

PUBLICATIONS OF THE YEAR 2017 SUPPORTED BY THE SGIKER

- (1) Abad D, Albaina A, Aguirre M, Estonba A. 18S V9 metabarcoding correctly depicts plankton estuarine community drivers. *Mar Ecol Prog Ser* 2017 DEC 7;584:31-43.

(2) Abrego Z, Unceta N, Sanchez A, Gomez-Caballero A, Maria Berrio-Ochoa L, Goicolea MA, et al. Determination of mercury(II) in water at sub-nanomolar levels by laser ablation-ICPMS analysis of screen printed electrodes used as a portable voltammetric preconcentration system. *Analyst* 2017 APR 7;142(7):1157-1164.

(3) Agirrezabala LM, Sarrionandia F, Carracedo-Sanchez M. Diatreme-forming volcanism in a deep-water faulted basin margin: Lower Cretaceous outcrops from the Basque-Cantabrian Basin, western Pyrenees. *J Volcanol Geotherm Res* 2017 MAY 1;337:124-139.

(4) Aguirre M, Abad D, Albaina A, Cralle L, Goni-Urriza MS, Estonba A, et al. Unraveling the environmental and anthropogenic drivers of bacterial community changes in the Estuary of Bilbao and its tributaries. *PLoS One* 2017 JUN 8;12(6):e0178755.

(5) Aguirre M, Goikoetxea M, Alberto Otero L, Paulis M, Leiza JR. Accelerated ageing of hybrid acrylic waterborne coatings containing metal oxide nanoparticles: Effect on the microstructure. *Surf Coat Technol* 2017 JUL 15;321:484-490.

(6) Aguirresarobe RH, Martin L, Fernandez-Berridi MJ, Irusta L. Autonomic healable waterborne organic-inorganic polyurethane hybrids based on aromatic disulfide moieties. *Express Polym Lett* 2017 APR;11(4):266-277.

(7) Aizpurua-Olaizola O, Zarandona I, Ortiz L, Navarro P, Etxebarria N, Usobiaga A. Simultaneous quantification of major cannabinoids and metabolites in human urine and plasma by HPLC-MS/MS and enzyme-alkaline hydrolysis. *Drug Test Anal* 2017 APR;9(4):626-633.

(8) Akhmatskaya E, Fernandez-Pendas M, Radivojevic T, Sanz-Serna JM. Adaptive Splitting Integrators for Enhancing Sampling Efficiency of Modified Hamiltonian Monte Carlo Methods in Molecular Simulation. *Langmuir* 2017 OCT 24;33(42):11530-11542.

(9) Alberro N, Torrent-Sucarrat M, Arrastia I, Arrieta A, Cossio FP. Two-State Reactivity of Histone Demethylases Containing Jumonji-C Active Sites: Different Mechanisms for Different Methylation Degrees. *Chem -Eur J* 2017 JAN 1;23(1):137-148.

(10) Albesa-Jove D, Romero-Garcia J, Sancho-Vaello E, Contreras F-, Rodrigo-Unzueta A, Comino N, et al. Structural Snapshots and Loop Dynamics along the Catalytic Cycle of Glycosyltransferase GpgS. *Structure* 2017 JUL 5;25(7):1034-+.

- (11) Alboniga OE, Alonso ML, Blanco ME, Gonzalez O, Grisalena A, Campanero MA, et al. Quantitative determination of dobutamine in newborn pig plasma samples by HPLC-MS/MS. *J Pharm Biomed Anal* 2017 OCT 25;145:178-185.

(12) Aldasoro U, Escudero LF, Merino M, Perez G. A parallel Branch-and-Fix Coordination based matheuristic algorithm for solving large sized multistage stochastic mixed 0-1 problems. *Eur J Oper Res* 2017 APR 16;258(2):590-606.

(13) Alonso C, Gonzalez M, Palacios F, Rubiales G. Study of the Hetero-[4+2]-Cycloaddition Reaction of Aldimines and Alkynes. Synthesis of 1,5-Naphthyridine and Isoindolone Derivatives. *J Org Chem* 2017 JUN 16;82(12):6379-6387.

(14) Alonso C, Martin-Encinas E, Rubiales G, Palacios F. Reliable Synthesis of Phosphino- and Phosphine Sulfide-1,2,3,4-Tetrahydroquinolines and Phosphine Sulfide Quinolines. *Eur J Org Chem* 2017 MAY 26(20):2916-2924.

(15) Alonso-de Castro S, Ruggiero E, Ruiz-de-Angulo A, Rezabal E, Mareque-Rivas JC, Lopez X, et al. Riboflavin as a bioorthogonal photocatalyst for the activation of a Pt-IV prodrug. *Chem Sci* 2017 JUN 1;8(6):4619-4625.

(16) Alvarez R, Vilar U, Madich Y, Aurrecoechea JM. On the regiochemical differences between Pd-catalyzed heterocyclization-allylation and -arylation reactions of alkynylbenzamides: preparation of 4-allyl-isochromen-1-imines and computational study. *Org Biomol Chem* 2017 OCT 28;15(40):8594-8605.

(17) Alvarez-Serrano I, Ruiz de Larramendi I, Lopez ML, Veiga ML. Substrate-induced dielectric polarization in thin films of lead-free ($\text{Sr}_{0.5}\text{Bi}_{0.5}(2)\text{Mn}_{2-x}\text{TixO}_6$ -delta perovskites grown by pulsed laser deposition. *Appl Surf Sci* 2017 MAR 31;399:387-395.

(18) Amayuelas E, Fidalgo-Marijuan A, Bazan B, Urtiaga MK, Barandika G, Arriortua MI. Highly thermally stable heterogeneous catalysts: study of 0D and 3D porphyrinic MOFs. *CrystEngComm* 2017 DEC 28;19(48):7244-7252.

(19) Amayuelas E, Fidalgo-Marijuan A, Bazan B, Karmele Urtiaga M, Barandika G, Lezama L, et al. Cationic $\text{Mn}^{2+}/\text{H}^+$ exchange leading a slow solid-state transformation of a 2D porphyrinic network at ambient conditions. *J Solid State Chem* 2017 MAR;247:161-167.

(20) An X, Aguirresarobe RH, Irusta L, Ruiperez F, Matxain JM, Pan X, et al. Aromatic diselenide crosslinkers to enhance the reprocessability and self-healing of polyurethane thermosets. *Polym Chem* 2017 JUN 21;8(23):3641-3646.

(21) Anakabe J, Zaldua Huici AM, Eceiza A, Arbelaitz A, Averous L. Combined effect of nucleating agent and plasticizer on the crystallization behaviour of polylactide. *Polym Bull* 2017 DEC;74(12):4857-4886.

- (22) Andersen MB, Tesauro C, Gonzalez M, Kristoffersen EL, Alonso C, Rubiales G, et al. Advantages of an optical nanosensor system for the mechanistic analysis of a novel topoisomerase I targeting drug: a case study. *Nanoscale* 2017;9(5):1886-1895.

(23) Angulo R, Arriola N, Alonso G. Stimulus similarity decreases spontaneous object recognition regardless of the retention interval in rats. *Psicologica* 2017;38(2):195-208.

(24) Aranburu A, Luis Arsuaga J, Sala N. The stratigraphy of the Sima de los Huesos (Atapuerca, Spain) and implications for the origin of the fossil hominin accumulation. *Quat Int* 2017 MAR 17;433:5-21.

(25) Aranzabe E, Isabel Arriortua M, Larranaga A, Aranzabe A, Maria Villasante P, March R. Designing multifunctional pigments for an improved energy efficiency in buildings. *Energy Build* 2017 JUL 15;147:9-13.

(26) Aranzamendi E, Sotomayor N, Lete E. Phenolic Activation in Chiral Bronsted Acid-Catalyzed Intramolecular alpha-Amidoalkylation Reactions for the Synthesis of Fused Isoquinolines. *ACS Omega* 2017 JUN;2(6):2706-2718.

(27) Arcelus O, Suaud N, Katcho NA, Carrasco J. Insight from first principles into the stability and magnetism of alkali-metal superoxide nanoclusters. *J Chem Phys* 2017 MAY 14;146(18):184301.

(28) Armengol S, Arretxe E, Enzunza L, Llorente I, Mendibil U, Navarro-Imaz H, et al. SREBP-2-driven transcriptional activation of human SND1 oncogene. *Oncotarget* 2017 DEC 8;8(64):108181-108194.

(29) Arrate M, Aurrecoechea JM. Synthesis of bicyclic alcohols by palladium-catalyzed Et₂Zn-mediated intramolecular carbonylpropargylation. *Arkivoc* 2017:257-267.

(30) Arrieta N, Iturregui A, Martinez-Arkarazo I, Murelaga X, Ignacio Baceta J, de Diego A, et al. Characterization of ferruginous cements related with weathering of slag in a temperate anthropogenic beachrock. *Sci Total Environ* 2017 MAR 1;581:49-65.

(31) Arrieta U, Katcho NA, Arcelus O, Carrasco J. First-Principles Study of Sodium Intercalation in Crystalline Na-x Si-24 (0 <= x <= 4) as Anode Material for Na-ion Batteries. *Sci Rep* 2017 JUL 13;7:5350.

(32) Arrieta-Aguirre I, Menendez-Manjon P, Cuetara MS, Lopez-Soria L, Garcia-Ruiz JC, Moragues MD. Molecular Identification of Saprochaete capitata in Human Blood and Paraffinized Tissue Samples. *J Clin Microbiol* 2017 AUG;55(8):2556-2559.

(33) Arsuaga JL, Gomez-Olivencia A, Sala N, Martinez-Pillard V, Pablosi A, Bonmati A, et al. Evidence of paleoecological changes and Mousterian occupations at the Galeria de las Estatuas site, Sierra de Atapuerca, northern Iberian plateau, Spain. *Quatern Res* 2017 SEP;88(2):345-367.

- (34) Arteaga O, Revuelta M, Uriguen L, Martinez-Millan L, Hilario E, Alvarez A. Docosahexaenoic Acid Reduces Cerebral Damage and Ameliorates Long-Term Cognitive Impairments Caused by Neonatal Hypoxia-Ischemia in Rats. *Mol Neurobiol* 2017 NOV;54(9):7137-7155.

(35) Ayastuy JL, Iriarte-Velasco U, Gurbani A, Gutierrez-Ortiz MA. Investigation of the calcination temperature effect on the interaction between Au nanoparticles and the catalytic support alpha-Fe₂O₃ for the low temperature CO oxidation. *J Taiwan Inst Chem Eng* 2017 JUN;75:18-28.

(36) Badiola E, Olaizola I, Vazquez A, Vera S, Mielgo A, Palomo C. beta(2,2)-Amino Acid N-Carboxyanhydrides Relying on Sequential Enantioselective C(4)-Functionalization of Pyrrolidin-2,3-diones and Regioselective Baeyer-Villiger Oxidation. *Chem -Eur J* 2017 JUN 16;23(34):8185-8195.

(37) Bastida I, San Segundo M, Lopez R, Palomo C. Strategy for Stereoselective Metal-free - Functionalization of 2-Azaaryl Acetates with N-Boc Imines. *Chem -Eur J* 2017 SEP 27;23(54):13332-13336.

(38) Belen Marco A, Cortizo-Lacalle D, Perez-Miqueo I, Valenti G, Boni A, Plas J, et al. Twisted Aromatic Frameworks: Readily Exfoliable and Solution-Processable Two-Dimensional Conjugated Microporous Polymers. *Angew Chem -Int Edit* 2017 JUN 6;56(24):6946-6951.

(39) Belmonte-Vazquez JL, Sola-Llano R, Banuelos J, Betancourt-Mendiola L, Vazquez-Guevara MA, Lopez-Arbeloa I, et al. A versatile synthetic approach to design tailor-made push-pull chromophores with intriguing and tunable photophysical signatures. *Dyes and Pigments* 2017 DEC;147:246-259.

(40) Benedicto A, Marquez J, Herrero A, Olaso E, Kolaczkowska E, Arteta B. Decreased expression of the beta(2) integrin on tumor cells is associated with a reduction in liver metastasis of colorectal cancer in mice. *BMC Cancer* 2017 DEC 6;17:827.

(41) Bernar I, Fiser B, Blanco-Ania D, Gomez-Bengo E, Rutjes FPJT. Pd-Catalyzed Hydroamination of Alkoxyallenes with Azole Heterocycles: Examples and Mechanistic Proposal. *Org Lett* 2017 AUG 18;19(16):4211-4214.

(42) Bikas R, Shahmoradi E, Noshiranzadeh N, Emami M, Reinoso S. The effects of halogen substituents on the catalytic oxidation of benzylalcohols in the presence of dinuclear oxidovanadium(IV) complex. *Inorg Chim Acta* 2017 SEP;466:100-109.

(43) Bilgin S, Tomovska R, Asua JM. Effect of ionic monomer concentration on latex and film properties for surfactant-free high solids content polymer dispersions. *Eur Polym J* 2017 AUG;93:480-494.

- (44) Blyakhman FA, Safronov AP, Zubarev AY, Shklyar TF, Makeyev OG, Makarova EB, et al. Polyacrylamide ferrogels with embedded maghemite nanoparticles for biomedical engineering. *Results Phys* 2017;7:3624-3633.

(45) Bonnefond A, Pereira Gomes C, de la Cal JC, Leiza JR. Surfactant-free poly(methyl methacrylate)/poly(vinylamine) (PMMA/PVAm) amphiphilic core-shell polymer particles. *Colloid Polym Sci* 2017 JAN;295(1):135-144.

(46) Borges G, Miguelez C, Neto F, Antonio Mico J, Ugedo L, Berrocoso E. Activation of Extracellular Signal-Regulated Kinases (ERK 1/2) in the Locus Coeruleus Contributes to Pain-Related Anxiety in Arthritic Male Rats. *Int J Neuropsychopharmacol* 2017 JUN;20(6):463-475.

(47) Bossion A, Jones GO, Taton D, Mecerreyes D, Hedrick JL, Ong ZY, et al. Non-Isocyanate Polyurethane Soft Nanoparticles Obtained by Surfactant-Assisted Interfacial Polymerization. *Langmuir* 2017 FEB 28;33(8):1959-1968.

(48) Boukha Z, Ayastuy JL, Gonzalez-Velasco JR, Gutierrez-Ortiz MA. CO elimination processes over promoter-free hydroxyapatite supported palladium catalysts. *Appl Catal B-Environ* 2017 FEB;201:189-201.

(49) Bowles JFW, Suarez S, Prichard HM, Fisher PC. Weathering of PGE sulfides and Pt-Fe alloys in the Freetown Layered Complex, Sierra Leone. *Miner Deposita* 2017 DEC;52(8):1127-1144.

(50) Burges A, Epelde L, Blanco F, Becerril JM, Garbisu C. Ecosystem services and plant physiological status during endophyte-assisted phytoremediation of metal contaminated soil. *Sci Total Environ* 2017 APR 15;584:329-338.

(51) Calabrese C, Maris A, Uriarte I, Cocinero EJ, Melandri S. Effects of Chlorination on the Tautomeric Equilibrium of 2-Hydroxypyridine: Experiment and Theory. *Chem -Eur J* 2017 MAR;23(15):3595-3604.

(52) Calparsoro E, Maguregui M, Giakoumaki A, Morillas H, Manuel Madariaga J. Evaluation of black crust formation and soiling process on historical buildings from the Bilbao metropolitan area (north of Spain) using SEM-EDS and Raman microscopy. *Environ Sci Pollut Res* 2017 APR;24(10):9468-9480.

(53) Calvo-Correas T, Ugarte L, Trzebiatowska PJ, Sanzberro R, Datta J, Angeles Corcuera M, et al. Thermoplastic polyurethanes with glycolysate intermediates from polyurethane waste recycling. *Polym Degrad Stab* 2017 OCT;144:411-419.

(54) Camiruaga A, Usabiaga I, Insausti A, Cocinero EJ, Leon I, Fernandez JA. Understanding the role of tyrosine in glycogenin. *Mol Biosyst* 2017 SEP 1;13(9):1709-1712.

- (55) Camiruaga A, Usabiaga I, Insausti A, Leon I, Fernandez JA. Sugar-peptidic bond interactions: spectroscopic characterization of a model system. *Phys Chem Chem Phys* 2017 MAY 21;19(19):12013-12021.

(56) Canato S, Carvalho AS, Botelho HM, Aloria K, Matthiesen R, Amaral MD, et al. Modulation of protein traffic networks to rescue F508del-CFTR from the endoplasmic reticulum. *Febs J* 2017 SEP;284:297-298.

(57) Cano L, Humberto Builes D, Carrasco-Hernandez S, Gutierrez J, Tercjak A. Quantitative nanomechanical property mapping of epoxy, thermosetting system modified with poly(ethylene oxide-b-propylene oxide-b-ethylene oxide) triblock copolymer. *Polym Test* 2017 FEB;57:38-41.

(58) Cano L, Pollet E, Averous L, Tercjak A. Effect of TiO₂ nanoparticles on the properties of thermoplastic chitosan-based nano-biocomposites obtained by mechanical kneading. *Compos Pt A-Appl Sci Manuf* 2017 FEB;93:33-40.

(59) Cardoso S, Sevillano R, Gamarra D, Santurtun A, Martinez-Jarreta B, de Pancorbo MM. Population genetic data of 38 insertion-deletion markers in six populations of the northern fringe of the Iberian Peninsula. *Forensic Sci Int -Genet* 2017 MAR;27:175-179.

(60) Carini M, Ruiz MP, Usabiaga I, Fernandez JA, Cenicero EJ, Melle-Franco M, et al. High conductance values in pi-folded molecular junctions. *Nat Commun* 2017 MAY 18;8:15195.

(61) Carracedo-Sanchez M, Sarrionandia F, Abalos B, Errandonea-Martin J, Gil Ibarguchi JI. Intra-cone plumbing system and eruptive dynamics of small-volume basaltic volcanoes: A case study in the Calatrava Volcanic Field. *J Volcanol Geotherm Res* 2017 DEC 15;348:82-95.

(62) Carral-Menoyo A, Ortiz-de-Elguea V, Martinez-Nunes M, Sotomayor N, Lete E. Palladium-Catalyzed Dehydrogenative Coupling: An Efficient Synthetic Strategy for the Construction of the Quinoline Core. *Mar Drugs* 2017 SEP;15(9):276.

(63) Carrasco-Hernandez S, Gutierrez J, Tercjak A. PE-b-PEO block copolymer nanostructured thermosetting systems as template for TiO₂ nanoparticles. *Eur Polym J* 2017 SEP;94:87-98.

(64) Castellanos-Rubio I, Insausti M, de Muro IG, Arias-Duque DC, Hernandez-Garrido JC, Lezama L. Intra-particle chemical homogeneity determining the exchange coupling in palladium-iron nanoparticles. *J Appl Phys* 2017 FEB 28;121(8):084302.

(65) Castelo A, Mendioroz A, Celorio R, Salazar A. Optimizing the Inversion Protocol to Determine the Geometry of Vertical Cracks from Lock-in Vibrothermography. *J Nondestr Eval* 2017 MAR;36(1):3.

(66) Castelo A, Mendioroz A, Celorio R, Salazar A, Lopez de Uralde P, Gorosmendi I, et al. Characterizing open and non-uniform vertical heat sources: towards the identification of real



Universidad
del País Vasco

Euskal Herriko
Unibertsitatea

vertical cracks in vibrothermography experiments. *Thermosense: Thermal Infrared Applications* XXXIX 2017;10214:UNSP 102140L.

(67) Catanese G, Watteaux R, Montes I, Barra M, Rumolo P, Borme D, et al. Insights on the drivers of genetic divergence in the European anchovy. *Sci Rep* 2017 JUN 23;7:4180.

(68) Chimenti S, Manuel Vega J, Aguirre M, Garcia-Lecina E, Antonio Diez J, Grande H, et al. Effective incorporation of ZnO nanoparticles by miniemulsion polymerization in waterborne binders for steel corrosion protection. *Journal of Coatings Technology and Research* 2017 JUL;14(4):829-839.

(69) Chizhik A, Vega V, Mohamed AEA, Prida VM, Sanchez T, Hernando B, et al. Surface magnetic properties and giant magnetoimpedance effect in Co-based amorphous ribbons. *Intermetallics* 2017 JUL;86:15-19.

(70) Cipriani R, Carlos Chara J, Rodriguez-Antiguedad A, Matute C. Effects of FTY720 on brain neurogenic niches in vitro and after kainic acid-induced injury. *J Neuroinflammation* 2017 JUL 24;14:147.

(71) Cobos M, Gonzalez B, Jesus Fernandez M, Dolores Fernandez M. Chitosan-graphene oxide nanocomposites: Effect of graphene oxide nanosheets and glycerol plasticizer on thermal and mechanical properties. *J Appl Polym Sci* 2017 AUG 10;134(30):45092.

(72) Coletto I, de la Pena M, Rodriguez-Escalante J, Bejarano I, Glauser G, Aparicio-Tejo PM, et al. Leaves play a central role in the adaptation of nitrogen and sulfur metabolism to ammonium nutrition in oilseed rape (*Brassica napus*). *BMC Plant Biol* 2017 SEP 20;17:157.

(73) Cornu JY, Depernet C, Garnier C, Lenoble V, Braud A, Lebeau T. How do low doses of desferrioxamine B and EDTA affect the phytoextraction of metals in sunflower? *Sci Total Environ* 2017 AUG 15;592:535-545.

(74) Cortizo-Lacalle D, Pertegas A, Melle-Franco M, Bolink HJ, Mateo-Alonso A. Pyrene-fused bisphenazinothiadiazoles with red to NIR electroluminescence dagger. *Org Chem Front* 2017 MAY;4(5):876-881.

(75) Cristobal Lopez J, del Rio M, Oliden A, Banuelos J, Lopez-Arbeloa I, Garcia-Moreno I, et al. Solvent-Sensitive Emitting Urea-Bridged bis-BODIPYs: Ready Access by a One-Pot Tandem Staudinger/Aza-Wittig Ureation. *Chem -Eur J* 2017 DEC 11;23(69):17511-17520.

(76) de los Santos JM, Rubiales G, Es Sbai Z, Ochoa de Retana AM, Palacios F. Reaction of phosphinylated nitrosoalkenes with electron-rich heterocycles. Electrophilic aromatic substitution vs. cycloaddition. *Org Biomol Chem* 2017;15(3):662-671.

(77) De San Luis A, Bonnefond A, Barrado M, Guraya T, Iturrondobeitia M, Okariz A, et al. Toward the minimization of fluorescence loss in hybrid cross-linked core-shell PS/QD/PMMA nanoparticles: Effect of the shell thickness. *Chem Eng J* 2017 APR 1;313:261-269.

- (78) del Pozo S, Vera S, Oiarbide M, Palomo C. Catalytic Asymmetric Synthesis of Quaternary Barbituric Acids. *J Am Chem Soc* 2017 NOV 1;139(43):15308-15311.

(79) De-La-Cuesta J, Gonzalez E, Pomposo JA. Advances in Fluorescent Single-Chain Nanoparticles. *Molecules* 2017 NOV;22(11):1819.

(80) Deng T, Zhang W, Arcelus O, Kim J, Carrasco J, Yoo SJ, et al. Atomic-level energy storage mechanism of cobalt hydroxide electrode for pseudocapacitors. *Nat Commun* 2017 MAY 8;8:15194.

(81) Desroches M, Mayorga Burrezo P, Boismenu-Lavoie J, Pena Alvarez M, Gomes-Garcia CJ, Matxain JM, et al. Breaking Bonds and Forming Nanographene Diradicals with Pressure. *Angew Chem -Int Edit* 2017 DEC 18;56(51):16212-16217.

(82) Diaz de Cerio O, Bilbao E, Ruiz P, Pardo BG, Martinez P, Cajaraville MP, et al. Hepatic gene transcription profiles in turbot (*Scophthalmus maximus*) experimentally exposed to heavy fuel oil n degrees 6 and to styrene. *Mar Environ Res* 2017 FEB;123:14-24.

(83) Diaz E, Puerto I, Ribeiro S, Lanceros-Mendez S, Manuel Barandiaran J. The Influence of Copolymer Composition on PLGA/nHA Scaffolds' Cytotoxicity and In Vitro Degradation. *Nanomaterials* 2017 JUL;7(7):173.

(84) Doblas D, Moreno-Ramirez LM, Franco V, Conde A, Svalov AV, Kurlyandskaya GV. Nanostructuring as a procedure to control the field dependence of the magnetocaloric effect. *Mater Des* 2017 JAN 15;114:214-219.

(85) Echenique-Errandonea E, Oyarzabal I, Cepeda J, San Sebastian E, Rodriguez-Dieguez A, Seco JM. Photoluminescence and magnetic analysis of a family of lanthanide(III) complexes based on diclofenac. *New J Chem* 2017 JUL 7;41(13):5467-5475.

(86) Eguia-Barrio A, Castillo-Martinez E, Klein F, Pinedo R, Lezama L, Janek J, et al. Electrochemical performance of CuNCN for sodium ion batteries and comparison with ZnNCN and lithium ion batteries. *J Power Sources* 2017 NOV 1;367:130-137.

(87) Eguia-Barrio A, Castillo-Martinez E, Liu X, Dronskowski R, Lezama L, Armand M, et al. Advanced anode materials for sodium ion batteries: carbodiimides. *MRS Adv* 2017;2(21-22):1165-1176.

(88) El Doukkali M, Iriondo A, Miletic N, Cambra JF, Arias PL. Hydrothermal stability improvement of NiPt-containing gamma-Al₂O₃ catalysts tested in aqueous phase reforming of glycerol/water mixture for H₂ production. *Int J Hydrogen Energy* 2017 SEP 14;42(37):23617-23630.

(89) El Kammouni R, Chlenova AA, Volchkov SO, Kurlyandskaya GV. Magnetic properties and magnetoimpedance of FeCoNi/CuBe electroplated tubes with different features of field-annealing induced magnetic anisotropy. *J Magn Magn Mater* 2017 FEB 1;423:183-190.



Universidad
del País Vasco

Euskal Herriko
Unibertsitatea

- (90) Elorza J. Active weathering over the sandstones of the Arriluce Castaways House (Algorta, Bizkaia): determining factors. *Rev Soc Geol Esp* 2017 DEC;30(2):91-111.
- (91) Emaldi I, Hamzehlou S, Sanchez-Dolado J, Leiza JR. Kinetics of the Aqueous-Phase Copolymerization of MAA and PEGMA Macromonomer: Influence of Monomer Concentration and Side Chain Length of PEGMA. *Processes* 2017 JUN;5(2):19.
- (92) Encarnacion Blanco M, Gonzalez O, Elena Alboniga O, Luz Alonso M, Maria Alonso R. Metabolomic analysis for the study of maturation in pediatrics: Effect of confounding factors in a pilot study. *Electrophoresis* 2017 SEP;38(18):2323-2330.
- (93) Epelde E, Ibanez M, Valecillos J, Aguayo AT, Gayubo AG, Bilbao J, et al. SAPO-18 and SAPO-34 catalysts for propylene production from the oligomerization-cracking of ethylene or 1-butene. *Appl Catal A-Gen* 2017 OCT 25;547:176-182.
- (94) Epelde-Elezcano N, Prieto-Montero R, Martinez-Martinez V, Ortiz MJ, Prieto-Castaneda A, Pena-Cabrera E, et al. Adapting BODIPYs to singlet oxygen production on silica nanoparticles. *Phys Chem Chem Phys* 2017 JUN 7;19(21):13746-13755.
- (95) Errandonea-Martin J, Carracedo-Sanchez M, Sarria-Andia F, Santos Zalduegui JF, Garcia de Madinabeitia S, Gil-Ibarguchi JI. The late-Variscan peraluminous Valdepenas pluton (southern Central Iberian Zone). *Geol Acta* 2017 DEC;15(4):361-378.
- (96) Escribano B, Lozano A, Radivojevic T, Fernandez-Pendas M, Carrasco J, Akhmatskaya E. Enhancing sampling in atomistic simulations of solid-state materials for batteries: a focus on olivine. *Theor Chem Acc* 2017 MAR 7;136(4):43.
- (97) Etxabide A, Urdanilleta M, Gomez-Arriaran I, de la Caba K, Guerrero P. Effect of pH and lactose on cross-linking extension and structure of fish gelatin films. *React Funct Polym* 2017 AUG;117:140-146.
- (98) Etxabide A, Coma V, Guerrero P, Gardrat C, de la Caba K. Effect of cross-linking in surface properties and antioxidant activity of gelatin films incorporated with a curcumin derivative. *Food Hydrocoll* 2017 MAY;66:168-175.
- (99) Etxabide A, Vairo C, Santos-Vizcaino E, Guerrero P, Luis Pedraz J, Igartua M, et al. Ultra thin hydro-films based on lactose-crosslinked fish gelatin for wound healing applications. *Int J Pharm* 2017 SEP 15;530(1-2):455-467.
- (100) Etxebarria J, Sanz-Lazaro S, Hernaez-Moya R, Freire V, Duran JA, Morales M, et al. Serum from plasma rich in growth factors regenerates rabbit corneas by promoting cell proliferation, migration, differentiation, adhesion and limbal stemness. *Acta Ophthalmol* 2017 DEC;95(8):e693-e705.
- (101) Falagan C, Yusta I, Sanchez-Espana J, Johnson DB. Biologically-induced precipitation of aluminium in synthetic acid mine water. *Minerals Eng* 2017 MAY 15;106:79-85.

- (102) Farhadipour A, Eshghi H, Yousefi M, Artetxe B. Synthesis and Single Crystal Structure Description of Two New Polyoxometalate-Melamine Hybrids. *J Chem Cryst* 2017 OCT;47(5):140-150.

(103) Fernandez Garcia M, Gonzalez Sanchez J, Jaramillo Echeverria R, Moll M, Montero R, Moya D, et al. On the determination of the substrate effective doping concentration of irradiated HV-CMOS sensors using an edge-TCT technique based on the Two-Photon-Absorption process. *J Instrum* 2017 JAN;12:C01038.

(104) Fernandez Garcia M, Gonzalez Sanchez J, Jaramillo Echeverria R, Moll M, Montero Santos R, Moya D, et al. High-resolution three-dimensional imaging of a depleted CMOS sensor using an edge Transient Current Technique based on the Two Photon Absorption process (TPA-eTCT). *Nucl Instrum Methods Phys Res Sect A-Accel Spectrom Dect Assoc Equip* 2017 FEB 11;845:69-71.

(105) Fernandez Martinez R, Iturronobeitia M, Ibarretxe J, Guraya T. Methodology to classify the shape of reinforcement fillers: optimization, evaluation, comparison, and selection of models. *J Mater Sci* 2017 JAN;52(1):569-580.

(106) Fernandez J, Auzmendi O, Amestoy H, Diez-Torre A, Sarasua J. Mechanical properties and fatigue analysis on poly(epsilon-caprolactone)-polydopamine-coated nanofibers and poly(epsilon-caprolactone)-carbon nanotube composite scaffolds. *Eur Polym J* 2017 SEP;94:208-221.

(107) Fernandez MD, Fernandez MJ. Vermiculite/poly(lactic acid) composites: Effect of nature of vermiculite on hydrolytic degradation in alkaline medium. *Appl Clay Sci* 2017 JUL;143:29-38.

(108) Fernandez R, Gonzalez P, Lage S, Garate J, Maqueda A, Marcaida I, et al. Influence of the Cation Adducts in the Analysis of Matrix-Assisted Laser Desorption Ionization Imaging Mass Spectrometry Data from Injury Models of Rat Spinal Cord. *Anal Chem* 2017 AUG 15;89(16):8565-8573.

(109) Fernandez-Pastor B, Ortega JE, Grandoso L, Castro E, Ugedo L, Pazos A, et al. Chronic citalopram administration desensitizes prefrontal cortex but not somatodendritic alpha(2)-adrenoceptors in rat brain. *Neuropharmacology* 2017 MAR 1;114:114-122.

(110) Formoso E, Asua JM, Matxain JM, Ruiperez F. The role of non-covalent interactions in the self-healing mechanism of disulfide-based polymers. *Phys Chem Chem Phys* 2017 JUL 28;19(28):18461-18470.

(111) Formoso E, Lopez X. A computational study on interaction of aluminum with D-glucose 6-phosphate for various stoichiometries. *RSC Adv* 2017;7(10):6064-6079.



- (112) Fratila RM, Navasquez M, Idiago-Lopez J, Eceiza M, Miranda JI, Aizpurua JM, et al. Covalent immobilisation of magnetic nanoparticles on surfaces via strain-promoted azide-alkyne click chemistry. *New J Chem* 2017 OCT 7;41(19):10835-10840.

(113) Gabriela Capeluto M, Fernandez Salvador R, Eceiza A, Goyanes S, Adriana Ledesma S. Azopolymer film as an actuator for organizing multiwall carbon nanotubes. *Opt Mater* 2017 APR;66:247-252.

(114) Gallastegi-Villa M, Aranzabal A, Gonzalez-Marcos JA, Gonzalez-Velasco JR. Tailoring dual redox-acid functionalities in VO_x/TiO₂/ZSM5 catalyst for simultaneous abatement of PCDD/Fs and NO_x from municipal solid waste incineration. *Appl Catal B-Environ* 2017 MAY 15;205:310-318.

(115) Gallastegui G, Manrique de lara R, Elias A, Rojo N, Barona A. Black slag slag fixed bed for toluene, ethylbenzene and p-xylene (TEX) biodegradation and meiofauna development. *Int Biodeterior Biodegrad* 2017 APR;119:349-360.

(116) Gamarra D, Lopez-Oceja A, de Pancorbo MM. Genetic characterization and founder effect analysis of recently introduced Salers cattle breed population. *Animal* 2017 JAN;11(1):24-32.

(117) Gangoiti MV, Puertas AI, Hamet MF, Peruzzo PJ, Llamas MG, Medrano M, et al. Lactobacillus plantarum CIDCA 8327: An alpha-glucan producing-strain isolated from kefir grains. *Carbohydr Polym* 2017 AUG 15;170:52-59.

(118) Garcia-Arribas A, Combarro L, Goirienna-Goikoetxea M, Kurlyandskaya GV, Svalov AV, Fernandez E, et al. Thin-Film Magnetoimpedance Structures Onto Flexible Substrates as Deformation Sensors. *IEEE Trans Magn* 2017 APR;53(4):2000605.

(119) Garcia-Arribas A, Goirienna-Goikoetxea M, Fernandez E, Manuel Barandiaran J. Magnetoimpedance in Samples With Patterned Surfaces for the Detection of Magnetic Particles and Ferrofluids. *IEEE Trans Magn* 2017 NOV;53(11):4003106.

(120) Garcia-Fernandez C, Sierda E, Abadia M, Bugenhagen B, Prosenc MH, Wiesendanger R, et al. Exploring the Relation Between Intramolecular Conjugation and Band Dispersion in One-Dimensional Polymers. *J Phys Chem C* 2017 DEC 7;121(48):27118-27125.

(121) Garcia-Fernandez S, Gandarias I, Tejido-Nunez Y, Requies J, Arias PL. Influence of the Support of Bimetallic Platinum Tungstate Catalysts on 1,3-Propanediol Formation from Glycerol. *ChemCatChem* 2017 DEC 20;9(24):4508-4519.

(122) Garcia-Florentino C, Maguregui M, Morillas H, Marcaida I, Manuel Madariaga J. A fast in situ non-invasive approach to classify mortars from a construction of high historical value. *Microchem J* 2017 JUL;133:104-113.

- (123) Garcia-Montero A, Rodriguez AM, Juan A, Velders AH, Denisi A, Jimenez-Oses G, et al. Metal-Free [2+2]-Photocycloaddition of (Z)-4-Arylidene-5(4H)-Oxazolones as Straightforward Synthesis of 1,3-Diaminotrixillic Acid Precursors: Synthetic Scope and Mechanistic Studies. ACS Sustain Chem Eng 2017 SEP;5(9):8370-8381.

(124) Garcia-Orue I, Gainza G, Borja Gutierrez F, Javier Aguirre J, Evora C, Luis Pedraz J, et al. Novel nanofibrous dressings containing rhEGF and Aloe vera for wound healing applications. Int J Pharm 2017 MAY 25;523(2):556-566.

(125) Garcia-Valdivia AA, Seco JM, Cepeda J, Rodriguez-Dieguez A. Designing Single-Ion Magnets and Phosphorescent Materials with 1-Methylimidazole-5-carboxylate and Transition-Metal Ions. Inorg Chem 2017 NOV 20;56(22):13897-13912.

(126) Garcia-Velasco N, Pena-Cearra A, Bilbao E, Zaldivar B, Soto M. Integrative assessment of the effects produced by Ag nanoparticles at different levels of biological complexity in Eisenia fetida maintained in two standard soils (OECD and LUFA 2.3). Chemosphere 2017 AUG;181:747-758.

(127) Garmendia S, Mantione D, Alonso-de Castro S, Jehanno C, Lezama L, Hedrick JL, et al. Polyurethane based organic macromolecular contrast agents (PU-ORCAs) for magnetic resonance imaging. Polym Chem 2017 MAY 7;8(17):2693-2701.

(128) Garrido T, Etxabide A, de la Caba K, Guerrero P. Versatile soy protein films and hydrogels by the incorporation of beta-chitin from squid pens (*Loligo* sp.). Green Chem 2017 DEC 21;19(24):5923-5931.

(129) Gaskov M, Sepp H, Pani T, Paiste P, Kirsimae K. Barite mineralization in Kalana speleothems, Central Estonia: Sr, S and O isotope characterization. Est J Earth Sci 2017;66(3):130-141.

(130) Gaztanaga M, Angulo-Alcalde A, Spear NE, Gabriela Chotro M. The Role of Acetaldehyde in the Increased Acceptance of Ethanol after Prenatal Ethanol Exposure. Front Behav Neurosci 2017 JAN 31;11:14.

(131) Gea J, Carmen Sampedro M, Vallejo A, Polo-Diaz A, Goicolea MA, Fernandez-Eraso J, et al. Characterization of ancient lipids in prehistoric organic residues: Chemical evidence of livestock-pens in rock-shelters since early neolithic to bronze age. J Sep Sci 2017 DEC;40(23):4549-4562.

(132) Gil-Calvo M, Jimenez-Gonzalez C, de Rivas B, Gutierrez-Ortiz JI, Lopez-Fonseca R. Novel Nickel Aluminate-Derived Catalysts Supported on Ceria and Ceria Zirconia for Partial Oxidation of Methane. Ind Eng Chem Res 2017 MAY 31;56(21):6186-6197.

(133) Gil-Calvo M, Jimenez-Gonzalez C, de Rivas B, Ignacio Gutierrez-Ortiz J, Lopez-Fonseca R. Effect of Ni/Al molar ratio on the performance of substoichiometric NiAl₂O₄ spinel-based catalysts for partial oxidation of methane. Appl Catal B-Environ 2017 JUL 15;209:128-138.

- (134) Goikuria U, Larranaga A, Vilas JL, Lizundia E. Thermal stability increase in metallic nanoparticles-loaded cellulose nanocrystal nanocomposites. *Carbohydr Polym* 2017 SEP 1;171:193-201.

(135) Goirieta-Goikoetxea M, Gusienko KY, Rouco M, Orue I, Berganza E, Jaafar M, et al. Magnetization reversal in circular vortex dots of small radius. *Nanoscale* 2017 AUG 21;9(31):11269-11278.

(136) Goitia A, Gomez-Bengoa E, Correa A. Selective C(sp₂)-H Halogenation of "Click" 4-Aryl-1,2,3-triazoles. *Org Lett* 2017 FEB 17;19(4):962-965.

(137) Gomez-Cortes JF, No ML, Lopez-Ferreno I, Hernandez-Saz J, Molina SI, Chuvalin A, et al. Size effect and scaling power-law for superelasticity in shape-memory alloys at the nanoscale. *Nat Nanotechnol* 2017 AUG;12(8):790-+.

(138) Gomez-Fernandez S, Ugarte L, Calvo-Correas T, Pena-Rodriguez C, Angeles Corcuera M, Eceiza A. Properties of flexible polyurethane foams containing isocyanate functionalized kraft lignin. *Ind Crop Prod* 2017 JUN;100:51-64.

(139) Gomez-Nubla L, Aramendia J, Fdez-Ortiz de Vallejuelo S, Alonso-Olazabal A, Castro K, Cruz Zuluaga M, et al. Multispectroscopic methodology to study Libyan desert glass and its formation conditions. *Anal Bioanal Chem* 2017 MAY;409(14):3597-3610.

(140) Gomez-Santos L, Alonso E, Diaz-Flores L, Madrid JF, Saez FJ. Characterization by Lectin Histochemistry of Two Subpopulations of Parietal Cells in the Rat Gastric Glands. *J Histochem Cytochem* 2017 MAY;65(5):261-272.

(141) Goni A, Iturronobeitia A, Gil de Muro I, Lezama L, Rojo T. Na_{2.5}Fe_{1.75}(SO₄)₃/Ketjen/rGO: An advanced cathode composite for sodium ion batteries. *J Power Sources* 2017 NOV 30;369:95-102.

(142) Gonzalez de San Roman E, Manuel I, Giralt MT, Ferrer I, Rodriguez-Puertas R. Imaging mass spectrometry (IMS) of cortical lipids from preclinical to severe stages of Alzheimer's disease. *Biochim Biophys Acta-Biomembr* 2017 SEP;1859(9):1604-1614.

(143) Gonzalez J, Martinez R, Fernandez JA, Millan J. Conformational landscape of isolated capped amino acids: on the nature of non-covalent interactions. *Eur Phys J D* 2017 AUG;71(8):203.

(144) Gonzalez J, Usabiaga I, Arnaiz PF, Leon I, Martinez R, Millan J, et al. Competition between stacked and hydrogen bonded structures of cytosine aggregates. *Phys Chem Chem Phys* 2017 APR 7;19(13):8826-8834.

(145) Gonzalez K, Martin L, Gonzalez A, Retegi A, Eceiza A, Gabilondo N. D-isosorbide and 1,3-propanediol as plasticizers for starch-based films: Characterization and aging study. *J Appl Polym Sci* 2017 MAY;134(20):44793.

- (146) Gonzalez-Bullon D, Uribe KB, Martin C, Ostolaza H. Phospholipase A activity of adenylate cyclase toxin mediates translocation of its adenylate cyclase domain. *Proc Natl Acad Sci U S A* 2017 AUG 15;114(33):E6784-E6793.

(147) Gonzalez-Legarreta L, Prida VM, Talaat A, Ipatov M, Zhukova V, Zhukov A, et al. Tailoring of Soft Magnetic Properties and High Frequency Giant Magnetoimpedance in Amorphous Ribbons. *High Performance Soft Magnetic Materials* 2017;252:33-52.

(148) Gonzalez-Pujana A, Rementeria A, Javier Blanco F, Igartua M, Luis Pedraz J, Santos-Vizcaino E, et al. The role of osmolarity adjusting agents in the regulation of encapsulated cell behavior to provide a safer and more predictable delivery of therapeutics. *Drug Deliv* 2017 OCT 27;24(1):1654-1666.

(149) Grabowski SJ. Triel bonds-complexes of boron and aluminum trihalides and trihydrides with benzene. *Struct Chem* 2017 AUG;28(4):1163-1171.

(150) Grabowski SJ. Lewis Acid Properties of Tetrel Tetrafluorides-The Coincidence of the sigma-Hole Concept with the QTAIM Approach. *Crystals* 2017 FEB;7(2):43.

(151) Grabowski SJ. New Type of Halogen Bond: Multivalent Halogen Interacting with - and sigma-Electrons. *Molecules* 2017 DEC;22(12):2150.

(152) Grabowski SJ. Hydrogen bonds, and sigma-hole and pi-hole bonds - mechanisms protecting doublet and octet electron structures. *Phys Chem Chem Phys* 2017 NOV 28;19(44):29742-29759.

(153) Grabowski SJ. Tetrel bonds, penta- and hexa-coordinated tin and lead centres. *Appl Organomet Chem* 2017 OCT;31(10):e3727.

(154) Grabowski SJ, Ruiperez F. H⁺ Hydrogen Bonds and Their Lithium and Gold Analogues: MP2 and CASPT2 Calculations. *ChemPhysChem* 2017 SEP 6;18(17):2409-2417.

(155) Grabowski SJ, Sokalski WA. Are Various sigma-Hole Bonds Steered by the Same Mechanisms? *ChemPhysChem* 2017 JUN 20;18(12):1569-1577.

(156) Grande-Aztatzi R, Mercero JM, Matito E, Frenking G, Ugalde JM. The aromaticity of dicupra[10]annulenes. *Phys Chem Chem Phys* 2017 APR 14;19(14):9669-9675.

(157) Grande-Aztatzi R, Mercero JM, Matito E, Frenking G, Ugalde JM. The aromaticity of dicupra[10]annulenes (vol 19, pg 9669, 2017). *Phys Chem Chem Phys* 2017 MAY 7;19(17):10951-10951.

(158) Guaresti O, Garcia-Astrain C, Palomares T, Alonso-Varona A, Eceiza A, Gabilondo N. Synthesis and characterization of a biocompatible chitosan-based hydrogel cross-linked via 'click' chemistry for controlled drug release. *Int J Biol Macromol* 2017 SEP;102:1-9.



Universidad
del País Vasco

Euskal Herriko
Unibertsitatea

- (159) Gude I, Angel Ortega L, Cruz Zuluaga M, Alonso-Olazabal A, Murelaga X, Pina M, et al. Isotope analyses to explore diet and mobility in a medieval Muslim population at Tauste (NE Spain). *PLoS One* 2017 MAY 4;12(5):e0176572.
- (160) Gude I, Zuluaga MC, Ortega LA, Alonso-Olazabal A, Murelaga X, Pina M, et al. Analyses of human dentine and tooth enamel by laser ablation-inductively coupled plasma-mass spectrometry (LA-ICP-MS) to study the diet of medieval Muslim individuals from Tauste (Spain). *Microchem J* 2017 JAN;130:287-294.
- (161) Gutierrez J, Gutierrez Muto AM, Pena A, San Sebastian M, Catarina Lopes A, Lezama L, et al. Synthesis, physical and microwave absorption properties of Barium ferrite - P(VDF-TrFE) nanocomposites. 6th International Conference on Materials and Applications for Sensors and Transducers, (Ic-Mast 2016) 2017;939:UNSP 012022.
- (162) Gutierrez J, Lasheras A, Martins P, Pereira N, Barandiaran JM, Lanceros-Mendez S. Metallic Glass/PVDF Magnetoelectric Laminates for Resonant Sensors and Actuators: A Review. *Sensors* 2017 JUN;17(6):1251.
- (163) Gutierrez J, Carrasco-Hernandez S, Barud HS, Oliveira RL, Carvalho RA, Amaral AC, et al. Transparent nanostructured cellulose acetate films based on the self assembly of PEO-b-PPO-b-PEO block copolymer. *Carbohydr Polym* 2017 JUN 1;165:437-443.
- (164) Gutierrez-Climente R, Gomez-Caballero A, Guerreiro A, Garcia-Mutio D, Unceta N, Aranzazu Goicolea M, et al. Molecularly imprinted nanoparticles grafted to porous silica as chiral selectors in liquid chromatography. *J Chromatogr A* 2017 JUL 28;1508:53-64.
- (165) Guzzo PL, Barreto SB, Miranda MR, Gonzaga RSG, Casals SA. Gamma-rays and heat-treatment conversions of point defects in massive rose quartz from the Borborema Pegmatite Province, Northeast Brazil. *Phys Chem Miner* 2017 NOV;44(10):701-715.
- (166) Hamzehlou S, Aguirre M, Leiza JR, Asua JM. Dynamics of the Particle Morphology during the Synthesis. *Macromolecules* 2017 SEP 26;50(18):7190-7201.
- (167) Heidenreich A, Gruener B, Schomas D, Stienkemeier F, Krishnan SR, Mudrich M. Charging dynamics of dopants in helium nanoplasmas. *J Mod Opt* 2017;64(10-11):1061-1077.
- (168) Heidenreich A, Schomas D, Mudrich M. Dopant-induced ignition of helium nanoplasmas-a mechanistic study. *J Phys B-At Mol Opt Phys* 2017 DEC 28;50(24):244001.
- (169) Hemery G, Keyes AC, Jr., Garaio E, Rodrigo I, Angel Garcia J, La FP, et al. Tuning Sizes, Morphologies, and Magnetic Properties of Monocore Versus Multicore Iron Oxide Nanoparticles through the Controlled Addition of Water in the Polyol Synthesis. *Inorg Chem* 2017 JUL 17;56(14):8232-8243.

- (170) Hernandez-Unzueta I, Benedicto A, Olaso E, Sanz E, Viera C, Arteta B, et al. Ocoxin oral solution (R) as a complement to irinotecan chemotherapy in the metastatic progression of colorectal cancer to the liver. *Oncol Lett* 2017 JUN;13(6):4002-4012.

(171) Herrero-Mendez A, Palomares T, Castro B, Herrero J, Granado MH, Bejar JM, et al. HR007: a family of biomaterials based on glycosaminoglycans for tissue repair. *J Tissue Eng Regen Med* 2017 APR;11(4):989-1001.

(172) Hindenberg P, Lopez-Andarias A, Rominger F, de Cozar A, Romero-Nieto C. A Guide for the Design of Functional Polyaromatic Organophosphorus Materials. *Chem -Eur J* 2017 OCT 9;23(56):13919-13928.

(173) Ibanez M, Epelde E, Aguayo AT, Gayubo AG, Bilbao J, Castano P. Selective dealumination of HZSM-5 zeolite boosts propylene by modifying 1-butene cracking pathway. *Appl Catal A-Gen* 2017 AUG 5;543:1-9.

(174) Ibarrodo I, Martinez-Arkarazo I, Madariaga JM. Biominerization in saxicolous lichens: Raman spectroscopic study supported with XRF and SEM-EDX analyses. *J Raman Spectrosc* 2017 FEB;48(2):161-169.

(175) Ipatov M, Zhukova V, Zhukov A, Gonzalez J, Ipatov M, Zhukova V, et al. Current Controlled Magnetic Memory Based on Hysteretic Switching of Impedance in Conductor with Inclined Anisotropy Easy Axis. Proceedings of the 2017 IEEE 7th International Conference Nanomaterials: Application & Properties (Nap) 2017:UNSP 02MFPM01.

(176) Iregui A, Irusta L, Llorente O, Martin L, Calvo-Correas T, Eceiza A, et al. Electrospinning of cationically polymerized epoxy/polycaprolactone blends to obtain shape memory fibers (SMF). *Eur Polym J* 2017 SEP;94:376-383.

(177) Iriarte I, Olaizola O, Vera S, Gamboa I, Oiarbide M, Palomo C. Controlling the alpha/gamma-Reactivity of Vinyllogous Ketone Enolates in Organocatalytic Enantioselective Michael Reactions. *Angew Chem -Int Edit* 2017 JUL 17;56(30):8860-8864.

(178) Irusta L, Jose Fernandez-Berridi M, Aizpurua J. Polyurethanes based on isophorone diisocyanate trimer and polypropylene glycol crosslinked by thermal reversible diels alder reactions. *J Appl Polym Sci* 2017 MAR 5;134(9):44543.

(179) Iturrondobeitia A, Goni A, Gil de Muro I, Lezama L, Rojo T. Physico-Chemical and Electrochemical Properties of Nanoparticulate NiO/C Composites for High Performance Lithium and Sodium Ion Battery Anodes. *Nanomaterials* 2017 DEC;7(12):423.

(180) Izquierdo U, Garcia-Garcia I, Barrio VL, Cambra JF. Hydrogen Production with a Microchannel Reactor by Tri-Reforming; Reaction System Comparison and Catalyst Development. *Top Catal* 2017 SEP;60(15-16):1210-1225.

- (181) Izquierdo U, Neuberg S, Pecov S, Pennemann H, Zapf R, Wichert M, et al. Hydrogen production with a microchannel heat-exchanger reactor by single stage water-gas shift; catalyst development. *Chem Eng J* 2017 APR 1;313:1494-1508.

(182) Jiang L, Benito-Vicente A, Tang L, Etxebarria A, Cui W, Uribe KB, et al. Analysis of LDLR variants from homozygous FH patients carrying multiple mutations in the LDLR gene. *Atherosclerosis* 2017 AUG;263:163-170.

(183) Jimbert P, Iturronobeitia M, Ibarretxe J, Fernandez-Martinez R. Carbide Distribution Based on Automatic Image Analysis for Cryogenically Treated Tool Steels. *Mater Tehnol* 2017 JUL-AUG;51(4):609-611.

(184) Jimeno-Romero A, Bilbao E, Izagirre U, Cajaraville MP, Marigomez I, Soto M. Digestive cell lysosomes as main targets for Ag accumulation and toxicity in marine mussels, *Mytilus galloprovincialis*, exposed to maltose-stabilised Ag nanoparticles of different sizes. *Nanotoxicology* 2017 MAR;11(2):168-183.

(185) Katcho NA, Carrasco J, Saurel D, Gonzalo E, Han M, Aguesse F, et al. Origins of Bistability and Na Ion Mobility Difference in P2-and O3-Na₂/3Fe₂/3Mn₁/3O₂ Cathode Polymorphs. *Adv Energy Mater* 2017 JAN;7(1):1601477.

(186) Kiill CP, Barud HdS, Santagneli SH, Lima Ribeiro SJ, Silva AM, Tercjak A, et al. Synthesis and factorial design applied to a novel chitosan/sodium polyphosphate nanoparticles via ionotropic gelation as an RGD delivery system. *Carbohydr Polym* 2017 FEB 10;157:1695-1702.

(187) Kumar R, Krieger J, Gomez-Bengoa E, Fox T, Linden A, Nevado C. The First Gold(III) Formate: Evidence for beta-Hydride Elimination. *Angew Chem -Int Edit* 2017 OCT 9;56(42):12862-12865.

(188) Kurlyandskaya GV, El Kammouni R, Volchkov SO, Shcherbinin SV, Larranaga A. Magnetoimpedance Sensitive Elements Based on CuBe/FeCoNi Electroplated Wires in Single and Double Wire Configurations. *IEEE Trans Magn* 2017 APR;53(4):2000415.

(189) Kurlyandskaya GV, Fernandez E, Safronov AP, Blyakhman FA, Svalov AV, Burgoa Beitia A, et al. Magnetoimpedance biosensor prototype for ferrogel detection. *J Magn Magn Mater* 2017 NOV 1;441:650-655.

(190) Kurlyandskaya GV, Novoselova IP, Schupletsova VV, Andrade R, Dunec NA, Litvinova LS, et al. Nanoparticles for magnetic biosensing systems. *J Magn Magn Mater* 2017 JUN 1;431:249-254.

(191) Kurlyandskaya GV, Litvinova LS, Safronov AP, Schupletsova VV, Tyukova IS, Khaziakhmatova OG, et al. Water-Based Suspensions of Iron Oxide Nanoparticles with Electrostatic or Steric Stabilization by Chitosan: Fabrication, Characterization and Biocompatibility. *Sensors* 2017 NOV;17(11):2605.

- (192) Kurlyandskaya GV, Portnov DS, Beketov IV, Larranaga A, Safronov AP, Orue I, et al. Nanostructured materials for magnetic biosensing. *Biochim Biophys Acta-Gen Subj* 2017 JUN;1861(6):1494-1506.

(193) Labaka A, Gomez-Lazar E, Vegas O, Perez-Tejada J, Arregi A, Garmendia L. Reduced hippocampal IL-10 expression, altered monoaminergic activity and anxiety and depressive-like behavior in female mice subjected to chronic social instability stress. *Behav Brain Res* 2017 SEP 29;335:8-18.

(194) Landa-Medrano I, Sorrentino A, Stievano L, Ruiz de Larramendi I, Pereiro E, Lezama L, et al. Architecture of Na-O-2 battery deposits revealed by transmission X-ray microscopy. *Nano Energy* 2017 JUL;37:224-231.

(195) Larranaga O, de Cozar A, Cossio FP. Mono- and Di-Alkylation Processes of DNA Bases by Nitrogen Mustard Mechlorethamine. *ChemPhysChem* 2017 DEC 6;18(23):3390-3401.

(196) Larranaga O, Romero-Nieto C, de Cozar A. Intramolecular SEAr Reactions of Phosphorus Compounds: Computational Approach to the Synthesis of -Extended Heterocycles. *Chem -Eur J* 2017 DEC 11;23(69):17487-17496.

(197) Lazpita P, Barandiaran JM, Gutierrez J, Mondelli C, Sozinov A, Chernenko VA. Polarized Neutron Study of Ni-Mn-Ga Alloys: Site-Specific Spin Density Affected by Martensitic Transformation. *Phys Rev Lett* 2017 OCT 12;119(15):155701.

(198) Leret S, Pouillon Y, Casado S, Navio C, Rubio A, Perez EM. Bimodal supramolecular functionalization of carbon nanotubes triggered by covalent bond formation. *Chem Sci* 2017;8(3):1927-1935.

(199) Lizundia E, Maceiras A, Vilas JL, Martins P, Lanceros-Mendez S. Magnetic cellulose nanocrystal nanocomposites for the development of green functional materials. *Carbohydr Polym* 2017 NOV 1;175:425-432.

(200) Lizundia E, Luis Vilas J, Sangroniz A, Eticeberria A. Light and gas barrier properties of PLLA/metallic nanoparticles composite films. *Eur Polym J* 2017 JUN;91:10-20.

(201) Lizundia E, Makwana VA, Larranaga A, Luis Vilas J, Shaver MP. Thermal, structural and degradation properties of an aromatic-aliphatic polyester built through ring-opening polymerisation. *Polym Chem* 2017 JUN 14;8(22):3530-3538.

(202) Lizundia E, Mateos P, Luis Vilas J. Tuneable hydrolytic degradation of poly(L-lactide) scaffolds triggered by ZnO nanoparticles. *Mater Sci Eng C-Mater Biol Appl* 2017 JUN 1;75:714-720.

(203) Lizundia E, Saenz-Perez M, Patrocinio D, Aurrekoetxea I, Vivanco Md, Luis Vilas J. Nanopatterned polystyrene-b-poly(acrylic acid) surfaces to modulate cell-material interaction. *Mater Sci Eng C-Mater Biol Appl* 2017 JUN 1;75:229-236.

- (204) Lizundia E, Serna I, Axpe E, Luis Vilas J. Free-volume effects on the thermomechanical performance of epoxy-SiO₂ nanocomposites. *J Appl Polym Sci* 2017 SEP 10;134(34):45216.

(205) Llorens Gonzalez T, Garcia Polonio F, Lopez Moro FJ, Fernandez Fernandez A, Sanz Contreras JL, Moro Benito MC. Tin-tantalum-niobium mineralization in the Penouta deposit (NW Spain): Textural features and mineral chemistry to unravel the genesis and evolution of cassiterite and columbite group minerals in a peraluminous system. *Ore Geol Rev* 2017 MAR;81:79-95.

(206) Llorente-Ovejero A, Manuel I, Giralt MT, Rodriguez-Puertas R. Increase in Cortical Endocannabinoid Signaling in a Rat Model of Basal Forebrain Cholinergic Dysfunction. *Neuroscience* 2017 OCT 24;362:206-218.

(207) Lopez AB, de la Cal JC, Asua JM. From fractal polymer dispersions to mechanically resistant waterborne superhydrophobic coatings. *Polymer* 2017 AUG 25;124:12-19.

(208) Lopez-Carballeira D, Casanova D, Ruiperez F. Theoretical design of conjugated diradicaloids as singlet fission sensitizers: quinones and methylene derivatives. *Phys Chem Chem Phys* 2017 NOV 28;19(44):30227-30238.

(209) Lopez-Carballeira D, Ruiperez F. Singlet open-shell diradical nature and redox properties of conjugated carbonyls: a quantum chemical study. *Theor Chem Acc* 2017 FEB 17;136(3):32.

(210) Lopez-Oceja A, Gamarra D, Cardoso S, Palencia-Madrid L, Juste RA, De Pancorbo MM. Two ovine mitochondrial DNAs harboring a fifth 75/76 bp repeat motif without altered gene expression in Northern Spain. *Electrophoresis* 2017 MAR;38(6):869-875.

(211) Lopez-Oceja A, Nunez C, Baeta M, Gamarra D, de Pancorbo MM. Species identification in meat products: A new screening method based on high resolution melting analysis of cyt b gene. *Food Chem* 2017 DEC 15;237:701-706.

(212) Lotfollahi Z, Garcia-Arribas A, Amirabadizadeh A, Orue I, Kurlyandskaya GV. Comparative study of magnetic and magnetoimpedance properties of CoFeSiB-based amorphous ribbons of the same geometry with Mo or W additions. *J Alloys Compounds* 2017 FEB 5;693:767-776.

(213) Lotfollahi Z, Amirabadizadeh A, Safronov AP, Beketov IV, Kurlyandskaya GV. Magnetoimpedance Effect in CoFeMoSiB As-Quenched and Surface Modified Amorphous Ribbons in the Presence of Igon Oxide Nanoparticles of Water-Based Ferrofluid. *J Sens* 2017:4365682.

(214) Luis ADS, Paulis M, Leiza JR. Co-encapsulation of CdSe/ZnS and CeO₂ nanoparticles in waterborne polymer dispersions: enhancement of fluorescence emission under sunlight. *Soft Matter* 2017 NOV 28;13(44):8039-8047.

- (215) Luo Y, Qin FX, Scarpa F, Carbonell J, Ipatov M, Zhukova V, et al. Left-handed metacomposites containing carbon fibers and ferromagnetic microwires. *AIP Adv* 2017 MAY;7(5):056110.

(216) Manteca A, Schonfelder J, Alonso-Caballero A, Fertin MJ, Barruetabena N, Faria BF, et al. Mechanochemical evolution of the giant muscle protein titin as inferred from resurrected proteins. *Nat Struct Mol Biol* 2017 AUG;24(8):652-+.

(217) Mantione D, Casado N, Sanchez-Sanchez A, Sardon H, Mecerreyes D. Easy-to-Make Carboxylic Acid Dioxythiophene Monomer (ProDOT-COOH) and Functional Conductive Polymers. *J Polym Sci Pol Chem* 2017 SEP 1;55(17):2721-2724.

(218) Mantione D, del Agua I, Schaafsma W, ElMahmoudy M, Uguz I, Sanchez-Sanchez A, et al. Low-Temperature Cross-Linking of PEDOT:PSS Films Using Divinylsulfone. *ACS Appl Mater Interfaces* 2017 MAY 31;9(21):18254-18262.

(219) Marcano L, Garcia-Prieto A, Munoz D, Fernandez Barquin L, Orue I, Alonso J, et al. Influence of the bacterial growth phase on the magnetic properties of magnetosomes synthesized by *Magnetospirillum gryphiswaldense*. *Biochim Biophys Acta-Gen Subj* 2017 JUN;1861(6):1507-1514.

(220) Maria Lacave J, Fanjul A, Bilbao E, Gutierrez N, Barrio I, Arostegui I, et al. Acute toxicity, bioaccumulation and effects of dietary transfer of silver from brine shrimp exposed to PVP/PEI-coated silver nanoparticles to zebrafish. *Comp Biochem Physiol C-Toxicol Pharmacol* 2017 SEP;199:69-80.

(221) Marquez IR, Fuentes N, Cruz CM, Puente-Munoz V, Sotorrios L, Luisa Marcos M, et al. Versatile synthesis and enlargement of functionalized distorted heptagon-containing nanographenes. *Chem Sci* 2017;8(2):1068-1074.

(222) Marset X, Khoshnood A, Sotorrios L, Gomez-Bengoa E, Alonso DA, Ramon DJ. Deep Eutectic Solvent Compatible Metallic Catalysts: Cationic Pyridiniophosphine Ligands in Palladium Catalyzed Cross-Coupling Reactions. *ChemCatChem* 2017 APR 7;9(7):1269-1275.

(223) Martin L, Irusta L, Gonzalez A, Tercjak A, Kortaberria G. Nanostructured polymer blends based on polystyrene-b-polybutadiene-b-poly(methyl methacrylate) triblock copolymers modified with polystyrene and/or poly(methyl methacrylate) homopolymers. *Polym Int* 2017 JUL;66(7):1031-1036.

(224) Martin-Caballero J, Artetxe B, Reinoso S, San Felices L, Castillo O, Beobide G, et al. Thermally-Triggered Crystal Dynamics and Permanent Porosity in the First Heptatungstate-Metalorganic Three-Dimensional Hybrid Framework. *Chem -Eur J* 2017 OCT 20;23(59):14962-14974.

- (225) Martinez-Abadia M, Antonicelli G, Zuccatti E, Atxabal A, Melle-Franco M, Hueso LE, et al. Synthesis and Properties of a Twisted and Stable Tetracyano-Substituted Tetrabenzohexacene. *Org Lett* 2017 APR 7;19(7):1718-1721.

(226) Martinez-Abadia M, Varghese S, Romero P, Gierschner J, Gimenez R, Ros MB. Highly Light-Sensitive Luminescent Cyanostilbene Flexible Dimers. *Adv Opt Mater* 2017 FEB;5(4):UNSP 1600860.

(227) Martinez-Braceras N, Payros A, Miniati F, Arostegi J, Franceschetti G. Contrasting environmental effects of astronomically driven climate change on three Eocene hemipelagic successions from the Basque-Cantabrian Basin. *Sedimentology* 2017 JUN;64(4):960-986.

(228) Martinez-Filgueira P, Fernandez-Gamiz U, Zulueta E, Errasti I, Fernandez-Gauna B. Parametric study of low-profile vortex generators. *Int J Hydrogen Energy* 2017 JUL 13;42(28):17700-17712.

(229) Martinez-Gardeazabal J, Gonzalez de San Roman E, Moreno-Rodriguez M, Llorente-Ovejero A, Manuel I, Rodriguez-Puertas R. Lipid mapping of the rat brain for models of disease. *Biochim Biophys Acta-Biomembr* 2017 SEP;1859(9):1548-1557.

(230) Mashal M, Attia N, Puras G, Martinez-Navarrete G, Fernandez E, Luis Pedraz J. Retinal gene delivery enhancement by lycopene incorporation into cationic niosomes based on DOTMA and polysorbate 60. *J Controlled Release* 2017 MAY 28;254:55-64.

(231) Matallana A, Andreu J, Garate JI, de Alegria IM, Kortabarria I. Analysis of impedance and current distributions in parallel IGBT design. 2017 IEEE 26th International Symposium on Industrial Electronics (ISIE) 2017:616-621.

(232) Maxinová E, Arrizabalaga-Escudero A, Arriolabengoa M, Aloria K, Zaldibar B, Boldogh S, et al. Faeces of *rhinolophus euryale* (Chiroptera) from the winter season contain inorganic matter. *Hystrix* 2017;28(1).

(233) Meabe L, Lago N, Rubatat L, Li C, Mueller AJ, Sardon H, et al. Polycondensation as a Versatile Synthetic Route to Aliphatic Polycarbonates for Solid Polymer Electrolytes. *Electrochim Acta* 2017 MAY 20;237:259-266.

(234) Meabe L, Sardon H, Mecerreyes D. Hydrolytically degradable poly(ethylene glycol)-based polycarbonates by organocatalyzed condensation. *Eur Polym J* 2017 OCT;95:737-745.

(235) Meconi GM, Ballard N, Asua JM, Zangi R. Shedding light on the different behavior of ionic and nonionic surfactants in emulsion polymerization: from atomistic simulations to experimental observations. *Phys Chem Chem Phys* 2017 DEC 21;19(47):31692-31705.

(236) Mehravar E, Iturrospe A, Arbe A, Leiza JR, Asua JM. Acrylic-based composite latexes containing nano-sized liquid crystalline domains. *Polymer* 2017 JAN 13;108:288-300.

- (237) Mehravar E, Leswin J, Reck B, Leiza JR, Asua JM. Waterborne paints containing nano-sized crystalline domains formed by comb-like polymers. *Prog Org Coat* 2017 MAY;106:11-19.

(238) Mendez-Fernandez L, Martinez-Madrid M, Pardo I, Rodriguez P. Baseline tissue concentrations of metal in aquatic oligochaetes: Field and laboratory approaches. *Environ Pollut* 2017 APR;223:636-643.

(239) Meri-Bofi L, Royuela S, Zamora F, Luisa Ruiz-Gonzalez M, Segura JL, Munoz-Olivas R, et al. Thiol grafted imine-based covalent organic frameworks for water remediation through selective removal of Hg(II). *J Mater Chem A* 2017 SEP 14;5(34):17973-17981.

(240) Mino J, Ipatov M, Gamcova J, Saksl K, Durisin M, Zhukova V, et al. Magnetic Characterization of Melt-Spun Co-Ni-Ga Ferromagnetic Superelastic Alloy. *Acta Phys Pol A* 2017 APR;131(4):1075-1077.

(241) Mitxelena I, Piris M. Analytic gradients for natural orbital functional theory. *J Chem Phys* 2017 JAN 7;146(1):014102.

(242) Monasterio N, Ledesma JL, Aranguiz I, Garcia-Romero A, Zuza E. Analysis of electrodeposition processes to obtain calcium phosphate layer on AZ31 alloy. *Surf Coat Technol* 2017 JUN 15;319:12-22.

(243) Mondragon G, Pena-Rodriguez C, Eceiza A, Arbelaitz A. Physico-Chemical and Morphological Characterization of Cellulosic Samples Obtained from Sisal Fibers. *J Renew Mater* 2017 OCT;5(5):345-356.

(244) Monroy S, Martinez A, Lopez-Rojo N, Victoria Perez-Calpe A, Basaguren A, Pozo J. Structural and functional recovery of macroinvertebrate communities and leaf litter decomposition after a marked drought: Does vegetation type matter? *Sci Total Environ* 2017 DEC 1;599:1241-1250.

(245) Montanchez I, Chao Kaberdina A, Sevillano E, Gallego L, Rodriguez-Couto S, Kaberdin VR. Isolation of *Pseudomonas fluorescens* species highly resistant to pentachlorobenzene. *Folia Microbiol (Praha)* 2017 JUL;62(4):325-334.

(246) Montero P, Talavera C, Bea F. Geochemical, isotopic, and zircon (U-Pb, O, Hf isotopes) evidence for the magmatic sources of the volcano-plutonic Ollo de Sapo Formation, Central Iberia. *Geol Acta* 2017 DEC;15(4):245-+.

(247) Montes I, Laconcha U, Iriondo M, Manzano C, Arrizabalaga H, Estonba A. Reduced Single Nucleotide Polymorphism Panels for Assigning Atlantic Albacore and Bay of Biscay Anchovy Individuals to Their Geographic Origin: Toward Sustainable Fishery Management. *J Agric Food Chem* 2017 MAY 31;65(21):4351-4358.

- (248) Monteserín C, Blanco M, Aranzabe E, Aranzabe A, Laza JM, Larranaga-Varga A, et al. Effects of Graphene Oxide and Chemically-Reduced Graphene Oxide on the Dynamic Mechanical Properties of Epoxy Amine Composites. *Polymers* 2017 SEP;9(9):449.

(249) Mugica I, Fito C, Domat M, Dohanyosova P, Gutierrez-Canas C, Lopez-Vidal S. Novel techniques for detection and characterization of nano materials based on aerosol science supporting environmental applications. *Sci Total Environ* 2017 DEC 31;609:348-359.

(250) Mujika JI, Lopez X. Unveiling the Catalytic Role of B-Block Histidine in the N-S Acyl Shift Step of Protein Splicing. *J Phys Chem B* 2017 AUG 24;121(33):7786-7796.

(251) Mujika JI, Rodriguez-Guerra Pedregal J, Lopez X, Ugalde JM, Rodriguez-Santiago L, Sodupe M, et al. Elucidating the 3D structures of Al(III)-A beta complexes: a template free strategy based on the pre-organization hypothesis. *Chem Sci* 2017 JUL;8(7):5041-5049.

(252) Munshi R, Qadri SM, Zhang Q, Rubio IC, del Pino P, Pralle A. Magnetothermal genetic deep brain stimulation of motor behaviors in awake, freely moving mice. *eLife* 2017 AUG 15;6:e27069.

(253) Murillo-Barroso M, Martinon-Torres M, Camalich Massieu MD, Martin Socas D, Molina Gonzalez F. Early metallurgy in SE Iberia. The workshop of Las Pilas (Mojacar, Almeria, Spain). *Archaeol Anthropol Sci* 2017 OCT;9(7):1539-1569.

(254) Navas D, Soriano N, Beron F, Sousa CT, Pirota KR, Torrejon J, et al. Microscopic reversal magnetization mechanisms in CoCrPt thin films with perpendicular magnetic anisotropy: Fractal structure versus labyrinth stripe domains. *Phys Rev B* 2017 NOV 7;96(18):180403.

(255) Newport R, Hollis C, Bodin S, Redfern J. Examining the interplay of climate and low amplitude sea-level change on the distribution and volume of massive dolomitization: Zebbag Formation, Cretaceous, Southern Tunisia. *Depos Rec* 2017 JUN;3(1):38-59.

(256) Nunez C, Baeta M, Ibarbia N, Ortueda U, Jimenez-Moreno S, Luis Blazquez-Caeiro J, et al. 17 to 23: A novel complementary mini Y-STR panel to extend the Y-STR databases from 17 to 23 markers for forensic purposes. *Electrophoresis* 2017 APR;38(7):1016-1021.

(257) Obregon I, Gandarias I, Ocio A, Garcia-Garcia I, de Eulate NA, Arias PL. Structure-activity relationships of Ni-Cu/Al₂O₃ catalysts for gamma-valerolactone conversion to 2-methyltetrahydrofuran. *Appl Catal B-Environ* 2017 AUG 5;210:328-341.

(258) Ochoa A, Aramburu B, Valle B, Resasco DE, Bilbao J, Gayubo AG, et al. Role of oxygenates and effect of operating conditions in the deactivation of a Ni supported catalyst during the steam reforming of bio-oil. *Green Chem* 2017 SEP 21;19(18):4315-4333.

(259) Odriozola A, Oiarbide M, Palomo C. Enantioselective Synthesis of Quaternary Delta(4)- and Delta(5)-Dehydroprolines Based on a Two-Step Formal [3+2] Cycloaddition of alpha-Aryl

and alpha-Alkyl Isocyano(thio)acetates with Vinyl Ketones. Chem -Eur J 2017 SEP 18;23(52):12758-12762.

- (260) Oleaga A, Liubachko V, Manfrinetti P, Provino A, Vysochanskii Y, Salazar A. Critical behavior study of NdScSi, NdScGe intermetallic compounds. *J Alloys Compounds* 2017 NOV 5;723:559-566.

(261) Oleaga A, Shvalya V, Liubachko V, Balakrishnan G, Tung LD, Salazar A. Critical behavior study of the spin ordering transition in RVO₃ (R = Ce, Pr, Nd, Sm, Gd, Er) by means of ac photopyroelectric calorimetry. *J Alloys Compounds* 2017 MAY 5;703:210-215.

(262) Oleaga A, Shvalya V, Salazar A, Stoika I, Vysochanskii YM. In search of a tricritical Lifshitz point in Sn₂P₂(S_{1-x}S_x)₆ doped with Pb, Ge: A critical behavior. *J Alloys Compounds* 2017 FEB 15;694:808-814.

(263) Onrubia JA, Pereda-Ayo B, De-La-Torre U, Gonzalez-Velasco JR. Key factors in Sr-doped LaBO₃ (B = Co or Mn) perovskites for NO oxidation in efficient diesel exhaust purification. *Appl Catal B-Environ* 2017 SEP 15;213:198-210.

(264) Orayech B, Faik A, Igartua JM. Effect of the M³⁺ cation size on the structural and high temperature phase transitions in Sr-2 MSbO₆ (M = Ln, Y) double perovskites. *Polyhedron* 2017 FEB 17;123:265-276.

(265) Orbea A, Gonzalez-Soto N, Maria Lacave J, Barrio I, Cajaraville MP. Developmental and reproductive toxicity of PVP/PEI-coated silver nanoparticles to zebrafish. *Comp Biochem Physiol C-Toxicol Pharmacol* 2017 SEP;199:59-68.

(266) Oregui-Bengoechea M, Gandarias I, Miletic N, Simonsen SF, Kronstad A, Arias PL, et al. Thermocatalytic conversion of lignin in an ethanol/formic acid medium with NiMo catalysts: Role of the metal and acid sites. *Appl Catal B-Environ* 2017 NOV 15;217:353-364.

(267) Oregui-Bengoechea M, Miletic N, Hao W, Björnerback F, Rosnes MH, Garitaonandia JS, et al. High-Performance Magnetic Activated Carbon from Solid Waste from Lignin Conversion Processes. 2. Their Use as NiMo Catalyst Supports for Lignin Conversion. *ACS Sustain Chem Eng* 2017 DEC;5(12):11226-11237.

(268) Orue A, Santamaria-Echart A, Eceiza A, Pena-Rodriguez C, Arbelaitz A. Office waste paper as cellulose nanocrystal source. *J Appl Polym Sci* 2017 SEP 15;134(35):45257.

(269) Orue A, Uriarte U, Roca-Lopez D, Delso I, Reyes E, Carrillo L, et al. Racemic hemiacetals as oxygen-centered pronucleophiles triggering cascade 1,4-addition/Michael reaction through dynamic kinetic resolution under iminium catalysis. Development and mechanistic insights. *Chem Sci* 2017;8(4):2904-2913.

- (270) Osinalde M, Infante P, Dominguez L, Blanco JM, del Val JJ, Chizhik A, et al. Structural magnetic characterization (dependencies of coercivity and loss with the frequency) of magnetic cores based in Finemet. *J Magn Magn Mater* 2017 DEC 1;443:124-130.

(271) Osinalde N, Aloria K, Omaetxebarria MJ, Kratchmarova I. Targeted mass spectrometry: An emerging powerful approach to unblock the bottleneck in phosphoproteomics. *J Chromatogr B* 2017 JUN 15;1055:29-38.

(272) Osinalde N, Sanchez-Quiles V, Akimov V, Aloria K, Arizmendi JM, Blagoev B, et al. Characterization of Receptor-Associated Protein Complex Assembly in Interleukin (IL)-2-and IL-15-Activated T-Cell Lines. *J Proteome Res* 2017 JAN;16(1):106-121.

(273) Ouro A, Arana L, Riazy M, Zhang P, Gomez-Larrauri A, Steinbrecher U, et al. Vascular endothelial growth factor mediates ceramide 1-phosphate-stimulated macrophage proliferation. *Exp Cell Res* 2017 DEC 15;361(2):277-283.

(274) Oyarzabal I, Rodrguez-Dieguez A, Barquin M, Seco JM, Colacio E. The effect of the disposition of coordinated oxygen atoms on the magnitude of the energy barrier for magnetization reversal in a family of linear trinuclear Zn- Dy- Zn complexes with a square-antiprism DyO₈ coordination sphere. *Dalton Trans* 2017 APR 7;46(13):4278-4286.

(275) Palao E, Sola-Llano R, Tabero A, Manzano H, Agarrabeitia AR, Villanueva A, et al. Acetylacetone BODIPY-Biscyclometalated Iridium(III) Complexes: Effective Strategy towards Smarter Fluorescent Photosensitizer Agents. *Chem -Eur J* 2017 JUL 26;23(42):10139-10147.

(276) Palencia-Madrid L, Cardoso S, Keyser C, Carlos Lopez-Quintana J, Guenaga-Lizasu A, de Pancorbo MM. Ancient mitochondrial lineages support the prehistoric maternal root of Basques in Northern Iberian Peninsula. *Eur J Hum Genet* 2017 MAY;25(5):631-636.

(277) Patrocinio D, Laza JM, Rodriguez-Hernandez J, Navas D, Soriano N, Redondo C, et al. Interference lithography with functional block copolymer blends: Hierarchical structuration and anisotropic wetting. *Eur Polym J* 2017 MAY;90:25-36.

(278) Pellon A, Ramirez-Garcia A, Buldain I, Antoran A, Rementeria A, Hernando FL. Molecular and cellular responses of the pathogenic fungus *Lomentospora prolificans* to the antifungal drug voriconazole. *PLoS One* 2017 MAR 31;12(3):e0174885.

(279) Perez-Alvarez L, Matas J, Gomez-Galvan F, Ruiz-Rubio L, Leon LM, Luis Vilas-Vilela J. Branched and ionic (beta-Cyclodextrins multilayer assembling onto polyacrylonitrile membranes for removal and controlled release of triclosan. *Carbohydr Polym* 2017 JAN 20;156:143-151.

(280) Perez-Alvarez L, Ruiz-Rubio L, Lizundia E, Hernaez E, Leon LM, Luis Vilas-Vilela J. Active release coating of multilayer assembled branched and ionic beta-cyclodextrins onto poly(ethylene terephthalate). *Carbohydr Polym* 2017 OCT 15;174:65-71.

- (281) Perez-Checa A, Feuchtwanger J, Musiienko D, Sozinov A, Barandiaran JM, Ullakko K, et al. High temperature Ni45Co5Mn25 (-) xFexGa20Cu5 ferromagnetic shape memory alloys. *Scr Mater* 2017 JUN;134:119-122.

(282) Perez-Garrastachu M, Arluzea J, Andrade R, Diez-Torre A, Urtizberea M, Silio M, et al. Nucleoporins redistribute inside the nucleus after cell cycle arrest induced by histone deacetylases inhibition. *Nucleus* 2017;8(5):515-533.

(283) Perez-Soba C, Villaseca C, Fernandez A. Magmatic graphite inclusions in Mn-Fe-rich fluorapatite of perphosphorus granites (the Belvis pluton, Variscan Iberian Belt). *Am Mineral* 2017 APR;102(4):728-742.

(284) Petuya R, Arnau A. Magnetic coupling between 3d transition metal adatoms on graphene supported by metallic substrates. *Carbon* 2017 MAY;116:599-605.

(285) Pikabea A, Forcada J. Novel Approaches for the Preparation of Magnetic Nanogels via Covalent Bonding. *J Polym Sci Pol Chem* 2017 NOV 1;55(21):3573-3586.

(286) Piris M. Global Method for Electron Correlation. *Phys Rev Lett* 2017 AUG 11;119(6):063002.

(287) Prades R, Munarriz-Cuezva E, Uriguen L, Gil-Pisa I, Gomez L, Mendieta L, et al. The prolyl oligopeptidase inhibitor IPR19 ameliorates cognitive deficits in mouse models of schizophrenia. *Eur Neuropsychopharmacol* 2017 FEB;27(2):180-191.

(288) Prieto L, Juste-Navarro V, Uria U, Delso I, Reyes E, Tejero T, et al. Regioselectivity Change in the Organocatalytic Enantioselective (3+2) Cycloaddition with Nitrones through Cooperative Hydrogen-Bonding Catalysis/Iminium Activation. *Chem -Eur J* 2017 FEB;23(12):2764-2768.

(289) Prieto L, Sanchez-Diez E, Uria U, Reyes E, Carrillo L, Vicario JL. Catalytic Generation of Donor-Acceptor Cyclopropanes under N-Heterocyclic Carbene Activation and their Stereoselective Reaction with Alkylideneoxindoles. *Adv Synth Catal* 2017 MAY 17;359(10):1678-1683.

(290) Prieto-Fernandez E, Diaz-de Usera A, Baeta M, Nunez C, Chbel F, Nadifi S, et al. A genetic overview of Atlantic coastal populations from Europe and North-West Africa based on a 17 X-STR panel. *Forensic Sci Int -Genet* 2017 MAR;27:167-171.

(291) Puelles P, Beranoaguirre A, Abalos B, Gil Ibarguchi JI, Garcia de Madinabeitia S, Rodriguez J, et al. Eclogite inclusions from subducted metagneous continental crust (Malpica-Tui Allochthonous Complex, NW Spain): Petrofabric, geochronology, and calculated seismic properties. *Tectonics* 2017 JUL;36(7):1376-1406.

- (292) Puelles P, Agirrezabala LM, Sarrionandia F, Abalos B, Carracedo-Sanchez M, Gil-Ibarguchi JI. Discerning Permian orogenic metamorphism from other tectonothermal events (Mesoproterozoic to Alpine, contact to orogenic or extensional) in the concealed basement of the Basque-Cantabrian Basin (northern Spain). *Lithosphere* 2017 JUN;9(3):441-452.

(293) Rabasa-Alcaniz F, Torres J, Sanchez-Rosello M, Tejero T, Merino P, Fustero S, et al. Organocatalytic Enantioselective Synthesis of Trifluoromethyl-Containing Tetralin Derivatives by Sequential (Hetero)Michael Reaction-Intramolecular Nitrone Cycloaddition. *Adv Synth Catal* 2017 NOV 10;359(21):3752-3764.

(294) Ramos-Cordoba E, Matito E. Local Descriptors of Dynamic and Nondynamic Correlation. *J Chem Theory Comput* 2017 JUN;13(6):2705-2711.

(295) Raya-Baron A, Oyarzabal I, Arrabal-Campos FM, Manuel Seco J, Rodriguez-Dieguez A, Fernandez I. Dinuclear Coordination Compounds Based on a 5-Nitropicolinic Carboxylate Ligand with Single-Molecule Magnet Behavior. *Inorg Chem* 2017 AUG 7;56(15):8768-8775.

(296) Rebolledo Azcargorta A, Coya E, Maria Panaite A, Sotomayor N, Lete E. Intramolecular Addition of Heteroaryllithium Compounds onto Activated Alkenes: Access to Heterofused Indolizines and Pyrroloazepines. *Eur J Org Chem* 2017 MAY 3(17):2462-2468.

(297) Reguera J, Jimenez de Aberasturi D, Henriksen-Lacey M, Langer J, Espinosa A, Szczupak B, et al. Janus plasmonic-magnetic gold-iron oxide nanoparticles as contrast agents for multimodal imaging. *Nanoscale* 2017 JUL 21;9(27):9467-9480.

(298) Renderos M, Torregaray A, Esther Gutierrez-Orrantia M, Lamikiz A, Saintier N, Girot F. Microstructure characterization of recycled IN718 powder and resulting laser clad material. *Mater Charact* 2017 DEC;134:103-113.

(299) Requejo C, Ruiz-Ortega JA, Bengoetxea H, Garcia-Blanco A, Herran E, Aristieta A, et al. Morphological Changes in a Severe Model of Parkinson's Disease and Its Suitability to Test the Therapeutic Effects of Microencapsulated Neurotrophic Factors. *Mol Neurobiol* 2017 DEC;54(10):7722-7735.

(300) Revuelta M, Arteaga O, Alvarez A, Martinez-Ibarguen A, Hilario E. Characterization of Gene Expression in the Rat Brainstem After Neonatal Hypoxic-Ischemic Injury and Antioxidant Treatment. *Mol Neurobiol* 2017 MAR;54(2):1129-1143.

(301) Reyes E, Uria U, Carrillo L, Vicario JL. Enantioselective Cascade Reactions under N-Heterocyclic Carbene Catalysis. *Synthesis* 2017 FEB;49(3):451-471.

(302) Rezabal E, Ugalde JM, Frenking G. The trans Effect in Palladium Phosphine Sulfonate Complexes. *J Phys Chem A* 2017 OCT 12;121(40):7709-7716.

- (303) Rivilla I, de Cozar A, Schafer T, Hernandez FJ, Bittner AM, Eleta-Lopez A, et al. Catalysis of a 1,3-dipolar reaction by distorted DNA incorporating a heterobimetallic platinum(II) and copper(II) complex. *Chem Sci* 2017 OCT 1;8(10):7038-7046.

(304) Roccatano D, Sarukhanyan E, Zangi R. Adsorption mechanism of an antimicrobial peptide on carbonaceous surfaces: A molecular dynamics study. *J Chem Phys* 2017 FEB 21;146(7):074703.

(305) Rodriguez G, Hall G. Human latent inhibition and the density of predictive relationships in the context in which the target stimulus occurs. *Q J Exp Psychol* 2017;70(4):610-618.

(306) Rodriguez-Dieguez A, Perez-Yanez S, Ruiz-Rubio L, Seco JM, Cepeda J. From isolated to 2D coordination polymers based on 6-aminonicotinate and 3d-metal ions: towards field-induced single-ion-magnets. *Crystengcomm* 2017 APR 28;19(16):2229-2242.

(307) Rodriguez-Mayorga M, Ramos-Cordoba E, Via-Nadal M, Piris M, Matito E. Comprehensive benchmarking of density matrix functional approximations. *Phys Chem Chem Phys* 2017 SEP 21;19(35):24029-24041.

(308) Rojo-Bartolome I, Valencia A, Cancio I. Transcription of ribogenesis genes in fish gonads: Applications in the identification of stages of oogenesis and in environmental monitoring of intersex condition. *Mar Pollut Bull* 2017 AUG 15;121(1-2):292-301.

(309) Romon P, Aparicio D, Palacios F, Carlos Iturronobeitia J, Hance T, Goldarazena A. Seasonal Terpene Variation in Needles of *Pinus radiata* (Pinales: Pinaceae) Trees Attacked by *Tomicus piniperda* (Coleoptera: Scolytinae) and the Effect of Limonene on Beetle Aggregation. *J Insect Sci* 2017 SEP 30;17(5):98.

(310) Royes J, Polo V, Uriel S, Oriol L, Pinol M, Tejedor RM. Chiral supramolecular organization from a sheet-like achiral gel: a study of chiral photoinduction. *Phys Chem Chem Phys* 2017 JUN 7;19(21):13622-13628.

(311) Ruiz-Larranaga O, Vazquez P, Iriondo M, Manzano C, Aguirre M, Garrido JM, et al. Evidence for gene-gene epistatic interactions between susceptibility genes for *Mycobacterium avium* subsp paratuberculosis infection in cattle. *Livest Sci* 2017 JAN;195:63-66.

(312) Saenz del Burgo L, Ciriza J, Acarregui A, Gurruchaga H, Javier Blanco F, Orive G, et al. Hybrid Alginate Protein-Coated Graphene Oxide Microcapsules Enhance the Functionality of Erythropoietin Secreting C2C12 Myoblasts. *Mol Pharm* 2017 MAR;14(3):885-898.

(313) Sagasti A, Gutierrez J, San Sebastian M, Barandiaran JM. Magnetoelastic Resonators for Highly Specific Chemical and Biological Detection: A Critical Study. *IEEE Trans Magn* 2017 APR;53(4):4000604

- (314) Saiz-Fernandez I, De Diego N, Brzobohaty B, Munoz-Rueda A, Lacuesta M. The imbalance between C and N metabolism during high nitrate supply inhibits photosynthesis and overall growth in maize (*Zea mays* L.). *Plant Physiol Biochem* 2017 NOV;120:213-222.

(315) Salaberria AM, Diaz RH, Andres MA, Fernandes SCM, Labidi J. The Antifungal Activity of Functionalized Chitin Nanocrystals in Poly (Lactid Acid) Films. *Materials* 2017 MAY;10(5):546.

(316) Salazar D, Martin-Cid A, Madugundo R, Garitaonandia JS, Barandiaran JM, Hadjipanayis GC. Effect of Nb and Cu on the crystallization behavior of under-stoichiometric Nd-Fe-B alloys. *J Phys D-Appl Phys* 2017 JAN 11;50(1):015305.

(317) San Segundo M, Guerrero I, Correa A. Co-Catalyzed C(sp₃)-H Oxidative Coupling of Glycine and Peptide Derivatives. *Org Lett* 2017 OCT 6;19(19):5288-5291.

(318) Santamaria A, Orbe A, Losanez MM, Skaf M, Ortega-Lopez V, Gonzalez JJ. Self-compacting concrete incorporating electric arc-furnace steelmaking slag as aggregate. *Mater Des* 2017 FEB 5;115:179-193.

(319) Santamaria-Echart A, Ugarte L, Arbelaitz A, Barreiro F, Angeles Corcuera M, Eceiza A. Modulating the microstructure of waterborne polyurethanes for preparation of environmentally friendly nanocomposites by incorporating cellulose nanocrystals. *Cellulose* 2017 FEB;24(2):823-834.

(320) Santamaria-Echart A, Ugarte L, Gonzalez K, Martin L, Irusta L, Gonzalez A, et al. The role of cellulose nanocrystals incorporation route in waterborne polyurethane for preparation of electrospun nanocomposites mats. *Carbohydr Polym* 2017 JUN 15;166:146-155.

(321) Santos JI, Fillat U, Martin-Sampedro R, Eugenio ME, Negro MJ, Sallestros I, et al. Evaluation of lignins from side-streams generated in an olive tree pruning-based biorefinery: Bioethanol production and alkaline pulping. *Int J Biol Macromol* 2017 DEC;105:238-251.

(322) Sce F, Beobide G, Castillo O, de Pedro I, Perez-Yanez S, Reyes E. Supramolecular architectures based on p-cymene/ruthenium complexes functionalized with nucleobases. *CrystEngComm* 2017 OCT 28;19(40):6039-6048.

(323) Seco JM, Rodriguez-Dieguez A, Padro D, Garcia JA, Ugalde JM, Sebastian ES, et al. Experimental and Theoretical Study of a Cadmium Coordination Polymer Based on Aminonicotinate with Second-Timescale Blue/Green Photoluminescent Emission. *Inorg Chem* 2017 MAR 20;56(6):3149-3152.

(324) Selva V, Larranaga O, Castello LM, Najera C, Sansano JM, de Cozar A. Diastereoselective [3+2] vs [4+2] Cycloadditions of Nitroprolinates with alpha,beta-Unsaturated Aldehydes and Electrophilic Alkenes: An Example of Total Periselectivity. *J Org Chem* 2017 JUN 16;82(12):6298-6312.

- (325) Serrano-Zabaleta S, Larrea A, Larranaga A, Dickey EC. Microstructure, texture, and crystallography in Ni-GDC and Co-GDC porous cermets obtained from directionally solidified eutectic ceramics. *J Mater Sci* 2017 MAY;52(10):5477-5488.

(326) Setien-Olarra A, Marichalar-Mendia X, Bediaga NG, Aguirre-Echebarria P, Aguirre-Urizar JM, Mosqueda-Taylor A. MicroRNAs expression profile in solid and unicystic ameloblastomas. *PLoS One* 2017 OCT 20;12(10):e0186841.

(327) Shu W, Lorente A, Gomez-Bengoa E, Nevado C. Expeditious diastereoselective synthesis of elaborated ketones via remote Csp(3)-H functionalization. *Nat Commun* 2017 JAN 13;8:13832.

(328) Sierra I, Iriarte-Velasco U, Gamero M, Aguayo AT. Upgrading of sewage sludge by demineralization and physical activation with CO₂: Application for methylene blue and phenol removal. *Microporous Mesoporous Mat* 2017 SEP 15;250:88-99.

(329) Siljanovska Petreska G, Salsamendi M, Arzac A, Patricia Leal G, Alegret N, Blazevska Gilev J, et al. Covalent-Bonded Reduced Graphene Oxide-Fluorescein Complex as a Substrate for Extrinsic SERS Measurements. *ACS Omega* 2017 AUG;2(8):4123-4131.

(330) Silvana Patricia C, Nerea G, Erik U, Maria Elena S, Eider B, Walter Dario DM, et al. Responses to silver nanoparticles and silver nitrate in a battery of biomarkers measured in coelomocytes and in target tissues of Eisenia fetida earthworms. *Ecotoxicol Environ Saf* 2017 JUL;141:57-63.

(331) Smith NA, Zhang P, Greenough SE, Horbury MD, Clarkson GJ, McFeely D, et al. Combatting AMR: photoactivatable ruthenium(II)-isoniazid complex exhibits rapid selective antimycobacterial activity. *Chem Sci* 2017 JAN 1;8(1):395-404.

(332) Smith NA, Zhang P, Salassa L, Habtemariam A, Sadler PJ. Synthesis, characterisation and dynamic behavior of photoactive bipyridyl ruthenium(II)-nicotinamide complexes. *Inorg Chim Acta* 2017 JAN 1;454:240-246.

(333) Sole-Morata N, Villaescusa P, Garcia-Fernandez C, Font-Porterias N, Jose Illescas M, Valverde L, et al. Analysis of the R1b-DF27 haplogroup shows that a large fraction of Iberian Y-chromosome lineages originated recently in situ. *Sci Rep* 2017 AUG 4;7:7341.

(334) Soria J, Acera A, Merayo-LLOVES J, Duran JA, Gonzalez N, Rodriguez S, et al. Tear proteome analysis in ocular surface diseases using label-free LC-MS/MS and multiplexed-microarray biomarker validation. *Sci Rep* 2017 DEC 12;7:17478.

(335) Suarez I, Tuyen Ngo T, Juarez-Perez EJ, Antonicelli G, Cortizo-Lacalle D, Mateo-Alonso A, et al. Optimization of Semiconductor Halide Perovskite Layers to Implement Waveguide Amplifiers. 2017 19th International Conference on Transparent Optical Networks (Icton) 2017.

- (336) Svalov AV, Vas'kovskiy VO, Orue I, Kurlyandskaya GV. Tailoring of switching field in GdCo-based spin valves by inserting Co layer. *J Magn Magn Mater* 2017 NOV 1;441:795-798.

(337) Telleria A, van Leeuwen PWNM, Freixa Z. Azobenzene-based ruthenium(II) catalysts for light-controlled hydrogen generation. *Dalton Trans* 2017 MAR 21;46(11):3569-3578.

(338) Telleria A, Vicent C, San Nacianceno V, Garralda MA, Freixa Z. Experimental Evidence Supporting Related Mechanisms for Ru(II)-Catalyzed Dehydrocoupling and Hydrolysis of Amine-Boranes. *ACS Catal* 2017 DEC;7(12):8394-8405.

(339) Tentelier C, Barroso-Gomila O, Lepais O, Manicki A, Romero-Garmendia I, Jugo BM. Testing mate choice and overdominance at MH in natural families of Atlantic salmon *Salmo salar*. *J Fish Biol* 2017 APR;90(4):1644-1659.

(340) Thi Tuyen Ngo, Suarez I, Antonicelli G, Cortizo-Lacalle D, Martinez-Pastor JP, Mateo-Alonso A, et al. Enhancement of the Performance of Perovskite Solar Cells, LEDs, and Optical Amplifiers by Anti-Solvent Additive Deposition. *Adv Mater* 2017 FEB 17;29(7):UNSP 1604056.

(341) Thomas-Gipson J, Beobide G, Castillo O, Luque A, Perez-Yanez S, Roman P. Supramolecular Architectures Based on Metal-Cytosine Systems. *Eur J Inorg Chem* 2017 MAR 10(10):1333-1340.

(342) Tornos F, Velasco F, Slack JF, Delgado A, Gomez-Miguel N, Manuel Escobar J, et al. The high-grade Las Cruces copper deposit, Spain: a product of secondary enrichment in an evolving basin. *Miner Deposita* 2017 JAN;52(1):1-34.

(343) Torre-Fdez I, Aramendia J, Gomez-Nubla L, Castro K, Madariaga JM. Geochemical study of the Northwest Africa 6148 Martian meteorite and its terrestrial weathering processes. *J Raman Spectrosc* 2017 NOV;48(11):1536-1543.

(344) Torrent-Sucarrat M, Navarro S, Cossio FP, Anglada JM, Luis JM. Relevance of the DFT method to study expanded porphyrins with different topologies. *J Comput Chem* 2017 DEC 15;38(32):2819-2828.

(345) Torrent-Sucarrat M, Navarro S, Marcos E, Anglada JM, Luis JM. Design of Huckel-Mobius Topological Switches with High Nonlinear Optical Properties. *J Phys Chem C* 2017 SEP 7;121(35):19348-19357.

(346) Torro L, Proenza JA, Marchesi C, Garcia-Casco A, Lewis JF. Petrogenesis of meta-volcanic rocks from the Maimon Formation (Dominican Republic): Geochemical record of the nascent Greater Antilles paleo-arc. *Lithos* 2017 MAY;278:255-273.

(347) Trepiana J, Meijide S, Navarro R, Luisa Hernandez M, Ignacio Ruiz-Sanz J, Begona Ruiz-Larrea M. Influence of oxygen partial pressure on the characteristics of human hepatocarcinoma cells. *Redox Biol* 2017 AUG;12:103-113.

- (348) Udabe E, Isik M, Sardon H, Irusta L, Salsamendi M, Sun Z, et al. Antimicrobial polyurethane foams having cationic ammonium groups. *J Appl Polym Sci* 2017 DEC 5;134(45):45473.

(349) Ugarte L, Gomez-Fernandez S, Tercjak A, Martinez-Amesti A, Angeles Corcuera M, Eceiza A. Strain sensitive conductive polyurethane foam/graphene nanocomposites prepared by impregnation method. *Eur Polym J* 2017 MAY;90:323-333.

(350) Ugarte L, Santamaria-Echart A, Mastel S, Autore M, Hillenbrand R, Angeles Corcuera M, et al. An alternative approach for the incorporation of cellulose nanocrystals in flexible polyurethane foams based on renewably sourced polyols. *Ind Crop Prod* 2017 JAN;95:564-573.

(351) Uranga J, Matxain JM, Lopez X, Ugalde JM, Casanova D. Photosensitization mechanism of Cu(II) porphyrinst. *Phys Chem Chem Phys* 2017 AUG 21;19(31):20533-20540.

(352) Urbaneja MA, Skjaerven L, Aubi O, Underhaug J, Lopez DJ, Arregi I, et al. Conformational stabilization as a strategy to prevent nucleophosmin mislocalization in leukemia. *Sci Rep* 2017 OCT 24;7:13959.

(353) Urbina L, Maria Hernandez-Arriaga A, Eceiza A, Gabilondo N, Angeles Corcuera M, Auxiliadora Prieto M, et al. By-products of the cider production: an alternative source of nutrients to produce bacterial cellulose. *Cellulose* 2017 MAY;24(5):2071-2082.

(354) Urgoitia G, SanMartin R, Herrero MT, Dominguez E. Aerobic Cleavage of Alkenes and Alkynes into Carbonyl and Carboxyl Compounds. *ACS Catal* 2017 APR;7(4):3050-3060.

(355) Urgoitia G, SanMartin R, Teresa Herrero M, Dominguez E. Efficient copper-free aerobic alkyne homocoupling in polyethylene glycol. *Environ Chem Lett* 2017 MAR;15(1):157-164.

(356) Uriarte I, Kisiel Z, Bialkowska-Jaworska E, Pszczołkowski L, Ecija P, Basterretxea FJ, et al. Comprehensive rotational spectroscopy of the newly identified atmospheric ozone depleter CF₃CH₂Cl. *J Mol Spectrosc* 2017 JUL;337:37-45.

(357) Uriarte I, Perez C, Caballero-Mancebo E, Basterretxea FJ, Lesarri A, Fernandez JA, et al. Structural Studies of Nicotinoids: Cotinine versus Nicotine. *Chem -Eur J* 2017 MAY 29;23(30):7238-7244.

(358) Uribe-Etxebarria V, Luzuriaga J, Garcia-Gallastegui P, Agliano A, Unda F, Ibarretxe G. Notch/wnt Cross-Signalling Regulates Stemness of Dental Pulp Stem Cells through Expression of Neural Crest and Core Pluripotency Factors. *Eur Cells Mater* 2017 JUL-DEC;34:249-270.

(359) Urrutia J, Pena A, Asua JM. Reactor Fouling by Preformed Latexes. *Macromol React Eng* 2017 FEB;11(1).

Related Aromatic-Ring-Fused Cycloalkanones. Angew Chem -Int Edit 2017 FEB 13;56(8):2059-2063.

- (361) Usabiaga I, Gonzalez J, Leon I, Arnaiz PF, Cocinero EJ, Fernandez JA. Influence of the Anomeric Conformation in the Intermolecular Interactions of Glucose. *J Phys Chem Lett* 2017 MAR 16;8(6):1147-1151.

(362) Valencia A, Rojo-Bartolome I, Bizarro C, Cancio I, Ortiz-Zarragoitia M. Alteration in molecular markers of oocyte development and intersex condition in mullets impacted by wastewater treatment plant effluents. *Gen Comp Endocrinol* 2017 MAY 1;245:10-18.

(363) Vallejo Rodriguez S, Urtiaga Greaves K, Navazo Ruiz M. Characterization and supply of raw materials in the Neanderthal groups of Prado Vargas Cave (Cornejo, Burgos, Spain). *Quat Int* 2017 APR 12;435:35-48.

(364) Vallejo-Lopez M, Ecija P, Vogt N, Demaison J, Lesarri A, Basterretxea FJ, et al. N-Methyl Inversion and Accurate Equilibrium Structures in Alkaloids: Pseudopelletierine. *Chem - Eur J* 2017 NOV 21;23(65):16491-16496.

(365) Vallejo-Sanchez D, Amo-Ochoa P, Beobide G, Castillo O, Froeba M, Hoffmann F, et al. Chemically Resistant, Shapeable, and Conducting Metal-Organic Gels and Aerogels Built from Dithioxamidato Ligand. *Adv Funct Mater* 2017 APR 18;27(15):1605448.

(366) Vega-Mas I, Perez-Delgado CM, Marino D, Fuertes-Mendizabal T, Gonzalez-Murua C, Marquez AJ, et al. Elevated CO₂ Induces Root Defensive Mechanisms in Tomato Plants When Dealing with Ammonium Toxicity. *Plant Cell Physiol* 2017 DEC;58(12):2112-2125.

(367) Vialas V, Colome-Calls N, Abian J, Aloria K, Alvarez-Llamas G, Antunez O, et al. A multicentric study to evaluate the use of relative retention times in targeted proteomics. *J Proteomics* 2017 JAN 30;152:138-149.

(368) Vidal K, Larranaga A, Moran-Ruiz A, Laguna-Bercero MA, Baker RT, Arriortua MI. Effect of the synthesis conditions on the properties of La0.15SM0.35Sr0.08Ba0.42FeO₃-delta cathode material for SOFCs. *Powder Technol* 2017 DEC;322:131-139.

(369) Villaescusa P, Jose Illescas M, Valverde L, Baeta M, Nunez C, Martinez-Jarreta B, et al. Characterization of the Iberian Y chromosome haplogroup R-DF27 in Northern Spain. *Forensic Sci Int -Genet* 2017 MAR;27:142-148.

(370) Villar A, Vadillo J, Santos JI, Gorritxategi E, Mabe J, Arnaiz A, et al. Cider fermentation process monitoring by Vis-NIR sensor system and chemometrics. *Food Chem* 2017 APR 15;221:100-106.

(371) Villar L, Uria U, Martinez JI, Prieto L, Reyes E, Carrillo L, et al. EnantioselectiveOxidative (4+3) Cycloadditions between Allenamides and Furans through



Universidad
del País Vasco

Euskal Herriko
Unibertsitatea

Bifunctional Hydrogen-Bonding/Ion-Pairing Interactions. *Angew Chem -Int Edit* 2017 AUG 21;56(35):10535-10538.

(372) Villate-Beitia I, Puras G, Soto-Sanchez C, Agirre M, Ojeda E, Zarate J, et al. Non-viral vectors based on magnetoplexes, lipoplexes and polyplexes for VEGF gene delivery into central nervous system cells. *Int J Pharm* 2017 APR 15;521(1-2):130-140.

(373) Wain-Martin A, Moran-Ruiz A, Vidal K, Larranaga A, Laguna-Bercero MA, Arriortua MI. Scalable synthetic method for SOFC compounds. *Solid State Ionics* 2017 DEC 15;313:52-57.

(374) Zabala A, Bustillo M, Querejeta I, Alonso M, Mentxaka O, Gonzalez-Pinto A, et al. A Pilot Study of the Usefulness of a Single Olanzapine Plasma Concentration as an Indicator of Early Drug Effect in a Small Sample of First-Episode Psychosis Patients. *J Clin Psychopharmacol* 2017 OCT;37(5):569-577.

(375) Zabala-Lekuona A, Cepeda J, Oyarzabal I, Rodriguez-Dieguez A, Garcia JA, Seco JM, et al. Rational design of triple-bridged dinuclear Zn(II)Ln(III)-based complexes: a structural, magnetic and luminescence study. *Crystengcomm* 2017;19(2):256-264.

(376) Zabala-Uncilla N, Miranda JI, Laso A, Fernandez X, Ganboa JI, Palomo C. Linear and Cyclic Depsipeptidomimetics with beta-Lactam Cores: A Class of New alpha(v)beta(3) Integrin Receptor Inhibitors. *ChemBioChem* 2017 APR 4;18(7):654-665.

(377) Zabaleta I, Negreira N, Bizkarguenaga E, Prieto A, Covaci A, Zuloaga O. Screening and identification of per- and polyfluoroalkyl substances in microwave popcorn bags. *Food Chem* 2017 SEP 1;230:497-506.

(378) Zhukov A, Blanco JM, Ipatov M, Talaat A, Zhukova V. Engineering of domain wall dynamics in amorphous microwires by annealing. *J Alloys Compounds* 2017 JUN 15;707:35-40.

(379) Zhukov A, Ipatov M, Churyukanova M, Talaat A, Blanco JM, Zhukova V. Trends in optimization of giant magnetoimpedance effect in amorphous and nanocrystalline materials. *J Alloys Compounds* 2017 DEC 15;727:887-901.

(380) Zhukov A, Ipatov M, del Val JJ, Taskaev S, Churyukanova M, Zhukova V. First-order martensitic transformation in Heusler-type glass-coated microwires. *Appl Phys Lett* 2017 DEC 11;111(24):242403.

(381) Zhukov A, Ipatov M, Talaat A, Blanco JM, Churyukanova M, Granovsky A, et al. Engineering of Giant Magnetoimpedance Effect of Amorphous and Nanocrystalline Microwires. *J Supercond Nov Magn* 2017 MAY;30(5):1359-1366.

(382) Zhukov A, Mino J, del Val JJ, Varga R, Martinez G, Baibich MN, et al. GMR effect and Kondo-like behaviour in Co-Cu microwires. *J Alloys Compounds* 2017 FEB 25;695:976-980.



Universidad
del País Vasco

Euskal Herriko
Unibertsitatea

- (383) Zhukov A, Ipatov M, Talaat A, Blanco JM, Hernando B, Gonzalez-Legarreta L, et al. Correlation of Crystalline Structure with Magnetic and Transport Properties of Glass-Coated Microwires. *Crystals* 2017 FEB;7(2):41.
- (384) Zhukova V, Blanco JM, Chizhik A, Ipatov M, Zhukov A. Current induced domain wall propagation in Co-rich amorphous microwires. *AIP Adv* 2017 MAY;7(5):056026.
- (385) Zhukova V, Ipatov M, Talaat A, Blanco JM, Churyukanova M, Zhukov A. Effect of stress annealing on magnetic properties and GMI effect of Co- and Fe-rich microwires. *J Alloys Compounds* 2017 JUN 15;707:189-194.
- (386) Zhukova V, Ipatov M, Talaat A, Blanco JM, Zhukov A. Amorphous and Nanocrystalline Glass-Coated Wires: Optimization of Soft Magnetic Properties. *High Performance Soft Magnetic Materials* 2017;252:1-31.
- (387) Zhukova V, Korchuganova OA, Aleev AA, Tcherdyntsev VV, Churyukanova M, Medvedeva EV, et al. Effect of annealing on magnetic properties and structure of Fe-Ni based magnetic microwires. *J Magn Magn Mater* 2017 JUL 1;433:278-284.
- (388) Zhukova V, Korchuganova OA, Aleev AA, Tcherdyntsev VV, Churyukanova M, Medvedeva EV, et al. Magnetic Properties and Defects of Fe-Ni-Based Magnetic Microwires. *IEEE Trans Magn* 2017 JAN;53(1):2000104.
- (389) Zhukova V, Mino J, Del Val JJ, Ipatov M, Varga R, Baibich MN, et al. GMR and Kondo Effects in Cu-Co Microwires. *J Supercond Nov Magn* 2017 APR;30(4):1109-1114.
- (390) Zhukova V, Mino J, del Val JJ, Varga R, Martinez G, Baibich M, et al. Kondo-like behavior and GMR effect in granular Cu₉₀Co₁₀ microwires. *AIP Adv* 2017 MAY;7(5):055906.
- (391) Zubeltzu J, Artacho E. Simulations of water nano-confined between corrugated planes. *J Chem Phys* 2017;147(19).