxyphosphoryl)methyl)phosphonate. *Molbank* 2022 SEP;2022(3):M1424.
- (213) Luchena C, Zuazo-Ibarra J, Valero J, Matute C, Alberdi E, Capetillo-Zarate E. A Neuron, Microglia, and Astrocyte Triple Co-culture Model to Study Alzheimer's Disease. *Frontiers in Aging Neuroscience* 2022 APR 14;14:844534.



- (214) Luis-Barrera J, Rodriguez S, Uria U, Reyes E, Prieto L, Carrillo L, et al. Bronsted Acid versus Phase-Transfer Catalysis in the Enantioselective Transannular Aminohalogenation of Enesultams. *Chemistry-a European Journal* 2022 NOV 7;28(62).
- (215) Luzuriaga J, García-Gallastegui P, García-Urkia N, Pineda JR, Irastorza I, Fernandez-San-Argimiro F-, et al. OSTEOGENIC DIFFERENTIATION OF HUMAN DENTAL PULP STEM CELLS IN DECELLULARISED ADIPOSE TISSUE SOLID FOAMS. *European Cells and Materials* 2022;43:112-129.
- (216) Macedo VM, Pereira N, Tubio CR, Martins P, Costa CM, Lanceros-Mendez S. Carrageenan based printable magnetic nanocomposites for actuator applications. *Composites Sci Technol* 2022 JUN 16;224:109485.
- (217) Macedo VM, Pereira N, Tubio CR, Martins P, Lanceros-Mendez S, Costa CM. 3D-printed carrageenan-based nanocomposites for sustainable resistive sensing devices. *Polymer* 2022 DEC 2;262:125456.
- (218) Madrid Aguilar CM, Svalov A, V., Kharlamova AA, Shalygina EE, Larranaga A, Orue I, et al. Magnetic and Microwave Properties of FeNi Thin Films of Different Thicknesses Deposited Onto Cyclo Olefin Copolymer Flexible Substrates. *IEEE Trans Magn* 2022 FEB;58(2):2200105.
- (219) Madrigal-Carrillo KG, Rodriguez JI, Hernandez-Pichardo ML, Jimenez-Izal E. Unraveling the effects of Fe and Mn promoters on the tungstated zirconia catalyst: A DFT study. *Appl Surf Sci* 2022 OCT 15;599:154052.
- (220) Maimo-Barcelo A, Martin-Saiz L, Fernandez JA, Perez-Romero K, Garfias-Arjona S, Lara-Almunia M, et al. Polyunsaturated Fatty Acid-Enriched Lipid Fingerprint of Glioblastoma Proliferative Regions Is Differentially Regulated According to Glioblastoma Molecular Subtype. *International Journal of Molecular Sciences* 2022 MAR;23(6):2949.
- (221) Maiz-Fernandez S, Perez-Alvarez L, Lopez De Munain-Arroniz I, Zoco A, Lopes AC, Silvan U, et al. Electro and magnetoactive printed bi-functional actuators based on alginate hybrid hydrogels. *Int J Biol Macromol* 2022 OCT 31;219:374-383.
- (222) Maiz-Fernandez S, Perez-Alvarez L, Silvan U, Vilas-Vilela JL, Lanceros-Mendez S. Dynamic and Self-Healable Chitosan/Hyaluronic Acid-Based In Situ-Forming Hydrogels. *Gels* 2022 AUG;8(8):477.
- (223) Maiz-Fernandez S, Perez-alvarez L, Silvan U, Vilas-Vilela JL, Lanceros-Mendez S. pH-Induced 3D Printable Chitosan Hydrogels for Soft Actuation. *Polymers* 2022 FEB;14(3):650.



- (224) Maiz-Fernandez S, Perez-Alvarez L, Silvan U, Vilas-Vilela JL, Lanceros-Mendez S. Photocrosslinkable and self-healable hydrogels of chitosan and hyaluronic acid. *Int J Biol Macromol* 2022 SEP 1;216:291-302.
- (225) Manterola A, Chara JC, Aguado T, Palazuelos J, Matute C, Mato S. Cannabinoid CB1 receptor expression in oligodendrocyte progenitors of the hippocampus revealed by the NG2-EYFP-knockin mouse. *Frontiers in Neuroanatomy* 2022 OCT 28;16:1030060.
- (226) Marcano L, Orue I, Gandia D, Gandarias L, Weigand M, Marius Abrudan R, et al. Magnetic Anisotropy of Individual Nanomagnets Embedded in Biological Systems Determined by Axi-asymmetric X-ray Transmission Microscopy. *Acs Nano* 2022 MAY 24;16(5):7398-7408.
- (227) Marina S, Gutierrez-Fernandez E, Gutierrez J, Gobbi M, Ramos N, Solano E, et al. Semi-paracrystallinity in semi-conducting polymers. *Materials Horizons* 2022 APR 4;9(4).
- (228) Martin J, Gomez-Bengoa E, Genoux A, Nevado C. Synthesis of Cyclometalated Gold(III) Complexes via Catalytic Rhodium to Gold(III) Transmetalation. *Angewandte Chemie-International Edition* 2022 MAY 9;61(20):e202116755.
- (229) Martinez L, Malaina I, Salcines-Cuevas D, Teran-Navarro H, Zeoli A, Alonso S, et al. First computational design using lambda-superstrings and in vivo validation of SARS-CoV-2 vaccine. *Scientific Reports* 2022 APR 19;12(1):6410.
- (230) Martinez-Abadia M, Dubey RK, Fernandez M, Martin-Arroyo M, Aguirresarobe R, Saeki A, et al. Molecular nanoribbon gels. *Chemical Science* 2022 SEP 21;13(36):10773-10778.
- (231) Martinez-Alvarez I, Le Menach K, Devier M, Cajaraville MP, Budzinski H, Orbea A. Screening of the Toxicity of Polystyrene Nano- and Microplastics Alone and in Combination with Benzo(a)pyrene in Brine Shrimp Larvae and Zebrafish Embryos. *Nanomaterials* 2022 MAR;12(6):941.
- (232) Martin-Saiz L, Guerrero-Mauvecin J, Martin-Sanchez D, Fresneda O, Gomez MJ, Carrasco S, et al. Ferrostatin-1 modulates dysregulated kidney lipids in acute kidney injury. *J Pathol* 2022 JUL;257(3):285-299.
- (233) Mato R, Manzano R, Reyes E, Prieto L, Uriarte U, Carrillo L, et al. Kinetic Resolution in Transannular Morita-Baylis-Hillman Reaction: An Approximation to the Synthesis of Sesquiterpenes from Guaiane Family. *Catalysts* 2022 JAN;12(1):67.
- (234) Mel'nikov GY, Ranero LM, Safronov AP, Larranaga A, Svalov AV, Kurlyandskaya GV. Epoxy Composites with Iron Oxide Microparticles: Model Materials for Magnetic Detection. *Physics of Metals and Metallography* 2022 NOV;123(11):1075-1083.



- (235) Mena-Bueno S, Poveda-Urkixo I, Irazoki O, Palacios L, Cava F, Zabalza-Barangua A, et al. Brucella melitensis Wzm/Wzt System: Changes in the Bacterial Envelope Lead to Improved Rev1 delta wzm Vaccine Properties. *Frontiers in Microbiology* 2022 JUL 4;13:908495.
- (236) Mendes-Felipe C, Costa P, Roppolo I, Sangermano M, Lanceros-Mendez S. Bio-Based Piezo- and Thermo resistive Photocurable Sensing Materials from Acrylated Epoxidized Soybean Oil. *Macromolecular Materials and Engineering* 2022 JUL;307(7):2100934.
- (237) Mendiburu-Valor E, Mondragon G, Gonzalez N, Kortaberria G, Martin L, Eceiza A, et al. Valorization of urban and marine PET waste by optimized chemical recycling. *Resources Conservation and Recycling* 2022 SEP;184:106413.
- (238) Mendioroz A, Castelo A, Celorio R, Salazar A. Vertical Cracks Excited in Lock-in Vibrothermography Experiments: Identification of Open and Inhomogeneous Heat Fluxes. *Sensors* 2022 MAR;22(6):2336.
- (239) Mercero JM, Rezabal E, Ugalde JM, Weiske T, Li J. Experiment and Theory Clarify: Sc⁺ Receives One Oxygen Atom from SO₂ to Form ScO⁺, which Proves to be a Catalyst for the Hidden Oxygen-Exchange with SO₂. *Chemphyschem* 2022 MAR 4;23(5):e202100773.
- (240) Miranda-Cadena K, Marcos-Arias C, Perez-Rodriguez A, Cabello-Beitia I, Mateo E, Sevillano E, et al. In vitro and in vivo anti-Candida activity of citral in combination with fluconazole. *Journal of Oral Microbiology* 2022 DEC 31;14(1):2045813.
- (241) Mitxelena I, Piris M. Benchmarking GNOF against FCI in challenging systems in one, two, and three dimensions. *J Chem Phys* 2022 JUN 7;156(21):214102.
- (242) Mollet I, Martins C, Angelo-Dias M, Carvalho AS, Aloria K, Matthiesen R, et al. Pilot study in human healthy volunteers on the mechanisms underlying remote ischemic conditioning (RIC)-Targeting circulating immune cells and immune-related proteins. *J Neuroimmunol* 2022 JUN 15;367:577847.
- (243) Morales A, Labidi J, Gullon P. Impact of the lignin type and source on the characteristics of physical lignin hydrogels. *Sustainable Materials and Technologies* 2022 APR;31:e00369.
- (244) Morales A, Labidi J, Gullon P. Influence of lignin modifications on physically crosslinked lignin hydrogels for drug delivery applications. *Sustainable Materials and Technologies* 2022 SEP;33:e00474.



- (245) Morales A, Labidi J, Gullon P. Integral valorisation of walnut shells based on a three-step sequential delignification. *J Environ Manage* 2022 MAY 15;310:114730.
- (246) Morales-Marin A, Iriarte-Velasco U, Angel Gutierrez-Ortiz M, Luis Ayastuy J. Aqueous-Phase Glycerol Conversion over Ni-Based Catalysts Synthesized by Nanocasting. *Catalysts* 2022 JUN;12(6):668.
- (247) Morana O, Nieto-Garai JA, Bjorkholm P, de la Serna JB, Terrones O, Arboleya A, et al. Identification of a New Cholesterol-Binding Site within the IFN-gamma Receptor that is Required for Signal Transduction. *Advanced Science* 2022 APR;9(11):2105170.
- (248) Mulko L, Heffner H, Abel SB, Baumann R, Martin D, Schell F, et al. Customizable-Width Conducting Polymer Micro/Nanoarrays by Subpicosecond Laser Interference Patterning. *Acs Applied Polymer Materials* 2022 DEC 9;4(12):8715-8721.
- (249) Nader K, Castellanos-Rubio I, Orue I, Iglesias-Rojas D, Baron A, Gil de Muro I, et al. Getting insight into how iron(III) oleate precursors affect the features of magnetite nanoparticles. *Journal of Solid State Chemistry* 2022 DEC;316:123619.
- (250) Napal J, Artetxe B, Beobide G, Castillo O, Luque A, Pascual-Colino J, et al. Merging the chemistry of metal-organic and polyoxometalate clusters to form enhanced photocatalytic materials. *Inorganic Chemistry Frontiers* 2022 MAR 1;9(5):935-940.
- (251) Navarro-Lopez B, Baeta M, Granizo-Rodriguez E, Moreno-Lopez O, Kleinbielen T, Ferragut JF, et al. Development and validation of a new multiplex for upgrading Y-STRs population databases from 12 to 23 markers and its forensic casework application. *Scientific Reports* 2022 DEC 16;12(1):21734.
- (252) Nieto N, Noya O, Iturroundobeitia A, Sanchez-Fontecoba P, Perez-Lopez U, Palomares V, et al. On the Road to Sustainable Energy Storage Technologies: Synthesis of Anodes for Na-Ion Batteries from Biowaste. *Batteries-Basel* 2022 APR;8(4):28.
- (253) Nikmanesh H, Jaberolansar E, Kameli P, Varzaneh AG, Mehrabi M, Rostami M. Structural and magnetic properties of CoFe₂O₄ ferrite nanoparticles doped by gadolinium. *Nanotechnology* 2022 JAN 22;33(4):045704.
- (254) Norouzi-Inallu M, Kameli P, Varzaneh AG, Sarsari IA, Eskandari MA, Orue I, et al. Influence of W doping on the structure, magnetism and exchange bias in Ni₄₇Mn₄₀Sn_{13-x}W_x Heusler alloys. *Journal of Physics-Condensed Matter* 2022 JUN 1;34(22):225803.
- (255) Olavarrieta CE, Sampedro MC, Vallejo A, Stefelova N, Barrio RJ, De Diego N. Biostimulants as an Alternative to Improve the Wine Quality from *Vitis vinifera* (cv. Tempranillo) in La Rioja. *Plants-Basel* 2022 JUN;11(12):1594.



- (256) Olmos-Juste R, Olza S, Gabilondo N, Eceiza A. Tailor-Made 3D Printed Meshes of Alginato-Waterborne Polyurethane as Suitable Implants for Hernia Repair. *Macromolecular Bioscience* 2022 SEP;22(9):2200124.
- (257) Ortiz de Luzuriaga I, Elleuchi S, Jarraya K, Artacho E, Lopez X, Gil A. Semi-empirical and linear-scaling DFT methods to characterize duplex DNA and G-quadruplexes in the presence of interacting small molecules. *Physical Chemistry Chemical Physics* 2022 MAY 18;24(19):11510-11519.
- (258) Orue A, Anakabe J, Miren Zaldua-Huici A, Eceiza A, Arbelaitz A. The Importance of Coupling Agent on Tensile and Thermomechanical Performance of Annealed Composites Based on Poly(Lactic Acid)/Poly(Methyl Methacrylate) Matrix and Sisal Fiber Bundles. *Journal of Natural Fibers* 2022 DEC 1;19(13):6324-6334.
- (259) Orue A, Anakabe J, Miren Zaldua-Huici A, Eceiza A, Arbelaitz A. The Importance of Fiber/Matrix Adhesion and Annealing Process in Water Uptake of PLA/PMMA Matrix Composites Reinforced with Sisal Fibers: The Effect of Coupling Agent Addition. *Journal of Natural Fibers*.
- (260) Orue A, Anakabe J, Zaldua-Huici AM, Eceiza A, Arbelaitz A. Preparation and characterization of composites based on poly(lactic acid)/poly(methyl methacrylate) matrix and sisal fiber bundles: The effect of annealing process. *J Thermoplast Compos Mater* 2022 AUG;35(8):1132-1153.
- (261) Osa JL, Mondragon G, Ortega N, Marzo FF, Pena-Rodriguez C. On the friability of mussel shells as abrasive. *J Clean Prod* 2022 NOV 15;375:134020.
- (262) Oyarzabal I, Zubala-Lekuona A, Mota AJ, Palacios MA, Rodriguez-Dieguez A, Lorusso G, et al. Magneto-thermal properties and slow magnetic relaxation in Mn(ii)Ln(iii) complexes: influence of magnetic coupling on the magneto-caloric effect. *Dalton Transactions* 2022 AUG 30;51(34):12954-12967.
- (263) Pajuelo-Corral O, Perez-Yanez S, Vitorica-Yrezabal IJ, Beobide G, Zubala-Lekuona A, Rodriguez-Dieguez A, et al. A metal-organic framework based on Co(II) and 3-aminoisonicotinate showing specific and reversible colourimetric response to solvent exchange with variable magnet behaviour. *Materials Today Chemistry* 2022 JUN;24:100794.
- (264) Pajuelo-Corral O, Razquin-Bobillo L, Rojas S, Angel Garcia J, Choquesillo-Lazarte D, Salinas-Castillo A, et al. Lanthanide(III) Ions and 5-Methylisophthalate Ligand Based Coordination Polymers: An Insight into Their Photoluminescence Emission and Chemosensing for Nitroaromatic Molecules. *Nanomaterials* 2022 NOV;12(22):3977.



- (265) Palencia-Madrid L, Baeta M, Kleinbielen T, Toro-Delgado N, Villaescusa P, Sanchez-Bustamante E, et al. Post-Austronesian migrational wave of West Polynesians to Micronesia. *Gene* 2022 MAY 20;823:146357.
- (266) Palma A, Chara JC, Montilla A, Otxoa-de-Amezaga A, Ruiz-Jaen F, Planas AM, et al. Clemastine Induces an Impairment in Developmental Myelination. *Frontiers in Cell and Developmental Biology* 2022 MAR 17;10:841548.
- (267) Pape S, Curras E, Fernandez Garcia M, Moll M, Montero R, Palomo FR, et al. First observation of the charge carrier density related gain reduction mechanism in LGADs with the Two Photon Absorption-Transient Current Technique. *Nuclear Instruments & Methods in Physics Research Section A-Accelerators Spectrometers Detectors and Associated Equipment* 2022 OCT 1;1040:167190.
- (268) Pape S, Fernandez Garcia M, Moll M, Montero R, Palomo FR, Vila I, et al. Characterisation of irradiated and non-irradiated silicon sensors with a table-top two photon absorption TCT system. *Journal of Instrumentation* 2022 AUG;17(8):C08011.
- (269) Pascual-Colino J, Artetxe B, Beobide G, Castillo O, Luz Fidalgo-Mayo M, Isla-Lopez A, et al. The Chemistry of Zirconium/Carboxylate Clustering Process: Acidic Conditions to Promote Carboxylate-Unsaturated Octahedral Hexamers and Pentanuclear Species. *Inorg Chem* 2022 MAR 28;61(12):4842-4851.
- (270) Pascual-Pasto G, Castillo-Ecija H, Unceta N, Aschero R, Resa-Pares C, Gomez-Caballero A, et al. p SPARC-mediated long-term retention of nab-paclitaxel in pediatric sarcomas. *J Controlled Release* 2022 FEB;342:81-92.
- (271) Pasynkova AA, Timofeeva A, Lukshina VA, Stepanova EA, Kurlyandskaya G, V. The Magnetic and Magnetoimpedance Properties of Cobalt-Based Amorphous Ribbons with Peculiarities of Effective Magnetic Anisotropy. *Physics of Metals and Metallography* 2022 AUG;123(8):746-752.
- (272) Paz Serrano-Regal M, Bayon-Cordero L, Chara Ventura JC, Ochoa-Bueno B, I., Tepavcevic V, Matute C, et al. GABA(B) receptor agonist baclofen promotes central nervous system remyelination. *Glia* 2022 DEC;70(12):2426-2440.
- (273) Penche G, Gonzalez-Marcos MP, Gonzalez-Velasco JR. Transition Metal Hexacyanoferrate(II) Complexes as Catalysts in the Ring-Opening Copolymerization of CO₂ and Propylene Oxide. *Topics in Catalysis* 2022 SEP;65(13-16):1541-1555.
- (274) Pereira JM, Tezze D, Niehues I, Asensio Y, Yang H, Mester L, et al. Percolating Superconductivity in Air-Stable Organic-Ion Intercalated MoS₂. *Advanced Functional Materials* 2022 DEC;32(52).



- (275) Pereira MF, Fuenlabrada JM, Rodriguez C, Castro A. Changing Carboniferous Arc Magmatism in the Ossa-Morena Zone (Southwest Iberia): Implications for the Variscan Belt. *Minerals* 2022 MAY;12(5):597.
- (276) Perez Das Dores A, Llorente O, Martin L, Gonzalez A, Irusta L. Polydimethylsiloxane containing waterborne hydrophobic polyurethane coatings with good adhesion to metals: Synthesis and characterization. *Progress in Organic Coatings* 2022 JAN;162:106564.
- (277) Perez G, Diaz-Sainz G, Gomez-Coma L, Alvarez-Miguel L, Garnier A, Cabon N, et al. Rhodium-based cathodes with ultra-low metal loading to increase the sustainability in the hydrogen evolution reaction. *Journal of Environmental Chemical Engineering* 2022 JUN;10(3):107682.
- (278) Perez-Calpe AV, de Guzman I, Larranaga A, von Schiller D, Elosegi A. Organic Matter Processing on Dry Riverbeds is More Reactive to Water Diversion and Pollution Than on Wet Channels. *Frontiers in Environmental Science* 2022 FEB 14;9:817665.
- (279) Perez-Cerrato M, Fraile I, Fernando Gomez-Cortes J, Urionabarrenetxea E, Ruiz-Larrea I, Gonzalez I, et al. Designing for Shape Memory in Additive Manufacturing of Cu-Al-Ni Shape Memory Alloy Processed by Laser Powder Bed Fusion. *Materials* 2022 SEP;15(18):6284.
- (280) Perez-Diez S, Larranaga A, Manuel Madariaga J, Maguregui M. Unraveling the role of the thermal and laser impacts on the blackening of cinnabar in the mural paintings of Pompeii. *European Physical Journal Plus* 2022 OCT 27;137(10):1184.
- (281) Perinka N, Strbac M, Kostic M, Malesevic J, Castro N, Correia V, et al. Design and Fabrication of Printed Human Skin Model Equivalent Circuit: A Tool for Testing Biomedical Electrodes without Human Trials. *Advanced Engineering Materials* 2022 FEB;24(2):2100684.
- (282) Porro JM, Villar A, Redondo C, Rio-Lopez NA, Lasheras A, Salazar D, et al. Competition of Magnetic Anisotropies in Permalloy Antidot Lattices. *Magnetochemistry* 2022 MAY;8(5):55.
- (283) Portal-Porras K, Fernandez-Gamiz U, Zulueta E, Ballesteros-Coll A, Zulueta A. CNN-based flow control device modelling on aerodynamic airfoils. *Scientific Reports* 2022 MAY 17;12(1):8205.
- (284) Portillo A, Ateka A, Erena J, Bilbao J, Aguayo AT. Role of Zr loading into In₂O₃ catalysts for the direct conversion of CO₂/CO mixtures into light olefins. *J Environ Manage* 2022 AUG 15;316:115329.



- (285) Portillo A, Ateka A, Na JE, Bilbao J, Aguayo AT. Alternative acid catalysts for the stable and selective direct conversion of CO₂/CO mixtures into light olefins. *Fuel Process Technol* 2022 DEC 15;238:107513.
- (286) Poucet T, Beauvoit B, Begona Gonzalez-Moro M, Cabasson C, Petriacq P, Flandin A, et al. Impaired cell growth under ammonium stress explained by modeling the energy cost of vacuole expansion in tomato leaves. *Plant Journal* 2022 NOV;112(4):1014-1028.
- (287) Prieto-Montero R, Diaz Andres A, Prieto-Castaneda A, Tabero A, Longarte A, Agarrabeitia AR, et al. Halogen-free photosensitzers based on meso-enamine-BODIPYs for bioimaging and photodynamic therapy. *Journal of Materials Chemistry B* 2022 DEC 22;11(1):169-179.
- (288) Puente-Berdasco B, Rodriguez J, Ballesteros D, Painchault A, Nehme C, Mouralis D, et al. Measurement of Sr-87/Sr-86 in limestones after acid leaching and direct injection in a liquid chromatograph coupled to a multicollector ICP-MS. *J Anal At Spectrom* 2022 JAN 5;37(1):194-202.
- (289) Puyadena M, Etxeberria I, Martin L, Mugica A, Agirre A, Cobos M, et al. Polyurethane/acrylic hybrid dispersions containing phosphorus reactive flame retardants as transparent coatings for wood. *Progress in Organic Coatings* 2022 SEP;170:107005.
- (290) Qtaish NAL, Gallego I, Paredes AJ, Villate-Beitia I, Soto-Sanchez C, Martinez-Navarrete G, et al. Nanodiamond Integration into Niosomes as an Emerging and Efficient Gene Therapy Nanoplatform for Central Nervous System Diseases. *Acs Applied Materials & Interfaces* 2022 MAR 23;14(11):13665-13677.
- (291) Queiros JM, Salazar H, Valverde A, Botelho G, de Luis RF, Teixeira J, et al. Reusable composite membranes for highly efficient chromium removal from real water matrixes. *Chemosphere* 2022 NOV;307:135922.
- (292) Ran W, Walz A, Stoiber K, Knecht P, Xu H, Papageorgiou AC, et al. Depositing Molecular Graphene Nanoribbons on Ag(111) by Electrospray Controlled Ion Beam Deposition: Self-Assembly and On-Surface Transformations. *Angewandte Chemie-International Edition* 2022 MAR 28;61(14):e202111816.
- (293) Razquin-Bobillo L, Pajuelo-Corral O, Artetxe B, Zabala-Lekuona A, Choquesillo-Lazarte D, Rodriguez-Dieguez A, et al. Combined experimental and theoretical investigation on the magnetic properties derived from the coordination of 6-methyl-2-oxonicotinate to 3d-metal ions. *Dalton Transactions* 2022 JUN 27;51(25):9780-9792.
- (294) Razquin-Bobillo L, Pajuelo-Corral O, Zabala-Lekuona A, Rodriguez-Dieguez A, Cepeda J. An experimental and theoretical study of the magnetic relaxation in heterometallic coordination polymers based on 6-methyl-2-oxonicotinate and



lanthanide(III) ions with square antiprismatic environment. Dalton Transactions 2022 NOV 1;51(42):16243-16255.

(295) Reguera J, Zheng F, Shalan AE, Lizundia E. Upcycling discarded cellulosic surgical masks into catalytically active freestanding materials. Cellulose 2022 MAR;29(4):2223-2240.

(296) Reizabal A, Fidalgo-Marijuan A, Goncalves R, Gutierrez-Pardo A, Aguesse F, Perez-Alvarez L, et al. Silk fibroin and sericin polymer blends for sustainable battery separators. J Colloid Interface Sci 2022 APR;611:366-376.

(297) Reyes E, Prieto L, Uria U, Carrillo L, Vicario JL. Recent Advances in the Prins Reaction. Acs Omega 2022 SEP 13;7(36):31621-31627.

(298) Reynoso AJ, Ayastuy JL, Iriarte-Velasco U, Gutierrez-Ortiz MA. Aqueous-phase reforming of glycerol over Pt-Co catalyst: Effect of process variables. Journal of Environmental Chemical Engineering 2022 JUN;10(3):107402.

(299) Reynoso AJ, Iriarte-Velasco U, Gutierrez-Ortiz MA, Ayastuy JL. Ce-doped cobalt aluminate catalysts for the glycerol hydrodeoxygenation (HDO) with in-situ produced hydrogen. Journal of Environmental Chemical Engineering 2022 JUN;10(3):107612.

(300) Rezvani M, Manca ML, Muntoni A, De Gioannis G, Pedraz JL, Gutierrez G, et al. From process effluents to intestinal health promotion: Developing biopolymer-whey liposomes loaded with gingerol to heal intestinal wounds and neutralize oxidative stress. Int J Pharm 2022 FEB 5;613.

(301) Riano A, Strutynski K, Liu M, Stoppiello CT, Lerma-Berlanga B, Saeki A, et al. An Expanded 2D Fused Aromatic Network with 90-Ring Hexagons. ANGEWANDTE CHEMIE-INTERNATIONAL EDITION 2022 JAN 10;61(2).

(302) Rincon-Iglesias M, Rodrigo I, Berganza LB, Abu Serea ES, Plazaola F, Lanceros-Mendez S, et al. Core-Shell Fe₃O₄@Au Nanorod-Loaded Gels for Tunable and Anisotropic Magneto- and Photothermia. Acs Applied Materials & Interfaces 2022 FEB 9;14(5):7130-7140.

(303) Rincon-Iglesias M, Salado M, Lanceros-Mendez S, Lizundia E. Magnetically active nanocomposites based on biodegradable polylactide, polycaprolactone, polybutylene succinate and polybutylene adipate terephthalate. Polymer 2022 MAY 17;249:124804.

(304) Roda-Robles E, Gil-Crespo PP, Pesquera A, Lima A, Garate-Olave I, Merino-Martinez E, et al. Compositional Variations in Apatite and Petrogenetic Significance: Examples from Peraluminous Granites and Related Pegmatites and Hydrothermal Veins from the Central Iberian Zone (Spain and Portugal). Minerals 2022 NOV;12(11):1401.



- (305) Rodrigues AL, Marques R, Dias MI, Prudencio MI, Cardoso G, Russo D, et al. Luminescence and compositional studies for the identification of "fire-setting" features at prehistoric mine La Turquesa (Catalonia, Spain). *J Radioanal Nucl* 2022 MAR;331(3):1397-1408.
- (306) Rodriguez-Castejon J, Gomez-Aguado I, Beraza-Millor M, Angeles Solinis M, del Pozo-Rodriguez A, Rodriguez-Gascon A. Galactomannan-Decorated Lipidic Nanocarrier for Gene Supplementation Therapy in Fabry Disease. *Nanomaterials* 2022 JUL;12(14):2339.
- (307) Rodriguez-Crespo B, Garcia-Franco A, Janderson Rosero-Romo J, Echevarria-Bonet C, Maria Porro J, Saiz PG, et al. Magnetic Properties of Tetragonal SmFe_{12-x}M_xO₁₂ Alloys in Bulk and Melt-Spun Ribbons. *Physica Status Solidi A-Applications and Materials Science* 2022 August;219(15):2100725.
- (308) Rodriguez-Romero J, de Larramendi IR, Goikolea E. Nanostructured Manganese Dioxide for Hybrid Supercapacitor Electrodes. *Batteries-Basel* 2022 DEC;8(12):263.
- (309) Rueda-Alana E, Garcia-Moreno F. Time in Neurogenesis: Conservation of the Developmental Formation of the Cerebellar Circuitry. *Brain Behavior and Evolution* 2022 JUN;97(1-2):33-47.
- (310) Ruiz Larramendi I, Lozano I, Enterria M, Cid R, Echeverria M, Rodriguez Pena S, et al. Unveiling the Role of Tetrabutylammonium and Cesium Bulky Cations in Enhancing Na-O₂ Battery Performance. *Advanced Energy Materials* 2022 JAN;12(2):2102834.
- (311) Ruiz-Bilbao E, Pardo-Almanza M, Oyarzabal I, Artetxe B, San Felices L, Garcia JA, et al. Slow Magnetic Relaxation and Luminescent Properties of Mononuclear Lanthanide-Substituted Keggin-Type Polyoxotungstates with Compartmental Organic Ligands. *Inorg Chem* 2022 FEB 7;61(5):2428-2443.
- (312) Ruiz-Zambrana C, Dubey RK, Poyatos M, Mateo-Alonso A, Peris E. Redox-Switchable Complexes Based on Nanographene-NHCs. *Chemistry-a European Journal* 2022 AUG 4;28(44):e202201384.
- (313) Sainz-Menchon M, Gabirondo-Lopez J, De Arrieta IG, Echaniz T, Lopez GA. Experimental and numerical study of the emissivity of rolled aluminum. *Infrared Phys Technol* 2022 DEC;127:104380.
- (314) Sala-Gaston J, Pedrazza L, Ramirez J, Martinez-Martinez A, Rawlins LE, Baple EL, et al. HERC2 deficiency activates C-RAF/MKK3/p38 signalling pathway altering the cellular response to oxidative stress. *Cellular and Molecular Life Sciences* 2022 NOV;79(11):548.



- (315) Salaheldeen M, Garcia A, Corte-Leon P, Ipatov M, Zhukova V, Zhukov A. Unveiling the effect of annealing on magnetic properties of nanocrystalline half-metallic Heusler Co₂FeSi alloy glass-coated microwires. *Journal of Materials Research and Technology-Jmr&T* 2022;20:4161-4172.
- (316) Salaheldeen M, Garcia-Gomez A, Corte-Leon P, Ipatov M, Zhukova V, Gonzalez J, et al. Anomalous magnetic behavior in half-metallic Heusler Co₂FeSi alloy glass-coated microwires with high Curie temperature. *J Alloys Compounds* 2022 NOV 25;923:166379.
- (317) Salaheldeen M, Garcia-Gomez A, Ipatov M, Corte-Leon P, Zhukova V, Blanco JM, et al. Fabrication and Magneto-Structural Properties of Co-2-Based Heusler Alloy Glass-Coated Microwires with High Curie Temperature. *Chemosensors* 2022 JUN;10(6):225.
- (318) Salaheldeen M, Talaat A, Ipatov M, Zhukova V, Zhukov A. Preparation and Magneto-Structural Investigation of Nanocrystalline CoMn-Based Heusler Alloy Glass-Coated Microwires. *Processes* 2022 NOV;10(11):2248.
- (319) Salaheldeen M, Wederni A, Ipatov M, Gonzalez J, Zhukova V, Zhukov A. Elucidation of the Strong Effect of the Annealing and the Magnetic Field on the Magnetic Properties of Ni-2-Based Heusler Microwires. *Crystals* 2022 DEC;12(12):1755.
- (320) San Segundo M, Correa A. Radical C-H Alkylation with Ethers and Unactivated Cycloalkanes toward the Assembly of Tetrasubstituted Amino Acid Derivatives. *Advanced Synthesis & Catalysis* 2022 SEP 20;364(18):3161-3167.
- (321) Sanchez-de la Torre A, Aguado T, Huerga-Gomez A, Santamaria S, Gentile A, Carlos Chara J, et al. Cannabinoid CB1 receptor gene inactivation in oligodendrocyte precursors disrupts oligodendrogenesis and myelination in mice. *Cell Death & Disease* 2022 JUL 7;13(7):585.
- (322) Sanchez-Espana J, Ilin A, Yusta I. Metallic Copper (Cu[0]) Obtained from Cu²⁺-Rich Acidic Mine Waters by Two Different Reduction Methods: Crystallographic and Geochemical Aspects. *Minerals* 2022 MAR;12(3):322.
- (323) Sanchez-Munoz L, Santos J, Simmons WB, Florian P. Local Structure and Protons in Non-Stoichiometric Pseudo-Cubic Pollucite Mineral by Multinuclear NMR. *Minerals* 2022 OCT;12(10):1181.
- (324) Sangroniz A, Sangroniz L, Hamzehlou S, Aranburu N, Sardon H, Sarasua JR, et al. Lactide-Valerolactone Copolymers for Packaging Applications. *Polymers* 2022 JAN;14(1):52.



- (325) Santamarina-Garcia G, Amores G, Lopez de Armentia E, Hernandez I, Virto M. Relationship between the Dynamics of Gross Composition, Free Fatty Acids and Biogenic Amines, and Microbial Shifts during the Ripening of Raw Ewe Milk-Derived Idiazabal Cheese. *Animals* 2022 NOV;12(22):3224.
- (326) Santamarina-Garcia G, Hernandez I, Amores G, Virto M. Characterization of Microbial Shifts during the Production and Ripening of Raw Ewe Milk-Derived Idiazabal Cheese by High-Throughput Sequencing. *Biology-Basel* 2022 MAY;11(5):769.
- (327) Santiago C, Jimenez-Aberasturi X, Leicea E, Lete MG, Sotomayor N, Lete E. Microwave-assisted palladium catalysed C-H acylation with aldehydes: synthesis and diversification of 3-acylthiophenes. *Organic & Biomolecular Chemistry* 2022;20(4):852-861.
- (328) Santiago C, Ortega-Tenezaca B, Barbolla I, Fundora-Ortiz B, Arrasate S, Auxiliadora Dea-Ayuela M, et al. Prediction of Antileishmanial Compounds: General Model, Preparation, and Evaluation of 2-Acylpyrrole Derivatives. *Journal of Chemical Information and Modeling* 2022 AUG 22;62(16):3928-3940.
- (329) Sarriegui G, Martin JM, Burgos N, Ipatov M, Zhukov AP, Gonzalez J. Effect of particle size on grain growth of Nd-Fe-B powders produced by gas atomization. *Mater Charact* 2022 MAY;187:111824.
- (330) Saumell-Esnaola M, Delgado D, Garcia del Cano G, Beitia M, Salles J, Gonzalez-Burguera I, et al. Isolation of Platelet-Derived Exosomes from Human Platelet-Rich Plasma: Biochemical and Morphological Characterization. *International Journal of Molecular Sciences* 2022 MAR;23(5):2861.
- (331) Saumell-Esnaola M, Elejaga-Jimeno A, Echeazarra L, Borrega-Roman L, Barrondo S, Lopez de Jesus M, et al. Design and validation of recombinant protein standards for quantitative Western blot analysis of cannabinoid CB1 receptor density in cell membranes: an alternative to radioligand binding methods. *Microbial Cell Factories* 2022 SEP 15;21(1):192.
- (332) Saurel D, Giner M, Galceran M, Rodriguez-Carvajal J, Reynaud M, Casas-Cabanas M. The triphylite NaFe_{1-y}Mn_yPO₄ solid solution (0=y=1): Kinetic strain accommodation in NaxFe_{0.8}Mn_{0.2}PO₄. *Electrochim Acta* 2022 SEP 1;425:140650.
- (333) Scarpi D, Bagni F, Faggi C, Carral-Menoyo A, Gomez-Bengoa E, Occhiato EG. Gold(I)-Catalyzed Cycloisomerization/Hetero-Diels-Alder Reaction/Ring Opening Cascade to Functionalized Cyclopentadienes. *J Org Chem* 2022 MAY 6;87(9):6038-6051.



- (334) Schafer P, de Vet C, Gartzia-Rivero L, Raffy G, Kao M, Schafer C, et al. Narcissistic self-sorting of n-acene nano-ribbons yielding energy-transfer and electroluminescence at p-n junctions. *Nanoscale* 2022 JUN 30;14(25):8951-8958.
- (335) Segui C. Sequence and Characteristics of Atomic Ordering in Ni₂Mn_{1-x}Cu_xGa Ferromagnetic Shape Memory Alloys. *Materials* 2022 DEC;15(23):8529.
- (336) Serra JP, Fernandes LC, Correia DM, Tubio CR, Vilas-Vilela JL, Tariq M, et al. Environmentally friendly carrageenan-based ionic-liquid driven soft actuators. *Materials Advances* 2022 JAN 24;3(2):937-945.
- (337) Serra JP, Fidalgo-Marijuan A, Barbosa JC, Correia DM, Goncalves R, Porro JM, et al. Lithium-Ion Battery Solid Electrolytes Based on Poly(vinylidene Fluoride)-Metal Thiocyanate Ionic Liquid Blends. *Acs Applied Polymer Materials* 2022 AUG 12;4(8):5909-5919.
- (338) Serra JP, Fidalgo-Marijuan A, Teixeira J, Hilliou L, Goncalves R, Urtiaga K, et al. Sustainable Lithium-Ion Battery Separator Membranes Based on Carrageenan Biopolymer. *Advanced Sustainable Systems* 2022 DEC;6(12):2200279.
- (339) Sevilla A, Sanchez-Diez A, Cobo S, Izagirre N, Martinez-Cadenas C, Marti RM, et al. Association of TYR SNP rs1042602 with Melanoma Risk and Prognosis. *Life-Basel* 2022 DEC;12(12):2004.
- (340) Sierra S, Victoria Gomez M, Jimenez A, I., Pop A, Silvestru C, Luisa Marin M, et al. Stereoselective, Ruthenium-Photocatalyzed Synthesis of 1,2-Diaminotrxinic Bis-amino Acids from 4-Arylidene-5(4H)-oxazolones. *J Org Chem* 2022 MAR 4;87(5):3529-3545.
- (341) Sot J, Garcia-Arribas AB, Abad B, Arranz S, Portune K, Andrade F, et al. Erythrocyte Membrane Nanomechanical Rigidity Is Decreased in Obese Patients. *International Journal of Molecular Sciences* 2022 FEB;23(3):1920.
- (342) Stankovic B, Barbarin I, Sanz O, Tomovska R, Ruiperez F. Experimental and theoretical study of the effect of different functionalities of graphene oxide/polymer composites on selective CO₂ capture. *Scientific Reports* 2022 SEP 26;12(1):15992.
- (343) Sukunza X, Aguado R, Pablos A, Tellabide M, Estiati I, Olazar M. Mass transfer in conical spouted beds equipped with internal devices. *Powder Technol* 2022 SEP;410:117850.
- (344) Sukunza X, Pablos A, Tellabide M, Estiati I, Freire FB, Aguado R, et al. A model for predicting the performance of a batch fountain confined spouted bed dryer at low and moderate temperatures. *Powder Technol* 2022 JUN;405:117506.



- (345) Svalov AV, Neznakhin DS, Arkhipov AV, Andreev SV, Selezneva NV, Larranaga A, et al. Ball Milled Gd Flakes Subjected to Heat Treatments: Structure, Magnetic and Magnetocaloric Properties. *Magnetochemistry* 2022 NOV;8(11):138.
- (346) Svalov A, V., Buznikov NA, Mel'nikov GY, Bagat SM, Larranaga A, Kurlyandskaya G, V. Properties of the Arrays of Periodic Microelements on the Basis of Permalloy Films. *Physics of Metals and Metallography* 2022 JUL;123(7):633-639.
- (347) Svalov A, V., Lepalovskij VN, Gorkovenko AN, Makarochkin IA, Stepanova EA, Larranaga A, et al. Spin Reorientation Transition and Exchange Bias in Hard/Soft Tb-Co/FeNi Films. *IEEE Trans Magn* 2022 FEB;58(2):2100605.
- (348) Svalov A, V., Gorkovenko AN, Larranaga A, Volochaev MN, Kurlyandskaya G, V. Structural and Magnetic Properties of FeNi Films and FeNi-Based Trilayers with Out-of-Plane Magnetization Component. *Sensors* 2022 NOV;22(21):8357.
- (349) Taverna ME, Altobaq AS, Kumar SK, Olmedo-Martinez JL, Busatto CA, Zubitur M, et al. Supernucleation Dominates Lignin/Poly(ethylene oxide) Crystallization Kinetics. *Macromolecules* .
- (350) Teixeira Oliveira AJ, Brites Martins HC, Sant'Ovaia Mendes da Silva HM. Permocarboniferous hypabyssal magmatism in northern Portugal: the case of the Lamas de Olo microgranite and lamprophyre dykes. *Journal of Iberian Geology* 2022 MAR;48(1):1-28.
- (351) Tezze D, Pereira JM, Asensio Y, Ipatov M, Calavalle F, Casanova F, et al. Tuning the magnetic properties of NiPS₃ through organic-ion intercalation. *Nanoscale* 2022 JAN 27;14(4):1165-1173.
- (352) Torresi S, Calvo-Correas T, Basasoro S, Guaresti O, Alonso-Varona A, Gabilondo N, et al. Furan-containing biobased polyurethane nanofibers: A new versatile and green support clickable via Diels-Alder reaction. *Reactive & Functional Polymers* 2022 SEP;178:105353.
- (353) Tubio CR, Seoane-Rivero R, Garcia A, Gallardo A, Salaverria LD, Amondarian ALA, et al. Self-sensing fluorescence polymer composites for chemical degradation protection and monitoring. *Progress in Organic Coatings* 2022 JUL;168:106879.
- (354) Tubio CR, Seoane-Rivero R, Neira S, Benito V, Gondra Zubieta K, Lanceros-Mendez S. Fiber-Reinforced Polyester Composites with Photoluminescence Sensing Capabilities for UV Degradation Monitoring. *Polymers* 2022 SEP;14(17):3666.
- (355) Ugalde-Arbizu M, Jairo Aguilera-Correa J, Mediero A, Esteban J, Paez PL, San Sebastian E, et al. Hybrid Nanosystems Based on Nicotinate-Functionalized Mesoporous Silica and Silver Chloride Nanoparticles Loaded with Phenytoin for Preventing *Pseudomonas aeruginosa* Biofilm Development. *Pharmaceuticals* 2022 JUL;15(7):884.



- (356) Ugarriza I, Reyes E, Prieto L, Uria U, Carrillo L, Vicario JL. An Approach to the Synthesis of a Hepatitis C Virus Inhibitor through a Proline-Catalyzed 1,3-Dipolar Cycloaddition Using Acrolein. *Synthesis-Stuttgart* 2022 FEB 15;54(04):1101-1107.
- (357) Ugarte-Anero A, Fernandez-Gamiz U, Portal-Porras K, Zulueta E, Urbina-Garcia O. Computational characterization of the behavior of a saliva droplet in a social environment. *Scientific Reports* 2022 APR 18;12(1):6405.
- (358) Ugartemendia A, Garcia-Lekue A, Jimenez-Izal E. Tailoring magnetism in silicon-doped zigzag graphene edges. *Scientific Reports* 2022 JUL 29;12(1):13032.
- (359) Ugartemendia A, Mercero JM, de Cozar A, Jimenez-Izal E. Does the composition in PtGe clusters play any role in fighting CO poisoning? *J Chem Phys* 2022 MAY 7;156(17):174301.
- (360) Urgoitia G, Herrero MT, SanMartin R. Metal-Catalyzed, Photo-Assisted Selective Transformation of Tertiary Alkylbenzenes and Polystyrenes into Carbonyl Compounds. *Chemsuschem* 2022 SEP 7;15(17):e202200940.
- (361) Urionabarrenetxea E, Garcia-Velasco N, Zaldibar B, Soto M. Impacts of sewage sludges deposition on agricultural soils: Effects upon model soil organisms. *Comparative Biochemistry and Physiology C-Toxicology & Pharmacology* 2022 MAY;255:109276.
- (362) Vadillo J, Larraza I, Calvo-Correas T, Gabilondo N, Derail C, Eceiza A. Bioactive inks suitable for 3D printing based on waterborne polyurethane urea, cellulose nanocrystals and Salvia extract. *Reactive & Functional Polymers* 2022 JUN;175:105286.
- (363) Vadillo J, Larraza I, Calvo-Correas T, Martin L, Derail C, Eceiza A. Enhancing the Mechanical Properties of 3D-Printed Waterborne Polyurethane-Urea and Cellulose Nanocrystal Scaffolds through Crosslinking. *Polymers* 2022 NOV;14(22):4999.
- (364) Vadillo V, Insausti M, Gutierrez J. Fe_xCo_{1-x} alloy nanoparticles: Synthesis, structure, magnetic characterization and magnetorheological application. *J Magn Magn Mater* 2022 DEC 1;563:169975.
- (365) Vakili H, Mohseni M, Ghanbari H, Yahyaei H, Makki H, Gonzalez A, et al. Enhanced hemocompatibility of a PEGilated polycarbonate based segmented polyurethane. *International Journal of Polymeric Materials and Polymeric Biomaterials* 2022 MAY 3;71(7):531-539.
- (366) Valecillos J, Elordi G, Cui M, Aguayo AT, Castano P. Evaluating catalytic (gas-solid) spectroscopic cells as intrinsic kinetic reactors: Methanol-to-hydrocarbon reaction as a case study. *Chem Eng J* 2022 DEC 15;450:137865.



- (367) Valecillos J, Vicente H, Gayubo AG, Aguayo AT, Castano P. Spectro-kinetics of the methanol to hydrocarbons reaction combining online product analysis with UV-vis and FTIR spectroscopies throughout the space time evolution. *Journal of Catalysis* 2022 APR;408:115-127.
- (368) Vallejo A, Gea J, Gorostizu-Orkaiztegi A, Maria Verges J, Martin P, Carmen Sampedro M, et al. Hormones and bile acids as biomarkers for the characterization of animal management in prehistoric sheepfold caves: El Mirador case (Sierra de Atapuerca, Burgos, Spain). *Journal of Archaeological Science* 2022 FEB;138:105547.
- (369) Valverde A, Payno D, Lezama L, Laza JM, Wuttke S, Fernandez de Luis R. Multivariate Functionalization of UiO-66 for Photocatalytic Water Remediation. *Advanced Sustainable Systems* 2022 JUL;6(7):2200024.
- (370) Valverde A, Tovar G, I., Rio-Lopez NA, Torres D, Rosales M, Wuttke S, et al. Designing Metal-Chelator-like Traps by Encoding Amino Acids in Zirconium-Based Metal-Organic Frameworks. *Chemistry of Materials* .
- (371) Vegas-Suarez S, Morera-Herreras T, Requejo C, Lafuente JV, Moratalla R, Miguelz C, et al. Motor cortico-nigral and cortico-entopeduncular information transmission and its modulation by buspirone in control and after dopaminergic denervation. *Frontiers in Pharmacology* 2022 AUG 30;13:953652.
- (372) Vela FJ, Palos R, Bilbao J, Arandes JM, Gutierrez A. Hydrogen Pressure as a Key Parameter to Control the Quality of the Naphtha Produced in the Hydrocracking of an HDPE/VGO Blend. *Catalysts* 2022 MAY;12(5):543.
- (373) Vela FJ, Palos R, Rafael Garcia J, Sedran U, Bilbao J, Arandes JM, et al. Enhancing the performance of a PtPd/HY catalyst for HDPE/VGO hydrocracking through zeolite desilication. *Fuel* 2022 DEC 1;329:125392.
- (374) Veloso-Fern A, Laza JM, Ruiz-Rubio L, Martin A, Taguado M, Benito-Vicente A, et al. Towards a new generation of non-cytotoxic shape memory thermoplastic polyurethanes for biomedical applications. *Materials Today Communications* 2022 DEC;33:104730.
- (375) Viar N, Requies JM, Agirre I, Iriondo A, Garcia-Sancho C, Arias PL. HMF hydrogenolysis over carbon-supported Ni-Cu catalysts to produce hydrogenated biofuels. *Energy* 2022 SEP 15;255:124437.
- (376) Vitoria P, San Jose Wery A, San Felices L, Bravo-Garcia L, Ruiz-Bilbao E, Manuel Laza J, et al. Reversible First-Order Single Crystal to Single Crystal Thermal Phase Transition in [(CH₃)₃CNH₃]₄[V₄O₁₂]. *Materials* 2022 AUG;15(16):5663.



(377) von Hellfeld R, Zarzuelo M, Zaldibar B, Cajaraville MP, Orbea A. Accumulation, Depuration, and Biological Effects of Polystyrene Microplastic Spheres and Adsorbed Cadmium and Benzo(a)pyrene on the Mussel *Mytilus galloprovincialis*. *Toxics* 2022 JAN;10(1):18.

(378) Wain-Martin A, Campana R, Moran-Ruiz A, Larranaga A, Arriortua MI. Synthesis and processing of SOFC components for the fabrication and characterization of anode supported cells. *Boletin De La Sociedad Espanola De Ceramica Y Vidrio* 2022;61(4):264-274.

(379) Xing G, Zheng W, Gao L, Zhang T, Wu X, Fu S, et al. Nonplanar Rhombus and Kagome 2D Covalent Organic Frameworks from Distorted Aromatics for Electrical Conduction. *J Am Chem Soc* 2022 MAR 23;144(11):5042-5050.

(380) Yazdani S, Mozaffarian M, Pazuki G, Hadidi N, Gallego I, Puras G, et al. Design of double functionalized carbon nanotube for amphotericin B and genetic material delivery. *Scientific Reports* 2022 DEC 7;12(1):21114.

(381) Yebra L, Garcia-Gomez C, Valcarcel-Perez N, Hernandez de Rojas A, Blanco-Bercial L, Castro MC, et al. Assessment of short-term spatio-temporal variability in the structure of mesozooplankton communities integrating microscopy and multigene high-throughput sequencing. *Estuarine Coastal and Shelf Science* 2022 OCT 5;276:108038.

(382) Zangi R. Binding reactions at finite systems. *Physical Chemistry Chemical Physics* 2022 MAY 4;24(17):9921-9929.

(383) Zangi R. Statistical mechanics of dimerizations and its consequences for small systems. *Physical Chemistry Chemical Physics* 2022 DEC 7;24(47):28804-28813.

(384) Zeid SB, Eid S, Najjar F, Mace A, Rivilla I, Cossio FP, et al. Microwave-Assisted 1,3-Dioxa-[3,3]-Sigmatropic Rearrangement of Substituted Allylic Carbamates: Application to the Synthesis of Novel 1,3-Oxazine-2,4-dione Derivatives. *European Journal of Organic Chemistry* 2022 JAN 11;2022(1).

(385) Zhan G, Zhen-Feng Cai, Strutynski K, Yu L, Herrmann N, Martinez-Abadia M, et al. Observing polymerization in 2D dynamic covalent polymers. *Nature* 2022 MAR 31;603(7903):835-+.

(386) Zheng F, Martins PM, Queiros JM, Tavares CJ, Vilas-Vilela JL, Lanceros-Mendez S, et al. Size Effect in Hybrid TiO₂:Au Nanostars for Photocatalytic Water Remediation Applications. *International Journal of Molecular Sciences* 2022 NOV;23(22):13741.

(387) Zhukov A, Corte-Leon P, Gonzalez-Legarreta L, Ipatov M, Blanco JM, Gonzalez A, et al. Advanced functional magnetic microwires for technological applications. *Journal of Physics D-Applied Physics* 2022 JUN 23;55(25):253003.



- (388) Zhukova V, Corte-Leon P, Blanco JM, Ipatov M, Gonzalez A, Zhukov A. Development of Co-Rich Microwires with Graded Magnetic Anisotropy. Sensors 2022 JAN;22(1):187.
- (389) Zhukova V, Corte-Leon P, Blanco JM, Ipatov M, Gonzalez-Legarreta L, Gonzalez A, et al. Development of Magnetically Soft Amorphous Microwires for Technological Applications. Chemosensors 2022 JAN;10(1):26.
- (390) Zulueta A, Azurmendi I, Rey N, Zulueta E, Fernandez-Gamiz U. Particle swarm optimization algorithm for dynamic synchronization of smart grid. Energy Sources Part A-Recovery Utilization and Environmental Effects 2022 JUN 15;44(2):3940-3959.
- (391) Zulueta A, Ispas-Gil DA, Zulueta E, Garcia-Ortega J, Fernandez-Gamiz U. Battery Sizing Optimization in Power Smoothing Applications. Energies 2022 FEB;15(3):729.