

PUBLICACIONES DERIVADAS DE TESIS DOCTORALES

Doctoranda: MARIA ESTELA PERALTA ÁLVAREZ	
Título	Clean Manufacturing from Cradle to Cradle
Autores	M ^a Estela Peralta Álvarez, Francisco Aguayo González y J.R. Lama
Revista	Key Engineering Materials, 502, 43-48 (2012)
Título	Sustainable Fractal Manufacturing: a new approach to sustainability in machining processes
Autores	M ^a Estela Peralta Álvarez, M. Marcos, Francisco Aguayo González, J.R. Lama y A. Córdoba
Revista	Procedia Engineering, 132, 926-933, 2015
Título	INGENIERÍA SOSTENIBLE DE LA CUNA A LA CUNA: una arquitectura de referencia abierta para el diseño C2C
Autores	M ^a Estela Peralta Álvarez, Francisco Aguayo González y J.R. Lama
Revista	Revista Dyna. Ingeniería e Industria, Vol. 86 n ^o 2, 199-211 (2011)
Título	MODELO MGE2: METODOLOGÍA SOSTENIBLE PARA LA CERTIFICACIÓN INTEGRAL ISO-C2C-LEED
Autores	Antonio García Salguero, M ^a Estela Peralta Álvarez, Francisco Aguayo González y J.R. Lama
Revista	Revista Dyna. Ingeniería e Industria, Vol. 89 n ^o 5, 479 (2104)
Título	MGE2: A framework for cradle-to-cradle design
Autores	M ^a Estela Perálta Álvarez, Francisco Aguayo González, J.R. Lama y M ^a Jesús Ávila Gutiérrez
Revista	Revista Dyna, 82 (191), 137-146 (2015)

Doctorando: RAUL SARRIAS MENA	
Título	Coordinate operation of power sources in a doubly-fed induction generator wind turbine/battery hybrid power system
Autores	Raúl Sarrias; Luis M. Fernández; Carlos A. García; Francisco Jurado
Año	2012
Revista	Journal of Power Sources (2012)
Título	Comparative Study of the Behavior of a Wind Farm Integrating Three Different FACTS Devices
Autores	Raúl Sarrias Mena, Carlos González, Luis M. Fernández Ramírez, Carlos A. García Vázquez y Francisco Jurado
Revista	Journal of Electrical Engineering and Technolog, Vol.9 Nª4, 1258-1268 (2014)
Título	Fuzzy logic based power management strategy of a multi-MW doubly-fed induction generator wind turbine with battery and ultracapacitor.
Autores	Raúl Sarrias Mena, Luis M. Fernández Ramírez, Carlos A. García Vázquez y Francisco Jurado
Revista	Energy, 70, 561-576 (2014)
Título	Improving grid integration of wind turbines by using secondary batteries
Autores	Raúl Sarrias Mena, Luis M. Fernández Ramírez, Carlos A. García Vázquez y Francisco Jurado
Revista	Renewable and Sustainable Energy Review, 34, 194-207 (2014)
Título	Dynamic evaluation of two configurations for a hybrid DFIG-based wind turbine integrating battery energy storage system
Autores	Raúl Sarrias Mena, Luis M. Fernández Ramírez, Carlos A. García Vázquez y Francisco Jurado
Revista	Wind Energy, Vol:18 Issue:1, 133-152 (2015)
Título	Electrolyzer models for hydrogen production from wind energy systems
Autores	Raúl Sarrias Mena, Luis M. Fernández Ramírez, Carlos A. García Vázquez y Francisco Jurado
Revista	International Journal of Hydrogen Energy, Vol:40 Nª:7, 2927-2938 (2015)

Doctoranda: ANA DE LAS HERAS GARCIA DE VINUESA	
Título	Diseño experiencial "fuzzy" de un producto
Autores	Ana de las Heras García de Vinuesa, Francisco Aguayo González, Juan Ramón Lama Ruíz y Antonio Córdoba
Revista	Técnica Industrial, 305, 44-54 (2014)
Título	Distritos Térmicos urbanos e industriales.
Autores	Ana de las Heras García de Vinuesa y Alejandro Manuel Martín Gómez.
Revista	Sevilla Técnica, 42, 36-39 (2014)
Título	Protomodelo para la evaluación de la sostenibilidad en dirección de proyectos
Autores	Ana de las Heras García de Vinuesa, Juan Ramón Lama Ruiz, Juan M ^a Campos Gómez y Rafael Serrano Bello
Revista	Sevilla Técnica, 40, 26-33 (2012)
Título	PROPUESTA DE MARCO DE TRABAJO PARA LA EVALUACIÓN DE LA SOSTENIBILIDAD DE PRODUCTOS DESDE EL PARADIGMA DE LA ECONOMÍA CIRCULAR BASADA EN INDUSTRIA 4.0 (PARTE 1)
Autores	ANA DE LAS HERAS GARCÍA DE VINUESA, FRANCISCO AGUAYO GONZÁLEZ, ANTONIO CÓRDOBA ROLDÁN
Revista	DYNA INGENIERÍA E INDUSTRIA, 93, 360-364 (2018)

Doctorando: VICENTE LÓPEZ PENA	
Título	La evaluación en las materias Gráfico Visual de la Universidad de Santiago
Autores	Vicente López Pena, Andrés López Chao y Vicente López Chao
Revista	Revista de Estudios e Investigación en Psicología y Educación, Vol. Extraordinario nº10, 40-44 (2015)
Título	Analysis of Teaching Methods in Graphic Design in the Galician University System (GUS)in Spain
Autores	Vicente López Pena, Vicente A. López-Chao y Andrea M. L-Chao
Revista	The Anthropologist Journal, 25:3 (2016)
Páginas	214-219

Doctorando/a: CASADEMONT LANZAT, PAU	
Título	Hybridization of supercritical water oxidation and gasification processes at pilot plant scale.
Autores	García-Jarana, M. B., Casademont, P., Sánchez-Oneto, J., Portela, J. R., & Martínez de la Ossa, E. J. (2022).
Revista	Journal of Supercritical Fluids, 186 (2022)
DOI	https://doi.org/10.1016/J.SUPFLU.2022.105609
Título	Hydrogen production by supercritical water gasification of black liquor: Use of high temperatures and short residence times in a continuous reactor
Autores	Casademont, Sánchez-Oneto, Scandelai, Cardozo-Filho, & Portela.
Revista	Journal of Supercritical Fluids, 159 (2020)
DOI	. https://doi.org/10.1016/J.SUPFLU.2020.104772
Título	Feeding of Scorpaena porcus (Scorpaenidae) in intertidal rock pools in the Gulf of Cadiz (NE Atlantic).
Autores	Compaire, J. C., Casademont, P., Cabrera, R., Gómez-Cama, C., & Soriguer, M. C.
Revista	Journal of the Marine Biological Association of the United Kingdom, 98(4), 845-853 (2018)
DOI	https://doi.org/10.1017/S0025315417000030
Título	Gasification of olive oil mill waste by supercritical water in a continuous reactor
Autores	Casademont, Cardozo-Filho, Meurer, Sánchez-Oneto, & Portela. (2018).
Revista	Journal of Supercritical Fluids, 142, 10-21 (2018)
DOI	https://doi.org/10.1016/J.SUPFLU.2018.06.001
Título	Supercritical water gasification: A patents review [Review of Supercritical water gasification: A patents review]. .
Autores	Casademont, P., Garcia-Jarana, M. B., Sanchez-Oneto, J., Portela, J. R., & De La Ossa, E. J.M.
Revista	Reviews in Chemical Engineering, 33(3), 237-261 (2017)
DOI	https://doi.org/10.1515/REVCE-2016-0020

Doctorando/a: BOTANA GALVÍN, MARTA	
Título	Adhesive behaviour of carbon fibre reinforced plastic panels manufactured using woven and unidirectional tape after ultraviolet laser surface treatment.
Autores	Botana-Galvín, M., Blanco, G., González-Rovira, L., Rodríguez, M. A., & Botana, F. J.
Revista	Journal of Composite Materials, 52(7), 853-865 (2018)
DOI	https://doi.org/10.1177/0021998317718614
Título	Sliding wear behavior of UNS R56400 titanium alloy samples thermally oxidized by laser.
Autores	Martinez, J. M. V., Pedemonte, F. J. B., Galvin, M. B., Salguero Gomez, J., & Barcena, M. M.
Revista	Materials, 10(7), 830 (2017)
DOI	https://doi.org/10.3390/MA10070830

Doctorando/a: EGEEA CORBACHO, ÁGATA	
Título	Removal of emerging contaminants from wastewater through pilot plants using intermittent sand/coke filters for its subsequent reuse
Autores	Agata Egea-Corbacho, Santiago Gutiérrez, José María Quiroga
Revista	Science of The Total Environment, Volume 646, Pages 1232-1240 (2019)
DOI	https://doi.org/10.1016/j.scitotenv.2018.07.399
Título	Removal of emerging contaminants from wastewater using nanofiltration for its subsequent reuse: Full-scale pilot plant.
Autores	Egea-Corbacho, A., Gutiérrez Ruiz, S., & Quiroga Alonso, J. M.
Año	2019
Revista	Journal of Cleaner Production, 214, 514-523.
DOI	https://doi.org/10.1016/J.JCLEPRO.2018.12.297
Título	Effect of seawater intrusion using real wastewater on an attached biomass system operating a nitrogen and phosphorus removal process. J
Autores	Egea-Corbacho, Romero-Pareja, Aragón Cruz, Pavón, & Coello.
Año	2021
Revista	Journal of Environmental Chemical Engineering, 9(1).
DOI	https://doi.org/10.1016/J.JECE.2020.104927

Doctorando/a: Alina Mihaela Petrovici	
Título	OPTIMIZATION OF SOME ALTERNATIVES TO NOISE BARRIERS AS NOISE MITIGATION MEASURES ON MAJOR ROADS IN EUROPE. CASE STUDY OF A HIGHWAY IN SPAIN
Autores	Alina Mihaela Petrovici , Jose Luis Cueto, Ricardo Gey, Florin Nedeff, Ricardo Hernandez, Claudia Tomozei, Emilian Mosnegutu
Revista	Environmental Engineering and Management Journal, July 2016, Vol.15, No. 7, 1617-1628

Doctorando/a: Mihaela-Elena Dascalu	
Título	CHARACTERIZATION STUDIES OF A NEW CERAMIC NANOFILTRATION MEMBRANE WITH FOULING RESISTANT PROPERTIES FOR EFFICIENT WATER TREATMENT
Autores	Mihaela-Elena Dascalu , David Amaya Vías, Valentin Nedeff, Juan Antonio López-Ramírez
Revista	Environmental Engineering and Management Journal, July 2016, Vol.15, No. 7, 1629-1634
DOI	

Doctorando/a: VALERGA PUERTA, ANA PILAR	
Título	Reverse Engineering based Methodology for Modelling Cutting Tools
Autores	A.P. Valerga, M. Batista, R. Bienvenido , S.R. Fernández-Vidal , C. Wendtb, M. Marcos
Revista	Procedia Engineering 132 (2015) 1144 – 1151
DOI	doi: 10.1016/j.proeng.2015.12.607
Título	Preliminary design and analysis of tensile test samples developed by Additive Manufacturing
Autores	C.Wendt, M. Batista , E.Moreno, A.P. Valerga , S.R. Fernández-Vidal , O. Droste , M. Marcos
Revista	Procedia Engineering 132 (2015) 132 – 139
DOI	Doi:10.1016/j.proeng.2015.12.489
Título	Reverse Engineering Based Methodology for Redesigning Contour Milling Tools
Autores	A. P. Valerga, M. Batista, J. Salguero, A. Gomez-Parra, M. Marcos
Revista	World Journal of Engineering and Technology, 2016, 4, 206-212
DOI	http://dx.doi.org/10.4236/wjet.2016.43D025

Doctorando: ROBIN MUELLER BADY	
Título	An evolutionary hybrid search heuristic for monitor placement in communication networks
Autores	Robin Mueller-Bady · Martin Kappes · Inmaculada Medina-Bulo· Francisco Palomo-Lozano
Revista	J Heuristics 25, 861–899 (2019)
DOI	https://doi.org/10.1007/s10732-019-09414-z
Doctorando/a: VERÓNICA RUIZ ORTIZ	
Título	Time-lapse photography for monitoring reservoir leakages (Montejaque dam, Andalusia, southern Spain)
Autores	Santiago García-López, Verónica Ruiz-Ortiz and Juan José Muñoz-Pérez
Revista	Hydrology Research 49.1 2018
DOI	doi: 10.2166/nh.2017.256
Título	Contribution of the UAS to the determination of the water budget in a coastal wetland: a case study in the natural park of the Bay of Cádiz (SW Spain)
Autores	Santiago García-López, V. Ruiz-Ortiz, Luis Barbero and A. Sánchez-Bellón
Revista	EUROPEAN JOURNAL OF REMOTE SENSING 2018, VOL. 51, NO. 1, 965–977
DOI	https://doi.org/10.1080/22797254.2018.1522602
Doctorando/a: Makrina Artemis Chairpoulou	
Título	Biogenic calcite particles from microalgae—Coccoliths as a potential raw material
Autores	Ioanna Jakob, Makrina Artemis Chairpoulou, Marijan Vucak, Clemens Posten, Ulrich Teipel
Revista	Eng. Life Sci. 2016, 0, 1–8
DOI	DOI: 10.1002/elsc.201600183
Título	Formation and Separation of Particles from <i>Emiliana huxleyi</i>
Autores	Makrina Artemis Chairpoulou, Clara Pereyra, Ulrich Teipel
Revista	Chem. Eng. Technol., 41: 1551-1558 (2018)
DOI	https://doi.org/10.1002/ceat.201700594

Doctorando/a: Alejandro M. Martín Gómez	
Título	Smart eco-industrial parks: A circular economy implementation based on industrial metabolism
Autores	Alejandro M. Martín Gómez, Francisco Aguayo González, Mariano Marcos Bárcena
Revista	Resources, Conservation and Recycling, Volume 135, 2018, Pages 58-69,
DOI	https://doi.org/10.1016/j.resconrec.2017.08.007 .
Título	A holonic framework for managing the sustainable supply chain in emerging economies with smart connected metabolism
Autores	Alejandro Martín-Gómez*, Francisco Aguayo-González, Amalia Luque
Revista	Resources, Conservation and Recycling, Volume 141, 2019, Pages 219-232
DOI	https://doi.org/10.1016/j.resconrec.2018.10.035 .
Doctoranda: IRENE DEL SOL ILLANA	
Título	Analysis of the effects of tool wear on dry helical milling of Ti6Al4V alloy
Autores	S.R. Fernández-Vidal, P. Mayuet, A. Rivero, J. Salguero, I. del Sola, M. Marcos
Revista	Procedia Engineering 132 (2015) 593 – 599
DOI	doi: 10.1016/j.proeng.2015.12.536
Título	A single students' experience for visualizing completely a semester subject
Autores	A. Gómez-Parra, J. Salguero, M. Batista, P. Mayuet, M. Álvarez, S.R. Fernández-Vidal, F. Puerta, I. Del Sol, M. Marcos
Revista	Materials Science Forum, 2016, Vol. 853, pp 1-6
DOI	https://doi.org/10.4028/www.scientific.net/MSF.853.1
Título	Tribological performance of ionic liquids as additives of water-based cutting fluids
Autores	I. Del Sol, A.J. Gámez, A. Rivero, P. Iglesias
Revista	Wear, Volumes 426–427, Part A, 2019, Pages 845-852
DOI	https://doi.org/10.1016/j.wear.2019.01.109 .
Título	Thin-Wall Machining of Light Alloys: A Review of Models and Industrial Approaches
Autores	Irene Del Sol , Asuncion Rivero, Luis Norberto López de Lacalle and Antonio Juan Gamez
Revista	Materials 2019, 12, 2012
DOI	doi:10.3390/ma12122012

Título	Effects of Machining Parameters on the Quality in Machining of Aluminium Alloys Thin Plates
Autores	Irene Del Sol, Asuncion Rivero and Antonio J. Gamez
Revista	Metals 2019, 9, 927
DOI	doi:10.3390/met9090927
Título	CAPACITATION OF FLEXIBLES FIXTURES FOR ITS USE IN HIGH QUALITY MACHINING PROCESSES: AN APPLICATION CASE OF THE INDUSTRY 4.0 PARADIGM
Autores	Antonio Rubio-Mateos, Asun Rivero-Rastrero, Irene Del Sol-Illana, Eneko Ukar-Arrien, Aitzol Lamikiz-Mentxaka
Revista	Revista DYNA, 93(6), 608-612.

Doctorando: DARWIN PATIÑO-PÉREZ	
Título	Diseño óptimo de un recipiente a presión toroidal de material compuesto, para vehículos a gas (GNC)
Autores	Darwin Patiño-Pérez y Alfonso Corz-Rodríguez
Revista	Revista Dyna, 94, 546-553, 2019
DOI	DOI: http://dx.doi.org/10.6036/9096

Doctoranda: LUCÍA RODRÍGUEZ PARADA	
Título	Modelo de Análisis de prototipos flexibles para evaluación y aprobación de propuestas de diseño
Autores	Lucía Rodríguez- Parada, Luis Romero y Manuel Domínguez
Revista	Dyna Ingeniería. 2016, p.502-506 Vol.91 nº 5
DOI	DOI: http://dx.doi.org/10.6036/7812

Título	Digitalización de alimentos frescos mediante escaneado 3D para el diseño de envases personalizados
Autores	Lucía Rodríguez-Parada, Miguel-Ángel Pardo-Vicente y Pedro-Francisco Mayuet-Ares
Revista	Dyna Ingeniería e Industria. 2018. 93(6). 681-688
DOI	DOI: http://dx.doi.org/10.6036/8784

Título	Custom Design of Packaging through Advanced Technologies: A Case Study Applied to Apples
Autores	Lucía Rodríguez-Parada, Pedro F. Mayuet and Antonio J. Gámez
Revista	Materials 2019, 12, 467

DOI	doi:10.3390/ma12030467
Título	Evaluation of Reliefs' Properties on Design of Thermoformed Packaging Using Fused Deposition Modelling Moulds.
Autores	Lucía Rodríguez-Parada, Pedro F. Mayuet and Antonio J. Gámez
Revista	Materials 2019, 12, 478
DOI	doi:10.3390/ma12030478
Doctorando: JOSÉ CARLOS VERA JIMÉNEZ	
Título	Evaluation of the police operational tactical procedures for reducing officer injuries resulting from physical interventions in problematic arrests. The case of the Municipal Police of Cádiz (Spain).
Autores	Vera Jiménez, J. C., Fernandez, F., Ayuso, J., Lorente Acosta, J. A.
Revista	International Journal of Occupational Medicine and Environmental Health 2020;33(1):35–43
DOI	doi.org/10.13075/ijomeh.1896.01422
Doctorando: LUIS GARCÍA BARRACHINA	
Título	A forming time estimator of superplastic free bulge tests based on dimensional analysis
Autores	L. García-Barrachina & A. J. Gámez
Revista	International Journal of Material Forming, Volume 14, pages 499–506, (2021)
DOI	https://doi.org/10.1007/s12289-019-01527-x
Doctorando: OTMAN BAZTA	
Título	Influence of yttrium doping on the structural, morphological and optical properties of nanostructured ZnO thin films grown by spray pyrolysis
Autores	O. Bazta, A. Urbieto, J. Piqueras, P. Fernández, M. Addou, J.J. Calvino, A.B. Hungría
Revista	Ceramics International, Volume 45, Issue 6, 2019, Pages 6842-6852
DOI	https://doi.org/10.1016/j.ceramint.2018.12.178
Título	Enhanced UV emission of Li–Y co-doped ZnO thin films via spray pyrolysis
Autores	O. Bazta, A. Urbieto, J. Piqueras, P. Fernández, M. Addou, J.J. Calvino, A.B. Hungría
Revista	Journal of Alloys and Compounds, Volume 808, 2019, 151710
DOI	https://doi.org/10.1016/j.jallcom.2019.151710

Título	In-Depth Structural and Optical Analysis of Cemodified ZnO Nanopowders with Enhanced Photocatalytic Activity Prepared by Microwave Assisted Hydrothermal Method
Autores	Otman Bazta , Ana Urbieta, Susana Trasobares, Javier Piqueras, Paloma Fernández, Mohammed Addou, Jose Juan Calvino and Ana Belén Hungría
Revista	Catalysts 2020, 10, 551
DOI	doi:10.3390/catal10050551
Doctoranda: CHRISTIANE WENDT	
Título	Processing and Quality Evaluation of Additive Manufacturing Monolayer Specimens
Autores	Christiane Wendt, Severo Raúl Fernández-Vidal, Álvaro Gómez-Parra, Moisés Batista and Mariano Marcos
Revista	Advances in Materials Science and Engineering Volume 2016, Article ID 5780693, 8 pages
DOI	http://dx.doi.org/10.1155/2016/5780693
Título	Preliminary design and analysis of tensile test samples developed by Additive Manufacturing
Autores	C.Wendt, M. Batista , E.Moreno , A.P. Valerga, S.R. Fernández-Vidal, O. Droste , M. Marcos
Revista	Procedia Engineering 132 (2015) 132 – 139
DOI	doi: 10.1016/j.proeng.2015.12.489
Título	Procedia Engineering 132 (2015) 1144 – 1151
Autores	A.P. Valerga, M. Batista , R. Bienvenido , S.R. Fernández-Vidal , C. Wendt , M. Marcos
Revista	Procedia Engineering 132 (2015) 1144 – 1151
DOI	doi: 10.1016/j.proeng.2015.12.607
Título	FEM based evaluation of Fused Layer Modelling monolayers in tensile testing
Autores	C. Wendt, A.P. Valerga, O. Droste, M. Batista, M. Marcos
Revista	Procedia Manufacturing 13 (2017) 916–923
DOI	https://doi.org/10.1016/j.promfg.2017.09.160 .

Doctorando: DAVID AMAYA VÍAS	
Título	Comparative studies of different membrane distillation configurations and membranes for potential use on board cruise vessels
Autores	David Amaya-Vías, Enrique Nebot, Juan A. López-Ramírez*
Revista	Desalination, Volume 429, 2018, Pages 44-51
DOI	https://doi.org/10.1016/j.desal.2017.12.008 .
Título	Metals removal from acid mine drainage (Tinto River, SW Spain) by water gap and air gap membrane distillation
Autores	David Amaya-Vías, Laurentiu Tataru, Belén Herce-Sesa, José A. López-López, Juan A. López-Ramírez
Revista	Journal of Membrane Science, Volume 582, 2019, Pages 20-29
DOI	https://doi.org/10.1016/j.memsci.2019.03.081 .
Título	Diffusion behavior of humic acid during desalination with air gap and water gap membrane distillation
Autores	David Amaya-Vías, Juan A. López-Ramírez, Stephen Gray, Jianhua Zhang, Mikel Duke
Revista	Water Research, Volume 158, 2019, Pages 182-192
DOI	https://doi.org/10.1016/j.watres.2019.03.055 .
Título	Techno-Economic Assessment of Air and Water Gap Membrane Distillation for Seawater Desalination under Different Heat Source Scenarios
Autores	David Amaya-Vías and Juan Antonio López-Ramírez
Revista	Water 2019, 11, 2117
DOI	doi:10.3390/w11102117
Doctorando: FERMIN BAÑÓN GARCÍA	
Título	Surface Quality and Free Energy Evaluation of s275 Steel by Shot Blasting, Abrasive Water Jet Texturing and Laser Surface Texturing
Autores	Fermin Bañón, Alejandro Sambruno, Moises Batista, Bartolome Simonet and Jorge Salguero
Revista	Metals 2020, 10, 290;
DOI	doi:10.3390/met10020290
Título	Study of the surface quality of carbon fiber– reinforced thermoplastic matrix composite (CFRTP) machined by abrasive water jet (AWJM)
Autores	Fermin Bañón, Alejandro Sambruno, Moises Batista, Bartolome Simonet & Jorge Salguero

Revista	Int J Adv Manuf Technol 107, 3299–3313 (2020).
DOI	DOI 10.1007/s00170-020-05215-y
Título	On the Surface Quality of CFRTP/Steel Hybrid Structures Machined by AWJM
Autores	Fermin Bañon , Bartolome Simonet, Alejandro Sambruno, Moises Batista and Jorge Salguero
Revista	Metals 2020, 10, 983
DOI	doi:10.3390/met10070983
Doctorando: JUAN LUIS BEIRA JIMÉNEZ	
Título	Noise level in neonatal incubators: A comparative study of three models
Autores	F. Fernández Zacarías, J.L. Beira Jiménez, P.J. Bustillo Velázquez-Gaztelu, R. Hernández Molina, Simón Lubián López
Revista	International Journal of Pediatric Otorhinolaryngology (2018)
DOI	Doi: 10.1016/j.ijporl.2018.02.013.
Doctoranda: SUSANA SUAREZ FERNANDEZ DE MIRANDA	
Título	Life Cycle Engineering 4.0: A Proposal to Conceive Manufacturing Systems for Industry 4.0 Centred on the Human Factor (DfHFin4.0)
Autores	Susana Suarez-Fernandez de Miranda, Francisco Aguayo-González, Jorge Salguero-Gómez and María Jesús Ávila-Gutiérrez
Revista	Appl. Sci. 2020, 10, 4442
DOI	doi:10.3390/app10134442
Doctoranda: MAGDALENA RAMÍREZ PEÑA	
Título	Achieving a sustainable shipbuilding supply chain under I4.0 perspective
Autores	Magdalena Ramirez-Peña, Alejandro J. Sánchez Sotano, Víctor Pérez-Fernandez, Francisco J. Abad, Moises Batista,
Revista	Journal of Cleaner Production, Volume 244, 2020, 118789
DOI	https://doi.org/10.1016/j.jclepro.2019.118789
Título	Shipbuilding 4.0 Index Approaching Supply Chain
Autores	Magdalena Ramirez-Peña, Francisco J. Abad Fraga, Alejandro J. Sánchez Sotano and Moises Batista
Revista	Materials 2019, 12, 4129
DOI	doi:10.3390/ma12244129

Título	Assessing Sustainability in the Shipbuilding Supply Chain 4.0: A Systematic Review
Autores	Magdalena Ramirez-Peña, Francisco J. Abad Fraga, Jorge Salguero and Moises Batista
Revista	Sustainability 2020, 12, 6373
DOI	doi:10.3390/su12166373
Doctorando: RAFAEL GUARDEÑO RAMÍREZ	
Título	AutoTuning Environment for Static Obstacle Avoidance Methods Applied to USVs
Autores	Rafael Guardedeño, Manuel J. López, Jesús Sánchez and Agustín Consegiere
Revista	J. Mar. Sci. Eng. 2020, 8, 300
DOI	doi:10.3390/jmse8050300
Título	A Robust Reactive Static Obstacle Avoidance System for Surface Marine Vehicles
Autores	Rafael Guardedeño, M.J. López, J. Sánchez, A. González and A. Consegiere
Revista	Sensors 2020, 20, 6262
DOI	doi:10.3390/s20216262
Doctorando: MIGUEL ÁNGEL PARDO VICENTE	
Título	Haptic Hybrid Prototyping (HHP): An AR Application for Texture Evaluation with Semantic Content in Product Design
Autores	Miguel-Ángel Pardo-Vicente, Lucía Rodríguez-Parada, Pedro F. Mayuet-Ares and Francisco Aguayo-González
Revista	Sensors 2020, 20, 6262
DOI	doi:10.3390/s20216262
Doctorando: M. D. HRAIZ	
Título	Optimal PV Size and Location to Reduce Active Power Losses While Achieving Very High Penetration Level With Improvement in Voltage Profile Using Modified Jaya Algorithm
Autores	M. D. Hraiz, J. A. M. García, R. Jiménez Castañeda and H. Muhsen
Revista	IEEE Journal of Photovoltaics, vol. 10, no. 4, pp. 1166-1174, July 2020
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Doctorando: JAVIER MEJÍAS LÓPEZ	
Título	The influence of the waterjet propulsion system on the ships' energy consumption and emissions inventories
Autores	Vanesa Durán-Grados, Javier Mejías, Liliya Musina, Juan Moreno-Gutiérrez,
Revista	Science of The Total Environment, Volumes 631–632, 2018, Pages 496-509
DOI	https://doi.org/10.1016/j.scitotenv.2018.02.291 .
Doctorando: CRISTINA CHURIAQUE	
Título	Laser Hybrid Butt Welding of Large Thickness Naval Steel
Autores	Cristina Churiaque, Mariane Chludzinski, Manuel Porrua-Lara, Antonio Dominguez-Abecia, Francisco Abad-Fraga and Jose Maria Sánchez-Amaya
Revista	Metals 2019, 9, 100
DOI	doi:10.3390/met9010100
Título	The Effects of HLAParameters for One Side T-Joints in 15 mm Thickness Naval Steel
Autores	Cristina Churiaque, Jose Maria Sánchez-Amaya, Manuel Porrúa-Lara, Andrey Gumenyuk and Michael Rethmeier
Revista	Metals 2021, 11, 600.
DOI	https://doi.org/10.3390/met11040600
Título	Improvements of hybrid laser arc welding for shipbuilding T-joints with 2F position of 8 mm thick steel
Autores	C. Churiaque a, J.M. Sánchez-Amaya, "O. Üstünda, M. Porrua-Lara, A. Gumenyuk, M. Rethmeier
Revista	Optics & Laser Technology 143 (2021) 107284
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Doctorando: IGNACIO DÍAZ CANO	
Título	Online programming system for robotic fillet welding in Industry 4.0
Autores	Diaz-Cano, I., Quintana, F.M., Lopez-Fuster, M., Badesa, F.-J., Galindo, P.L. and Morgado-Estevez, A.
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Doctorando: FRANCISCO JAVIER PUERTA-MORALES	
Título	Study of the Influence of Helical Milling Parameters on the Quality of Holes in the UNS R56400 Alloy
Autores	Francisco Javier Puerta-Morales *, Jorge Salguero Gomez and Severo Raul Fernandez-Vidal
Revista	Appl. Sci. 2020, 10, 845
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Doctorando: JESÚS CAÑAS FERNÁNDEZ	
Título	Alumina bandgap and dielectric functions of diamond MOS by STEM-VEELS
Autores	J. Canas, J.C: Pinero, F.Lloret, M.Gutierrez, D.Araujo, J. Pernot,
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Autores	J. Canas, G. Alba , D. Leinen , F. Lloret , M. Gutierrez , D. Eon , J. Pernot , E. Gheeraert , D. Araujo
Revista	Applied Surface Science, Vol 535, 2021, 146301,
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Título	Normally-OFF Diamond Reverse Blocking MESFET
Autores	J. Canas, A. C. Pakpour-Tabrizi, T. Trajkovic, F. Udrea, D. Eon, E. Gheeraert, R. B. Jackman.
Revista	IEEE Transactions on Electron Devices, vol. 68, no. 12, pp. 6279-6285, Dec. 2021,
Título	High quality SiO ₂ /diamond interface in O-terminated p-type diamond MOS capacitors
Autores	J. Canas, C. Dussarrat, T. Teramoto, C. Masante, M. Gutierrez, and E. Gheeraert.
Revista	Applied Physics Letters, Volume 121, 2022, 072101
Título	High quality SiO ₂ /O-terminated diamond interface: Band-gap, band-offset and interfacial chemistry
Autores	J. Canas, D.F. Fernandez, A. Zakshter, C. Dussarrat, T. Teramoto, M. Gutierrez, and E. Gheeraert.
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Doctoranda: IRENE COLLADO GARCÍA	
Título	Characterisation of High Temperature Oxidation Phenomena during AISI 430 Stainless Steel Manufacturing under a Controlled H2 Atmosphere for Bright Annealing
Autores	Irene Collado García, Andrés Núñez Galindo, Juan F. Almagro Bello, Juan M. González Leal and Javier F. Botana Pedemonte
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Doctoranda: BÁRBARA VÁZQUEZ ROMERO	
Título	Techno-economic analysis of microalgae production for aquafeed in Norway,
Autores	Bárbara Vázquez-Romero, José Antonio Perales, Jeroen H. de Vree, Hanna Böpple, Pia Steinrücken, Maria J. Barbosa, Dorinde M.M. Kleinegris, Jesús Ruiz
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Título	Techno-economic assessment of microalgae production, harvesting and drying for food, feed, cosmetics, and agriculture
Autores	Bárbara Vázquez-Romero, José Antonio Perales, Hugo Pereira, Maria Barbosa, Jesús Ruiz
Revista	Science of The Total Environment, Volume 837, 2022, 155742
DOI	https://doi.org/10.1016/j.scitotenv.2022.155742 .
Doctorando: ALEJANDRO SAMBRUNO LADRÓN DE GUEVARA	
Título	Kerf Taper Defect Minimization Based on Abrasive Waterjet Machining of Low Thickness Thermoplastic Carbon Fiber Composites C/TPU
Autores	Alejandro Sambruno, Fermin Bañon, Jorge Salguero, Bartolome Simonet and Moises Batista
Revista	Materials 2019, 12, 4192
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Doctorando: MIGUEL ÁLVAREZ ALCÓN	
Título	Multiple Sensor Monitoring of CFRP Drilling to Define Cutting Parameters Sensitivity on Surface Roughness, Cylindricity and Diameter
Autores	Miguel Álvarez-Alcón, Luis Norberto López de Lacalle and Francisco Fernández-Zacarías
Revista	Materials 2020, 13, 2796
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Doctoranda: AYDA SAKALI	
Título	A new protocol to assess the microplastics in sewage sludge
Autores	Ayda Sakali, Dolores Coello, Anouar Haïlaf, Agata Egea-Corbacho, Gemma Albendín, Juana Arellano, Jamal Brigui, José María Quiroga, Rocío Rodríguez-Barroso
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Autores	Ayda Sakali, Dolores Coello, Jamal Brigui, Gemma Albendín, Juana Arellano, José María Quiroga, Rocío Rodríguez-Barroso
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Doctorando: ANTHONY LARROQUE	
Título	Cylinder drag minimization through wall actuation: A Bayesian Optimization approach
Autores	Anthony Larroque, Miguel Fosas de Pando, Luis Lafuente
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Doctorando: FRANCISCO JAVIER RUIZ JORGE	
Título	Effect of Fast Heating and Cooling in the Hydrothermal Synthesis on LiFePO ₄ Microparticles
Autores	F. Ruiz-Jorge, A. Benítez, S. Fernandez-García, J. Sanchez-Oneto, and J. R. Portela
Revista	Ind. Eng. Chem. Res. 2020, 59, 19, 9318–9327
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Título	Synthesis of Micro- and Nanoparticles in Sub- and Supercritical Water: From the Laboratory to Larger Scales
Autores	F. Ruiz-Jorge, J. R. Portela, J. Sánchez-Oneto and E. J. Martínez de la Ossa
Revista	Appl. Sci. 2020, 10, 5508
DOI	https://doi:10.3390/app10165508
Título	Effect of the Heating Rate to Prevent the Generation of Iron Oxides during the Hydrothermal Synthesis of LiFePO ₄
Autores	Francisco Ruiz-Jorge, Almudena Benítez, M. Belén García-Jarana, Jezabel Sánchez-Oneto, Juan R. Portela and Enrique J. Martínez de la Ossa
Revista	Nanomaterials 2021, 11, 2412.
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Doctoranda: MARTA ORTEGA IGUÑA	
Título	Mechanical behaviour of double side high performance PSA adhesive applied to painted naval structures
Autores	M. Ortega-Iguña, M. Chludzinski, C. Churiaque, R.E. Dos Santos, M. Porrúa-Lara, F. Abad-Fraga, J.M. Sánchez-Amaya
Revista	Polymer Testing, Volume 93, 2021, 106894
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Título	Comparative Mechanical Study of Pressure Sensitive Adhesives over Aluminium Substrates for Industrial Applications
Autores	Marta Ortega-Iguña, Mariane Chludzinski and José María Sánchez-Amaya
Revista	Polymers 2022, 14, 4783.
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Título	Use of seawater to improve the static strength and fatigue life of bonded coated steel joints
Autores	M. Ortega-Iguña, A. Akhavan-Safar, R.C.J. Carbas, J.M. Sánchez-Amaya, M. Chludzinski, L.F.M. da Silva

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Doctoranda: LETICIA CABRERA CORREA	
Título	Pitting and intergranular corrosion of Scalmalloy® aluminium alloy additively manufactured by Selective Laser Melting (SLM)
Autores	Leticia Cabrera-Correa, Leandro González-Rovira, Juan de Dios López-Castro, F. Javier Botana
Revista	Corrosion Science, Volume 201, 2022, 110273
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Título	Effect of the heat treatment on the mechanical properties and microstructure of Scalmalloy® manufactured by Selective Laser Melting (SLM) under certified conditions
Autores	Leticia Cabrera-Correa, Leandro González-Rovira, Juan de Dios López-Castro, Miguel Castillo-Rodríguez, F. Javier Botana
Revista	Materials Characterization, Volume 196, 2023, 112549
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Doctorando: SERGIO DE LA ROSA SILVA	
Título	Localized and stress corrosion cracking of sensitized Al-Mg-Sc-Zr alloy manufactured by laser powder bed fusion
Autores	Leticia Cabrera-Correa, Leandro González-Rovira, Adrián Ojeda-López, Juan de Dios López-Castro, F. Javier Botana
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Doctorando: SERGIO DE LA ROSA SILVA	
Título	Influence of 3D-Printed TPU Properties for the Design of Elastic Products
Autores	Lucía Rodríguez-Parada, Sergio de la Rosa and Pedro F. Mayuet
Revista	Polymers 2021, 13, 2519.
DOI	https://doi.org/10.3390/polym13152519
Doctorando: SERGIO DE LA ROSA SILVA	
Título	Design of Customized TPU Lattice Structures for Additive Manufacturing: Influence on the Functional Properties in Elastic Products
Autores	Sergio de la Rosa, Pedro F. Mayuet, José Ramón Méndez Salgueiro and Lucía Rodríguez-Parada
Revista	Polymers 2021, 13, 4341.
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Doctorando: DIEGO ARMANDO VARGAS ROMERO	
Título	Nanoparticles on electric, gas and diesel buses in mass transit buses of Bogotá Colombia
Autores	Diego Vargas a*, Boris Galvis b , Vanesa Durán c , Camilo Bernal d
Revista	TeMA 2 (2023) 367-381
DOI	DOI: 10.6093/1970-9870/9907
Título	Ultrafine Particles on Electric, Gas, and Diesel Buses in the Mass Transit Buses of Bogotá, Colombia
Autores	Diego Armando Vargas Romero and Cristina Vanesa Durán Grados
Revista	Transportation Research Record, 1, 11
DOI	https://doi.org/10.1177/03611981231213081

Doctoranda: MARÍA DEL CARMEN DE CASTRO-CABRERA	
Título	CMBMeTest: Generation of test suites by MBT+CP and Metamorphic Testing
Autores	M. Carmen de Castro-Cabrera, Antonio García-Dominguez and Inmaculada Medina-Bulo
Revista	Electronics 2024, 13(1), 18
DOI	https://doi.org/10.3390/electronics13010018

Doctorando: PABLO LÓPEZ OSORIO	
Título	Neuromorphic adaptive spiking CPG towards bio-inspired locomotion
Autores	Pablo Lopez-Osorio, Alberto Patiño-Saucedo, Juan P. Dominguez-Morales, Horacio Rostro-Gonzalez, Fernando Perez-Peña
Revista	Neurocomputing, Volume 502, 2022, Pages 57-70
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Doctorando: DOMINGO VILLERO CASTRO	
Título	Comparison of Traditional Physical Intervention Techniques vs. Operational Tactical Procedures and Techniques in the Use of Force during Police Arrests
Autores	José C. Vera-Jiménez, Domingo Villero-Carro, Andrés Pastor-Fernandez, James Shippen, Marta Ferreiro-González, José C. Vera-Jurado, José A. Álvarez and Jesús Ayuso
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Título	A Multidisciplinary Vision of the Criminal, Social and Occupational Risk

	Consequences of the Use of Police Force
Autores	Vera-Jiménez, J.C.; Villero-Carro, D.; González-Herrera, L.; Álvarez, J.A.; Ayuso, J.
Revista	<i>Safety</i> 2023, 9, 50.
DOI	https://doi.org/10.3390/safety9030050
Doctorando: JANNIS KRESS	
Título	Fuel saving effect and performance of velocity control for modern combustion-powered scooters
Autores	Jannis Kreß, Jens Rau, Hektor Hebert, Fernando Perez-Peña, Karsten Schmidt, Arturo Morgado-Estévez
Revista	Control Engineering Practice, Volume 145, 2024, 105849
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Doctorando: JOSE ANTONIO VILCHEZ MEMBRILLA	
Título	Optimality for Multioptimization of Continuous Linear Operators
Autores	Cobos-Sánchez, C.; Vilchez-Membrilla, J.A.; Campos-Jiménez, A.; García-Pacheco, F.J.
Revista	<i>Symmetry</i> 2021, 13, 661.
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Doctorando: LUIS JESÚS MUÑOZ MOLINA	
Título	Real-time detection of uncalibrated sensors using neural networks.
Autores	Muñoz-Molina, Luis J., Cazorla-Piñar, Ignacio, Dominguez-Morales, Juan P., Lafuente, Luis and Perez-Peña, Fernando
Revista	<i>Neural Comput & Applic</i> 34, 8227–8239 (2022)
DOI	https://doi.org/10.1007/s00521-021-06865-z

Doctorando: LUKAS SOHLBACH	
Título	A Portable Real-Time Test Bench for Dielectric Elastomer Actuators.
Autores	Sohlbach, L.; Bhatta, S.; Perez-Peña, F.; Schmidt, K
Revista	<i>Machines</i> 2023, 11, 380.
DOI	https://doi.org/10.3390/machines11030380
Título	Modelling and simulation of a commercially available dielectric elastomer actuator
Autores	Lukas Sohlbach, H. Hobbani, C. Blase, F. Perez-Peña and Karsten Schmidt
Revista	Smart Materials and Structures, Volume 33, Number 2
DOI	10.1088/1361-665X/ad1d73