



PUBLICATIONS OF THE YEAR 2019 SUPPORTED BY THE SGIKER

- (1) Acera A, Pereiro X, Abad-Garcia B, Rueda Y, Ruzafa N, Santiago C, et al. A simple and reproducible method for quantification of human tear lipids with ultrahigh-performance liquid chromatography-mass spectrometry. *Molecular Vision* 2019 DEC 31;25:934-948.
- (2) Aizpurua J, Martin L, Formoso E, Gonzalez A, Irusta L. One pot stimuli-responsive linear waterborne polyurethanes via Diels-Alder reaction. *Prog Org Coat* 2019 MAY;130:31-43.
- (3) Akerlund L, Emanuelsson R, Hernandez G, Ruiperez F, Casado N, Brandell D, et al. In situ Investigations of a Proton Trap Material: A PEDOT-Based Copolymer with Hydroquinone and Pyridine Side Groups Having Robust Cyclability in Organic Electrolytes and Ionic Liquids. *Acs Applied Energy Materials* 2019 JUN;2(6):4486-4495.
- (4) Albo J, Perfecto-Irigaray M, Beobide G, Irabien A. Cu/Bi metal-organic framework-based systems for an enhanced electrochemical transformation of CO₂ to alcohols. *J CO₂ Util* 2019 OCT;33:157-165.
- (5) Aldalur A, Bustamante MA, Barron LJR. Effects of technological settings on yield, curd, whey, and cheese composition during the cheese-making process from raw sheep milk in small rural dairies: Emphasis on cutting and cooking conditions. *J Dairy Sci* 2019 SEP;102(9):7813-7825.
- (6) Aldasoro M, Garin I, Vallejo N, Baroja U, Arrizabalaga-Escudero A, Goiti U, et al. Gaining ecological insight on dietary allocation among horseshoe bats through molecular primer combination. *PLoS One* 2019 JUL 24;14(7):e0220081.
- (7) Aldasoro U, Merino M, Perez G. Time consistent expected mean-variance in multistage stochastic quadratic optimization: a model and a matheuristic. *Ann Oper Res* 2019 SEP;280(1-2):151-187.
- (8) Allue A, Corte-Leon P, Gondra K, Zhukova V, Ipatov M, Maria Blanco J, et al. Smart composites with embedded magnetic microwire inclusions allowing non-contact stresses and temperature monitoring. *Compos Pt A-Apppl Sci Manuf* 2019 MAY;120:12-20.
- (9) Almenara N, Miranda J, I., Rodriguez-Dieguez A, Garralda MA, Huertos MA. A phosphine-stabilized silylene rhodium complex. *Dalton Transactions* 2019 DEC 14;48(46):17179-17183.
- (10) Alvarez KL, Martin JM, Burgos N, Ipatov M, Dominguez L, Gonzalez J. Structural and magnetic properties of amorphous and nanocrystalline Fe-Si-B-P-Nb-Cu alloys produced by gas atomization. *J Alloys Compounds* 2019 NOV 25;810:UNSP 151754.



- (11) Alvarez V, Williams NSJ, Paulis M. Isolation of the interaction between CaCO₃ filler and acrylic binder. Part II: Effect of the amount and type of functional monomer. *Prog Org Coat* 2019 SEP;134:281-287.
- (12) Andrade-Del Olmo J, Perez-Alvarez L, Hernaez E, Ruiz-Rubio L, Luis Vilas-Vilela J. Antibacterial multilayer of chitosan and (2-carboxyethyl)-beta-cyclodextrin onto polylactic acid (PLLA). *Food Hydrocoll* 2019 MAR;88:228-236.
- (13) Antonazzo M, Gutierrez-Ceballos A, Bustinza I, Ugedo L, Morera-Herreras T. Cannabinoids differentially modulate cortical information transmission through the sensorimotor or medial prefrontal basal ganglia circuits. *Br J Pharmacol* 2019 APR;176(8):1156-1169.
- (14) Aramendia I, Fernandez-Gamiz U, Lopez-Arraiza A, Rey-Santano C, Mielgo V, Jose Basterretxea F, et al. Experimental Evaluation of Perfluorocarbon Aerosol Generation with Two Novel Nebulizer Prototypes. *Pharmaceutics* 2019 JAN;11(1):19.
- (15) Arana L, Bayon-Cordero L, Isabel Sarasola L, Berasategi M, Ruiz S, Alkorta I. Solid Lipid Nanoparticles Surface Modification Modulates Cell Internalization and Improves Chemotoxic Treatment in an Oral Carcinoma Cell Line. *Nanomaterials* 2019 MAR 20;9(3):464.
- (16) Arcelus O, Carrasco J. Atomistic Insight into Glide-Driven Phase Transformations in Layered Oxides for Sodium-Ion Batteries: A Case Study on Na_xVO₂. *ACS Appl Mater Interfaces* 2019 APR 3;11(13):12562-12569.
- (17) Aristieta A, Ruiz-Ortega JA, Morera-Herreras T, Miguelez C, Ugedo L. Acute L-DOPA administration reverses changes in firing pattern and low frequency oscillatory activity in the entopeduncular nucleus from long term L-DOPA treated 6-OHDA-lesioned rats. *Exp Neurol* 2019 DEC;322:113036.
- (18) Arnaiz M, Goikolea E, Rojo T, Wittscher L, Balducci A, Ajuria J. On the use of 3-cyanopropionic acid methyl ester as alternative solvent for high voltage dual carbon lithium ion capacitors. *J Power Sources* 2019 SEP 15;434:226757.
- (19) Arrizabalaga-Escudero A, Merckx T, Garcia-Baquero G, Wahlberg N, Aizpurua O, Garin I, et al. Trait-based functional dietary analysis provides a better insight into the foraging ecology of bats. *J Anim Ecol* 2019 OCT;88(10):1587-1600.
- (20) Arrospide E, Bikandi I, Larranaga I, Cearsolo X, Zubia J, Durana G. Harnessing Deep-Hole Drilling to Fabricate Air-Structured Polymer Optical Fibres. *Polymers* 2019 NOV;11(11):1739.



- (21) Attia N, Mashal M, Grijalvo S, Eritja R, Puras G, Luis Pedraz J. Cationic niosome-based hBMP7 gene transfection of neuronal precursor NT2 cells to reduce the migration of glioma cells in vitro. *J Drug Deliv Sci Technol* 2019 OCT;53:UNSP 101219.
- (22) Avellanal-Zaballa E, Ventura J, Gartzia-Rivero L, Banuelos J, Garcia-Moreno I, Uriel C, et al. Towards Efficient and Photostable Red-Emitting Photonic Materials Based on Symmetric All-BODIPY-Triads, -Pentads, and -Hexads. *Chemistry-a European Journal* 2019 NOV 22;25(65):14959-14971.
- (23) Aviles A, Aviles R, Albizuri J, Pallares-Santasmartas L, Rodriguez A. Effect of shot-peening and low-plasticity burnishing on the high-cycle fatigue strength of DIN 34CrNiMo6 alloy steel. *Int J Fatigue* 2019 FEB;119:338-354.
- (24) Azpeitia S, Barquin M, Mendicute-Fierro C, Huertos MA, Rodriguez-Dieguez A, Seco JM, et al. (Diphenylphosphino)alkylaldehyde affords hydride- or alkyl-[(diphenylphosphino)alkylacyl]rhodium(iii) or (diphenylphosphino)alkylester complexes: theoretical and experimental diastereoselectivity. *Dalton Transactions* 2019 MAR 14;48(10):3300-3313.
- (25) Bachagha T, Zhang J, Sunol JJ, Khitouni M. Martensitic transformation and magnetic behavior in Mn-rich Hensler MnNiIn shape memory alloys. *2nd International Workshop on Materials Science and Mechanical Engineering (Iwmsme2018)* 2019;504:012009.
- (26) Badia A, Santos JI, Agirre A, Barandiaran MJ, Leiza JR. UV-Tunable Biobased Pressure-Sensitive Adhesives Containing Piperonyl Methacrylate. *ACS Sustainable Chemistry & Engineering* 2019 DEC 2;7(23):19122-19130.
- (27) Baeta M, Garcia-Rey S, Palencia-Madrid L, Raffone C, de Pancorbo MM. Forensic application of a mtDNA minisequencing 52plex: Tracing maternal lineages in Spanish Civil War remains. *Forensic Sci Int Genet Suppl Ser* 2019 DEC;7(1):457-458.
- (28) Bandiera M, Hamzehlou S, Ruiperez F, Aguirre M, Balk R, Barandiaran MJ, et al. Copolymerization of (meth)acrylates with vinyl aromatic macromonomers: understanding the mechanism of retardation on the kinetics with acrylates. *Polym Chem* 2019 APR 14;10(14):1769-1779.
- (29) Barandiaran I, Gutierrez J, Etxeberria H, Tercjak A, Kortaberria G. Tuning photoresponsive and dielectric properties of PVA/CdSe films by capping agent change. *Compos Pt A-Appl Sci Manuf* 2019 MAR;118:194-201.
- (30) Barandiaran JM, Martin-Cid A, Schonhobel AM, Garitaonandia JS, Gjoka M, Niarchos D, et al. Nitrogenation and sintering of (Nd-Zr)Fe₁₀Si₂ tetragonal compounds for permanent magnets applications. *J Alloys Compounds* 2019 MAY 5;784:996-1002.



- (31) Barbolla I, Lete E, Sotomayor N. Intramolecular Mizoroki-Heck Reaction in the Synthesis of Heterocycles: Strategies for the Generation of Tertiary and Quaternary Stereocenters. *Reviews and Accounts on Heterocyclic Chemistry* 2019;23:340-362.
- (32) Barbolla I, Sotomayor N, Lete E. Carbopalladation/Suzuki Coupling Cascade for the Generation of Quaternary Centers: Access to Pyrrolo[1,2-b]isoquinolines. *J Org Chem* 2019 AUG 16;84(16):10183-10196.
- (33) Baroja U, Garin I, Aihartza J, Arrizabalaga-Escudero A, Vallejo N, Aldasoro M, et al. Pest consumption in a vineyard system by the lesser horseshoe bat (*Rhinolophus hipposideros*). *PLoS One* 2019 JUL 18;14(7):e0219265.
- (34) Barrejon M, Mateo-Alonso A, Prato M. Carbon Nanostructures in Rotaxane Architectures. *Eur J Org Chem* 2019 JUN 10(21):3371-3383.
- (35) Barroso N, Guaresti O, Perez-Alvarez L, Ruiz-Rubio L, Gabilondo N, Luis Vilas-Vilela J. Self-healable hyaluronic acid/chitosan polyelectrolyte complex hydrogels and multilayers. *European Polymer Journal* 2019 NOV;120:UNSP 109268.
- (36) Basterretxea A, Gabirondo E, Flores I, Etxeberria A, Gonzalez A, Mueller AJ, et al. Isomorphic Polyoxyalkylene Copolyethers Obtained by Copolymerization of Aliphatic Diols. *Macromolecules* 2019 MAY 14;52(9):3506-3515.
- (37) Basterretxea A, Gabirondo E, Jehanno C, Zhu H, Flores I, Mueller AJ, et al. Polyether Synthesis by Bulk Self-Condensation of Diols Catalyzed by Non-Eutectic Acid-Base Organocatalysts. *ACS Sustain Chem Eng* 2019 FEB 18;7(4):4103-4111.
- (38) Belmonte-Vazquez JL, Avellanal-Zaballa E, Enriquez-Palacios E, Cerdan L, Esnal I, Banuelos J, et al. Synthetic Approach to Readily Accessible Benzofuran-Fused Borondipyrromethenes as Red-Emitting Laser Dyes. *J Org Chem* 2019 MAR 1;84(5):2523-2541.
- (39) Belveren S, Larranaga O, Poyraz S, Dondas HA, Ulger M, Sahin E, et al. From Bioactive Pyrrolidino[3,4-c] pyrrolidines to more Bioactive Pyrrolidino[3,4-b] pyrrolidines via Ring-Opening/ Ring-Closing Promoted by Sodium Methoxide. *Synthesis* 2019 APR;51(7):1565-1577.
- (40) Benito S, Sanchez-Ortega A, Unceta N, Goicolea MA, Barrio RJ. LC-QQQ-MS routine analysis method for new biomarker quantification in plasma aimed at early chronic kidney disease diagnosis. *J Pharm Biomed Anal* 2019 MAY 30;169:82-89.
- (41) Beranoaguirre A, Puelles P, Abalos B, Gil Ibarguchi JI, Garcia de Madinabeitia S. Short-duration regional metamorphic event recorded in a Variscan subduction channel (Malpica-Tui eclogites, NW Iberia). *Int J Earth Sci* 2019 SEP;108(6):2037-2046.



- (42) Beranoaguirre A, Pin C, Eugenia Sanchez-Lorda M, Garcia de Madinabeitia S, Gil Lbarguchi JJ. An evaluation of Rb-Sr isotope dilution analyses with a Sr-86-enriched tracer and Multiple Collection-ICP-MS. *Int J Mass Spectrom* 2019 JAN;435:234-240.
- (43) Bermejo-Lopez A, Pereda-Ayo B, Gonzalez-Marcos JA, Gonzalez-Velasco JR. Mechanism of the CO₂ storage and in situ hydrogenation to CH₄. Temperature and adsorbent loading effects over Ru-CaO/Al₂O₃ and Ru-Na₂CO₃/Al₂O₃ catalysts. *Appl Catal B-Environ* 2019 NOV 5;256:UNSP 117845.
- (44) Bermejo-Lopez A, Pereda-Ayo B, Gonzalez-Marcos JA, Gonzalez-Velasco JR. Ni loading effects on dual function materials for capture and in-situ conversion of CO₂ to CH₄ using CaO or Na₂CO₃. *Journal of Co2 Utilization* 2019 DEC;34:576-587.
- (45) Bikas R, Shahmoradi E, Reinoso S, Emami M, Lezama L, Sanchiz J, et al. The effect of the orientation of the Jahn-Teller distortion on the magnetic interactions of trinuclear mixed-valence Mn(ii)/Mn(iii) complexes. *Dalton Trans* 2019 SEP 28;48(36):13799-13812.
- (46) Bilbao-Arribas M, Abendano N, Varela-Martinez E, Reina R, de Andres D, Jugo BM. Expression analysis of lung miRNAs responding to ovine VM virus infection by RNA-seq. *BMC Genomics* 2019 JAN 18;20:62.
- (47) Bizkarguenaga M, Gomez-Santos L, Madrid JF, Saez FJ, Alonso E. Increase of germ cell nuclear factor expression in globozoospermic Gopc(-/-) knockout mice. *Andrology* 2019 MAY;7(3):319-328.
- (48) Bizkarra K, Barrio VL, Gartzia-Rivero L, Banuelos J, Lopez-Arbeloa I, Cambra JF. Hydrogen production from a model bio-oil/bio-glycerol mixture through steam reforming using Zeolite L supported catalysts. *Int J Hydrogen Energy* 2019 JAN 15;44(3):1492-1504.
- (49) Blyakhman FA, Makarova EB, Fadeyev FA, Lugovets D, V., Safronov AP, Shabadrov PA, et al. The Contribution of Magnetic Nanoparticles to Ferrogel Biophysical Properties. *Nanomaterials* 2019 FEB;9(2):232.
- (50) Bonilla MR, Garcia Daza FA, Carrasco J, Akhmatskaya E. Exploring Li-ion conductivity in cubic, tetragonal and mixed-phase Al-substituted Li₇La₃Zr₂O₁₂ using atomistic simulations and effective medium theory. *Acta Mater* 2019 AUG 15;175:426-435.
- (51) Bonilla-Del Rio I, Puente N, Penasco S, Rico I, Gutierrez-Rodriguez A, Elezgarai I, et al. Adolescent ethanol intake alters cannabinoid type-1 receptor localization in astrocytes of the adult mouse hippocampus. *Addict Biol* 2019 MAR;24(2):182-192.



- (52) Bossion A, Olazabal I, Aguirresarobe RH, Marina S, Martin J, Irusta L, et al. Synthesis of self-healable waterborne isocyanate-free poly(hydroxyurethane)-based supramolecular networks by ionic interactions. *Polym Chem* 2019 JUN 7;10(21):2723-2733.
- (53) Boukha Z, Ayastuy JL, Cortes-Reyes M, Alemany LJ, Gonzalez-Velasco JR, Gutierrez-Ortiz MA. Catalytic performance of Cu/hydroxyapatite catalysts in CO preferential oxidation in H₂-rich stream. *Int J Hydrogen Energy* 2019 MAY 17;44(25):12649-12660.
- (54) Boukha Z, Pilar Yeste M, Angel Cauqui M, Gonzalez-Velasco JR. Influence of Ca/P ratio on the catalytic performance of Ni/hydroxyapatite samples in dry reforming of methane. *Appl Catal A-Gen* 2019 JUN 25;580:34-45.
- (55) Bravo-Garcia L, Larrea ES, Artetxe B, Lezama L, Gutierrez-Zorrilla JM, Arriortua M, I. Structural Transformations in the Thermal Dehydration of [Cu-2(bpa)(btec)(H₂O)(4)](n) Coordination Polymer. *Molecules* 2019 MAY 1;24(9):1840.
- (56) Buezo J, Esteban R, Cornejo A, Lopez-Gomez P, Marino D, Chamizo-Ampudia A, et al. IAOx induces the SUR phenotype and differential signalling from IAA under different types of nitrogen nutrition in *Medicago truncatula* roots. *Plant Sci* 2019 OCT;287:110176.
- (57) Buldain I, Pellon A, Zaldibar B, Antoran A, Martin-Souto L, Aparicio-Fernandez L, et al. Study of Humoral Responses against *Lomentospora/Scedosporium* spp. and *Aspergillus fumigatus* to Identify *L. prolificans* Antigen of Interest for Diagnosis and Treatment. *Vaccines* 2019 DEC;7(4):212.
- (58) Burgoa A, Hernandez R, Vilas JL. Toward superior applications of thermoplastic elastomer blends: double T-g increase and improved ductility. *Polym Int* 2019 JUN;68(6):1130-1139.
- (59) Butron A, Llorente O, Fernandez J, Meaurio E, Sarasua J. Morphology and mechanical properties of poly(ethylene brassylate)/cellulose nanocrystal composites. *Carbohydr Polym* 2019 OCT 1;221:137-145.
- (60) Cala L, Rivilla I, Cossio FP, Fananas FJ, Rodriguez F. Synthesis of Sultones from Chlorosulfates by a Complex Cascade Reaction Occurring under Mild Thermal Conditions. *Chemistry-a European Journal* 2019 OCT 11;25(57):13083-13087.
- (61) Calabrese C, Ecija P, Companon I, Vallejo-Lopez M, Cimas A, Parra M, et al. Conformational Behavior of D-Lyxose in Gas and Solution Phases by Rotational and NMR Spectroscopies. *Journal of Physical Chemistry Letters* 2019 JUN 20;10(12):3339-3345.



- (62) Calabrese C, Li W, Prampolini G, Evangelisti L, Uriarte I, Cacelli I, et al. A General Treatment to Study Molecular Complexes Stabilized by Hydrogen-, Halogen-, and Carbon-Bond Networks: Experiment and Theory of $(\text{CH}_2\text{F}_2)_n$ center dot center dot center dot $(\text{H}_2\text{O})_m$. *Angew Chem -Int Edit* 2019 JUN 17;58(25):8437-8442.
- (63) Caleffi GS, Larranaga O, Ferrandiz-Saperas M, Costa PRR, Najera C, de Cozar A, et al. Switching Diastereoselectivity in Catalytic Enantioselective (3+2) Cycloadditions of Azomethine Ylides Promoted by Metal Salts and Privileged Segphos-Derived Ligands. *J Org Chem* 2019 SEP 6;84(17):10593-10605.
- (64) Calparsoro E, Sanchez-Garmendia U, Arana G, Maguregui M, Inanez JG. An archaeometric approach to the majolica pottery from alcazar of Najera archaeological site. *Herit Sci* 2019 MAY 22;7:33.
- (65) Calvo-Correas T, Garrido P, Alonso-Varona A, Palomares T, Angeles Corcuera M, Eceiza A. Biocompatible thermoresponsive polyurethane bionanocomposites with chitin nanocrystals. *J Appl Polym Sci* 2019 APR 20;136(16):47430.
- (66) Calvo-Correas T, Shirole A, Crippa F, Fink A, Weder C, Angeles Corcuera M, et al. Biocompatible thermo- and magneto-responsive shape-memory polyurethane bionanocomposites. *Mater Sci Eng C-Mater Biol Appl* 2019 APR;97:658-668.
- (67) Camiruaga A, Usabiaga I, D'mello VC, Garcia GA, Wategaonkar S, Fernandez JA. Revisiting the spectroscopy of xanthine derivatives: theobromine and theophylline. *Physical Chemistry Chemical Physics* 2019 DEC 28;21(48):26430-26437.
- (68) Campana R, Sevilla G, Herradon C, Larranaga A, Rodriguez J. Use of multi-injector for electrospinning of ceramic fibers in energy applications. *Boletin De La Sociedad Espanola De Ceramica Y Vidrio* 2019 NOV-DEC;58(6):238-245.
- (69) Campano TE, Iriarte I, Olaizola O, Etxabe J, Mielgo A, Ganboa I, et al. Enantioselective Addition of Alkynyl Ketones to Nitroolefins Assisted by Bronsted Base/H-Bonding Catalysis. *Chem -Eur J* 2019 MAR 21;25(17):4390-4397.
- (70) Carini M, Marongiu M, Strutynski K, Saeki A, Melle-Franco M, Mateo-Alonso A. Hooking Together Sigmoidal Monomers into Supramolecular Polymers. *Angewandte Chemie-International Edition* 2019.
- (71) Carini M, Shi L, Chamberlain TW, Liu M, Valenti G, Melle-Franco M, et al. Wall- and Hybridisation-Selective Synthesis of Nitrogen-Doped Double-Walled Carbon Nanotubes. *Angew Chem -Int Edit* 2019 JUL 22;58(30):10276-10280.
- (72) Carral-Menoyo A, Misol A, Gomez-Redondo M, Sotomayor N, Lete E. Palladium(II)-Catalyzed Intramolecular C-H Alkenylation for the Synthesis of Chromanes. *J Org Chem* 2019 FEB 15;84(4):2048-2060.



- (73) Carraminana V, Ochoa de Retana AM, Velez del Burgo A, de los Santos JM, Palacios F. Synthesis and biological evaluation of cyanoaziridine phosphine oxides and phosphonates with antiproliferative activity. *Eur J Med Chem* 2019 FEB 1;163:736-746.
- (74) Carrano G, Paulone S, Lainz L, Sevilla M, Blasi E, Moragues M. Anti-Candida albicans germ tube antibodies reduce in vitro growth and biofilm formation of C. albicans. *Rev Iberoam Micol* 2019 JAN 31;36(1):9-16.
- (75) Carreras A, Uranga-Barandiaran O, Castet F, Casanova D. Photophysics of Molecular Aggregates from Excited State Diabatization. *J Chem Theory Comput* 2019 APR;15(4):2320-2330.
- (76) Castellanos-Rubio I, Rodrigo I, Munshi R, Arriortua O, Garitaonandia JS, Martinez-Amesti A, et al. Outstanding heat loss via nano-octahedra above 20 nm in size: from wustite-rich nanoparticles to magnetite single-crystals. *Nanoscale* 2019 SEP 21;11(35):16635-16649.
- (77) Castillo O, Delgado E, Hernandez D, Hernandez E, Martin A, Perez M, et al. Synthesis and crystal structures of ion-pairs based on anionic iron-dithiolenes and alkylammonium as counteraction. *J Mol Struct* 2019 NOV 15;1196:323-331.
- (78) Ceprian M, Vargas C, Garcia-Toscano L, Penna F, Jimenez-Sanchez L, Achicallende S, et al. Cannabidiol Administration Prevents Hypoxia-Ischemia-Induced Hypomyelination in Newborn Rats. *Front Pharmacol* 2019 SEP 26;10:1131.
- (79) Chico Y, Abad-Garcia B, Ochoa B, Jose Martinez M. Lipidomic data uncover extensive heterogeneity in phosphatidylcholine structural variants in HepG2 cells. *Data Brief* 2019 DEC;27:104608.
- (80) Chimenti S, Manuel Vega J, Garcia-Lecina E, Grande H, Paulis M, Ramon Leiza J. In-situ phosphatization and enhanced corrosion properties of films made of phosphate functionalized nanoparticles. *React Funct Polym* 2019 OCT;143:UNSP 104334.
- (81) Chimenti S, Manuel Vega J, Garcia Lecina E, Jurgen Grande H, Paulis M, Ramon Leiza J. Combined Effect of Crystalline Nanodomains and in Situ Phosphatization on the Anticorrosion Properties of Waterborne Composite Latex Films. *Ind Eng Chem Res* 2019 NOV 20;58(46):21022-21030.
- (82) Choya A, de Rivas B, Ignacio Gutierrez-Ortiz J, Ramon Gonzalez-Velasco J, Lopez-Fonseca R. Synthesis, Characterization and Kinetic Behavior of Supported Cobalt Catalysts for Oxidative after-Treatment of Methane Lean Mixtures. *Materials* 2019 OCT;12(19):3174.
- (83) Choya A, de Rivas B, Ramon Gonzalez-Velasco J, Ignacio Gutierrez-Ortiz J, Lopez-Fonseca R. On the beneficial effect of MgO promoter on the performance of



Co₃O₄/Al₂O₃ catalysts for combustion of dilute methane. *Appl Catal A-Gen* 2019 JUL 25;582:117099.

(84) Churyukanova M, Kaloshkin S, Shuvaeva E, Mitra A, Panda AK, Roy RK, et al. The effect of heat treatment on magnetic and thermal properties of Finemet-type ribbons and microwires. *J Magn Magn Mater* 2019 DEC 15;492:UNSP 165598.

(85) Cobos M, De-La-Pinta I, Quindos G, Jesus Fernandez M, Dolores Fernandez M. One-step eco-friendly synthesized silver-graphene oxide/poly(vinyl alcohol) antibacterial nanocomposites. *Carbon* 2019 SEP;150:101-116.

(86) Cobos M, Ramos JR, Guzman DJ, Dolores Fernandez M, Jesus Fernandez M. PCL/POSS Nanocomposites: Effect of POSS Derivative and Preparation Method on Morphology and Properties. *Polymers* 2019 JAN;11(1):33.

(87) Coisson M, Barrera G, Appino C, Celegato F, Martino L, Safronov AP, et al. Specific loss power measurements by calorimetric and thermal methods on gamma-Fe₂O₃ nanoparticles for magnetic hyperthermia. *J Magn Magn Mater* 2019 MAR 1;473:403-409.

(88) Cordero-Lanzac T, Aguayo AT, Castano P, Bilbao J. Kinetics and reactor modeling of the conversion of n-pentane using HZSM-5 catalysts with different Si/Al ratios. *Reaction Chemistry & Engineering* 2019 NOV 1;4(11):1922-1934.

(89) Cornu JY, Randriamamonjy S, Gutierrez M, Rocco K, Gaudin R, Ouerdane L, et al. Copper phytoavailability in vineyard topsoils as affected by pyoverdine supply. *Chemosphere* 2019 DEC;236:UNSP 124347.

(90) Correia DM, Fernandes LC, Garcia-Astrain C, Tariq M, Esperanca JMSS, Bermudez VdZ, et al. Magnetic ionic liquid/polymer composites: Tailoring physico-chemical properties by ionic liquid content and solvent evaporation temperature. *Composites Part B-Engineering* 2019 DEC 1;178:UNSP 107516.

(91) Corte-Leon P, Blanco JM, Zhukova V, Ipatov M, Gonzalez J, Churyukanova M, et al. Engineering of Magnetic Softness and Domain Wall Dynamics of Fe-rich Amorphous Microwires by Stress-induced Magnetic Anisotropy. *Sci Rep* 2019 AUG 27;9:12427.

(92) Corte-Leon P, Zhukova V, Ipatov M, Blanco JM, Gonzalez J, Churyukanova M, et al. Stress dependence of the magnetic properties of glass-coated amorphous microwires. *J Alloys Compounds* 2019 JUN 15;789:201-208.

(93) Corte-Leon P, Zhukova V, Ipatov M, Blanco JM, Gonzalez J, Dominguez L, et al. High frequency giant magnetoimpedance effect of a stress-annealed Fe-rich glass-coated microwire. *J Alloys Compounds* 2019 SEP 25;802:112-117.



- (94) Corte-Leon P, Zhukova V, Ipatov M, Blanco JM, Gonzalez J, Zhukov A. Engineering of magnetic properties of Co-rich microwires by joule heating. *Intermetallics* 2019 FEB;105:92-98.
- (95) Corte-Leon P, Zhukova V, Ipatov M, Blanco JM, Gonzalez J, Zhukov A. Magnetic properties of "thick" glass-coated Fe-rich microwires. *AIP Adv* 2019 MAR;9(3):035017.
- (96) Corte-Leon P, Zhukova V, Ipatov M, Maria Blanco J, Gonzalez J, Zhukov A. Optimization of GMI Effect and Magnetic Properties of Co-Rich Microwires by Joule Heating. *IEEE Trans Magn* 2019 FEB;55(2):2000404.
- (97) Crippa F, Rodriguez-Lorenzo L, Hua X, Goris B, Bals S, Garitaonandia JS, et al. Phase Transformation of Superparamagnetic Iron Oxide Nanoparticles via Thermal Annealing: Implications for Hyperthermia Applications. *ACS Appl Nano Mater* 2019 JUL;2(7):4462-4470.
- (98) Dai L, Arcelus O, Sun L, Wang H, Carrasco J, Zhang H, et al. Embedded 3D Li+ channels in a water-in-salt electrolyte to develop flexible supercapacitors and lithium-ion batteries. *Journal of Materials Chemistry a* 2019 NOV 21;7(43):24800-24806.
- (99) Dalla Torre G, Mujika J, I, Izabela Lachowicz J, Ramos MJ, Lopez X. The interaction of aluminum with catecholamine-based neurotransmitters: can the formation of these species be considered a potential risk factor for neurodegenerative diseases? *Dalton Trans* 2019 MAY 14;48(18):6003-6018.
- (100) Dalvand P, Raygan S, Lopez GA, Melendez MB, Chernenko VA. Properties of rare earth added Cu-12wt%Al-3wt%Ni-0.6wt%Ti high temperature shape memory alloy. *Mater Sci Eng A-Struct Mater Prop Microstruct Process* 2019 APR 29;754:370-381.
- (101) Davila I, Gullon B, Luis Alonso J, Labidi J, Gullon P. Vine shoots as new source for the manufacture of prebiotic oligosaccharides. *Carbohydr Polym* 2019 MAR 1;207:34-43.
- (102) De la Fuente IM, Bringas C, Malaina I, Regner B, Perez-Samartin A, Dolores Boyano M, et al. The nucleus does not significantly affect the migratory trajectories of amoeba in two-dimensional environments. *Scientific Reports* 2019 NOV 8;9:16369.
- (103) de la Pena M, Begona Gonzalez-Moro M, Marino D. Providing carbon skeletons to sustain amide synthesis in roots underlines the suitability of *Brachypodium distachyon* for the study of ammonium stress in cereals. *Aob Plants* 2019 JUN;11(3):plz029.
- (104) de los Santos JM, Rubiales G, Es Sbai Z, Carraminana V, Ochoa de Retana AM, Palacios F. Reaction of phosphinyl nitrosoalkenes with electron-rich heterocycles. *Phosphorus Sulfur and Silicon and the Related Elements* 2019 MAY 27;194(4-6):545-549.



(105) del Corte X, Martinez de Marigorta E, Palacios F, Vicario J. A Bronsted Acid-Catalyzed Multicomponent Reaction for the Synthesis of Highly Functionalized gamma-Lactam Derivatives. *Molecules* 2019 AUG;24(16):2951.

(106) De-la-Pinta I, Cobos M, Ibarretxe J, Montoya E, Eraso E, Guraya T, et al. Effect of biomaterials hydrophobicity and roughness on biofilm development. *J Mater Sci -Mater Med* 2019 JUL;30(7):77.

(107) Diaz E, Blanca Valle M, Ribeiro S, Lanceros-Mendez S, Manuel Barandiaran J. A New Approach for the Fabrication of Cytocompatible PLLA-Magnetite Nanoparticle Composite Scaffolds. *Int J Mol Sci* 2019 OCT;20(19):4664.

(108) Diaz E, Molpeceres AL, Sandonis I, Puerto I. PLLA/nHA Composite Films and Scaffolds for Medical Implants: In Vitro Degradation, Thermal and Mechanical Properties. *J Inorg Organomet Polym Mater* 2019 JAN;29(1):121-131.

(109) Diaz E, Valle MB, Ribeiro S, Lanceros-Mendez S, Barandiaran JM. 3D Cytocompatible Composites of PCL/Magnetite. *Materials* 2019 DEC;12(23):3843.

(110) Diez-Ercilla M, Falagan C, Yusta I, Sanchez-Espana J. Metal mobility and mineral transformations driven by bacterial activity in acidic pit lake sediments: evidence from column experiments and sequential extraction. *J Soils Sediments* 2019 MAR;19(3):1527-1542.

(111) Diez-Garcia I, Eceiza A, Tercjak A. Self-Healable Nanocomposites with Enhanced Thermal Stability by Incorporation of TiO₂ Nanoparticles to Waterborne Poly(urethane-urea) Matrices Based on Amphiphilic Triblock Copolymers. *J Phys Chem C* 2019 AUG 29;123(34):21290-21298.

(112) Diez-Garcia I, Eceiza A, Tercjak A. Improvement of Mechanical Properties and Self-Healing Efficiency by Ex-Situ Incorporation of TiO₂ Nanoparticles to a Waterborne Poly(Urethane-Urea). *Polymers* 2019 JUL;11(7):1209.

(113) Dolores Fernandez M, Guzman DJ, Ramos JR, Jesus Fernandez M. Effect of Alkyl Chain Length in POSS Nanocage on Non-Isothermal Crystallization Behavior of PCL/Amino-POSS Nanocomposites. *Polymers* 2019 OCT;11(10):1719.

(114) Domenech-Carbo A, Bernabeu-Auban J. Correlation between lead isotope analysis and solid-state electrochemistry for determining the provenance of archaeological bronze. *J Solid State Electrochem* 2019 OCT;23(10):2803-2812.

(115) Duque-Redondo E, Lopez-Arbeloa I, Manzano H. Distinctive Diffusion Regimes of Organic Molecules in Clays: (De)Coupled Motion with Water. *J Phys Chem C* 2019 JAN 10;123(1):511-516.



- (116) Duroudier N, Markaide P, Cajaraville MP, Bilbao E. Season influences the transcriptomic effects of dietary exposure to PVP/PEI coated Ag nanoparticles on mussels *Mytilus galloprovincialis*. *Comp Biochem Physiol C-Toxicol Pharmacol* 2019 AUG;222:19-30.
- (117) Echaniz T, Gonzalez de Arrieta I, Fuente R, Urcelay-Olabarria I, Igartua JM, de la Pinta N, et al. Thermal radiative properties of electron-beam-melted and mechanically alloyed V-4Cr-4Ti based alloys between 200 and 750 degrees C. *J Nucl Mater* 2019 JAN;513:86-93.
- (118) Echenique-Errandonea E, Zabala-Lekuona A, Cepeda J, Rodriguez-Dieguez A, Seco JM, Oyarzabal I, et al. Effect of the change of the ancillary carboxylate bridging ligand on the SMM and luminescence properties of a series of carboxylate-diphenoxido triply bridged dinuclear ZnLn and tetranuclear Zn(2)Ln(2) complexes (Ln = Dy, Er). *Dalton Trans* 2019 JAN 7;48(1):190-201.
- (119) Elguezabal P, Lopez A, Blanco JM, Chica JA. New Concept of Solar Collector Integrated into a Sandwich Panel as an Active Facade; Cfd Based Parametric Assessment and Case Study. *Dyna* 2019 NOV;94(6):691-697.
- (120) Elorza J, Higuera-Ruiz R, Pascual A. Coastal karstification in the Urganian limestones-dolomites (Aptian-Albian) of the eastern coast of Cantabria: Chemical weathering, biological activity and mechanical abrasion. *Rev Soc Geol Esp* 2019;32(1):3-24.
- (121) Elu N, Osinalde N, Beaskoetxea J, Ramirez J, Lectez B, Aloria K, et al. Detailed Dissection of UBE3A-Mediated DDI1 Ubiquitination. *Front Physiol* 2019 MAY 3;10:534.
- (122) Emaldi I, Hamzehlou S, Erkizia E, Sanchez Dolado J, Etxeberria A, Ramon Leiza J. Modelling and control of the microstructure of comb-like poly(MAA-co-PEGMA) water-soluble copolymers. *Polym Chem* 2019 FEB 28;10(8):1000-1009.
- (123) Erice A, Azcune I, Ruiz de Luzuriaga A, Ruiperez F, Irigoyen M, Mattin Matxain J, et al. Effect of Regioisomerism on Processability and Mechanical Properties of Amine/Urea Exchange Based Poly(urea-urethane) Vitrimers. *ACS Appl Polym Mater* 2019 SEP;1(9):2472-2481.
- (124) Errandonea-Martin J, Sarrionandia F, Janousek V, Carracedo-Sanchez M, Gil Ibarguchi JJ. Origin of cordierite-bearing monzogranites from the southern Central Iberian Zone - Inferences from the zoned Sierra Bermeja Pluton (Extremadura, Spain). *Lithos* 2019 OCT;342:440-462.



- (125) Errandonea-Martin J, Sarrionandia F, Junguitu J, Carracedo-Sanchez M, Eguiluz L, Gil Ibarguchi JI. The composite Sierra Bermeja Pluton (southern Iberian Massif): science, heritage and geoconservation. *J Maps* 2019 JUL 3;15(2):101-111.
- (126) Esteban JJ, Cuevas J, Tubia JM. Geochemistry and origin of zircon in chlorite schists of the Ronda peridotites (Betic Cordilleras, southern Spain). *Lithosphere* 2019 DEC;11(6):855-867.
- (127) Etxaniz I, Llorente O, Aizpurua J, Martin L, Gonzalez A, Irusta L. Dispersion Characteristics and Curing Behaviour of Waterborne UV Crosslinkable Polyurethanes Based on Renewable Dimer Fatty Acid Polyesters. *J Polym Environ* 2019 JAN;27(1):189-197.
- (128) Eugenia Ibanez-Zamacona M, Poveda A, Rebato E. Contribution of obesity associated genetic variants to anthropometric somatotype components. *Anthropol Anz* 2019;76(2):101-111.
- (129) Fanjul-Mosteirin N, Jehanno C, Ruiperez F, Sardon H, Dove AP. Rational Study of DBU Salts for the CO₂ Insertion into Epoxides for the Synthesis of Cyclic Carbonates. *ACS Sustain Chem Eng* 2019 JUN 17;7(12):10633-10640.
- (130) Fernandez de Luis R, Larrea ES, Orive J, Lezama L, Costa CM, Lanceros-Mendez S, et al. Thermal activation of charge carriers in ionic and electronic semiconductor beta-(AgVO₃)-V-I-O-V and beta-(AgVO₃)-V-I-O-V@(V1.6V0.4O4.8)-V-V-O-IV composite xerogels. *RSC Adv* 2019 DEC 19;9(72):42439-42449.
- (131) Fernandez R, Garate J, Martin-Saiz L, Galetich I, Fernandez JA. Matrix Sublimation Device for MALDI Mass Spectrometry Imaging. *Anal Chem* 2019 JAN 1;91(1):803-807.
- (132) Fernandez-Jimenez N, Garcia-Etxebarria K, Plaza-Izurieta L, Romero-Garmendia I, Jauregi-Miguel A, Legarda M, et al. The methylome of the celiac intestinal epithelium harbours genotype-independent alterations in the HLA region. *Sci Rep* 2019 FEB 4;9:1298.
- (133) Ferreiro C, Villota N, Lombrana JI, Rivero MJ. An efficient catalytic process for the treatment of genotoxic aniline wastewater using a new granular activated carbon-supported titanium dioxide composite. *J Clean Prod* 2019 AUG 10;228:1282-1295.
- (134) Formoso E, Grande-Aztatzi R, Lopez X. Does phosphorylation increase the binding affinity of aluminum? A computational study on the aluminum interaction with serine and O-phosphoserine. *J Inorg Biochem* 2019 MAR;192:33-44.
- (135) Fustero S, Rodenes M, Roman R, Sedgwick DM, Enrique Aguado J, Soloshonok VA, et al. Asymmetric Vinylogous Mukaiyama-Mannich Reactions of Heterocyclic



Siloxy Dienes with Ellman's Fluorinated Aldimines. *Adv Synth Catal* 2019 AUG 21;361(16):3860-3867.

(136) Gabriela Capeluto M, Falcione R, Fernandez Salvador R, Eceiza A, Goyanes S, Adriana Ledesma S. Functional surfaces through the creation of adhesion and charged patterns on azopolymer surface relief gratings. *Opt Mater* 2019 APR;90:281-288.

(137) Galera L, Martinez-Filgueira P, Fernandez-Gamiz U, Zulueta E, Lopez JM, Blanco JM. A triangular vortex generator modeling on a DU97-W-300 airfoil by a source term model. *Proc Inst Mech Eng Part A-J Power Energy* 2019 AUG;233(5):635-645.

(138) Gallego I, Villate-Beitia I, Martinez-Navarrete G, Menendez M, Lopez-Mendez T, Soto-Sanchez C, et al. Non-viral vectors based on cationic niosomes and minicircle DNA technology enhance gene delivery efficiency for biomedical applications in retinal disorders. *Nanomed -Nanotechnol Biol Med* 2019 APR;17:308-318.

(139) Gandia D, Gandarias L, Rodrigo I, Robles-Garcia J, Das R, Garaio E, et al. Unlocking the Potential of Magnetotactic Bacteria as Magnetic Hyperthermia Agents. *Small* 2019 OCT;15(41):1902626.

(140) Garate J, Lage S, Fernandez R, Velasco V, Abad B, Asumendi A, et al. Imaging Mass Spectrometry-Based Lipidomic Approach to Classification of Architectural Features in Nevi. *J Invest Dermatol* 2019 SEP;139(9):2055-+.

(141) Garate-Olave I, Roda-Robles E, Pablo Gil-Crespo P, Pesquera A. CHARACTERIZATION OF Nb-Ta OXIDES ASSOCIATED WITH THE APLOPEGMATITES FROM TRES ARROYOS (BADAJOZ, SPAIN). *Can Mineral* 2019 SEP;57(5):749-751.

(142) Garcia-Arnaez I, Palla B, Suay J, Romero-Gavilan F, Garcia-Fernandez L, Fernandez M, et al. A single coating with antibacterial properties for prevention of medical device-associated infections. *Eur Polym J* 2019 APR;113:289-296.

(143) Garcia-Bea A, Miranda-Azpiazu P, Muguruza C, Marmolejo-Martinez-Artesero S, Diez-Alarcia R, Gabilondo AM, et al. Serotonin 5-HT_{2A} receptor expression and functionality in postmortem frontal cortex of subjects with schizophrenia: Selective biased agonism via G(alpha i1)-proteins. *Eur Neuropsychopharmacol* 2019 DEC;29(12):1453-1463.

(144) Garcia-Gallastegi P, Ruiz-Garcia A, Ibarretxe G, Rivero-Hinojosa S, Gonzalez-Siccha AD, Laborda J, et al. Similarities and differences in tissue distribution of DLK1 and DLK2 during E16.5 mouse embryogenesis. *Histochem Cell Biol* 2019 JUL;152(1):47-60.



- (145) Garcia-Orue I, Gainza G, Garcia-Garcia P, Borja Gutierrez F, Javier Aguirre J, Maria Hernandez R, et al. Composite nanofibrous membranes of PLGA/Aloe vera containing lipid nanoparticles for wound dressing applications. *Int J Pharm* 2019 FEB 10;556:320-329.
- (146) Garcia-Ruiz E, Romay FJ, Antonio Garcia J, Iza JM, Cambra JF, Gangoiti G, et al. Effect of nozzle spacing in the formation of primary and secondary deposits in multi-nozzle inertial impactors part II: Numerical study. *J Aerosol Sci* 2019 OCT;136:106-127.
- (147) Garcia-Teran JP, Beobide G, Castillo O, Cepeda J, Luque A, Perez-Yanez S, et al. Supramolecular architectures of metal-oxalato coordination polymers bearing N-tethered adenine nucleobases. *Polyhedron* 2019 OCT 1;171:53-64.
- (148) Garin I, Aihartza J, Goiti U, Arrizabalaga-Escudero A, Nogueras J, Ibanez C. Bats from different foraging guilds prey upon the pine processionary moth. *PeerJ* 2019 JUL 5;7:e7169.
- (149) Garrido T, Gizdavic-Nikolaidis M, Leceta I, Urdanpilleta M, Guerrero P, de la Caba K, et al. Optimizing the extraction process of natural antioxidants from chardonnay grape marc using microwave-assisted extraction. *Waste Manage* 2019 APR 1;88:110-117.
- (150) Garrido T, Penalba M, de la Caba K, Guerrero P. A more efficient process to develop protein films derived from agro-industrial by-products. *Food Hydrocoll* 2019 JAN;86:11-17.
- (151) Gomez-Cortes JF, No ML, Ruiz-Larrea I, Breczewski T, Lopez-Echarri A, Schuh CA, et al. Ultrahigh superelastic damping at the nano-scale: A robust phenomenon to improve smart MEMS devices. *Acta Mater* 2019 MAR;166:346-356.
- (152) Gomez-Hermoso-de-Mendoza J, Barud HS, Gutierrez J, Tercjak A. Flexible photochromic cellulose triacetate based bionanocomposites modified with sol-gel synthesized V2O5 nanoparticles. *Carbohydr Polym* 2019 MAR 15;208:50-58.
- (153) Gomez-Laserna O, Lando G, Kortazar L, Martinez-Arkarazo I, Monterrubio I, Sevillano E, et al. Eco-friendly nanocomposite products based on BPA-free epoxy-silica hybrid materials for stone conservation. *Archaeol Anthropol Sci* 2019 OCT;11(10):5799-5812.
- (154) Gomez-Nubla L, Aramendia J, Fdez-Ortiz de Vallejuelo S, Castro K, Madariaga JM. Analytical methodology to evaluate the Terrestrial Weathering of Libyan Desert Glasses and Darwin Glasses after their formation. *Anal Bioanal Chem* 2019 NOV;411(29):7869-7877.



- (155) Goncalves R, Lizundia E, Silva MM, Costa CM, Lanceros-Mendez S. Mesoporous Cellulose Nanocrystal Membranes as Battery Separators for Environmentally Safer Lithium-Ion Batteries. *ACS Appl Energ Mater* 2019 MAY;2(5):3749-3761.
- (156) Gonzalez de San Roman E, Manuel I, Ledent C, Chun J, Rodriguez de Fonseca F, Estivill-Torrus G, et al. CB1 and LPA(1) Receptors Relationship in the Mouse Central Nervous System. *Front Molec Neurosci* 2019 SEP 19;12:223.
- (157) Gonzalez-Soto N, Hatfield J, Katsumiti A, Duroudier N, Maria Lacave J, Bilbao E, et al. Impacts of dietary exposure to different sized polystyrene microplastics alone and with sorbed benzo[a]pyrene on biomarkers and whole organism responses in mussels *Mytilus galloprovincialis*. *Sci Total Environ* 2019 SEP 20;684:548-566.
- (158) Gordobil O, Oberemko A, Saulis G, Baublys V, Labidi J. In vitro cytotoxicity studies of industrial Eucalyptus kraft lignins on mouse hepatoma, melanoma and Chinese hamster ovary cells. *Int J Biol Macromol* 2019 AUG 15;135:353-361.
- (159) Goretti Llamas-Arriba M, Puertas AI, Prieto A, Lopez P, Cobos M, Miranda JI, et al. Characterization of dextrans produced by *Lactobacillus mali* CUPV271 and *Leuconostoc carnosum* CUPV411. *Food Hydrocoll* 2019 APR;89:613-622.
- (160) Gozalvez C, Zafra JL, Saeki A, Melle-Franco M, Casado J, Mateo-Alonso A. Charge transport modulation in pseudorotaxane 1D stacks of acene and azaacene derivatives. *Chem Sci* 2019 MAR 7;10(9):2743-2749.
- (161) Grabowski SJ. Bifurcated Triel Bonds-Hydrides and Halides of 1,2-Bis(Dichloroboryl)Benzene and 1,8-Bis(Dichloroboryl)Naphthalene. *Crystals* 2019 OCT;9(10):503.
- (162) Grabowski SJ. Pnictogen and tetrel bonds-tetrahedral Lewis acid centres. *Struct Chem* 2019 AUG;30(4):1141-1152.
- (163) Grabowski SJ. A-H horizontal ellipsis sigma Hydrogen Bonds: Dihydrogen and Cycloalkanes as Proton Acceptors. *ChemPhysChem* 2019 FEB 18;20(4):565-574.
- (164) Grabowski SJ, Casanova D, Formoso E, Ugalde JM. Tetravalent Oxygen and Sulphur Centres Mediated by Carborane Superacid: Theoretical Analysis. *Chemphyschem* 2019 OCT 2;20(19):2443-2450.
- (165) Granados A, Rivilla I, Cossio FP, Vallribera A. Lanthanum-Catalyzed Enantioselective Trifluoromethylation by Using an Electrophilic Hypervalent Iodine Reagent. *Chem -Eur J* 2019 JUN 21;25(35):8214-8218.



- (166) Grijalvo S, Puras G, Zarate J, Sainz-Ramos M, Qtaish NAL, Lopez T, et al. Cationic Niosomes as Non-Viral Vehicles for Nucleic Acids: Challenges and Opportunities in Gene Delivery. *Pharmaceutics* 2019 FEB;11(2):50.
- (167) Guaresti O, Garcia-Astrain C, Urbina L, Eceiza A, Gabilondo N. Reversible swelling behaviour of Diels-Alder clicked chitosan hydrogels in response to pH changes. *Express Polym Lett* 2019 JAN;13(1):27-36.
- (168) Guaresti O, Basasoro S, Gonzalez K, Eceiza A, Gabilondo N. In situ cross-linked chitosan hydrogels via Michael addition reaction based on water-soluble thiol-maleimide precursors. *Eur Polym J* 2019 OCT;119:376-384.
- (169) Guerrero P, Muxika A, Zarandona I, de la Caba K. Crosslinking of chitosan films processed by compression molding. *Carbohydr Polym* 2019 FEB 15;206:820-826.
- (170) Gumowska A, Kowaluk G, Labidi J, Robles E. Barrier properties of cellulose nanofiber film as an external layer of particleboard. *Clean Technologies and Environmental Policy* 2019 DEC;21(10):2073-2079.
- (171) Hacker AS, Pavano M, Wood, James E., II, Hashimoto H, D'Ambrosio KM, Frederickson CK, et al. Fluoreno[2,1-a]fluorene: an ortho-naphthoquinodimethane-based system with partial diradical character. *Chem Commun* 2019 DEC 7;55(94):14186-14189.
- (172) Hansen S, Montero-Ruiz I, Rovira S, Steiniger D, Toderas M. The earliest lead ore processing in Europe. 5th millennium BC finds from Pietrele on the Lower Danube. *PLoS One* 2019 APR 10;14(4):e0214218.
- (173) Hernandez Plagaro A, Pearman PB, Kaberdin VR. Defining the transcription landscape of the Gram-negative marine bacterium *Vibrio harveyi*. *Genomics* 2019 DEC;111(6):1547-1556.
- (174) Hernandez-Unzueta I, Benedicto A, Romayor I, Herrero A, Sanz E, Arteta B, et al. Ocoxin Oral Solution Exerts an Antitumoral Effect in Pancreatic Cancer and Reduces the Stromal-Mediated Chemoresistance. *Pancreas* 2019 APR;48(4):555-567.
- (175) Hernando S, Requejo C, Herran E, Angel Ruiz-Ortega J, Morera-Herreras T, Vicente Lafuente J, et al. Beneficial effects of n-3 polyunsaturated fatty acids administration in a partial lesion model of Parkinson's disease: The role of glia and NRF2 regulation. *Neurobiol Dis* 2019 JAN;121:252-262.
- (176) Herrero A, Oleaga A, Gubkin AF, Frontzek MD, Salazar A, Baranov N, V. Comprehensive study of the magnetic phase transitions in Tb₃Co combining thermal, magnetic and neutron diffraction measurements. *Intermetallics* 2019 AUG;111:106519.



- (177) Herrero A, Oleaga A, Gubkin AF, Salazar A, Baranov N, V. Peculiar magnetocaloric properties and critical behavior in antiferromagnetic Tb₃Ni with complex magnetic structure. *J Alloys Compounds* 2019 NOV 5;808:UNSP 151720.
- (178) Herrero A, Oleaga A, Manfrinetti P, Provino A, Salazar A. Study of the magnetocaloric effect in intermetallics RTX (R = Nd, Gd; T = Sc, Ti; X = Si, Ge). *Intermetallics* 2019 JUL;110:UNSP 106495.
- (179) Higarza SG, Arboleya S, Gueimonde M, Gomez-Lazaro E, Arias JL, Arias N. Neurobehavioral dysfunction in non-alcoholic steatohepatitis is associated with hyperammonemia, gut dysbiosis, and metabolic and functional brain regional deficits. *PLoS One* 2019 SEP 20;14(9):e0223019.
- (180) Hofer M, de Haro T, Gomez-Bengoa E, Genoux A, Nevado C. Oxidant speciation and anionic ligand effects in the gold-catalyzed oxidative coupling of arenes and alkynes. *Chemical Science* 2019 SEP 28;10(36):8411-8420.
- (181) Ibarrondo O, Lopez-Oceja A, Baeta M, de Pancorbo MM. A Statistical Method to Enhance the Analysis of the Differences Among High-Resolution Melting (HRM) Curves of PCR-Amplified DNA Fragments. *J Food Sci* 2019 OCT;84(10):2719-2728.
- (182) Inallu MN, Kameli P, Varzaneh AG, Sarsari IA, Salazar D, Orue I, et al. Magnetocaloric effect in W-doped Ni-Mn-Sn alloy probed by direct and indirect measurements. *J Phys D-Appl Phys* 2019 JUN 5;52(23):235001.
- (183) Irastorza I, Luzuriaga J, Martinez-Conde R, Ibarretxe G, Unda F. Adhesion, Integration and Osteogenesis of Human Dental Pulp Stem Cells on Biomimetic Implant Surfaces Combined with Plasma Derived Products. *Eur Cells Mater* 2019 JUL-DEC;38:201-214.
- (184) Iregui A, Irusta L, Martin L, Gonzalez A. Analysis of the Process Parameters for Obtaining a Stable Electrospun Process in Different Composition Epoxy/Poly epsilon-Caprolactone Blends with Shape Memory Properties. *Polymers* 2019 MAR 12;11(3):475.
- (185) Irigoyen M, Fernandez A, Ruiz A, Ruiperez F, Matxain JM. Diselenide Bonds as an Alternative to Outperform the Efficiency of Disulfides in Self-Healing Materials. *J Org Chem* 2019 APR 5;84(7):4200-4210.
- (186) Irigoyen M, Matxain JM, Ruiperez F. Effect of Molecular Structure in the Chain Mobility of Dichalcogenide-Based Polymers with Self-Healing Capacity. *Polymers* 2019 DEC;11(12):1960.
- (187) Iriondo A, Tainta M, Saldias J, Arriba M, Ochoa B, Goni FM, et al. Isopropanol extraction for cerebrospinal fluid lipidomic profiling analysis. *Talanta* 2019 APR 1;195:619-627.



- (188) Izquierdo J, Demurget N, Landa A, Brinck T, Mercero JM, Diner P, et al. Asymmetric Synthesis of Adjacent Tri- and Tetrasubstituted Carbon Stereocenters: Organocatalytic Aldol Reaction of an Hydantoin Surrogate with Azaarene 2-Carbaldehydes. *Chem -Eur J* 2019 SEP 20;25(53):12431-12438.
- (189) Izquierdo U, Adolfo Esteban G, Maria Blanco J, Albaina I, Pena A. Experimental validation of a CFD model using a narrow wave flume. *Appl Ocean Res* 2019 MAY;86:1-12.
- (190) Jalili H, Aslibeiki B, Ghotbi Varzaneh A, Chernenko VA. The effect of magneto-crystalline anisotropy on the properties of hard and soft magnetic ferrite nanoparticles. *Beilstein J Nanotechnol* 2019 JUL 3;10:1348-1359.
- (191) Jauregi-Miguel A, Santin I, Garcia-Etxebarria K, Olazagoitia-Garmendia A, Romero-Garmendia I, Sebastian-delaCruz M, et al. MAGI2 Gene Region and Celiac Disease. *Front Nutr* 2019 DEC 19;6:187.
- (192) Jehanno C, Mezzasalma L, Sardon H, Ruiperez F, Coulembier O, Taton D. Benzoic Acid as an Efficient Organocatalyst for the Statistical Ring-Opening Copolymerization of epsilon-Caprolactone and L-Lactide: A Computational Investigation. *Macromolecules* 2019 DEC 10;52(23):9238-9247.
- (193) Jehanno C, Perez-Madrigal MM, Demartean J, Sardon H, Dove AP. Organocatalysis for depolymerisation. *Polym Chem* 2019 JAN 14;10(2):172-186.
- (194) Jimenez N, Ballard N, Asua JM. Hydrogen Bond-Directed Formation of Stiff Polymer Films Using Naturally Occurring Polyphenols. *Macromolecules* 2019 DEC 24;52(24):9724-9734.
- (195) Jimenez-Izal E, Liu J, Alexandrova AN. Germanium as key dopant to boost the catalytic performance of small platinum clusters for alkane dehydrogenation. *J Catal* 2019 JUN;374:93-100.
- (196) Jimeno-Romero A, Bilbao E, Valsami-Jones E, Cajaraville MP, Soto M, Marigomez I. Bioaccumulation, tissue and cell distribution, biomarkers and toxicopathic effects of CdS quantum dots in mussels, *Mytilus galloprovincialis*. *Ecotoxicol Environ Saf* 2019 JAN 15;167:288-300.
- (197) Juarez-Perez EJ, Ono LK, Uriarte I, Cocinero EJ, Qi Y. Degradation Mechanism and Relative Stability of Methylammonium Halide Based Perovskites Analyzed on the Basis of Acid Base Theory. *ACS Appl Mater Interfaces* 2019 APR 3;11(13):12586-12593.



- (198) Kaberdina AC, Ruiz-Larrabeiti O, Sue Lin-Chao, Kaberdin VR. Reprogramming of gene expression in *Escherichia coli* cultured on pyruvate versus glucose. *Mol Genet Genomics* 2019 OCT;294(5):1359-1371.
- (199) Kepa Izaguirre J, da Fonseca MMR, Fernandes P, Carmen Villaran M, Castanon S, Teresa Cesario M. Upgrading the organic fraction of municipal solid waste to poly(3-hydroxybutyrate). *Bioresour Technol* 2019 OCT;290:121785.
- (200) Khan MT, Salado M, Almohammed A, Kazim S, Ahmad S. Elucidating the Impact of Charge Selective Contact in Halide Perovskite through Impedance Spectroscopy. *Adv Mater Interfaces* 2019 NOV;6(21):1901193.
- (201) Kralj S, Longobardo F, Iglesias D, Bevilacqua M, Tavagnacco C, Criado A, et al. Ex-Solution Synthesis of Sub-5-nm FeOx Nanoparticles on Mesoporous Hollow N,O-Doped Carbon Nanoshells for Electrocatalytic Oxygen Reduction. *ACS Appl Nano Mater* 2019 OCT;2(10):6092-6097.
- (202) Kumar G, Langa J, Montes I, Conklin D, Kocour M, Kohlmann K, et al. A novel transcriptome-derived SNPs array for tench (*Tinca tinca* L.). *Plos One* 2019 MAR 19;14(3):e0213992.
- (203) Lamas I, Longarte A, Conde AP, Muga G, Townsend D, Montero R. Dynamics of Pyrroles Excited to the $3s/\pi$ σ^* State. *Journal of Physical Chemistry a* 2019 OCT 24;123(42):8982-8993.
- (204) Larranaga O, de Cozar A. Effect of an alpha-Methyl Substituent on the Dienophile on Diels-Alder endo:exo Selectivity. *ChemistryOpen* 2019 JAN;8(1):49-57.
- (205) Larranaga O, Romero-Nieto C, de Cozar A. Dismantling the Hyperconjugation of pi-Conjugated Phosphorus Heterocycles. *Chem -Eur J* 2019 JUL 5;25(38):9035-9044.
- (206) Larretxi I, Txurruka I, Navarro V, Lasa A, Angeles Bustamante M, del Pilar Fernandez-Gil M, et al. Micronutrient Analysis of Gluten-Free Products: Their Low Content Is Not Involved in Gluten-Free Diet Imbalance in a Cohort of Celiac Children and Adolescent. *Foods* 2019 AUG;8(8):321.
- (207) Lasheras A, Gutierrez J. Magnetic and magnetoelastic parameters affecting the magnetoelectric response in L-T mode working metallic glass/PVDF laminated composites. *J Magn Magn Mater* 2019 JUN 1;479:282-286.
- (208) Lasheras X, Insausti M, Martinez de la Fuente J, Gil de Muro I, Castellanos-Rubio I, Marcano L, et al. Mn-Doping level dependence on the magnetic response of $MnxFe_{3-x}O_4$ ferrite nanoparticles. *Dalton Trans* 2019 AUG 14;48(30):11480-11491.



- (209) Laza-Martinez A, Fernandez-Marin B, Ignacio Garcia-Plazaola J. Rapid colour changes in *Euglena sanguinea* (Euglenophyceae) caused by internal lipid globule migration. *Eur J Phycol* 2019 JAN 2;54(1):91-101.
- (210) Leon I, Lesarri A, Fernandez JA. Evaluation of the aggregation process in a mixture of propofol and benzocaine. *Phys Chem Chem Phys* 2019 FEB 21;21(7):3537-3544.
- (211) Leon I, Fernandez JA. Influence of the solvent in the electronic excitation of aromatic alcohols: Excited state IR-UV of propofol(H₂O)(8). *J Chem Phys* 2019 JUN 7;150(21):214306.
- (212) Lete MG, Monasterio BG, Isabel Collado M, Medina M, Sot J, Alonso A, et al. Fast and slow biomembrane solubilizing detergents: Insights into their mechanism of action. *Colloids and Surfaces B-Biointerfaces* 2019 NOV 1;183:UNSP 110430.
- (213) Limousin E, Ballard N, Asua JM. Soft core-hard shell latex particles for mechanically strong VOC-free polymer films. *J Appl Polym Sci* 2019 JUN 15;136(23):47608.
- (214) Limousin E, Ballard N, Asua JM. The influence of particle morphology on the structure and mechanical properties of films cast from hybrid latexes. *Prog Org Coat* 2019 APR;129:69-76.
- (215) Limousin E, Ballard N, Asua JM. Synthesis of cellulose nanocrystal armored latex particles for mechanically strong nanocomposite films. *Polym Chem* 2019 APR 14;10(14):1823-1831.
- (216) Limousin E, Martinez-Tong DE, Ballard N, Asua JM. Cure-Dependent Morphology of Acrylic/Alkyd Hybrid Latex Films via Nanomechanical Mapping. *ACS Applied Polymer Materials* 2019 AUG;1(8):2213-2223.
- (217) Lizundia E, Penayo MC, Guinault M, Luis Vilas J, Domenek S. Impact of ZnO nanoparticle morphology on relaxation and transport properties of PLA nanocomposites. *Polym Test* 2019 MAY;75:175-184.
- (218) Llamosas N, Perez-Caballero L, Berrocoso E, Bruzos-Cidon C, Ugedo L, Torrecilla M. Ketamine promotes rapid and transient activation of AMPA receptor-mediated synaptic transmission in the dorsal raphe nucleus. *Prog Neuropsychopharmacol Biol Psychiatry* 2019 JAN 10;88:243-252.
- (219) Llobat A, Roman R, Mateu N, Sedgwick DM, Barrio P, Medio-Simon M, et al. The Fluoro-Pauson-Khand Reaction in the Synthesis of Enantioenriched Nitrogenated Bicycles Bearing a Quaternary C-F Stereogenic Center. *Org Lett* 2019 SEP 20;21(18):7294-7297.



- (220) Lull Estarellas B, Perello Mateo L, Guerrero Ayuso VM, Fullola Pericot JM, Angels Petit i Mendizabal M, Calvo Trias M. Isotopic and chemical characterisation of metals from Cova des Pas (Ferreries, Menorca). A Late Bronze to Iron Age transition burial site. *Trabajos Prehist* 2019 JAN-JUN;76(1):102-119.
- (221) Lopez C, Galmes B, Soberats B, Frontera A, Rotger C, Costa A. Surface Modification of Pseudoboehmite-Coated Aluminum Plates with Squaramic Acid Amphiphiles. *ACS Omega* 2019 SEP 17;4(12):14868-14874.
- (222) Lopez X, Piris M. Performance of the NOF-MP2 method in hydrogen abstraction reactions. *Theor Chem Acc* 2019 JUL;138(7):89.
- (223) Lopez-Carballeira D, Zubiria M, Casanova D, Ruiperez F. Improvement of the electrochemical and singlet fission properties of anthraquinones by modification of the diradical character. *Phys Chem Chem Phys* 2019 APR 21;21(15):7941-7952.
- (224) Lopez-Gazpio I, Maritxalar M, Lapata M, Agirre E. Word n-gram attention models for sentence similarity and inference. *Expert Syst Appl* 2019 OCT 15;132:1-11.
- (225) Lopez-Oceja A, Lekube X, Ruiz L, Antonio Mujika-Alustiza J, De Pancorbo MM. CYT B L15601 and H15748 primers for genetic identification of cetacean species. *Forensic Sci Int Genet Suppl Ser* 2019 DEC;7(1):771-772.
- (226) Lopez-Pozo M, Ballesteros D, Manuel Laza J, Ignacio Garcia-Plazaola J, Fernandez-Marin B. Desiccation Tolerance in Chlorophyllous Fern Spores: Are Ecophysiological Features Related to Environmental Conditions? *Front Plant Sci* 2019 SEP 20;10:1130.
- (227) Lopez-Rojo N, Pozo J, Perez J, Basaguren A, Martinez A, Tonin AM, et al. Plant diversity loss affects stream ecosystem multifunctionality. *Ecology* 2019 DEC;100(12):UNSP e02847.
- (228) Losantos R, Lamas I, Montero R, Longarte A, Sampedro D. Photophysical characterization of new and efficient synthetic sunscreens. *Phys Chem Chem Phys* 2019 JUN 7;21(21):11376-11384.
- (229) Luque PL, Belen Sanchez-Illarduya M, Sarmiento A, Murua H, Arrizabalaga H. Characterization of carbonate fraction of the Atlantic bluefin tuna fin spine bone matrix for stable isotope analysis. *PeerJ* 2019 JUL 18;7:e7176.
- (230) Luzuriaga J, Pastor-Alonso O, Encinas JM, Unda F, Ibarretxe G, Pineda JR. Human Dental Pulp Stem Cells Grown in Neurogenic Media Differentiate Into Endothelial Cells and Promote Neovasclogenesis in the Mouse Brain. *Front Physiol* 2019 MAR 28;10:347.



- (231) Maestro A, de Marigorta EM, Palacios F, Vicario J. Enantioselective alpha-Aminophosphonate Functionalization of Indole Ring through an Organocatalyzed Friedel-Crafts Reaction. *J Org Chem* 2019 JAN 18;84(2):1094-1102.
- (232) Maestro A, Martinez de Marigorta E, Palacios F, Vicario J. Enantioselective Aza-Reformatsky Reaction with Ketimines. *Org Lett* 2019 DEC 6;21(23):9473-9477.
- (233) Magi Meconi G, Tomovska R, Zangi R. Adsorption of CO₂ gas on graphene-polymer composites. *Journal of Co₂ Utilization* 2019 JUL;32:92-105.
- (234) Maimo-Barcelo A, Garate J, Bestard-Escalas J, Fernandez R, Berthold L, Lopez DH, et al. Confirmation of sub-cellular resolution using oversampling imaging mass spectrometry. *Anal Bioanal Chem* 2019 DEC;411(30):7935-7941.
- (235) Maiz J, Liu G, Ruiperez F, Delbosc N, Coulembier O, Wang D, et al. How cyclic chain topology can reduce the crystallization rate of poly(3-hexylthiophene) and promote the formation of liquid crystalline phases in comparison with linear analogue chains. *J Mater Chem C* 2019 JUN 14;7(22):6548-6558.
- (236) Maiz-Fernandez S, Perez-Alvarez L, Ruiz-Rubio L, Perez Gonzalez R, Saez-Martinez V, Ruiz Perez J, et al. Synthesis and Characterization of Covalently Crosslinked pH-Responsive Hyaluronic Acid Nanogels: Effect of Synthesis Parameters. *Polymers* 2019 APR;11(4):742.
- (237) Makwana VA, Larranaga A, Luis Vilas J, Lizundia E. Kinetic, thermal, structural and degradation studies on the effect of meta-substituted aromatic-aliphatic polyesters built through ring-opening polymerisation. *Polym Degrad Stab* 2019 NOV;169:108984.
- (238) Marques de Sa C, Noronha F, Cardellach E, Bobos I. Fluid inclusion and (S, C, O, Pb) isotope study of Pb-Zn-(Cu-Ag) hydrothermal veins from Central and Northern Portugal - Metallogenic implications. *Ore Geol Rev* 2019 SEP;112:UNSP 103043.
- (239) Martin R, Prieto P, Carrillo JR, Rodriguez AM, de Cozar A, Boj PG, et al. Design, synthesis and amplified spontaneous emission of 1,2,5-benzothiadiazole derivatives. *J Mater Chem C* 2019 AUG 28;7(32):9996-10007.
- (240) Martin-Caballero J, Artetxe B, Reinoso S, San Felices L, Vitoria P, Larranaga A, et al. Thermostructural Behavior in a Series of Lanthanide-Containing Polyoxotungstate Hybrids with Copper(II) Complexes of the Tetraazamacrocyclic Cyclam: A Single-Crystal-to-Single-Crystal Transformation Study. *Inorg Chem* 2019 APR 1;58(7):4365-4375.
- (241) Martin-Encinas E, Rubiales G, Knudssen BR, Palacios F, Alonso C. Straightforward synthesis and biological evaluation as topoisomerase I inhibitors and



antiproliferative agents of hybrid Chromeno[4,3-b][1,5]Naphthyridines and Chromeno[4,3-b][1,5]Naphthyridin-6-ones. *Eur J Med Chem* 2019 SEP 15;178:752-766.

(242) Martinez L, Milanic M, Malaina I, Alvarez C, Perez M, de la Fuente IM. Weighted lambda superstrings applied to vaccine design. *PLoS One* 2019 FEB 8;14(2):e0211714.

(243) Martinez-Abadia M, Antonicelli G, Saeki A, Melle-Franco M, Mateo-Alonso A. Isolation and Characterization of the Unexpected 1-n-Octyloxypyrene: A Solution-Processable p-Type Organic Semiconductor. *J Org Chem* 2019 MAR 15;84(6):3270-3274.

(244) Martinez-Abadia M, Stoppiello CT, Strutynski K, Lerma-Berlanga B, Marti-Gastaldo C, Saeki A, et al. A Wavy Two-Dimensional Covalent Organic Framework from Core-Twisted Polycyclic Aromatic Hydrocarbons. *J Am Chem Soc* 2019 SEP 11;141(36):14403-14410.

(245) Martin-Guerrero I, Gutierrez-Camino A, Echebarria-Barona A, Astigarraga I, de Andoin NG, Navajas A, et al. Variants in vincristine pharmacodynamic genes involved in neurotoxicity at induction phase in the therapy of pediatric acute lymphoblastic leukemia. *Pharmacogenomics J* 2019 DEC;19(6):564-569.

(246) Martin-Sampedro R, Santos JI, Fillat U, Wicklein B, Eugenio ME, Ibarra D. Characterization of lignins from *Populus alba* L. generated as by-products in different transformation processes: Kraft pulping, organosolv and acid hydrolysis. *Int J Biol Macromol* 2019 APR 1;126:18-29.

(247) Mashal M, Attia N, Martinez-Navarrete G, Soto-Sanchez C, Fernandez E, Grijalvo S, et al. Gene delivery to the rat retina by non-viral vectors based on chloroquine-containing cationic niosomes. *J Controlled Release* 2019 JUN 28;304:181-190.

(248) Massa G, Aldenderfer M, Martinon-Torres M. Of gold masks, bronze mirrors and brass bracelets: Analyses of metallic artefacts from Samdzong, Upper Mustang, Nepal 450-650 CE. *Archaeol Res Asia* 2019 JUN;18:68-81.

(249) Mato R, Manzano R, Reyes E, Carrillo L, Uria U, Vicario JL. Catalytic Enantioselective Transannular Morita-Baylis-Hillman Reaction. *J Am Chem Soc* 2019 JUN 19;141(24):9495-9499.

(250) Matxain JM, Ugalde JM, Mujica V, Allec S, I., Wong BM, Casanova D. Chirality Induced Spin Selectivity of Photoexcited Electrons in Carbon-Sulfur [n]Helicenes. *Chemphotochem* 2019 SEP;3(9):770-777.

(251) Matxinandiarena E, Mugica A, Zubitur M, Yus C, Sebastian V, Irusta S, et al. The Effect of Titanium Dioxide Surface Modification on the Dispersion, Morphology, and



Mechanical Properties of Recycled PP/PET/TiO₂ PBNANOs. *Polymers* 2019 OCT;11(10):1692.

(252) Maya EM, Verde-Sesto E, Mantione D, Iglesias M, Mecerreyes D. New poly(ionic liquid)s based on poly(azomethine-pyridinium) salts and its use as heterogeneous catalysts for CO₂ conversion. *Eur Polym J* 2019 JAN;110:107-113.

(253) Meabe L, Tan Vu Huynh, Mantione D, Porcarelli L, Li C, O'Dell LA, et al. UV-cross-linked poly(ethylene oxide carbonate) as free standing solid polymer electrolyte for lithium batteries. *Electrochim Acta* 2019 APR 10;302:414-421.

(254) Mehravar S, Ballard N, Agirre A, Tomovska R, Asua JM. Role of Grafting on Particle and Film Morphology and Film Properties of Zero VOC Polyurethane/Poly(meth)acrylate Hybrid Dispersions. *Macromol Mater Eng* 2019 FEB;304(2):1800532.

(255) Mehravar S, Ballard N, Tomovska R, Asua JM. Polyurethane/Acrylic Hybrid Waterborne Dispersions: Synthesis, Properties and Applications. *Ind Eng Chem Res* 2019 NOV 20;58(46):20902-20922.

(256) Mehravar S, Ballard N, Tomovska R, Asua JM. The Influence of Macromolecular Structure and Composition on Mechanical Properties of Films Cast from Solvent-Free Polyurethane/Acrylic Hybrid Dispersions. *Macromol Mater Eng* 2019 AUG;304(8):1900155.

(257) Mehravar S, Roschmann KJ, Arocha PU, Reck B, Agirre A, Tomovska R, et al. Correlating microstructure and performance of PU/(meth)acrylic hybrids as hardwood floor coating. *Progress in Organic Coatings* 2019 JUN;131:417-426.

(258) Mendes-Felipe C, Oliveira J, Costa P, Ruiz-Rubio L, Iregui A, Gonzalez A, et al. Stimuli responsive UV cured polyurethane acrylated/carbon nanotube composites for piezoresistive sensing. *Eur Polym J* 2019 NOV;120:UNSP 109226.

(259) Mendes-Felipe C, Oliveira J, Etxebarria I, Luis Vilas-Vilela J, Lanceros-Mendez S. State-of-the-Art and Future Challenges of UV Curable Polymer-Based Smart Materials for Printing Technologies. *Adv Mater Technol* 2019 MAR;4(3):1800618.

(260) Mendez-Fernandez L, Casado-Martinez C, Martinez-Madrid M, Moreno-Ocio I, Costas N, Pardo I, et al. Derivation of sediment Hg quality standards based on ecological assessment in river basins. *Environ Pollut* 2019 FEB;245:1000-1013.

(261) Messoussi M, Prieto-Fernandez E, Baeta M, Nunez C, Ben Ammar-El Gaaied A, de Pancorbo MM, et al. Genetic variation of 17 X-chromosome STR loci in Tunisian population of Nabeul. *Int J Legal Med* 2019 JAN;133(1):85-88.



- (262) Modaresi N, Afzalzadeh R, Aslibeiki B, Kameli P, Varzaneh AG, Orue I, et al. Magnetic properties of $Zn_xFe_{3-x}O_4$ nanoparticles: A competition between the effects of size and Zn doping level. *J Magn Magn Mater* 2019 JUL 15;482:206-218.
- (263) Molleti N, Martinez-Erro S, Carretero Cerdan A, Sanz-Marco A, Gomez-Bengoa E, Martin-Matute B. Base-Catalyzed [1,n]-Proton Shifts in Conjugated Polyenyl Alcohols and Ethers. *ACS Catal* 2019 OCT;9(10):9134-9139.
- (264) Montanez I, Ogayar E, Hernandez Plagaro A, Esteve-Codina A, Gomez-Garrido J, Orruno M, et al. Analysis of *Vibrio harveyi* adaptation in sea water microcosms at elevated temperature provides insights into the putative mechanisms of its persistence and spread in the time of global warming. *Sci Rep* 2019 JAN 22;9:289.
- (265) Montero R, Lamas I, Leon I, Fernandez JA, Longarte A. Excited state dynamics of aniline homoclusters. *Phys Chem Chem Phys* 2019 FEB 14;21(6):3098-3105.
- (266) Mora-Fuentes JP, Cortizo-Lacalle D, Collavini S, Strutynski K, Tress WR, Saliba M, et al. A partially-planarised hole-transporting quart-p-phenylene for perovskite solar cells. *J Mater Chem C* 2019 APR 21;7(15):4332-4335.
- (267) Mora-Fuentes JP, Riano A, Cortizo-Lacalle D, Saeki A, Melle-Franco M, Mateo-Alonso A. Giant Star-Shaped Nitrogen-Doped Nanographenes. *Angew Chem -Int Edit* 2019 JAN 8;58(2):552-556.
- (268) Morales A, Angeles Andres M, Labidi J, Gullon P. UV-vis protective poly(vinyl alcohol)/bio-oil innovative films. *Ind Crop Prod* 2019 MAY;131:281-292.
- (269) Morales-Marin A, Ayastuy JL, Iriarte-Velasco U, Gutierrez-Ortiz MA, Chemical Technologies Environm. Nickel aluminate spinel-derived catalysts for the aqueous phase reforming of glycerol: Effect of reduction temperature. *Appl Catal B-Environ* 2019 MAY 5;244:931-945.
- (270) Moran-Ruiz A, Wain-Martin A, Larranaga A, Slater PR, Arriortua M. Comparison of the thermal resistance behaviour of synthesized $Ln(4)Al(2)O(9)$ ($Ln = Y, Sm, Eu, Gd, Tb$) materials vs commercial $Zr_{0.8}Y_{0.2}O_{1.9}$ (8YSZ). *Surf Coat Technol* 2019 SEP 25;374:745-751.
- (271) Moran-Ruiz A, Wain-Martin A, Orera A, Luisa Sanjuan M, Larranaga A, Slater PR, et al. Synthesis of new $Ln(4)(Al_2O_6F_2)O_2$ ($Ln = Sm, Eu, Gd$) phases with a cuspidine-related structure. *Iucrj* 2019 JAN;6:128-135.
- (272) Morante K, Bellomio A, Rosa Viguera A, Manuel Gonzalez-Manas J, Tsumoto K, Caaveiro JMM. The Isolation of New Pore-Forming Toxins from the Sea Anemone *Actinia fragacea* Provides Insights into the Mechanisms of Actinoporin Evolution. *Toxins* 2019 JUL;11(7):401.



- (273) Morillas H, Huallparimachi G, Maguregui M, Marcaida I, Gallego-Cartagena E, Astete F, et al. Characterization of restoration lime mortars and decay by-products in the Meditation area of Machu Picchu archaeological site. *Sci Total Environ* 2019 NOV 20;692:23-31.
- (274) Morillas H, Maguregui M, Gallego-Cartagena E, Huallparimachi G, Marcaida I, Salcedo I, et al. Evaluation of the role of biocolonizations in the conservation state of Machu Picchu (Peru): The Sacred Rock. *Sci Total Environ* 2019 MAR 1;654:1379-1388.
- (275) Morillas H, Marcaida I, Maguregui M, Upasen S, Gallego-Cartagena E, Manuel Madariaga J. Identification of metals and metalloids as hazardous elements in PM2.5 and PM10 collected in a coastal environment affected by diffuse contamination. *J Clean Prod* 2019 JUL 20;226:369-378.
- (276) Morillas H, Upasen S, Maguregui M, Marcaida I, Gallego-Cartagena E, Oliveira MLS, et al. Evaluating sulfates and nitrates as enemies of the recent constructions: Spectroscopic and thermodynamical study. *J Raman Spectrosc* 2019 MAR;50(3):436-446.
- (277) Morosini A, Enriquez E, Pagano D, Orozco B, Ulacco J, Tibaldi A, et al. Las Callas plutonic complex: Geodynamic implications during the Famatinian magmatism in northeast of Sierra de San Luis, Argentina. *J South Am Earth Sci* 2019 AUG;93:313-347.
- (278) Mousavi S, de la Rosa R, Moukhli A, El Riachy M, Mariotti R, Torres M, et al. Plasticity of fruit and oil traits in olive among different environments. *Sci Rep* 2019 NOV 18;9:16968.
- (279) Mujika J, I., Dalla Torre G, Lachowicz J, I., Lopez X. In silico design of mimosine containing peptides as new efficient chelators of aluminum. *RSC Adv* 2019;9(14):7688-7697.
- (280) Murillo-Barroso M, Montero-Ruiz I, Nieto JM, Camalich Massieu MD, Martin Socas D, Martinon-Torres M. Trace elements and lead isotopic composition of copper deposits from the eastern part of the Internal Zone of the Betic Cordillera (SE Iberia): application to provenance of archaeological materials. *J Iber Geol* 2019 DEC;45(4):585-608.
- (281) Murueta-Goyena A, Morera-Herrerias T, Miguelez C, Gutierrez-Ceballos A, Ugedo L, Vicente Lafuente J, et al. Effects of adult enriched environment on cognition, hippocampal-prefrontal plasticity and NMDAR subunit expression in MK-801-induced schizophrenia model. *Eur Neuropsychopharmacol* 2019 MAY;29(5):590-600.
- (282) Navas-Lopez JF, Leon L, Trentacoste ER, de la Rosa R. Multi-environment evaluation of oil accumulation pattern parameters in olive. *Plant Physiol Biochem* 2019 JUN;139:485-494.



- (283) Nocado-Mena D, Cornelio C, del Rayo Camacho-Corona M, Garza-Gonzalez E, Waksman de Torres N, Arrasate S, et al. Modeling Antibacterial Activity with Machine Learning and Fusion of Chemical Structure Information with Microorganism Metabolic Networks. *J Chem Inf Model* 2019 MAR;59(3):1109-1120.
- (284) Noppalit S, Simula A, Ballard N, Callies X, Asua JM, Billon L. Renewable Terpene Derivative as a Biosourced Elastomeric Building Block in the Design of Functional Acrylic Copolymers. *Biomacromolecules* 2019 JUN;20(6):2241-2251.
- (285) Noppalit S, Simula A, Billon L, Asua JM. Paving the Way to Sustainable Waterborne Pressure-Sensitive Adhesives Using Terpene-Based Triblock Copolymers. *Acs Sustainable Chemistry & Engineering* 2019 NOV 4;7(21):17990-17998.
- (286) Olabarrieta E, Totorikaguena L, Agirregoitia N, Agirregoitia E. Implication of mu opioid receptor in the in vitro maturation of oocytes and its effects on subsequent fertilization and embryo development in mice. *Mol Reprod Dev* 2019 SEP;86(9):1236-1244.
- (287) Olazabal-Herrero A, Sendino M, Arganda-Carreras I, Antonio Rodriguez J. WDR20 regulates shuttling of the USP12 deubiquitinase complex between the plasma membrane, cytoplasm and nucleus. *Eur J Cell Biol* 2019 JAN;98(1):12-26.
- (288) Oliden-Sanchez A, Sola-Llano R, Banuelos J, Garcia-Moreno I, Uriel C, Cristobal Lopez J, et al. Tuning the Photonic Behavior of Symmetrical bis-BODIPY Architectures: The Key Role of the Spacer Moiety. *Front Chem* 2019 DEC 3;7:801.
- (289) Ortiz-Herrero L, Cardaba I, Setien S, Bartolome L, Alonso ML, Maguregui M, I. OPLS multivariate regression of FTIR-ATR spectra of acrylic paints for age estimation in contemporary artworks. *Talanta* 2019 DEC 1;205:UNSP 120114.
- (290) Ortiz-Vitoriano N, Drewett NE, Gonzalo E, Acebedo B, Bonilla FJ, Lopez del Amo JM, et al. High performance P2 sodium layered oxides: an in-depth study into the effect of rationally selected stoichiometry. *J Mater Chem A* 2019 OCT 14;7(38):21812-21826.
- (291) Otaegi I, Aranburu N, Iturrondobeitia M, Ibarretxe J, Guerrica-Echevarria G. The Effect of the Preparation Method and the Dispersion and Aspect Ratio of CNTs on the Mechanical and Electrical Properties of Bio-Based Polyamide-4,10/CNT Nanocomposites. *Polymers* 2019 DEC;11(12):2059.
- (292) Otero M, Salcedo I, Txarterina K, Gonzalez-Murua C, Dunabeitia MK. Quality assessment of *Pinus radiata* production under sustainable nursery management based on compost tea. *J Plant Nutr Soil Sci* 2019 JUN;182(3):356-366.



- (293) Ouhib F, Meabe L, Mahmoud A, Eshraghi N, Grignard B, Thomassin J, et al. CO₂-sourced polycarbonates as solid electrolytes for room temperature operating lithium batteries. *J Mater Chem A* 2019 APR 28;7(16):9844-9853.
- (294) Ozkizilcik A, Sharma A, Vicente Lafuente J, Muresanu DF, Castellani RJ, Nozari A, et al. Nanodelivery of cerebrolysin reduces pathophysiology of Parkinson's disease. *Prog Brain Res* 2019;245:201-246.
- (295) Pajuelo-Corral O, Rodriguez-Dieguez A, Beobide G, Perez-Yanez S, Garcia JA, San Sebastian E, et al. Alkaline-earth and aminonicotinate based coordination polymers with combined fluorescence/long-lasting phosphorescence and metal ion sensing response. *J Mater Chem C* 2019 JUN 21;7(23):6997-7012.
- (296) Palencia-Madrid L, Cardoso S, Castro-Maestre F, Baroja-Careaga I, Rocandio AM, de Pancorbo MM. Development of a new screening method to determine the main 52 mitochondrial haplogroups through a single minisequencing reaction. *Mitochondrion* 2019 MAR;45:46-51.
- (297) Palencia-Madrid L, Sanchez-Valle R, Fernandez de Retana I, Borrego S, Grau-Rivera O, Rene R, et al. A unique common ancestor introduced P301L mutation in MAPT gene in frontotemporal dementia patients from Barcelona (Baix Llobregat, Spain). *Neurobiol Aging* 2019 DEC;84.
- (298) Palla-Rubio B, Araujo-Gomes N, Fernandez-Gutierrez M, Rojo L, Suay J, Gurruchaga M, et al. Synthesis and characterization of silica-chitosan hybrid materials as antibacterial coatings for titanium implants. *Carbohydr Polym* 2019 JAN 1;203:331-341.
- (299) Palos R, Gutierrez A, Hita I, Castano P, Thybaut JW, Arandes JM, et al. Kinetic Modeling of Hydrotreating for Enhanced Upgrading of Light Cycle Oil. *Ind Eng Chem Res* 2019 JUL 24;58(29):13064-13075.
- (300) Palos R, Kekalainen T, Duodu F, Gutierrez A, Arandes JM, Janis J, et al. Screening hydrotreating catalysts for the valorization of a light cycle oil/scrap tires oil blend based on a detailed product analysis. *Appl Catal B-Environ* 2019 NOV 5;256:UNSP 117863.
- (301) Papastavrou AT, Pauze M, Gomez-Bengoia E, Vougioukalakis GC. Unprecedented Multicomponent Organocatalytic Synthesis of Propargylic Esters via CO₂ Activation. *ChemCatChem* 2019 NOV 7;11(21):5379-5386.
- (302) Pascual J, Collavini S, Voelker SF, Nga Phung, Palacios-Lidon E, Irusta L, et al. Unravelling fullerene-perovskite interactions introduces advanced blend films for performance-improved solar cells. *Sustain Energ Fuels* 2019 OCT 1;3(10):2779-2787.



- (303) Pascual-Colino J, Beobide G, Castillo O, Luque A, Perez-Yanez S. Theophylline alkaloid as glue of paddle-wheel copper(II)-adenine entities to afford a rhomboid chain. *Inorg Chim Acta* 2019 JAN 1;484:437-442.
- (304) Pastor M, Basas J, Vairo C, Gainza G, Moreno-Sastre M, Gomis X, et al. Safety and effectiveness of sodium colistimethate-loaded nanostructured lipid carriers (SCM-NLC) against *P. aeruginosa*: in vitro and in vivo studies following pulmonary and intramuscular administration'. *Nanomed -Nanotechnol Biol Med* 2019 JUN;18:101-111.
- (305) Patil V, Cuenin C, Chung F, Aguilera JRR, Fernandez-Jimenez N, Romero-Garmendia I, et al. Human mitochondrial DNA is extensively methylated in a non-CpG context. *Nucleic Acids Res* 2019 NOV 4;47(19):10072-10085.
- (306) Patricia F, Guzman D, Inigo B, Urtzi I, Maria BJ, Manu S. Morphological Characterization and Hydrodynamic Behavior of Shortfin Mako Shark (*Isurus oxyrinchus*) Dorsal Fin Denticles. *J Bionic Eng* 2019 JUL;16(4):730-741.
- (307) Penasco S, Rico-Barrio I, Puente N, Maria Gomez-Urquijo S, Fontaine CJ, Egana-Huguet J, et al. Endocannabinoid long-term depression revealed at medial perforant path excitatory synapses in the dentate gyrus. *Neuropharmacology* 2019 JUL 15;153:32-40.
- (308) Perello Mateo L, Llull Estarellas B. Iron Age circulation and use of lead in the Balearic Islands. New isotopic data from galena and archaeological metals. *Zephyrus* 2019 JUL-DEC;84:89-113.
- (309) Perez AG, Leon L, Pascual M, de la Rosa R, Belaj A, Sanz C. Analysis of Olive (*Olea Europaea* L.) Genetic Resources in Relation to the Content of Vitamin E in Virgin Olive Oil. *Antioxidants* 2019 AUG;8(8):242.
- (310) Perez-Alvarez L, Lizundia E, Ruiz-Rubio L, Benito V, Moreno I, Luis Vilas-Vilela J. Hydrolysis of poly(l-lactide)/ZnO nanocomposites with antimicrobial activity. *J Appl Polym Sci* 2019 JUL 20;136(28):47786.
- (311) Perez-Alvarez L, Ruiz-Rubio L, Artetxe B, Vivanco MDM, Gutierrez-Zorrilla JM, Luis Vilas-Vilela J. Chitosan nanogels as nanocarriers of polyoxometalates for breast cancer therapies. *Carbohydr Polym* 2019 JUN 1;213:159-167.
- (312) Perez-Alvarez L, Ruiz-Rubio L, Azua I, Benito V, Bilbao A, Luis Vilas-Vilela J. Development of multiactive antibacterial multilayers of hyaluronic acid and chitosan onto poly(ethylene terephthalate). *European Polymer Journal* 2019 MAR;112:31-37.
- (313) Perez-Alvarez L, Ruiz-Rubio L, Moreno I, Luis Vilas-Vilela J. Characterization and Optimization of the Alkaline Hydrolysis of Polyacrylonitrile Membranes. *Polymers* 2019 NOV;11(11):1843.



- (314) Perez-Checa A, Musiienko D, Saren A, Soroka A, Feuchtwanger J, Sozinov A, et al. Study of the critical parameters for magnetic field-induced strain in high temperature Ni-Mn-Ga-Co-Cu-Fe single crystals. *Scr Mater* 2019 JAN 1;158:16-19.
- (315) Perez F I, Larrea ES, Bazan B, Barandika G, Karmele Urtiaga M, Arriortua MI. Ionothermal Synthesis of Cadmium Coordination Polymers: Ionic Liquid Effects on the Synthesis, Structural, and Thermal Characterization. *Molecules* 2019 NOV;24(22):4059.
- (316) Perfecto-Irigaray M, Beobide G, Castillo O, da Silva I, Garcia-Lojo D, Luque A, et al. $[\text{Zr}_6\text{O}_4(\text{OH})_4(\text{benzene-1,4-dicarboxylato})(6)](n)$: a hexagonal polymorph of UiO-66. *Chemical Communications* 2019 MAY 25;55(42):5954-5957.
- (317) Piris M. Natural orbital functional for multiplets. *Phys Rev A* 2019 SEP 9;100(3):032508.
- (318) Ponce-Anton G, Arizzi A, Cruz Zuluaga M, Cultrone G, Angel Ortega L, Agirre Mauleon J. Mineralogical, Textural and Physical Characterisation to Determine Deterioration Susceptibility of Irulegi Castle Lime Mortars (Navarre, Spain). *Materials* 2019 FEB 2;12(4):584.
- (319) Prieto A, Yusta I, Arrizabalaga A. Defining and Characterizing Archaeological Quartzite: Sedimentary and Metamorphic Processes in the Lithic Assemblages of El Habario and El Arteu (Cantabrian Mountains, Northern Spain). *Archaeometry* 2019 FEB;61(1):14-30.
- (320) Prieto D, Markaide P, Urrutxurtu I, Navarro E, Artigaud S, Fleury E, et al. Gill transcriptomic analysis in fast- and slow-growing individuals of *Mytilus galloprovincialis*. *Aquaculture* 2019 SEP 15;511:UNSP 734242.
- (321) Prieto-Castaneda A, Avellanal-Zaballa E, Gartzia-Rivero L, Cerdan L, Agarrabeitia AR, Garcia-Moreno I, et al. Tailoring the Molecular Skeleton of Aza-BODIPYs to Design Photostable Red-Light-Emitting Laser Dyes. *ChemPhotoChem* 2019 FEB;3(2):75-85.
- (322) Prieto-Montero R, Sola-Llano R, Montero R, Longarte A, Arbeloa T, Lopez-Arbeloa I, et al. Methylthio BODIPY as a standard triplet photosensitizer for singlet oxygen production: a photophysical study. *Physical Chemistry Chemical Physics* 2019 SEP 28;21(36):20403-20414.
- (323) Prieto-Taboada N, Fdez-Ortiz de Vallejuelo S, Veneranda M, Lama E, Castro K, Arana G, et al. The Raman spectra of the $\text{Na}_2\text{SO}_4\text{-K}_2\text{SO}_4$ system: Applicability to soluble salts studies in built heritage. *J Raman Spectrosc* 2019 FEB;50(2):175-183.
- (324) Prosheva M, Ali Aboudzadeh M, Patricia Leal G, Gilev JB, Tomovska R. High-Performance UV Protective Waterborne Polymer Coatings Based on Hybrid



Graphene/Carbon Nanotube Radicals Scavenging Filler. Part Part Syst Charact 2019 JUL;36(7):1800555.

(325) Puelles P, Gil Ibarguchi JI, Garcia de Madinabeitia S, Sarrionandia F, Carracedo-Sanchez M, Fernandez-Armas S. Granulite-facies gneisses and meta-igneous xenoliths from the Campo de Calatrava volcanic field (Spain): Implications for the tectonics of the Variscan lower crust. Lithos 2019 OCT;342:114-134.

(326) Pujalte V, Monechi S, Ortiz S, Orue-Etxebarria X, Rodriguez-Tovar F, Schmitz B. Microcodium-rich turbidites in hemipelagic sediments during the Paleocene-Eocene Thermal Maximum: Evidence for extreme precipitation events in a Mediterranean climate (Rio Gor section, southern Spain). Global Planet Change 2019 JUL;178:153-167.

(327) Quintela-Lopez T, Ortiz-Sanz C, Paz Serrano-Regal M, Gaminde-Blasco A, Valero J, Baleriola J, et al. A beta oligomers promote oligodendrocyte differentiation and maturation via integrin beta 1 and Fyn kinase signaling. Cell Death Dis 2019 JUN 6;10:UNSP 445.

(328) Quintero-Monsebaiz R, Mitxelena I, Rodriguez-Mayorga M, Vela A, Piris M. Natural orbital functional for spin-polarized periodic systems. J Phys -Condes Matter 2019 APR 24;31(16):165501.

(329) Rabasa-Alcaniz F, Hammerl D, Sanchez-Merino A, Tejero T, Merino P, Fustero S, et al. Asymmetric synthesis of polycyclic 3-fluoroalkylproline derivatives by intramolecular azomethine ylide cycloaddition. Org Chem Front 2019 AUG 21;6(16):2916-2923.

(330) Rafel N, Hunt Ortiz MA, Montero I, Soriano I, Delgado-Raack S, Marin D. New Bronze Age Absolute Datings for Solana Del Bepo Copper Mine (Ulldemolins, Tarragona Province, Spain). Mediterr Archaeol Archaeom 2019;19(1):9-24.

(331) Rajabalinia N, Hamzehlou S, Leiza JR, Asua JM. Experimental validation of a mathematical model for the evolution of the particle morphology of waterborne polymer-polymer hybrids: Paving the way to the design and implementation of optimal polymerization strategies. Chem Eng J 2019 MAY 1;363:259-269.

(332) Rajabalinia N, Hamzehlou S, Modin E, Chuvilin A, Leiza JR, Asua JM. Coupling HAADF-STEM Tomography and Image Reconstruction for the Precise Characterization of Particle Morphology of Composite Polymer Latexes. Macromolecules 2019 JUL 23;52(14):5298-5306.

(333) Resa S, Millan A, Fuentes N, Croveto L, Luisa Marcos M, Lezama L, et al. O-H and (CO)N-H bond weakening by coordination to Fe(II). Dalton Trans 2019 FEB 14;48(6):2179-2189.



- (334) Rico-Barrio I, Penasco S, Puente N, Ramos A, Fontaine CJ, Reguero L, et al. Cognitive and neurobehavioral benefits of an enriched environment on young adult mice after chronic ethanol consumption during adolescence. *Addict Biol* 2019 SEP;24(5):969-980.
- (335) Rinaldi A, Lange V, Gomez-Bengoa E, Zanella G, Scarpi D, Occhiato EG. Synthesis of Indenes by Tandem Gold(I)-Catalyzed Claisen Rearrangement/Hydroarylation Reaction of Propargyl Vinyl Ethers. *J Org Chem* 2019 MAY 17;84(10):6298-6311.
- (336) Rincon-Iglesias M, Lizundia E, Lanceros-Mendez S. Water-Soluble Cellulose Derivatives as Suitable Matrices for Multifunctional Materials. *Biomacromolecules* 2019 JUL;20(7):2786-2795.
- (337) Rodriguez E, Gutierrez A, Palos R, Josune Azkoiti M, Arandes JM, Bilbao J. Cracking of Scrap Tires Pyrolysis Oil in a Fluidized Bed Reactor under Catalytic Cracking Unit Conditions. Effects of Operating Conditions. *Energy Fuels* 2019 APR;33(4):3133-3143.
- (338) Rodriguez E, Gutierrez A, Palos R, Vela FJ, Arandes JM, Bilbao J. Fuel production by cracking of polyolefins pyrolysis waxes under fluid catalytic cracking (FCC) operating conditions. *Waste Manage* 2019 JUN 15;93:162-172.
- (339) Rodriguez E, Palos R, Gutierrez A, Arandes JM, Bilbao J. Production of Non-Conventional Fuels by Catalytic Cracking of Scrap Tires Pyrolysis Oil. *Ind Eng Chem Res* 2019 APR 3;58(13):5158-5167.
- (340) Rodriguez E, Palos R, Gutierrez A, Vela FJ, Arandes JM, Bilbao J. Effect of the FCC Equilibrium Catalyst Properties and of the Cracking Temperature on the Production of Fuel from HDPE Pyrolysis Waxes. *Energy Fuels* 2019 JUN;33(6):5191-5199.
- (341) Rodriguez-Ezpeleta N, Diaz-Arce N, Walter, John F., III, Richardson DE, Rooker JR, Nottestad L, et al. Determining natal origin for improved management of Atlantic bluefin tuna. *Frontiers in Ecology and the Environment* 2019 OCT;17(8):439-443.
- (342) Rodriguez-Mayorga M, Ramos-Cordoba E, Lopez X, Sola M, Ugalde JM, Matito E. The Coulomb Hole of the Ne Atom. *ChemistryOpen* 2019 APR;8(4):411-417.
- (343) Ruiz C, Garcia-Valdivia AA, Fernandez B, Cepeda J, Oyarzabal I, Abas E, et al. Multifunctional coordination compounds based on lanthanide ions and 5-bromonicotinic acid: magnetic, luminescence and anti-cancer properties. *Crystengcomm* 2019 JUL 7;21(25):3881-3890.
- (344) Ruiz-Rubio L, Artetxe B, Perez-Alvarez L, Martin-Caballero J, Ishihara T, Gutierrez-Zorrilla JM, et al. Toward Advanced Functional Systems: Honeycomb-Like



Polymeric Surfaces Incorporating Polyoxovanadates with Surface-Appended Copper-Cyclam Complexes. *Molecules* 2019 JUN 2;24(12):2313.

(345) Ruiz-Rubio L, Perez-Alvarez L, Sanchez-Bodon J, Arrighi V, Luis Vilas-Vilela J. The Effect of the Isomeric Chlorine Substitutions on the Honeycomb-Patterned Films of Poly(*x*-chlorostyrene)s/Polystyrene Blends and Copolymers via Static Breath Figure Technique. *Materials* 2019 JAN 1;12(1):167.

(346) Sabio RM, da Silva RR, Sargentelli V, Gutierrez J, Tercjak A, Lima Ribeiro SJ, et al. Growth of magnetic cobalt hexacyanoferrate nanoparticles onto bacterial cellulose nanofibers. *J Mater Sci -Mater Electron* 2019 SEP;30(18):16956-16965.

(347) Safronov AP, Stadler BJH, Um J, Kouhpanji MRZ, Masa JA, Galyas AG, et al. Polyacrylamide Ferrogels with Ni Nanowires. *Materials* 2019 AUG;12(16):2582.

(348) Sagasti A, Gutierrez J, Lasheras A, Manuel Barandiaran J. Size Dependence of the Magnetoelastic Properties of Metallic Glasses for Actuation Applications. *Sensors* 2019 OCT;19(19):4296.

(349) Saiz PG, Gandia D, Lasheras A, Sagasti A, Quintana I, Luisa Fdez-Gubieda M, et al. Enhanced mass sensitivity in novel magnetoelastic resonators geometries for advanced detection systems. *Sens Actuator B-Chem* 2019 OCT 1;296:UNSP 126612.

(350) Salaheldeen M, Vega V, Caballero-Flores R, Prida VM, Fernandez A. Influence of nanoholes array geometrical parameters on magnetic properties of Dy-Fe antidot thin films. *Nanotechnology* 2019 NOV 8;30(45):455703.

(351) San Segundo M, Correa A. Pd-catalyzed site-selective C(sp²)-H radical acylation of phenylalanine containing peptides with aldehydes. *Chem Sci* 2019 OCT 14;10(38):8872-8879.

(352) Sanchez-Espana J, Yusta I. Coprecipitation of Co²⁺, Ni²⁺ and Zn²⁺ with Mn(III/IV) Oxides Formed in Metal-Rich Mine Waters. *Minerals* 2019 APR;9(4):226.

(353) Sandoval-Salinas ME, Carreras A, Casado J, Casanova D. Singlet fission in spiroconjugated dimers. *J Chem Phys* 2019 MAY 28;150(20):204306.

(354) Sandoval-Salinas ME, Carreras A, Casanova D. Triangular graphene nanofragments: open-shell character and doping. *Phys Chem Chem Phys* 2019 MAY 14;21(18):9069-9076.

(355) Sangroniz A, Zhu J, Tang X, Etxeberria A, Chen EY-, Sardon H. Packaging materials with desired mechanical and barrier properties and full chemical recyclability. *Nature Communications* 2019 AUG 8;10:3559.



- (356) Sangroniz L, Ruiz JL, Sangroniz A, Fernandez M, Etxeberria A, Mueller AJ, et al. Polyethylene terephthalate/low density polyethylene/titanium dioxide blend nanocomposites: Morphology, crystallinity, rheology, and transport properties. *J Appl Polym Sci* 2019 JAN 20;136(4):46986.
- (357) Sangroniz L, Sangroniz A, Fernandez M, Etxeberria A, Muller AJ, Santamaria A. Elaboration and Characterization of Conductive Polymer Nanocomposites with Potential Use as Electrically Driven Membranes. *Polymers* 2019 JUL;11(7):1180.
- (358) Santos JD, Canato S, Carvalho AS, Botelho HM, Aloria K, Amaral MD, et al. Folding Status Is Determinant over Traffic-Competence in Defining CFTR Interactors in the Endoplasmic Reticulum. *Cells* 2019 APR;8(4):353.
- (359) Santos JI, Rivilla I, Cossio FP, Javier Garcia-Garcia F, Matxain JM, Grzeliczak M, et al. Reply to "Comment on 'Chirality-Induced Electron Spin Polarization and Enantiospecific Response in Solid-State Cross-Polarization Nuclear Magnetic Resonance'". *ACS Nano* 2019 JUN;13(6):6133-6136.
- (360) Santos-Lorenzo J, San Jose-Velado R, Albo J, Beobide G, Castano P, Castillo O, et al. A straightforward route to obtain zirconium based metal-organic gels. *Microporous Mesoporous Mat* 2019 AUG;284:128-132.
- (361) Santos-Vizcaino E, Haley H, Gonzalez-Pujana A, Orive G, Maria Hernandez R, Luker GD, et al. Monitoring implantable immunoisolation devices with intrinsic fluorescence of genipin. *J Biophotonics* 2019 APR;12(4):UNSP e201800170.
- (362) Sanz-Marco A, Martinez-Erro S, Pauze M, Gomez-Bengoia E, Martin-Matute B. An umpolung strategy to react catalytic enols with nucleophiles. *Nature Communications* 2019 NOV 20;10:5244.
- (363) Sanz-Saez A, Perez-Lopez U, del-Canto A, Ortiz-Barredo A, Mena-Petite A, Aranjuelo I, et al. Changes in environmental CO₂ concentration can modify Rhizobium-soybean specificity and condition plant fitness and productivity. *Environ Exp Bot* 2019 JUN;162:133-143.
- (364) Sce F, Cano I, Martin C, Beobide G, Castillo O, de Pedro I. Comparing conventional and microwave-assisted heating in PET degradation mediated by imidazolium-based halometallate complexes. *New J Chem* 2019 FEB 28;43(8):3476-3485.
- (365) Schonhobel AM, Madugundo R, Vekilova OY, Eriksson O, Herper HC, Barandiaran JM, et al. Intrinsic magnetic properties of SmFe_{12-x}V_x alloys with reduced V-concentration. *J Alloys Compounds* 2019 MAY 25;786:969-974.



- (366) Serra-Varela S, Gonzalez PD, Giacosa RE, Heredia N, Pedreira D, Martin-Gonzalez F, et al. Evolution of the Palaeozoic basement of the North Patagonian Andes in the San Martin de los Andes area (Neuquen, Argentina): petrology, age and correlations. *Andean Geol* 2019 JAN;46(1):102-130.
- (367) Sguassero A, Artiga A, Morasso C, Ramirez Jimenez R, Martin Rapun R, Mancuso R, et al. A simple and universal enzyme-free approach for the detection of multiple microRNAs using a single nanostructured enhancer of surface plasmon resonance imaging. *Anal Bioanal Chem* 2019 MAR;411(9):1873-1885.
- (368) Shasti M, Volker SF, Collavini S, Valero S, Ruiperez F, Mortezaali A, et al. Perovskite Solar Cells Based on Oligotriarylamine Hexaarylbenzene as Hole-Transporting Materials. *Org Lett* 2019 MAY 3;21(9):3261-3264.
- (369) Simula A, Ruiperez F, Ballard N, Leiza JR, van Es S, Asua JM. Why can Dispolreg 007 control the nitroxide mediated polymerization of methacrylates? *Polym Chem* 2019 JAN 7;10(1):106-113.
- (370) Sitkiewicz SP, Rodriguez-Mayorga M, Luis JM, Matito E. Partition of optical properties into orbital contributions. *Physical Chemistry Chemical Physics* 2019 JUL 28;21(28):15380-15391.
- (371) Sotorrios L, Demertzidou VP, Zografos AL, Gomez-Bengoia E. DFT studies on metal-catalyzed cycloisomerization of trans-1,5-enynes to cyclopropane sesquiterpenoids. *Org Biomol Chem* 2019 MAY 28;17(20):5112-5120.
- (372) Spada L, Uriarte I, Li W, Evangelisti L, Cocinero EJ, Caminati W. Interactions between azines and alcohols: a rotational study of pyridine-tert-butyl alcohol. *Phys Chem Chem Phys* 2019 FEB 21;21(7):3545-3549.
- (373) Stoppiello CT, Isla H, Martinez-Abadia M, Fay MW, Parmenter CDJ, Roe MJ, et al. Three dimensional nanoscale analysis reveals aperiodic mesopores in a covalent organic framework and conjugated microporous polymer. *Nanoscale* 2019 FEB 14;11(6):2848-2854.
- (374) Suarez-Barrio C, Etxebarria J, Hernaez-Moya R, del Val-Alonso M, Rodriguez-Astigarraga M, Urkaregi A, et al. Hyaluronic Acid Combined with Serum Rich in Growth Factors in Corneal Epithelial Defects. *Int J Mol Sci* 2019 APR;20(7):1655.
- (375) Sureda P. The first metallurgy in the Pityusic Islands (Balearic archipelago, Mediterranean Sea). *Archaeol Anthropol Sci* 2019 JUN;11(6):2727-2741.
- (376) Svalov A, V., Andreev S, V., Larranaga A, Orue I, Kurlyandskaya G, V. Rapidly quenched non-strained nanocrystalline Gd ribbons: Structural features and magnetic properties. *J Magn Magn Mater* 2019 NOV 15;490:UNSP 165529.



(377) Szlapa EN, Lopez X, Ugalde JM. Methane activation by alternant [N₂O₂](center dot+) and [N₂S₂](center dot+) cluster radical cations. *Int J Mass Spectrom* 2019 APR;438:72-77.

(378) Talaat A, Zhukova V, Ipatov M, Maria Blanco J, Gonzalez J, Zhukov A. Impact of Stress Annealing on the Magnetization Process of Amorphous and Nanocrystalline Co-Based Microwires. *Materials* 2019 AUG;12(16):2644.

(379) Tapeinos C, Tomatis F, Battaglini M, Larranaga A, Marino A, Telleria IA, et al. Cell Membrane-Coated Magnetic Nanocubes with a Homotypic Targeting Ability Increase Intracellular Temperature due to ROS Scavenging and Act as a Versatile Theranostic System for Glioblastoma Multiforme. *Advanced Healthcare Materials* 2019 SEP;8(18):1900612.

(380) Tejeria A, Perez-Pertejo Y, Reguera RM, Carbajo-Andres R, Balana-Fouce R, Alonso C, et al. Antileishmanial activity of new hybrid tetrahydroquinoline and quinoline derivatives with phosphorus substituents. *Eur J Med Chem* 2019 JAN 15;162:18-31.

(381) Torralbo F, Begona Gonzalez-Moro M, Baroja-Fernandez E, Aranjuelo I, Gonzalez-Murua C. Differential Regulation of Stomatal Conductance as a Strategy to Cope With Ammonium Fertilizer Under Ambient Versus Elevated CO₂. *Front Plant Sci* 2019 MAY 24;10:597.

(382) Torralbo F, Vicente R, Morcuende R, Gonzalez-Murua C, Aranjuelo I. C and N metabolism in barley leaves and peduncles modulates responsiveness to changing CO₂. *J Exp Bot* 2019 JAN 15;70(2):599-611.

(383) Totorikaguena L, Olabarrieta E, López-Cardona AP, Agirregoitia N, Agirregoitia E. Tetrahydrocannabinol modulates in vitro maturation of oocytes and improves the blastocyst rates after in vitro fertilization. *Cell Physiol Biochem* 2019;53(3):439-452.

(384) Toyos-Rodriguez C, Calleja-Garcia J, Torres-Sanchez L, Lopez A, Abu-Dief AM, Costa A, et al. A Simple and Reliable Synthesis of Superparamagnetic Magnetite Nanoparticles by Thermal Decomposition of Fe(acac)₃. *J Nanomater* 2019 NOV 13;2019:2464010.

(385) Uranga J, Puertas AI, Etxabide A, Duenas MT, Guerrero P, de la Caba K. Citric acid-incorporated fish gelatin/chitosan composite films. *Food Hydrocoll* 2019 JAN;86:95-103.

(386) Urbina L, Alonso-Varona A, Saralegi A, Palomares T, Eceiza A, Angeles Corcuera M, et al. Hybrid and biocompatible cellulose/polyurethane nanocomposites with water-activated shape memory properties. *Carbohydr Polym* 2019 JUL 15;216:86-96.



- (387) Urbina L, Angeles Corcuera M, Eceiza A, Retegi A. Stiff all-bacterial cellulose nanopaper with enhanced mechanical and barrier properties. *Mater Lett* 2019 JUL 1;246:67-70.
- (388) Urbina L, Eceiza A, Gabilondo N, Angeles Corcuera M, Retegi A. Valorization of apple waste for active packaging: multicomponent polyhydroxyalkanoate coated nanopapers with improved hydrophobicity and antioxidant capacity. *Food Packaging Shelf Life* 2019 SEP;21:UNSP 100356.
- (389) Urgoitia G, SanMartin R, Teresa Herrero M, Dominguez E. Optimization of process conditions for nickel-catalyzed selective aerobic O-debenzylation. *Appl Catal A-Gen* 2019 JUN 5;579:86-90.
- (390) Uriarte I, Reviriego F, Calabrese C, Elguero J, Kisiel Z, Alkorta I, et al. Bond Length Alternation Observed Experimentally: The Case of 1H-Indazole. *Chem -Eur J* 2019 AUG 1;25(43):10172-10178.
- (391) Uribe B, Gonzalez O, Encarnacion Blanco M, Elena Alboniga O, Luz Alonso M, Maria Alonso R. Analysis of the Heterogeneous Distribution of Amiloride and Propranolol in Dried Blood Spot by UHPLC-FLD and MALDI-IMS. *Molecules* 2019 DEC;24(23):4320.
- (392) Uribe-Etxebarria V, Agliano A, Unda F, Ibarretxe G. Wnt signaling reprograms metabolism in dental pulp stem cells. *J Cell Physiol* 2019 AUG;234(8):13068-13082.
- (393) Urrea J, Alkorta I, Mijangos I, Epelde L, Garbisu C. Application of sewage sludge to agricultural soil increases the abundance of antibiotic resistance genes without altering the composition of prokaryotic communities. *Sci Total Environ* 2019 JAN 10;647:1410-1420.
- (394) Urrutxua M, Pereda-Ayo B, De-La-Torre U, Gonzalez-Velasco JR. Evaluation of Cu/SAPO-34 Catalysts Prepared by Solid-State and Liquid Ion-Exchange Methods for NO_x Removal by NH₃-SCR. *ACS Omega* 2019 SEP 17;4(12):14699-14713.
- (395) Urruzuno I, Mugica O, Zanella G, Vera S, Gomez-Bengoia E, Oiarbide M, et al. alpha-Branched Ketone Dienolates: Base-Catalysed Generation and Regio- and Enantioselective Addition Reactions. *Chem -Eur J* 2019 JUL 22;25(41):9701-9709.
- (396) Usabiaga I, Camiruaga A, Calabrese C, Maris A, Fernandez JA. Exploring Caffeine-Phenol Interactions by the Inseparable Duet of Experimental and Theoretical Data. *Chem -Eur J* 2019 NOV 7;25(62):14230-14236.
- (397) Vadillo V, Gutierrez J, Insausti M, Garitaonandia JS, Gil de Muro I, Quintana I, et al. Synthesis and Characterization of Fe-Co-V High-Magnetization Nanoparticles Obtained by Physical Routes. *IEEE Magn Lett* 2019;10:6104805.



- (398) Vairo C, Collantes M, Quincoces G, Vilianas S, Penuelas I, Pastor M, et al. Preclinical safety of topically administered nanostructured lipid carriers (NLC) for wound healing application: biodistribution and toxicity studies. *Int J Pharm* 2019 OCT 5;569:118484.
- (399) Valecillos J, Manzano H, Aguayo AT, Bilbao J, Castano P. Kinetic and Deactivation Differences Among Methanol, Dimethyl Ether and Chloromethane as Stock for Hydrocarbons. *Chemcatchem* 2019 NOV 21;11(22):5444-5456.
- (400) Vallejo A, Millan L, Abrego Z, Carmen Sampedro M, Sanchez-Ortega A, Unceta N, et al. Fungicide distribution in vitiviniculture ecosystems according to different application strategies to reduce environmental impact. *Sci Total Environ* 2019 OCT 15;687:319-329.
- (401) Valverde A, Perez-Alvarez L, Ruiz-Rubio L, Pacha Olivenza MA, Garcia Blanco MB, Diaz-Fuentes M, et al. Antibacterial hyaluronic acid/chitosan multilayers onto smooth and micropatterned titanium surfaces. *Carbohydr Polym* 2019 MAR 1;207:824-833.
- (402) Valverde P, Quintana J, I., Santos J, I., Arda A, Jimenez-Barbero J. Novel NMR Avenues to Explore the Conformation and Interactions of Glycans. *ACS Omega* 2019 AUG;4(9):13618-13630.
- (403) Vas'kovskiy VO, Moskalev ME, Lepalovskij VN, Svalov AV, Larranaga A, Balymov KG, et al. Crystal structure and exchange bias of Ni-Mn-based films. *J Alloys Compounds* 2019 MAR 10;777:264-270.
- (404) Vega-Mas I, Cukier C, Coletto I, Gonzalez-Murua C, Limami AM, Gonzalez-Moro B, et al. Isotopic labelling reveals the efficient adaptation of wheat root TCA cycle flux modes to match carbon demand under ammonium nutrition. *Sci Rep* 2019 JUN 20;9:8925.
- (405) Vekilova OY, Fayyazi B, Skokov KP, Gutfleisch O, Echevarria-Bonet C, Barandiaran JM, et al. Tuning the magnetocrystalline anisotropy of Fe₃Sn by alloying. *Phys Rev B* 2019 JAN 22;99(2):024421.
- (406) Viar N, Requies JM, Agirre I, Iriondo A, Arias PL. Furanic biofuels production from biomass using Cu-based heterogeneous catalysts. *Energy* 2019 APR 1;172:531-544.
- (407) Villaescusa P, Blazquez P, Martinez-Jarreta B, Jimenez S, Alvarez-Gila O, de Pancorbo MM. The impact of haplogroup R1b-DF27 in Hispanic admixed populations from Latin America. *Forensic Sci Int Genet Suppl Ser* 2019 DEC;7(1):488-490.
- (408) Villaescusa P, Palencia-Madrid L, Campaner MA, Jauregui-Rada J, Guerra-Rodriguez M, Maria Rocandio A, et al. Effective resolution of the Y chromosome



sublineages of the Iberian haplogroup R1b-DF27 with forensic purposes. *Int J Legal Med* 2019 JAN;133(1):17-23.

(409) Wain-Martin A, Moran-Ruiz A, Angel Laguna-Bercero M, Campana R, Larranaga A, Raimond Slater P, et al. SOFC cathodic layers using wet powder spraying technique with self synthesized nanopowders. *Int J Hydrogen Energy* 2019 MAR 15;44(14):7555-7563.

(410) Wolff T, Berrueta LA, Valente LMM, Barboza RS, Neris RLS, Guimaraes-Andrade IP, et al. Comprehensive characterisation of polyphenols in leaves and stems of three anti-dengue virus type-2 active Brazilian *Faramea* species (Rubiaceae) by HPLC-DAD-ESI-MS/MS. *Phytochem Anal* 2019 JAN-FEB;30(1):62-72.

(411) Wolff T, Valente LMM, Barboza RS, Berrueta LA, Gallo B, Gomes M. Iridoid glucosides from the stems of three bioactive Brazilian *Faramea* species (Rubiaceae). *Biochem Syst Ecol* 2019 JUN;84:35-36.

(412) Xie J, Carrasco J, Li R, Shen H, Chen Q, Yang M. Novel 3D flower-like micro/nano-structure FeS/N-doped-C composites as advanced cathodes with high lithium storage performances. *J Power Sources* 2019 AUG 15;431:226-231.

(413) Yan BF, Nguyen C, Pokrovsky OS, Candaudap F, Coriou C, Bussiere S, et al. Cadmium allocation to grains in durum wheat exposed to low Cd concentrations in hydroponics. *Ecotoxicol Environ Saf* 2019 NOV 30;184:UNSP 109592.

(414) Zangi R. Self-Assembly of Alcohols Adsorbed on Graphene. *J Phys Chem C* 2019 JUL 11;123(27):16902-16910.

(415) Zarrabeitia M, Gonzalo E, Pasqualini M, Ciambezi M, Lakuntza O, Nobili F, et al. Unraveling the role of Ti in the stability of positive layered oxide electrodes for rechargeable Na-ion batteries. *J Mater Chem A* 2019 JUN 21;7(23):14169-14179.

(416) Zarrabeitia M, Jauregui M, Sharma N, Pramudita JC, Casas-Cabanas M. Na₄Co₃(PO₄)₂P₂O₇ through Correlative Operando X-ray Diffraction and Electrochemical Impedance Spectroscopy. *Chemistry of Materials* 2019 JUL 23;31(14):5152-5159.

(417) Zhang C, Medina Rivero S, Liu W, Casanova D, Zhu X, Casado J. Stable Cross-Conjugated Tetrathiophene Diradical. *Angew Chem -Int Edit* 2019 AUG 12;58(33):11291-11295.

(418) Zhang H, Chen F, Lakuntza O, Oteo U, Qiao L, Martinez-Ibanez M, et al. Suppressed Mobility of Negative Charges in Polymer Electrolytes with an Ether-Functionalized Anion. *Angew Chem -Int Edit* 2019 AUG 26;58(35):12070-12075.



- (419) Zhang H, Judez X, Santiago A, Martinez-Ibanez M, Angel Munoz-Marquez M, Carrasco J, et al. Fluorine-Free Noble Salt Anion for High-Performance All-Solid-State Lithium-Sulfur Batteries. *Adv Energy Mater* 2019 JUL;9(25):1900763.
- (420) Zhang H, Oteo U, Judez X, Eshetu GG, Martinez-Ibanez M, Carrasco J, et al. Designer Anion Enabling Solid-State Lithium-Sulfur Batteries. *Joule* 2019 JUL 17;3(7):1689-1702.
- (421) Zhang H, Oteo U, Zhu H, Judez X, Martinez-Ibanez M, Aldalur I, et al. Enhanced Lithium-Ion Conductivity of Polymer Electrolytes by Selective Introduction of Hydrogen into the Anion. *Angew Chem -Int Edit* 2019 JUN 3;58(23):7829-7834.
- (422) Zhou Y, Orozco CA, Duque-Redondo E, Manzano H, Geng G, Feng P, et al. Modification of poly(ethylene glycol) on the microstructure and mechanical properties of calcium silicate hydrates. *Cem Concr Res* 2019 JAN;115:20-30.
- (423) Zhukov A, Gonzalez-Legarreta L, Ipatov M, Corte-Leon P, Blanco JM, Zhukova V. Giant magnetoimpedance effect at GHz frequencies in amorphous microwires. *AIP Adv* 2019 DEC 1;9(12):125333.
- (424) Zhukov A, Corte-Leon P, Maria Blanco J, Ipatov M, Gonzalez J, Zhukova V. Engineering of Magnetic Properties of Fe-Rich Microwires by Stress Annealing. *IEEE Trans Magn* 2019 FEB;55(2):2000504.
- (425) Zhukova V, Corte-Leon P, Ipatov M, Maria Blanco J, Gonzalez-Legarreta L, Zhukov A. Development of Magnetic Microwires for Magnetic Sensor Applications. *Sensors* 2019 NOV;19(21):4767.
- (426) Zulfiqar S, Mantione D, El Tall O, Ruiperez F, Sarwar MI, Rothenberger A, et al. Pyridinium Containing Amide Based Polymeric Ionic Liquids for CO₂/CH₄ Separation. *ACS Sustain Chem Eng* 2019 JUN 17;7(12):10241-10247.