



Year	Document Title	Authors	Journal Title	Cites
2001	Natural antioxidants from residual sources	Moure A.; Cruz J.M.; Franco D.; Manuel Domínguez J.; Sineiro J.; Domínguez H.; Núñez M.J.; Carlos Parajó J.	Food Chemistry	1413
2004	Behavior of pharmaceuticals, cosmetics and hormones in a sewage treatment plant	Carballa M.; Omil F.; Lema J.M.; Llompert M.; García-Jares C.; Rodríguez I.; Gómez M.; Ternes T.	Water Research	1339
1995	Surface Tension of Alcohol + Water from 20 to 50 °C	Vazquez G.; Alvarez E.; Navaza J.M.	Journal of Chemical and Engineering Data	966
2009	Complete dissolution and partial delignification of wood in the ionic liquid 1-ethyl-3-methylimidazolium acetate	Sun N.; Rahman M.; Qin Y.; Maxim M.L.; Rodríguez H.; Rogers R.D.	Green Chemistry	889
2007	The third evolution of ionic liquids: Active pharmaceutical ingredients	Hough W.L.; Smiglak M.; Rodríguez H.; Swatloski R.P.; Spear S.K.; Daly D.T.; Pernak J.; Grisel J.E.; Carliss R.D.; Soutullo M.D.; Davis Jr. J.H.; Rogers R.D.	New Journal of Chemistry	738
2016	Towards a standardization of biomethane potential tests	Holliger C.; Alves M.; Andrade D.; Angelidaki I.; Astals S.; Baier U.; Bougrier C.; Buffière P.; Carballa M.; De Wilde V.; Ebertseder F.; Fernández B.; Ficara E.; Fotidis I.; Frigon J.-C.; De Laclós H.F.; Ghasimi D.S.M.; Hack G.; Hartel M.; Heerenklage J.; Horvath I.S.; Jenicek P.; Koch K.; Krautwald J.; Lizasoain J.; Liu J.; Mosberger L.; Nistor M.; Oechsner H.; Oliveira J.V.; Paterson M.; Pauss A.; Pommier S.; Porqueddu I.; Raposo F.; Ribeiro T.; Pfund F.R.; Strömberg S.; Torrijos M.; Van Eekert M.; Van Lier J.; Wedwitschka H.; Wierinck I.	Water Science and Technology	590
2007	Evaluation of activity and inhibition effects on Anammox process by batch tests based on the nitrogen gas production	Dapena-Mora A.; Fernández I.; Campos J.L.; Mosquera-Corral A.; Méndez R.; Jetten M.S.M.	Enzyme and Microbial Technology	514
2005	Effect of solvent, temperature, and solvent-to-solid ratio on the total phenolic content and antiradical activity of extracts from different components of grape pomace	Pinelo M.; Rubilar M.; Jerez M.; Sineiro J.; Núñez M.J.	Journal of Agricultural and Food Chemistry	457
2013	Life cycle assessment applied to wastewater treatment: State of the art	Corominas L.; Foley J.; Guest J.S.; Hospido A.; Larsen H.F.; Morera S.; Shaw A.	Water Research	452
2006	Functionality of oilseed protein products: A review	Moure A.; Sineiro J.; Domínguez H.; Parajó J.C.	Food Research International	435
2006	Temperature and composition dependence of the density and viscosity of binary mixtures of water + ionic liquid	Rodríguez H.; Brennecke J.F.	Journal of Chemical and Engineering Data	434

2011	Biochemical methane potential (BMP) of solid organic substrates: Evaluation of anaerobic biodegradability using data from an international interlaboratory study	Raposo F.; Fernández-Cegri V.; de la Rubia M.A.; Borja R.; Béline F.; Cavinato C.; Demirer G.; Fernández B.; Fernández-Polanco M.; Frigon J.C.; Ganesh R.; Kaparaju P.; Koubova J.; Méndez R.; Menin G.; Peene A.; Scherer P.; Torrijos M.; Uellendahl H.; Wierinck I.; de Wilde V.	Journal of Chemical Technology and Biotechnology	419
2010	Removal of Pharmaceutical and Personal Care Products (PPCPs) under nitrifying and denitrifying conditions	Suarez S.; Lema J.M.; Omil F.	Water Research	405
2017	Rutin: A review on extraction, identification and purification methods, biological activities and approaches to enhance its bioavailability	Gullón B.; Lú-Chau T.A.; Moreira M.T.; Lema J.M.; Eibes G.	Trends in Food Science and Technology	400
2011	Where are ionic liquid strategies most suited in the pursuit of chemicals and energy from lignocellulosic biomass?	Sun N.; Rodríguez H.; Rahman M.; Rogers R.D.	Chemical Communications	389
2008	Minimizing losses in bio-electrochemical systems: The road to applications	Clauwaert P.; Aelterman P.; Pham T.H.; De Schampelaire L.; Carballa M.; Rabaey K.; Verstraete W.	Applied Microbiology and Biotechnology	381
2005	Propionate oxidation by and methanol inhibition of anaerobic ammonium-oxidizing bacteria	Güven D.; Dapena A.; Kartal B.; Schmid M.C.; Maas B.; Van De Pas-Schoonen K.; Sozen S.; Mendez R.; Op Den Camp H.J.M.; Jetten M.S.M.; Strous M.; Schmidt I.	Applied and Environmental Microbiology	373
2009	Source identification of heavy metals in pastureland by multivariate analysis in NW Spain	Franco-Uría A.; López-Mateo C.; Roca E.; Fernández-Marcos M.L.	Journal of Hazardous Materials	372
2008	How are pharmaceutical and personal care products (PPCPs) removed from urban wastewaters?	Suárez S.; Carballa M.; Omil F.; Lema J.M.	Reviews in Environmental Science and Biotechnology	354
2005	Biomarkers for in situ detection of anaerobic ammonium-oxidizing (Anammox) bacteria	Schmid M.C.; Maas B.; Dapena A.; Van De Pas-Schoonen K.; Van De Vossenbergh J.; Kartal B.; Van Niftrik L.; Schmidt I.; Cirpus I.; Kuenen J.G.; Wagner M.; Sinninghe Damsté J.S.; Kuypers M.; Revsbech N.P.; Mendez R.; Jetten M.S.M.; Strous M.	Applied and Environmental Microbiology	349
2007	Fate of pharmaceutical and personal care products (PPCPs) during anaerobic digestion of sewage sludge	Carballa M.; Omil F.; Ternes T.; Lema J.M.	Water Research	337
2011	Demonstration of chemisorption of carbon dioxide in 1,3-dialkylimidazolium acetate ionic liquids	Gurau G.; Rodríguez H.; Kelley S.P.; Janiczek P.; Kalb R.S.; Rogers R.D.	Angewandte Chemie - International Edition	330
1992	Biodegradation of polycyclic aromatic hydrocarbons by new isolates of white rot fungi	Field J.A.; De Jong E.; Costa G.F.; De Bont J.A.M.	Applied and Environmental Microbiology	329
2010	Aggregate size and architecture determine microbial activity balance for one-stage partial nitrification and anammox	Vlaeminck S.E.; Terada A.; Smets B.F.; De Clippeleir H.; Schaubroeck T.; Bolea S.; Demeestere L.; Mast J.; Boon N.; Carballa M.; Verstraete W.	Applied and Environmental Microbiology	328
2008	Short- and long-term effects of temperature on the Anammox process	Dosta J.; Fernández I.; Vázquez-Padín J.R.; Mosquera-Corral A.; Campos J.L.; Mata-Álvarez J.; Méndez R.	Journal of Hazardous Materials	321
1993	Screening for ligninolytic fungi applicable to the biodegradation of xenobiotics	Field J.A.; de Jong E.; Feijoo-Costa G.; de Bont J.A.M.	Trends in Biotechnology	310
2008	Antioxidant activity and phenolic content of chestnut (<i>Castanea sativa</i>) shell and eucalyptus (<i>Eucalyptus globulus</i>) bark extracts	Vázquez G.; Fontenla E.; Santos J.; Freire M.S.; González-Álvarez J.; Antorrena G.	Industrial Crops and Products	309
2016	Monitoring and diagnosis of energy consumption in wastewater treatment plants. A state of the art and proposals for improvement	Longo S.; d'Antoni B.M.; Bongards M.; Chaparro A.; Cronrath A.; Fatone F.; Lema J.M.; Mauricio-Iglesias M.; Soares A.; Hospido A.	Applied Energy	305
2018	Berries extracts as natural antioxidants in meat products: A review	Lorenzo J.M.; Pateiro M.; Domínguez R.; Barba F.J.; Putnik P.; Kovačević D.B.; Shpigelman A.; Granato D.; Franco D.	Food Research International	299
1988	Characteristics of landfill leachates and alternatives for their treatment: A review	Lema J.M.; Mendez R.; Blazquez R.	Water, Air, and Soil Pollution	288
2008	Testing the assertion that 'local food is best': the challenges of an evidence-based approach	Edwards-Jones G.; Milà i Canals L.; Hounsome N.; Truninger M.; Koerber G.; Hounsome B.; Cross P.; York E.H.; Hospido A.; Plassmann K.; Harris I.M.; Edwards R.T.; Day G.A.S.; Tomos A.D.; Cowell S.J.; Jones D.L.	Trends in Food Science and Technology	287
2008	Determination of the solid-water distribution coefficient (Kd) for pharmaceuticals, estrogens and musk fragrances in digested sludge	Carballa M.; Fink G.; Omil F.; Lema J.M.; Ternes T.	Water Research	273

1993	Methanogenic and non-methanogenic activity tests. Theoretical basis and experimental set up	Soto M.; Méndez R.; Lema J.M.	Water Research	272
1997	Influence of dissolved oxygen concentration on nitrite accumulation in a biofilm airlift suspension reactor	Garrido J.M.; Van Benthum W.A.J.; Van Loosdrecht M.C.M.; Heijnen J.J.	Biotechnology and Bioengineering	268
2004	Extraction of antioxidant phenolics from almond hulls (<i>Prunus amygdalus</i>) and pine sawdust (<i>Pinus pinaster</i>)	Pinelo M.; Rubilar M.; Sineiro J.; Núñez M.J.	Food Chemistry	265
2009	Pre-treatment of hospital wastewater by coagulation-flocculation and flotation	Suarez S.; Lema J.M.; Omil F.	Bioresource Technology	264
2015	Microbial management of anaerobic digestion: Exploiting the microbiome-functionality nexus	Carballa M.; Regueiro L.; Lema J.M.	Current Opinion in Biotechnology	255
2011	Environmental and economic profile of six typologies of wastewater treatment plants	Rodríguez-García G.; Molinos-Senante M.; Hospido A.; Hernández-Sancho F.; Moreira M.T.; Feijoo G.	Water Research	251
2012	Short- and long-term effects of ammonium and nitrite on the Anammox process	Fernández I.; Dosta J.; Fajardo C.; Campos J.L.; Mosquera-Corral A.; Méndez R.	Journal of Environmental Management	251
2005	Partial nitrification in a SHARON reactor in the presence of salts and organic carbon compounds	Mosquera-Corral A.; González F.; Campos J.L.; Méndez R.	Process Biochemistry	246
2010	A methodology for optimising feed composition for anaerobic co-digestion of agro-industrial wastes	Álvarez J.A.; Otero L.; Lema J.M.	Bioresource Technology	242
2005	Removal of cosmetic ingredients and pharmaceuticals in sewage primary treatment	Carballa M.; Omil F.; Lema J.M.	Water Research	240
1995	Sodium inhibition in the anaerobic digestion process: Antagonism and adaptation phenomena	Feijoo G.; Soto M.; Méndez R.; Lema J.M.	Enzyme and Microbial Technology	238
2011	Fungal pretreatment: An alternative in second-generation ethanol from wheat straw	Salvachúa D.; Prieto A.; López-Abelairas M.; Lu-Chau T.; Martínez Á.T.; Martínez M.J.	Bioresource Technology	238
2013	Understanding the factors controlling the removal of trace organic contaminants by white-rot fungi and their lignin modifying enzymes: A critical review	Yang S.; Hai F.I.; Nghiem L.D.; Price W.E.; Roddick F.; Moreira M.T.; Magram S.F.	Bioresource Technology	237
2013	Influence of solvent on the antioxidant and antimicrobial properties of walnut (<i>Juglans regia</i> L.) green husk extracts	Fernández-Agulló A.; Pereira E.; Freire M.S.; Valentão P.; Andrade P.B.; González-álvarez J.; Pereira J.A.	Industrial Crops and Products	236
2004	Stability of the ANAMMOX process in a gas-lift reactor and a SBR	Dapena-Mora A.; Campos J.L.; Mosquera-Corral A.; Jetten M.S.M.; Méndez R.	Journal of Biotechnology	233
2000	Influence of the content in fats and proteins on the anaerobic biodegradability of dairy wastewaters	Vidal G.; Carvalho A.; Méndez R.; Lema J.M.	Bioresource Technology	232
2006	Start-up of the Anammox process in a membrane bioreactor	Trigo C.; Campos J.L.; Garrido J.M.; Méndez R.	Journal of Biotechnology	227
2007	Separation of aromatic hydrocarbons from alkanes using the ionic liquid 1-ethyl-3-methylimidazolium bis((trifluoromethyl) sulfonyl)amide	Arce A.; Earle M.J.; Rodríguez H.; Seddon K.R.	Green Chemistry	226
2012	Influence of nitrifying conditions on the biodegradation and sorption of emerging micropollutants	Fernandez-Fontaina E.; Omil F.; Lema J.M.; Carballa M.	Water Research	218
2014	Understanding the removal mechanisms of PPCPs and the influence of main technological parameters in anaerobic UASB and aerobic CAS reactors	Alvarino T.; Suarez S.; Lema J.M.; Omil F.	Journal of Hazardous Materials	214
2005	Effects of oxygen concentration on N-removal in an aerobic granular sludge reactor	Mosquera-Corral A.; De Kreuk M.K.; Heijnen J.J.; Van Loosdrecht M.C.M.	Water Research	213
2008	Biofilm and granular systems to improve Anammox biomass retention	Fernández I.; Vázquez-Padín J.R.; Mosquera-Corral A.; Campos J.L.; Méndez R.	Biochemical Engineering Journal	211
2004	Aerobic granulation with industrial wastewater in sequencing batch reactors	Arrojo B.; Mosquera-Corral A.; Garrido J.M.; Méndez R.	Water Research	208
2011	Enhanced biomethanation of kitchen waste by different pre-treatments	Ma J.; Duong T.H.; Smits M.; Verstraete W.; Carballa M.	Bioresource Technology	207
2007	Separation of benzene and hexane by solvent extraction with 1-alkyl-3-methylimidazolium bis((trifluoromethyl)sulfonyl)amide ionic liquids: Effect of the alkyl-substituent length	Arce A.; Earle M.J.; Rodríguez H.; Seddon K.R.	Journal of Physical Chemistry B	194
2014	Influence of natural extracts on the shelf life of modified atmosphere-packaged pork patties	Lorenzo J.M.; Sineiro J.; Amado I.R.; Franco D.	Meat Science	193
2006	Modeling product formation in anaerobic mixed culture fermentations	Rodríguez J.; Kleerebezem R.; Lema J.M.; Van Loosdrecht M.C.M.	Biotechnology and Bioengineering	190
2015	Eco-efficiency analysis of Spanish WWTPs using the LCA+DEA method	Lorenzo-Toja Y.; Vázquez-Rowe I.; Chenel S.; Marín-Navarro D.; Moreira M.T.; Feijoo G.	Water Research	188

2005	Environmental evaluation of different treatment processes for sludge from urban wastewater treatments: Anaerobic digestion versus thermal processes	Hospido A.; Moreira Ma.T.; Martín M.; Rigola M.; Feijoo G.	International Journal of Life Cycle Assessment	187
2010	Laccase-catalyzed degradation of anti-inflammatories and estrogens	Lloret L.; Eibes G.; Lú-Chau T.A.; Moreira M.T.; Feijoo G.; Lema J.M.	Biochemical Engineering Journal	186
2010	The effect and fate of antibiotics during the anaerobic digestion of pig manure	Álvarez J.A.; Otero L.; Lema J.M.; Omil F.	Bioresource Technology	185
2012	Relationship between microbial activity and microbial community structure in six full-scale anaerobic digesters	Regueiro L.; Veíga P.; Figueroa M.; Alonso-Gutierrez J.; Stams A.J.M.; Lema J.M.; Carballa M.	Microbiological Research	181
2000	Evaluation of extracts from Gevuina avellana hulls as antioxidants	Moure A.; Franco D.; Sineiro J.; Domínguez H.; Núñez M.J.; Lema J.M.	Journal of Agricultural and Food Chemistry	181
1997	Surface tension of binary mixtures of water + monoethanolamine and water + 2-amino-2-methyl-1-propanol and tertiary mixtures of these amines with water from 25 °C to 50 °C	Vázquez G.; Alvarez E.; Navaza J.M.; Rendo R.; Romero E.	Journal of Chemical and Engineering Data	180
2010	Ionic liquids on desulfurization of fuel oils	Francisco M.; Arce A.; Soto A.	Fluid Phase Equilibria	176
1994	Enzymatic pretreatment to enhance oil extraction from fruits and oilseeds: a review	Domínguez H.; Núñez M.J.; Lema J.M.	Food Chemistry	175
2002	Removal of cadmium and mercury ions from aqueous solution by sorption on treated Pinus pinaster bark: Kinetics and isotherms	Vázquez G.; González-Álvarez J.; Freire S.; López-Lorenzo M.; Antorrena G.	Bioresource Technology	174
2013	Anaerobic digestion of different feedstocks: Impact on energetic and environmental balances of biogas process	Bacenetti J.; Negri M.; Fiala M.; González-García S.	Science of the Total Environment	174
2012	Joint life cycle assessment and data envelopment analysis of grape production for vinification in the Rías Baixas appellation (NW Spain)	Vázquez-Rowe I.; Villanueva-Rey P.; Iribarren D.; Teresa Moreira M.; Feijoo G.	Journal of Cleaner Production	174
2019	Adsorption of an anionic dye (Congo red) from aqueous solutions by pine bark	Litefti K.; Freire M.S.; Stitou M.; González-Álvarez J.	Scientific Reports	173
2007	Gasoline desulfurization using extraction with [C8mim][BF 4] ionic liquid	Alonso L.; Arce A.; Francisco M.; Rodríguez O.; Soto A.	AIChE Journal	172
2009	Nitrogen removal from digested black water by one-stage partial nitrification and anammox	Vlaeminck S.E.; Terada A.; Smets B.F.; Van Der Linden D.; Boon N.; Verstraete W.; Carballa M.	Environmental Science and Technology	168
2011	Reaction of elemental chalcogens with imidazolium acetates to yield imidazole-2-chalcogenones: Direct evidence for ionic liquids as proto-carbenes	Rodríguez H.; Gurau G.; Holbrey J.D.; Rogers R.D.	Chemical Communications	164
2004	Enrichment of Anammox biomass from municipal activated sludge: Experimental and modelling results	Dapena-Mora A.; Van Hulle S.W.H.; Campos J.L.; Méndez R.; Vanrolleghem P.A.; Jetten M.	Journal of Chemical Technology and Biotechnology	162
2014	Life cycle assessment of the production of the red antioxidant carotenoid astaxanthin by microalgae: From lab to pilot scale	Pérez-López P.; González-García S.; Jeffries C.; Agathos S.N.; McHugh E.; Walsh D.; Murray P.; Moane S.; Feijoo G.; Moreira M.T.	Journal of Cleaner Production	162
2003	Simplified life cycle assessment of galician milk production	Hospido A.; Moreira M.T.; Feijoo G.	International Dairy Journal	160
2012	Fat effect on physico-chemical, microbial and textural changes through the manufactured of dry-cured foal sausage Lipolysis, proteolysis and sensory properties	Lorenzo J.M.; Franco D.	Meat Science	160
2008	Environmental performance of wastewater treatment plants for small populations	Gallego A.; Hospido A.; Moreira M.T.; Feijoo G.	Resources, Conservation and Recycling	159
2020	The application of life cycle assessment (LCA) to wastewater treatment: A best practice guide and critical review	Corominas L.; Byrne D.M.; Guest J.S.; Hospido A.; Roux P.; Shaw A.; Short M.D.	Water Research	157
2006	Enzymatic degradation of anthracene, dibenzothiophene and pyrene by manganese peroxidase in media containing acetone	Eibes G.; Cajthaml T.; Moreira M.T.; Feijoo G.; Lema J.M.	Chemosphere	156
2002	Nitrification in saline wastewater with high ammonia concentration in an activated sludge unit	Campos J.L.; Mosquera-Corral A.; Sánchez M.; Méndez R.; Lema J.M.	Water Research	156
2008	Comparison of predicted and measured concentrations of selected pharmaceuticals, fragrances and hormones in Spanish sewage	Carballa M.; Omil F.; Lema J.M.	Chemosphere	155
2014	Carcass characteristics, meat quality and nutritional value of horsemeat: A review	Lorenzo J.M.; Sarriés M.V.; Tateo A.; Polidori P.; Franco D.; Lanza M.	Meat Science	154

2001	Mass transfer coefficients during osmotic dehydration of apple in single and combined aqueous solutions of sugar and salt	Sereno A.M.; Moreira R.; Martinez E.	Journal of Food Engineering	154
2013	Review of combined approaches and multi-criteria analysis for corporate environmental evaluation	Herva M.; Roca E.	Journal of Cleaner Production	153
2008	Fate of pharmaceuticals and cosmetic ingredients during the operation of a MBR treating sewage	Reif R.; Suárez S.; Omil F.; Lema J.M.	Desalination	152
2012	Insight into the interactions that control the phase behaviour of new aqueous biphasic systems composed of polyethylene glycol polymers and ionic liquids	Freire M.G.; Pereira J.F.B.; Francisco M.; Rodríguez H.; Rebelo L.P.N.; Rogers R.D.; Coutinho J.A.P.	Chemistry - A European Journal	152
2009	Treatment of an anaerobic sludge digester effluents by the CANON process in an air pulsing SBR	Vázquez-Padín J.R.; Pozo M.J.; Jarpa M.; Figueroa M.; Franco A.; Mosquera-Corral A.; Campos J.L.; Méndez R.	Journal of Hazardous Materials	152
2011	Benchmarking environmental and operational parameters through eco-efficiency criteria for dairy farms	Iribarren D.; Hospido A.; Moreira M.T.; Feijoo G.	Science of the Total Environment	148
2009	Phosphate removal in agro-industry: Pilot- and full-scale operational considerations of struvite crystallization	Moerman W.; Carballa M.; Vandekerckhove A.; Derycke D.; Verstraete W.	Water Research	146
2010	Maximizing the ex vivo expansion of human mesenchymal stem cells using a microcarrier-based stirred culture system	Eibes G.; dos Santos F.; Andrade P.Z.; Boura J.S.; Abecasis M.M.A.; da Silva C.L.; Cabral J.M.S.	Journal of Biotechnology	146
2008	Solvent extraction of thiophene from n-alkanes (C7, C12, and C16) using the ionic liquid [C8mim][BF4]	Alonso L.; Arce A.; Francisco M.; Soto A.	Journal of Chemical Thermodynamics	145
2009	The link between operational efficiency and environmental impacts. A joint application of Life Cycle Assessment and Data Envelopment Analysis	Lozano S.; Iribarren D.; Moreira M.T.; Feijoo G.	Science of the Total Environment	145
2013	Effects of natural (grape seed and chestnut extract) and synthetic antioxidants (butylatedhydroxytoluene, BHT) on the physical, chemical, microbiological and sensory characteristics of dry cured sausage "chorizo"	Lorenzo J.M.; González-Rodríguez R.M.; Sánchez M.; Amado I.R.; Franco D.	Food Research International	144
2011	Review of corporate environmental indicators	Herva M.; Franco A.; Carrasco E.F.; Roca E.	Journal of Cleaner Production	142
2016	Greenhouse Gases Emissions from Wastewater Treatment Plants: Minimization, Treatment, and Prevention	Campos J.L.; Valenzuela-Heredia D.; Pedrouso A.; Val Del Río A.; Belmonte M.; Mosquera-Corral A.	Journal of Chemistry	139
2018	Carbon footprint and nutritional quality of different human dietary choices	González-García S.; Esteve-Llorens X.; Moreira M.T.; Feijoo G.	Science of the Total Environment	138
2005	Partitioning of antibiotics in a two-liquid phase system formed by water and a room temperature ionic liquid	Soto A.; Arce A.; Khoshkbarchi M.K.	Separation and Purification Technology	138
1999	Anaerobic hydrolysis and acidogenesis of wastewaters from food industries with high content of organic solids and protein	Guerrero L.; Omil F.; Méndez R.; Lema J.M.	Water Research	138
1998	Long-term competition between sulfate reducing and methanogenic bacteria in UASB reactors treating volatile fatty acids	Omil F.; Lens P.; Visser A.; Hulshoff Pol L.W.; Lettinga G.	Biotechnology and Bioengineering	138
2018	Understanding the sorption and biotransformation of organic micropollutants in innovative biological wastewater treatment technologies	Alvarino T.; Suarez S.; Lema J.; Omil F.	Science of the Total Environment	137
2011	Extracts of maqui (<i>Aristotelia chilensis</i>) and murta (<i>Ugni molinae</i> Turcz.): Sources of antioxidant compounds and α -glucosidase/ α -amylase inhibitors	Rubilar M.; Jara C.; Poo Y.; Acevedo F.; Gutierrez C.; Sineiro J.; Shene C.	Journal of Agricultural and Food Chemistry	137
2010	Diclofenac oxidation by biogenic manganese oxides	Forrez I.; Carballa M.; Verbeken K.; Vanhaecke L.; Michael Schlüsener M.S.; Ternes T.; Boon N.; Verstraete W.	Environmental Science and Technology	137
2003	Anaerobic filter reactor performance for the treatment of complex dairy wastewater at industrial scale	Omil F.; Garrido J.M.; Arrojo B.; Méndez R.	Water Research	137
2014	Comparative life cycle assessment in the wine sector: Biodynamic vs. conventional viticulture activities in NW Spain	Villanueva-Rey P.; Vázquez-Rowe I.; Moreira M.T.; Feijoo G.	Journal of Cleaner Production	136
2009	From waste to commodity: transforming shells into high purity calcium carbonate	Barros M.C.; Bello P.M.; Bao M.; Torrado J.J.	Journal of Cleaner Production	136
1995	Anaerobic treatment of saline wastewaters under high sulphide and ammonia content	Omil F.; Méndez R.; Lema J.M.	Bioresource Technology	135

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2010	Brønsted ionic liquids for sustainable processes: Synthesis and physical properties	Álvarez V.H.; Dosil N.; Gonzalez-Cabaleiro R.; Mattedi S.; Martin-Pastor M.; Iglesias M.; Navaza J.M.	Journal of Chemical and Engineering Data	135
2005	Life cycle environmental impacts of Spanish tuna fisheries	Hospido A.; Tyedmers P.	Fisheries Research	135
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2008	Heat capacities and excess enthalpies of 1-3ethyl-3-methylimidazolium-based ionic liquids and water	Ficke L.E.; Rodríguez H.; Brennecke J.F.	Journal of Chemical and Engineering Data	134
1994	Adsorption of heavy metal ions by chemically modified <i>Pinus pinaster</i> bark	Vázquez G.; Antorrena G.; González J.; Doval M.D.	Bioresource Technology	133
2003	Rheology of aqueous solutions of food additives: Effect of concentration, temperature and blending	Gómez-Díaz D.; Navaza J.M.	Journal of Food Engineering	133
2008	Thermodynamic analysis of experimental sorption isotherms of loquat and quince fruits	Moreira R.; Chenlo F.; Torres M.D.; Vallejo N.	Journal of Food Engineering	133
2007	Influence of ozone pre-treatment on sludge anaerobic digestion: Removal of pharmaceutical and personal care products	Carballa M.; Manterola G.; Larrea L.; Ternes T.; Omil F.; Lema J.M.	Chemosphere	132
2016	Status of hormones and painkillers in wastewater effluents across several European states—considerations for the EU watch list concerning estradiols and diclofenac	Schröder P.; Helmreich B.; Škrbić B.; Carballa M.; Papa M.; Pastore C.; Emre Z.; Oehmen A.; Langenhoff A.; Molinos M.; Dvarioniene J.; Huber C.; Tsagarakis K.P.; Martinez-Lopez E.; Pagano S.M.; Vogelsang C.; Mascolo G.	Environmental Science and Pollution Research	131
2011	Degradation of selected pharmaceutical and personal care products (PPCPs) by white-rot fungi	Rodarte-Morales A.I.; Feijoo G.; Moreira M.T.; Lema J.M.	World Journal of Microbiology and Biotechnology	130
2013	Relationship between phenol degradation efficiency and microbial community structure in an anaerobic SBR	Rosenkranz F.; Cabrol L.; Carballa M.; Donoso-Bravo A.; Cruz L.; Ruiz-Filippi G.; Chamy R.; Lema J.M.	Water Research	130
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2007	Kinetics of triclosan oxidation by aqueous ozone and consequent loss of antibacterial activity: Relevance to municipal wastewater ozonation	Suarez S.; Dodd M.C.; Omil F.; von Gunten U.	Water Research	128
2009	Chestnut shell as heavy metal adsorbent: Optimization study of lead, copper and zinc cations removal	Vázquez G.; Calvo M.; Sonia Freire M.; González-Alvarez J.; Antorrena G.	Journal of Hazardous Materials	128
2014	Extractive and oxidative-extractive desulfurization of fuels with ionic liquids	Rodríguez-Cabo B.; Rodríguez H.; Rodil E.; Arce A.; Soto A.	Fuel	127
2021	The fate of SARS-COV-2 in WWTPS points out the sludge line as a suitable spot for detection of COVID-19	Balboa S.; Mauricio-Iglesias M.; Rodriguez S.; Martínez-Lamas L.; Vasallo F.J.; Regueiro B.; Lema J.M.	Science of the Total Environment	127
2010	Environmental assessment of anaerobically digested sludge reuse in agriculture: Potential impacts of emerging micropollutants	Hospido A.; Carballa M.; Moreira M.; Omil F.; Lema J.M.; Feijoo G.	Water Research	127
2009	Evaluation of potential applications for chestnut (<i>Castanea sativa</i>) shell and eucalyptus (<i>Eucalyptus globulus</i>) bark extracts	Vázquez G.; González-Alvarez J.; Santos J.; Freire M.S.; Antorrena G.	Industrial Crops and Products	127
2006	Mass transfer during continuous solid-liquid extraction of antioxidants from grape byproducts	Pinelo M.; Sineiro J.; Núñez M.J.	Journal of Food Engineering	125
2010	Combined application of life cycle assessment and data envelopment analysis as a methodological approach for the assessment of fisheries	Vázquez-Rowe I.; Iribarren D.; Moreira M.T.; Feijoo G.	International Journal of Life Cycle Assessment	124
2004	Environmental performance of a municipal wastewater treatment plant	Hospido A.; Moreira Ma.T.; Fernández-Couto M.; Feijoo G.	International Journal of Life Cycle Assessment	122

1997	Effect of chemical modification of lignin on the gluebond performance of lignin-phenolic resins	Vázquez G.; González J.; Freire S.; Antorrena G.	Bioresource Technology	121
2011	Removal of persistent pharmaceutical micropollutants from sewage by addition of PAC in a sequential membrane bioreactor	Serrano D.; Suárez S.; Lema J.M.; Omil F.	Water Research	121
2010	Microbial community distribution and activity dynamics of granular biomass in a CANON reactor	Vázquez-Padín J.; Mosquera-Corral A.; Campos J.L.; Méndez R.; Revsbech N.P.	Water Research	120
2017	Proximate composition and nutritional value of three macroalgae: <i>Ascophyllum nodosum</i> , <i>Fucus vesiculosus</i> and <i>Bifurcaria bifurcata</i>	Lorenzo J.M.; Agregán R.; Munekata P.E.S.; Franco D.; Carballo J.; Şahin S.; Lacomba R.; Barba F.J.	Marine Drugs	120
2016	Biotransformation of pharmaceuticals under nitrification, nitratation and heterotrophic conditions	Fernandez-Fontaina E.; Gomes I.B.; Aga D.S.; Omil F.; Lema J.M.; Carballa M.	Science of the Total Environment	119
2006	Physical and excess properties for binary mixtures of 1-methyl-3- octylimidazolium tetrafluoroborate, [Omim][BF4], ionic liquid with different alcohols	Arce A.; Rodil E.; Soto A.	Journal of Solution Chemistry	118
2008	1-Ethyl-3-methylimidazolium bis((trifluoromethyl)sulfonyl)amide as solvent for the separation of aromatic and aliphatic hydrocarbons by liquid extraction – extension to C7- and C8-fractions	Arce A.; Earle M.J.; Rodríguez H.; Seddon K.R.; Soto A.	Green Chemistry	118
2003	Apparent Molar Volume, Isentropic Compressibility, Refractive Index, and Viscosity of DL-Alanine in Aqueous NaCl Solutions	Rodríguez H.; Soto A.; Arce A.; Khoshkbarchi M.K.	Journal of Solution Chemistry	117
2012	Physicochemical properties of maize cob cellulose powders reconstituted from ionic liquid solution	Azubuike C.P.; Rodríguez H.; Okhamafe A.O.; Rogers R.D.	Cellulose	117
2018	Main groups of microorganisms of relevance for food safety and stability: General aspects and overall description	Lorenzo J.M.; Munekata P.E.; Dominguez R.; Pateiro M.; Saraiva J.A.; Franco D.	Innovative technologies for food preservation: Inactivation of spoilage and pathogenic microorganisms	116
2012	Water adsorption isotherms of carboxymethyl cellulose, guar, locust bean, tragacanth and xanthan gums	Torres M.D.; Moreira R.; Chenlo F.; Vázquez M.J.	Carbohydrate Polymers	115
2006	Life cycle inventory of particleboard: A case study in the wood sector	Rivela B.; Hospido A.; Moreira Ma.T.; Feijoo G.	International Journal of Life Cycle Assessment	115
2002	Autotrophic denitrification for combined hydrogen sulfide removal from biogas and post-denitrification.	Kleerebezem R.; Mendez R.	Water science and technology : a journal of the International Association on Water Pollution Research	115
1991	Optimization of the thermal processing of conduction-heated canned foods: Study of several objective functions	Banga J.R.; Perez-Martin R.I.; Gallardo J.M.; Casares J.J.	Journal of Food Engineering	114
2013	Hazardous organic chemicals in rubber recycled tire playgrounds and pavers	Llompert M.; Sanchez-Prado L.; Pablo Lamas J.; Garcia-Jares C.; Roca E.; Dagnac T.	Chemosphere	113
2000	Evaluation of different fungal strains in the decolourisation of synthetic dyes	Moreira M.T.; Mielgo I.; Feijoo G.; Lema J.M.	Biotechnology Letters	113
2008	Thiophene separation from aliphatic hydrocarbons using the 1-ethyl-3-methylimidazolium ethylsulfate ionic liquid	Alonso L.; Arce A.; Francisco M.; Soto A.	Fluid Phase Equilibria	113
2014	Life cycle assessment of electricity production in Italy from anaerobic co-digestion of pig slurry and energy crops	Lijó L.; González-García S.; Bacenetti J.; Fiala M.; Feijoo G.; Lema J.M.; Moreira M.T.	Renewable Energy	112
2015	Key microbial communities steering the functioning of anaerobic digesters during hydraulic and organic overloading shocks	Regueiro L.; Lema J.M.; Carballa M.	Bioresource Technology	112
2008	Kinetics of denitrification using sulphur compounds: Effects of S/N ratio, endogenous and exogenous compounds	Campos J.L.; Carvalho S.; Portela R.; Mosquera-Corral A.; Méndez R.	Bioresource Technology	111
2012	Environmental analysis of Ribeiro wine from a timeline perspective: Harvest year matters when reporting environmental impacts	Vázquez-Rowe I.; Villanueva-Rey P.; Moreira M.T.; Feijoo G.	Journal of Environmental Management	111

2010	Flaxseed as a source of functional ingredients	Rubilar M.; Gutiérrez C.; Verdugo M.; Shene C.; Sineiro J.	Journal of Soil Science and Plant Nutrition	111
1997	Surface tension of organic acids + water binary mixtures from 20°C to 50°C	Álvarez E.; Vázquez G.; Sánchez-Vilas M.; Sanjurjo B.; Navaza J.M.	Journal of Chemical and Engineering Data	110
2008	Water absorption, texture, and color kinetics of air-dried chestnuts during rehydration	Moreira R.; Chenlo F.; Chaguri L.; Fernandes C.	Journal of Food Engineering	106
2011	Autotrophic nitrogen removal at low temperature	Vázquez-Padín J.R.; Fernández I.; Morales N.; Campos J.L.; Mosquera-Corral A.; Méndez R.	Water Science and Technology	105
2008	A comparison of municipal wastewater treatment plants for big centres of population in Galicia (Spain)	Hospido A.; Moreira Ma.T.; Feijoo G.	International Journal of Life Cycle Assessment	104
2016	Benchmarking wastewater treatment plants under an eco-efficiency perspective	Lorenzo-Toja Y.; Vázquez-Rowe I.; Amores M.J.; Termes-Rifé M.; Marín-Navarro D.; Moreira M.T.; Feijoo G.	Science of the Total Environment	104
2006	Comparison between the conventional anaerobic digestion of sewage sludge and its combination with a chemical or thermal pre-treatment concerning the removal of pharmaceuticals and personal care products	Carballa M.; Omil F.; Alder A.C.; Lema J.M.	Water Science and Technology	104
2006	Granulation in high-load denitrifying upflow sludge bed (USB) pulsed reactors	Franco A.; Roca E.; Lema J.M.	Water Research	104
2005	Anaerobic treatment of azo dye Acid Orange 7 under fed-batch and continuous conditions	Méndez-Paz D.; Omil F.; Lema J.M.	Water Research	104
2006	Environmental assessment of canned tuna manufacture with a life-cycle perspective	Hospido A.; Vazquez M.E.; Cuevas A.; Feijoo G.; Moreira M.T.	Resources, Conservation and Recycling	104
2007	A comparison between bark extracts from Pinus pinaster and Pinus radiata: Antioxidant activity and procyanidin composition	Jerez M.; Selga A.; Sineiro J.; Torres J.L.; Núñez M.J.	Food Chemistry	103
2008	Treatment of saline wastewater in SBR aerobic granular reactors	Figueroa M.; Mosquera-Corral A.; Campos J.L.; Méndez R.	Water Science and Technology	103
2010	Further potentials in the joint implementation of life cycle assessment and data envelopment analysis	Iribarren D.; Vázquez-Rowe I.; Moreira M.T.; Feijoo G.	Science of the Total Environment	103
2021	Novel strategy for developing healthy meat products replacing saturated fat with oleogels	López-Pedrouso M.; Lorenzo J.M.; Gullón B.; Campagnol P.C.B.; Franco D.	Current Opinion in Food Science	103
2004	Thermodynamics of diglycine and triglycine in aqueous NaCl solutions: Apparent molar volume, isentropic compressibility, and refractive index	Soto A.; Arce A.; Khoshkbarchi M.K.	Journal of Solution Chemistry	103
2011	Combined cross-linked enzyme aggregates from versatile peroxidase and glucose oxidase: Production, partial characterization and application for the elimination of endocrine disruptors	Taboada-Puig R.; Junghanns C.; Demarche P.; Moreira M.T.; Feijoo G.; Lema J.M.; Agathos S.N.	Bioresource Technology	103
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2008	Phase behaviour of 1-methyl-3-octylimidazolium bis[trifluoromethylsulfonyl]imide with thiophene and aliphatic hydrocarbons: The influence of n-alkane chain length	Alonso L.; Arce A.; Francisco M.; Soto A.	Fluid Phase Equilibria	103
2012	Life cycle assessment of two alternative bioenergy systems involving Salix spp. biomass: Bioethanol production and power generation	González-García S.; Iribarren D.; Susmozas A.; Dufour J.; Murphy R.J.	Applied Energy	102
2013	Ranking municipal solid waste treatment alternatives based on ecological footprint and multi-criteria analysis	Herva M.; Roca E.	Ecological Indicators	102
2011	Biogenic metals for the oxidative and reductive removal of pharmaceuticals, biocides and iodinated contrast media in a polishing membrane bioreactor	Forrez I.; Carballa M.; Fink G.; Wick A.; Hennebel T.; Vanhaecke L.; Ternes T.; Boon N.; Verstraete W.	Water Research	102
2011	Density, speed of sound, viscosity, refractive index, and excess volume of N -methyl-2-pyrrolidone + ethanol (or water or ethanolamine) from T = (293.15 to 323.15) K	García-Abuán A.; Gómez-Dáaz D.; La Rubia M.D.; Navaza J.M.	Journal of Chemical and Engineering Data	102
2011	Oxidation of pharmaceutically active compounds by a ligninolytic fungal peroxidase	Eibes G.; Debernardi G.; Feijoo G.; Moreira M.T.; Lema J.M.	Biodegradation	101

2009	Bis((trifluoromethyl)sulfonyl)amide ionic liquids as solvents for the extraction of aromatic hydrocarbons from their mixtures with alkanes: Effect of the nature of the cation	Arce A.; Earle M.J.; Rodríguez H.; Seddon K.R.; Soto A.	Green Chemistry	101
2014	Influence of muscle type on the evolution of free amino acids and sarcoplasmic and myofibrillar proteins through the manufacturing process of Celta dry-cured ham	Bermúdez R.; Franco D.; Carballo J.; Sentandreu M.T.; Lorenzo J.M.	Food Research International	100
2016	Fungal pretreatment of agricultural residues for bioethanol production	García-Torreiro M.; López-Abelairas M.; Lu-Chau T.A.; Lema J.M.	Industrial Crops and Products	100
2006	Mutually immiscible ionic liquids	Arce A.; Earle M.J.; Katdare S.P.; Rodríguez H.; Seddon K.R.	Chemical Communications	100
2007	Supercritical fluid and solid-liquid extraction of phenolic antioxidants from grape pomace: A comparative study	Pinelo M.; Ruiz-Rodríguez A.; Sineiro J.; Señoráns F.J.; Reglero G.; Núñez M.J.	European Food Research and Technology	100
2007	Separation and HPLC-MS identification of phenolic antioxidants from agricultural residues: Almond hulls and grape pomace	Rubilar M.; Pinelo M.; Shene C.; Sineiro J.; Nuñez M.J.	Journal of Agricultural and Food Chemistry	100
2013	Linking thermodynamics and kinetics to assess pathway reversibility in anaerobic bioprocesses	González-Cabaleiro R.; Lema J.M.; Rodríguez J.; Kleerebezem R.	Energy and Environmental Science	99
2020	Purple phototrophic bacteria for resource recovery: Challenges and opportunities	Capson-Tojo G.; Batstone D.J.; Grassino M.; Vlaeminck S.E.; Puyol D.; Verstraete W.; Kleerebezem R.; Oehmen A.; Ghimire A.; Pikaar I.; Lema J.M.; Hülsen T.	Biotechnology Advances	99
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2010	Monitoring the stability of an Anammox reactor under high salinity conditions	Dapena-Mora A.; Vázquez-Padín J.R.; Campos J.L.; Mosquera-Corral A.; Jetten M.S.M.; Méndez R.	Biochemical Engineering Journal	98
2012	Pharmaceutically active ionic liquids with solids handling, enhanced thermal stability, and fast release	Bica K.; Rodríguez H.; Gurau G.; Andreea Cojocaru O.; Riisager A.; Fehrmann R.; Rogers R.D.	Chemical Communications	98
2018	Critical aggregation concentration for the formation of early Amyloid- β (1-42) oligomers	Novo M.; Freire S.; Al-Soufi W.	Scientific Reports	98
2006	Murta leaves (<i>Ugni molinae</i> Turcz) as a source of antioxidant polyphenols	Rubilar M.; Pinelo M.; Ihl M.; Scheuermann E.; Sineiro J.; Nuñez M.J.	Journal of Agricultural and Food Chemistry	98
2011	Struvite crystallization versus amorphous magnesium and calcium phosphate precipitation during the treatment of a saline industrial wastewater	Crutchik D.; Garrido J.M.	Water Science and Technology	98
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2011	Should we pretreat solid waste prior to anaerobic digestion? An assessment of its environmental cost	Carballa M.; Duran C.; Hospido A.	Environmental Science and Technology	97
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2018	Application of hull, bur and leaf chestnut extracts on the shelf-life of beef patties stored under MAP: Evaluation of their impact on physicochemical properties, lipid oxidation, antioxidant, and antimicrobial potential	Zamuz S.; López-Pedrouso M.; Barba F.J.; Lorenzo J.M.; Domínguez H.; Franco D.	Food Research International	96
2009	The role of seasonality in lettuce consumption: A case study of environmental and social aspects	Hospido A.; Milà I Canals L.; McLaren S.; Truninger M.; Edwards-Jones G.; Clift R.	International Journal of Life Cycle Assessment	96
2012	Impact of temperature on raw wastewater composition and activated sludge filterability in full-scale MBR systems for municipal sewage treatment	Krzeminski P.; Iglesias-Obelleiro A.; Madebo G.; Garrido J.M.; van der Graaf J.H.J.M.; van Lier J.B.	Journal of Membrane Science	96
2007	Life cycle inventory of medium density fibreboard	Rivela B.; Moreira Ma.T.; Feijoo G.	International Journal of Life Cycle Assessment	96

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2013	Removal of estrogenic compounds from filtered secondary wastewater effluent in a continuous enzymatic membrane reactor. Identification of biotransformation products	Lloret L.; Eibes G.; Moreira M.T.; Feijoo G.; Lema J.M.	Environmental Science and Technology	95