



Departamento de
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Publicaciones - Revistas

Revistas Internacionales

2020

- Saioa Etxebarria Berrizbeitia, Eulalia Jadraque Gago and Tariq Muneer. Empirical Models for the Estimation of Solar Sky-Di use Radiation. A Review and Experimental Analysis. *Energies* 2020, 13, 701; <http://dx.doi.org/10.3390/en13030701>.
- Eulalia Jadraque Gago, Saioa Etxebarria Berrizbeitia, Rosalía Pacheco Torres and Tariq Muneer. Effect of Land Use/Cover Changes on Urban Cool Island Phenomenon in Seville, Spain. *Energies* 2020, 13, 3040. <http://dx.doi.org/10.3390/en13123040>.
- Matjaz Knez, Borut Jereb, Eulalia Jadraque Gago, Joanna Rosak-Szyrocka, Matevz Obrecht. Features influencing policy recommendations for the promotion of zero-emission vehicles in Slovenia, Spain, and Poland. *Clean Technologies and Environmental Policy* <https://doi.org/10.1007/s10098-020-01909-9>.
- Rodríguez-Rojas, M.I.; Huertas-Fernández, F.; Moreno, B.; Martínez, G. Middle-Term Evolution of Efficiency in Permeable Pavements: A Real Case Study in a Mediterranean climate. *Int. J. Environ. Res. Public Health* 2020, 17, 7774.
- Mattinzioli, T; Sol-Sánchez, M.; Martínez, G. & Rubio-Gámez, M. (2020) A Critical Review of Roadway Sustainable Rating Systems. *Sustainable Cities and Society*. DOI: 10.1016/j.scs.2020.102447
- Mattinzioli, T; Sol-Sánchez, M.; Moreno, B.; Alegre, J. & Martínez, G. (2020) Sustainable building rating systems: A critical review for achieving a common consensus, *Critical Reviews in Environmental Science and Technology*, DOI: 10.1016/j.scs.2020.102447 10.1080/10643389.2020.1732781
- Sol-Sánchez, M.; Moreno-Navarro, F.; Saiz, L; Rubio-Gámez, M.C. (2020) Recycling waste rubber particles for the maintenance of different states of railway tracks through a two-step stoneblowing process. *Journal of Cleaner Production*, 244.
- Sol-Sánchez, M.; Moreno-Navarro, F.; Hidalgo, M.E.; Pérez, V.; Rubio-Gámez,

M.C. (2020) Laboratory study on asphalt mixtures for application in port pavements. *Construction and Building Materials*, 235.

- Morea, F.; Sol-Sánchez, M.; Moreno-Navarro, F.; Zerbino, R. (2020) Fatigue behaviour of macrofiber reinforced gap graded asphalt mixtures. *Materials and structures*, 53.
- Sol-Sánchez, M.; Jiménez del Barco Carrión, A.; Hidalgo-Arroyo, A.; Moreno-Navarro, F.; Saiz, L.; Rubio-Gámez, M.C. Viability of producing sustainable asphalt mixtures with crumb rubber bitumen at reduced temperatures. *Construction and Building Materials*, 265.
- François Simon, Aymeric Girard, Martin Krotki, Javier Ordoñez. Modelling and simulation of the wood biomass supply from the sustainable management of natural forests. *Cleaner Production* (2020). doi.org/10.1016/j.jclepro.2020.124487

2019

- Ross Milligan, Saioa Etxebarria, Tariq Muneer and Eulalia Jadraque Gago 4. Driven Performance of Electric Vehicles in Edinburgh and Its Environs. *Energies* 2019, 12, 3074. <http://dx.doi.org/10.3390/en12163074>.
- Shamir Robinson, Savvas Papadopoulos, Eulalia Jadraque Gago and Tariq Muneer. Feasibility Study of Integrating Renewable Energy Generation System in Sark Island to Reduce Energy Generation Cost and CO2 Emissions. *Energies* 2019, 12, 4722; <http://dx.doi.org/10.3390/en12244722>.
- Vidal, R.; Sánchez-Pantoja, N.; Martínez, G. (2019). Life cycle assessment of a residential building with cross-laminated timber structure in Granada-Spain. *Informes de la Construcción*, 71(554): e289. <https://doi.org/10.3989/ic.60982>
- Espartero, F., Martínez, G. and Frías, M. (2019) Observatorio Andaluz de Astronomía. *Revista Mexicana de Astronomía y Astrofísica. RevMexAA (SC)*. 51 (2019) 58-61. DOI: <http://doi.org/10.22201/ia.14052059p.2019.51.12>
- Espartero, F, Frías, M., Martínez, G. and Pérez, A. (2019) The PRO-AM Observatory. *Revista Mexicana de Astronomía y Astrofísica. RevMexAA (SC)*. 51 (2019) 62-65. DOI: <http://doi.org/10.22201/ia.14052059p.2019.51.13>
- Espartero, F, Frías, M., Martínez, G. and Pérez, A. (2019) Autonomous mini observatory for meteor spectrography. *Revista Mexicana de Astronomía y Astrofísica. RevMexAA (SC)*. 51 (2019) 131-134. DOI: <http://doi.org/10.22201/ia.14052059p.2019.51.22>.
- Sol-Sánchez, M.; Moreno-Navarro, F.; Rubio-Gámez, M.C.; Pérez-Mena, V.; Cabanillas, P. (2019) Reuse of Zeolite By-Products Derived from Petroleum Refining for Sustainable Roads. *Advances in Materials Science and Engineering*, 1-10.
- Moreno-Navarro, F.; Tauste, R.; Sol-Sánchez, M.; Rubio-Gámez, M.C. (2019) New approach for characterizing the performance of asphalt binders through the multiple stress creep and recovery test. *Road Materials and Pavement Design*, 20.

- Sol-Sánchez, M.; Moreno-Navarro, F.; Pérez, R.; Rubio-Gámez, M.C. (2019) Defining the process of including sustainable rubber particles under sleepers to improve track behavior and performance. *Journal of cleaner production*, 227, pp. 178-188.
- Brasileiro, L.; Moreno-Navarro, F.; Tauste-Martínez, R.; Sol-Sánchez, M.; Matos, E.; Rubio-Gámez, M.C. (2019) Study of the feasibility of producing modified asphalt bitumens using flakes made from recycled polymers. *Construction and Building materials*, 208, pp. 269-282.
- Khalid Al Shaila, Javier Ordóñez, Mohamed Khayet. Use of an analytical hierarchy process for the selection of adequate desalination technologies for Spain and the Gulf Cooperation Council. *Desalination and Water Treatment* 146 (2019) 98-106. doi: 10.5004/dwt.2019.23596
- M.López-Alonso, M.J. Martínez-Echevarria, L.Garach, A. Galánc, .Ordoñez, F. Agrela. Feasible use of recycled alumina combined with recycled aggregates in road construction. *Construction and Building Materials*. 195 (2019) 249-257. <https://doi.org/10.1016/j.conbuildmat.2018.11.084>
- Acampa, Ordóñez J., Grasso M. Project Sustainability: criteria to be introduced in BIM. *Valori e Valutazioni - Teorie ed Esperienze* 23 (2019), 119-128
- Medina B., Romana M., Ordóñez J. Selection of the best solution in parking infrastructure projects with conflicting criteria from different stakeholders. *Informes de la Construcción*. 71 (2019). <http://informesdelaconstruccion.revistas.csic.es/index.php/informesdelaconstruccion/arti>

2018

- Espartero, F., Martínez, G., Frías, M., Simón, F. & Castro-Tirado, A. (2018) «Autonomous spectrographic system to analyse the main elements of fireballs and meteors» *Earth, Planets and Space*. Volume 70,2, January 2018, Pages 1-7. DOI: <https://doi.org/10.1186/s40623-017-0768-2>
- Rodríguez-Rojas MI, Huertas-Fernández F, Moreno B, Martínez G, Grindlay AL (2018) «A study of the application of permeable pavements as a sustainable technique for the mitigation of soil sealing in cities: A case study in the south of Spain» *Journal of Environmental Management*. Volume 205, 1 January 2018, Pages 151-162. DOI: <https://doi.org/10.1016/j.jenvman.2017.09.075>.
- Sol-Sánchez, M.; Moreno-Navarro, F.; Rubio-Gámez, M.C.; Manzo, N.; Fontseré, V. (2018) Full-scale study of Neoballast section for its application in railway tracks: optimization of track design. *Materials and structures*, pp. 43-51.
- Sol-Sánchez, M.; Fiume, A.; Moreno-Navarro, F.; Rubio-Gámez, M.C. (2018) Analysis of fatigue cracking of warm mix asphalt. Influence of the manufacturing technology. *International Journal of fatigue*, 110, pp. 197-203.
- Ayar, P.; Moreno-Navarro, F.; Sol-Sánchez, M.; Rubio-Gámez, M.C. (2018) Exploring the recovery of fatigue damage in bituminous mixtures: the role of

rest periods. *Materials and Structures*, 51.

- Moreno-Navarro, F.; Sol-Sánchez, M.; García-Travé, G.; Rubio-Gámez, M.C. (2018) Fatigue cracking in asphalt mixtures: the effect of ageing and temperature. *Road materials and pavement design*, 19-3, pp. 561-570
- Moreno-Navarro, F.; Sol-Sánchez, M.; Gámiz, F.; Rubio-Gámez, M.C. (2018) Mechanical and thermal properties of graphene modified asphalt binders. *Construction and Building Materials*, 180, pp. 265-274.
- García-Travé, G.; Tauste, R.; Sol-Sánchez, M.; Moreno-Navarro, F.; Rubio-Gámez, M.C. (2018) Mechanical performance of SMA mixtures manufactured with reclaimed geomembrane modified binders. *Journal of materials in civil engineering*, 30-2.
- Tauste, R.; Moreno-Navarro, F.; Sol-Sánchez, M.; Rubio-Gámez, M.C. (2018) Understanding the bitumen ageing phenomenon: a review. *Construction and Building materials*, 192, pp. 593-609.
- D'Angelo, G.; Sol-Sánchez, M.; Moreno-Navarro, F.; Lo Presti, D.; Thom, N. (2018) Use of bitumen stabilized ballast for improving railway trackbed conventional maintenance. *Geotechnique*, 68-6, pp. 518-527.
- Aymeric Girard, François Simon, Javier Ordóñez. Solar electricity production and taxi electrical vehicle conversion in Chile. *Journal of Cleaner Production* 210 (2018) 1261-1269. <https://doi.org/10.1016/j.jclepro.2018.11.092>
- Simon, F., Ordoñez, J., Girard, A., Parrado, C. (2018). Modelling energy use in residential buildings: How design decisions influence final energy performance in various Chilean climates. *Indoor and Built Environment*. <https://doi.org/10.1177/1420326X18792661>

2017

- Pirozolo, L., Moreno-Navarro, F., Martínez-Montes, G., Rubio-Gámez, M.C. (2017) «Evaluation of bituminous subballast manufactured at low temperatures as an alternative for the construction of more sustainable railway structures». *Materiales de Construcción*. Vol 67, No 327 DOI: <http://dx.doi.org/10.3989/mc.2017.04816>
- Rodríguez-Rojas, M.I.; Cuevas-Arrabal, M.; Moreno, G.; Martínez-Montes, G. (2017) «El cambio de paradigma de la gestión del drenaje urbano desde la perspectiva del planeamiento. Una propuesta metodológica.» *Boletín de la Asociación de Geógrafos Españoles*. Volumen 75. DOI: <http://dx.doi.org/10.21138/bage.2492>
- Sol, M., Moreno-Navarro, F., Martínez-Montes, G., Rubio-Gámez, M.C. (2017) An alternative sustainable railway maintenance technique based on the use of rubber particles. *Journal of Cleaner Production*. Volume 142, Part 4. Páginas: 3850–3858. DOI: <https://doi.org/10.1016/j.jclepro.2016.10.077>.
- Rosalía Pacheco-Torres, Julio Roldán, E.J. Gago, Javier Ordóñez. Assessing the

relationship between urban planning options and carbon emissions at the use stage of new urbanized areas: A case study in a warm climate location. *Energy and Buildings* 136 (2017) 73–85. <http://dx.doi.org/10.1016/j.enbuild.2016.11.055>

- J. Roldán-Fontana, R. Pacheco-Torres, E. Jadraque-Gago, J. Ordoñez. Optimization of CO2 emissions in the design phases of urban planning based on geometric characteristics: a case study of a low-density urban area in Spain. *Sustain Sci* (2017) 12:65–85. <http://dx.doi.org/10.1007/s11625-015-0342-4>.
- Sol-Sánchez, M.; Ayar, P.; Moreno-Navarro, F.; Rubio-Gámez, M.C. (2017) Evaluating the mechanical performance of Very Thin Asphalt Overlay (VTAO) as a sustainable rehabilitation strategy in urban pavements. *Materiales de construcción*, 67.
- Moreno-Navarro, F.; Ayar, P.; Sol-Sánchez, M.; Rubio-Gámez, M.C. (2017) Exploring the recovery of fatigue damage in bituminous mixtures at macro-crack level: the influence of temperature, time and external loads. *Road materials and pavement design*.
- Sol-Sánchez, M.; D'Angelo, G. (2017) Review of the design and maintenance technologies used to decelerate the deterioration of ballasted railway tracks. *Construction and Building Materials*, 157, pp. 402-415.
- Moreno-Navarro, F.; Sol-Sánchez, M.; Rubio-Gámez, M.C. (2017) Structural analysis of polymer modified bituminous materials in the rehabilitation of light-medium traffic volume roads. *Construction and building materials*, 157, pp. 621-631.
- Sol-Sánchez, M.; Moreno-Navarro, F.; Rubio-Gámez, M.C. (2017) Study of surfactant additives for the manufacture of Warm Mix Asphalt: from laboratory design to asphalt plant manufacture. *Applied science*, 7-745.

2016

- Rodríguez-Rojas M.I., Huertas-Fernández F., Martínez G., Moreno B. (2016): «Indicators to evaluate Water Sensitive Urban Design in Urban Planning». *WIT Transactions on The Built Environment*, 210. 775-784. ISSN. 1743-3541 (online) DOI: <https://doi.org/10.2495/SDP160651> SJR (2015): 0.14, Posición 209/280 (1).
- Jiménez del Barco-Carrión, A., García-Travé, G., Moreno-Navarro, F., Martínez-Montes, G., Rubio-Gámez, M.C. Comparison of the influence of recycled crumb rubber and polymer concentration on the performance of binders for asphalt mixtures. *Materiales de Construcción*. Nº. 323, 2016. DOI: <https://doi.org/10.3989/mc.2016.08815>.
- Girard, E.J. Gago, J. Ordoñez, T. Muneer. Spain's energy outlook: A review of PV potential and energy export. *Renewable Energy* 86 (2016) 703-715. <http://dx.doi.org/10.1016/j.renene.2015.08.074>.
- A. Martos, R. Pacheco-Torres, J. Ordoñez, E. Jadraque-Gago. Towards successful environmental performance of sustainable cities: Intervening sectors. A review.

- Renewable and Sustainable Energy Reviews 57 (2016) 479–495.
<http://dx.doi.org/10.1016/j.rser.2015.12.095>.
- J. Ordoñez, E.J. Gago, A. Girard. Processes and technologies for the recycling and recovery of spent lithium-ion batteries. Renewable and Sustainable Energy Reviews 60 (2016) 195–205. <http://dx.doi.org/10.1016/j.rser.2015.12.363>.
 - Sol-Sánchez, M.; Pirozzolo, L.; Moreno-Navarro, F.; Rubio-Gámez, M.C. (2016) A study into the mechanical performance of different configurations for the railway track section: A laboratory approach. Engineering structures, 119, pp. 13-23.
 - Sol-Sánchez, M.; Moreno-Navarro, F.; Rubio-Gámez, M.C. (2016) An analysis of the performance of deconstructed tires for use as pads in railroad tracks. Journal of Civil Engineering and Management, 22 (6), pp. 739-746.
 - Sol-Sánchez, M.; Moreno-Navarro, F.; García-Travé, G.; Rubio-Gámez, M.C. (2016) Analysing industrial manufacturing in-plant and in-service performance of asphalt mixtures cleaner technologies. Journal of cleaner production, 121, pp. 56-63.
 - Sol-Sánchez, M.; Moreno-Navarro, F.; Rubio-Gámez, M.C. (2016) Analysis of ballast tamping and stone-blowing processes on railway track behavior: the influence of using USPs. Geotechnique, 66 (6), pp. 481-489.
 - Moreno-Navarro, F.; Sol-Sánchez, M.; Tomás-Fortún, E.; Rubio-Gámez, M.C. (2016) High-modulus asphalt mixtures modified with acrylic fibers for their use in pavements under severe climate conditions. Journal of Cold Regions Engineering, 30 (4), pp. 3850-3858.
 - Sol-Sánchez, M.; Castro, J.; Ureña, C.; Azañon, J.M. (2016) Stabilization of clayey and marly soils using industrial wastes: pH and laser granulometry indicators. Engineering geology, 200, pp. 10-17.
 - García-Travé, G.; Tauste, R.; Sol-Sánchez, M.; Moreno-Navarro, F.; Rubio-Gámez, M.C. (2016) Use of reclaimed geomembranes for modification of mechanical performance of bituminous binders. Journal of materials in civil engineering, 28 (7).
 - F. Simon, J. Ordonez, T.A. Reddy, A. Girard, T. Muneer. Developing multiple regression models from the manufacturer's ground-source heat pump catalogue data, Renewable Energy 95 (2016) 413-421 Doi: <http://dx.doi.org/10.1016/j.renene.2016.04.045>
 - Manuel Carpio, Julio Roldán-Fontana, Rosalía Pacheco-Torres, Javier Ordóñez, Construction waste estimation depending on urban planning options in the design stage of residential buildings, Construction and Building Materials, Volume 113, (2016), Pages 561-570, Doi: <http://dx.doi.org/10.1016/j.conbuildmat.2016.03.061>.

2015

- E.J. Gago, T. Muneer, M. Knez, H. Köster. Natural light controls and guides in buildings. Energy saving for electrical lighting, reduction of cooling load. *Renewable and Sustainable Energy Reviews* 41 (2015) 1-13.
- Aymeric Girard, Eulalia Jadraque Gago, Tariq Muneer, Gustavo Cáceres. Higher ground sources heat pump COP in a residential building through the use of solar thermal collectors. *Renewable Energy* 80 (2015) 26-39.
- T. Muneer, EJ Gago, S. Etxebarria. Monthly-averaged hourly solar diffuse radiation models for world-wide locations. *Future Cities and Environment* (2015) 1:5.
- A. Girard, E.J. Gago, J. Ordóñez, T. Muneer. Spain's energy Outlook: A review of PV potential and energy export. *Renewable Energy* 86 (2015) 703-715.
- J. Roldán-Fontana, R. Pacheco-Torres, E. Jadraque-Gago, J. Ordóñez. Optimization of CO2 emissions in the design phases of urban planning, based on geometric characteristics: a case study of a low-density urban area in Spain. *Sustain Sci* DOI: 10.1007/s11625-015-0342-4. September 2015
- M.D. Martínez Aires, M. López Alonso, E. Jadraque Gago, R. Pacheco-Torres. Technological advances in rebar tying Jobs: a comparative analysis of the associated yields and illnesses. *International Journal of Civil Engineering*, (2015) 13 (2):171-178.
- F. Rojas-Serrano; J. I Pérez; M. A. Gómez. Integrated in-line coagulation-aerated ultrafiltration for drinking-water production: A case study from laboratory to pilot plant. *Journal of environmental science and health part a toxic/hazardous substances & environmental engineering*. Vol.50 (13): 1-10. Agosto 2015
- L. M. Ruiz; P. Rodelas; J. I. Pérez; M. A. Gómez. Sensitivity analyses and simulations of a full-scale experimental membrane bioreactor system using the activated sludge model No. 3 (ASM3). *Journal of Environmental Science and Health Part A Toxic/Hazardous Substances & Environmental Engineering*. Vol. 50 (13): 317-324. Febrero 2015
- F. Rojas-Serrano; R. Alvarez-Arroyo; J. I Pérez; F. Plaza; G. Garralón; M. A Gómez. Ultrafiltration membranes for drinking-water production from low-quality surface water: A case study in Spain. *Membrane Water Treatment*. Vol. 6 (1): 77-94. Enero 2015
- R. Álvarez-Arroyo; F. Rojas-Serrano; G. Garralón; Fidel Plaza; Jo. I. Pérez Pérez; M. Á. Gómez Nieto. Evaluation of drinking water quality produced by ultrafiltration membranes in distribution systems. *Membrane Water Treatment*. DOI: 10.1080/19443994.2014.997295
- Sol-Sánchez, M., Pirozolo, L., Moreno-Navarro, F., Rubio-Gámez, M.C.; "Advanced characterization of bituminous sub-ballast for its application in railway tracks: the influence of temperature", *Journal of Construction and Building Materials*", pp. 2015
- García-Travé, G.; Tauste, R.; Moreno-Navarro, F.; Sol-Sánchez, M.; Rubio-Gámez, M.C. "The use of reclaimed geomembranes for the modification of the mechanical performance of bituminous binders" *Journal of Materials in Civil Engineering*. IN-PRESS
- Sol-Sánchez, M.; Meca-Piernas, R.; Moreno-Navarro, F.; Rubio-Gámez, M.C.; "Reinforced polyethylenepond waste as anti-reflective cracking system in asphalt pavements", *Journal of Materials in Civil Engineering* IN PRESS

- Moreno-Navarro, F.; Sol-Sánchez, M.; Rubio-Gómez, M. C. “Exploring the recovery of fatigue damage in bituminous mixtures: The role of healing” *Road Materials and Pavement Design*, 16, 2015
- Martínez-Echevarría Romero, M. J.; García-Travé, G.; Rubio-Gómez, M. C.; Moreno-Navarro, F.; Pérez Mira, D., “Valorization of vinasse as binder modifier in asphalt mixtures” *Dyna Colombia*(Accepted, In Press), 2015
- Moreno-Navarro, F.; Sol-Sánchez, M.; Rubio-Gómez, M. C. “The effect of polymer modified binders on the long-performance of bituminous mixtures: The influence of temperature” *Materials and Design*, 78, 5-11, 2015
- Moreno-Navarro, F.; Rubio-Gómez, M. C.; Miró, R.; Pérez-Jiménez, F. “The influence of temperature on the fatigue behaviour of bituminous materials for pavement rehabilitation” *Road Materials and Pavement Design*, Vol 16, No S1, pp.300-313, 2015
- Sol-Sánchez, M.; García, G.; Moreno-Navarro, F.; Rubio-Gómez, M. C. “Laboratory study of the long-term climatic deterioration of asphalt mixtures” *Journal of Construction and Building Materials*, 88, 32-40, 2015
- Miró, R.; Martínez, A.; Moreno-Navarro, F.; Rubio-Gómez, M. C. “Effect of ageing and temperature on the fatigue behaviour of bitumens” *Materials and Design*, (Accepted, In Press), 2015
- Moreno-Navarro, F.; Sol-Sánchez, M.; Jimenez del Barco, A.; Rubio-Gómez, M. C. “Analysis of the influence of binder properties on the mechanical response of bituminous mixtures” *International Journal of Pavement Engineering*, (Published on-line), 2015. DOI: 10.1080/10298436.2015.1057138
- Moreno-Navarro, F.; Iglesias, G.; Rubio-Gómez, M. C. “Development of mechano mutable asphalt binders for the construction of smart pavements” *Materials and Design*, 84, 100-109, 2015
- Sol-Sánchez, M.; Moreno-Navarro, F.; Rubio-Gómez, M. C. “The use of elastic elements in railway tracks: A state of the art review” *Journal of Construction and Building Materials*, 75, 2015, pp. 293-305.
- Sol-Sánchez, M.; Thom, N.; Moreno-Navarro, F.; Rubio-Gómez, M. C. ;Airey, G. “A study into the use of crumb rubber in railway ballast” *Journal of Construction and Building Materials*, 75, 2015, pp. 19-24
- Moreno, F.; Pérez, M.; Martín, J.; Sol, M.; Rubio, M. C., “Mechanical performance of asphalt mixes incorporating wasteglass” *The Baltic Journal of Road and Bridge Engineering*, Vilnius: Technika, Vol X, No 3, p. 255-261, 2015
- Rodríguez, M. I.; Cuevas M.M., Huertas F., Martínez G.& Moreno B. (2015): «Indicators to evaluate Water Sensitive Urban Design in Urban Planning». *WIT Transactions on The Built Environment*, 168 (1).
- Pacheco, R; Alonso, M; Martinez, G; Ordóñez, J. (2014) Efficient design of residential buildings geometry to optimize photovoltaic energy generation and energy demand in a warm Mediterranean climate. *Energy Efficiency*. February 2015, Volume 8, Issue 1, pp 65-84
- Martínez-Echevarría, M. J.; Tafur Garro, N. M; Gallardo Zevallos, G. (2015). Implementation of the Mechanistic-Empirical Pavement Design in Northern Peru using a Calibration Coefficient for the International Roughness Index. *Construction and Building Materials* 102.
- López-Alonso, M.; Ibarrondo-Davila, P.; Rubio-Gómez, M.C. (2015). “Safety Cost Management in Construction Companies: A proposal classification” *Informes de*

- la Construcción, 67 (537), art. no. e055,
- Ilbarrondo-Dávila, M.P.; López-Alonso, M.; Rubio, M.C. "Managerial accounting for safety management. The case of a Spanish construction company" *Safety Science*, Vol.79, pp. 116-125, 2015
 - Martínez-Aires, M.D.; Rubio, M.C.; Gibb, A.; "The impact of occupational health and safety regulations on prevention through design in construction projects: Perspectives from Spain and the United Kingdom" *WORK: A Journal of Prevention, Assessment & Rehabilitation*, 2016

2014

- R. Pacheco-Torres, E. Jadraque, J. Roldán-Fontana, J. Ordóñez. Analysis of CO2 emissions in the construction phase of single-family detached houses. *Sustainable Cities and Society* 12 (2014) 63-68.
- T Muneer, S. Etxebarria, EJ Gago. Monthly averaged-hourly solar diffuse radiation model for the UK. *Building Serv. Eng. Res. Technol.* 2014 35:573
- Y Kotak, EJ Gago, P Mohanty, T Muneer. Installation of roof-top solar PV modules and their impact on building cooling load. *Building Serv. Eng. Res. Technol.* 2014 35:613
- M. López-Alonso, E. Jadraque-Gago, A. Galán-Díaz, J. Santamaría-Arias. Environmental aggression and corrosion of reinforcements. A real case. (2014);3 (6):213-220.
- E. Dionisioz; G. Garralón; F. I. Plaza; A. Garralón; J. Pérez; M. A. Gómez. 2014. "Biofilm evolution in the pretreatment line of a reverse osmosis system". *Desalination*. Vol. 338: 33-38. 2014.
- J. Arévalo, L.M. Ruiz, J. Pérez, M.A. Gómez. 2014. "Effect of temperature on membrane bioreactor performance working with high hydraulic and sludge retention time". *Biochemical Engineering Journal*. In Press.
- Gloria Fernandez; J. Pérez; M. A. Gómez. 2014. "Optimization of reactor depth in membrane bioreactors for municipal wastewater treatment". *Journal of Environmental Engineering*. Vol. 88: 42-49. 2014.
- L.M. Ruiz, J. Pérez, M.A. Gómez. 2014. "Comparison of five wastewater COD fractionation methods for dynamic simulation of MBR systems". *Journal of Environmental Science and Health*. Vol. 49, pp. 1553-1563.
- Rosalía Pacheco-Torres, Mónica López-Alonso, Germán Martínez, Javier Ordóñez. 2014. "Efficient design of residential buildings geometry to optimize photovoltaic energy generation and energy demand in a warm Mediterranean climate". *Energy Efficiency*. Vol 7. Issues 3.
- R. Pacheco-Torres, E. Jadraque, J. Roldán-Fontana, J. Ordóñez. 2014. "Analysis of CO2 emissions in the construction phase of single-family detached house". *Sustainable Cities and Society*. Vol. 12, pp 63-68.
- Pérez-Martínez, M.; Moreno-Navarro, F.; Martín-Marín, J.; Rios-Losada, C.; Rubio-Gámez, M. C., "Analysis of cleaner technologies based on waxes and surfactant additives in road construction," *Journal of Cleaner Production* Vol. 64, pp. 374-379, 2014
- Moreno-Navarro, F.; Sol-Sánchez, M.; Rubio-Gámez, M. C. "Reuse of deconstructed tires as anti-reflective cracking mat systems in asphalt pavements" *Journal of Construction and Building Materials*, Vol. 53, pp.182-189,

2014

- Moreno-Navarro, F.; Rubio-Gómez, M. C., “Mean damage parameter for the characterization of fatigue cracking behavior in bituminous mixtures,” *Materials and Design*, Vol. 54, pp. 748-754, 2014
- Moreno-Navarro, F.; Del Sol-Sánchez, M.; Rubio-Gómez, M. C.; Ramírez, A., “Reuse of thermal power plant slag in hot bituminous mixes,” *Journal of Construction and Building Materials* Vol. 49, pp.144-150, 2014
- Moreno-Navarro, F.; Sol-Sánchez, M.; Rubio-Gómez, M. C.; Segarra-Martínez, M. “The use of additives for the improvement of the mechanical behavior of high modulus asphalt mixes” *Journal of Construction and Building Materials*, 70, 65-70, 2014
- Moreno-Navarro, F.; García-Travé, G.; Rubio-Gómez, M. C.; Martínez-Echevarría, M. J. “Analysis of the moisture susceptibility of hot bituminous mixes based on the comparison of two laboratory test methods” *Dyna Colombia*, Vol. 181, pp. 44-59, 2014
- Moreno-Navarro, F.; Rubio-Gómez, M. C.; Tomás-Fortún, E.; Valor-Hernández, F.; Ramírez-Rodríguez, A. “Evaluation of the fatigue macro-cracking behavior of crumb rubber modified bituminous mixes” *Materiales de la Construcción*, 64, 1-7, 2014
- Moreno-Navarro, F.; Rubio-Gómez, M. C.; Jiménez del Barco, A., “Tire crumb rubber effect on hot bituminous mixtures fatigue cracking behavior” *Journal of Civil Engineering and Management*, (Accepted, In Press), 2014
- Sol-Sánchez, M.; Moreno-Navarro, F.; Rubio-Gómez, M. C. “Viability analysis of deconstructed tires as material for rail pads in high-speed railways” *Materials and Design*, Vol. 64, pp.407-414, 2014
- Sol-Sánchez, M.; Moreno-Navarro, F.; Rubio-Gómez, M. C. “The Use of Deconstructed Tires as Elastic Elements in Railway Tracks” *Materials*, 7, 5903-5919, 2014
- Sol-Sánchez, M.; Moreno-Navarro, F.; Rubio-Gómez, M. C. “Viability of using end-of-life tire pads as under sleeper pads in railway” *Journal of Construction and Building Materials*, 64, 150-156, 2014
- Sol-Sánchez, M.; Moreno-Navarro, F.; Rubio-Gómez, M. C. “The use of deconstructed tire rail pads in railroad tracks; impact of pad thickness” *Materials and Design*, Vol. 58, pp.198-203, 2014
- Sol-Sánchez, M.; Moreno-Navarro, F.; Rubio-Gómez, M. C. “An Analysis of the Performance of Deconstructed Tires for Use as Pads in Railroad Tracks” *Journal of Civil Engineering and Management*, (Accepted, In Press), 2014
- Pellicer, E.; Carvajal, G.; Rubio, M.C.; Catalá, J.; “A method to estimate occupational health and safety costs in construction projects” *KSCE Journal of Civil Engineering*, Vol. 18(7), pp. 1955-1965, 2014
- Rodríguez, M.I., Cuevas, M.M., Martínez, G. y Moreno, B. (2014): «Planning Criteria for Water Sensitive Urban Design». *WIT Transactions on Ecology and the Environment*, 191.

2013

- L.M. Ruiz, J. Pérez, M.A. Gómez. 2013. “Influence of operational parameters over biomass growth and decay kinetic constants on membrane bioreactors”.

<http://icpi.ugr.es/>

- Desalination and Water Treatment. Vol. 51, pp. 4847-4854.
- J. Arévalo, L.M. Ruiz, J. Pérez, M.A. Gómez. 2013. "Influence of operational variables on nitrogen removal in two full-scale MBR systems". Desalination and Water Treatment. Vol. 51, pp. 4839-4846 .
 - J. Arévalo, L.M. Ruiz, J. Pérez, B. Moreno, M.A. Gómez. 2013. "Removal performance of heavy metals in MBR systems and their influence in water reuse". Water Science and Technology. Vol. 67(4), pp. 894-899.
 - Pablo Pérez, Francisco Agrela, Rosario Herrador, Javier Ordoñez. 2013. "Application of cement-treated recycled materials in the construction of a section of road in Malaga, Spain". Construction and Building Materials. Vol. 44, pp. 593-599.
 - E.J. Gago n, J.Roldan,R.Pacheco-Torres,J.Ordóñez. 2013. "The city and urban heat islands: A review of strategies to mitigate adverse effects". Renewable and Sustainable Energy Reviews. Vol. 25, pp. 749-758.
 - Pérez-Martínez, M.; Moreno-Navarro, F.; Martín-Marín, J.; Rios-Losada, C.; Rubio-Gámez, M. C. "Analysis of cleaner technologies based on waxes and surfactant additives in road construction". Journal of Cleaner Production. In press.
 - Del Sol-Sánchez, M.; Moreno-Navarro, F.; Rubio-Gámez, M. C. 2013. "An Analysis of the Performance of Deconstructed Tires for Use as Pads in Railroad Tracks". Journal of Civil Engineering and Management. In press.
 - Moreno-Navarro, F.; Rubio-Gámez, M. C.; Jiménez del Barco-Carrión, A. 2013. " Tire Crumb Rubber effect on hot bituminous mixtures fatigue-cracking behavior". Journal of Civil Engineering and Management. In press.
 - Moreno-Navarro, F.; Rubio-Gámez, M. C. Mean damage parameter for the characterization of fatigue cracking behavior in bituminous mixtures. Materials and Design. Vol. 54, pp. 748-754.
 - Moreno-Navarro, F.; García-Travé, G.; Rubio-Gámez, M. C.; Martínez-Echevarría, M. J. "Analysis of the moisture susceptibility of hot bituminous mixes based on the comparison of two laboratory test methods". Dyna Colombia. In press.
 - López-Alonso, M.; Ibarro-Dávila, M.P.;Rubio, M.C. 2013. "Análisis de los costes de prevención en obras de construcción" . Informes de Construcción. In-Press
 - López-Álonso, M.; Ibarro-Dávila, M.P.;Rubio-Gámez, M.C.; García, T. 2013. "The impact of health and safety investment on construction company costs". Safety Science. Vol. 60, 151-159.
 - Moreno-Navarro, F.; Del Sol-Sánchez, M.; Rubio-Gámez, M. C.; Ramírez, A. 2013. "Reuse of thermal power plant slag in hot bituminous mixes". Journal of Construction and Building Materials. Vol. 49, pp, 144-150.
 - Moreno, F.; Rubio, M.C.; Jimenez del Barco, A. 2013 "Tire Crumb Rubber Effect on Hot Bituminous Mixtures Fatigue-Cracking Behavior". Journal of Civil Engineering and Management. In-Press.
 - Vidal, R.; Moliner, E.; Martínez, G.;Rubio, M.C. 2013. Life cycle assessment of hot mix asphalt and zeolite-based warm mix asphalt with reclaimed asphalt pavement. Resources, Conservation and Recycling. Vol. 74, pp. 111-114.
 - Moreno, F.; Rubio, M.C. 2013. UGR-FACT Test for the Study of Fatigue Cracking in Bituminous Mixes. Journal of Construction and Building Materials. Vol. 43, pp. 184-190.
 - Moreno, F.; Perez, M.; Martín, J.; Sol, M.; Rubio, M.C. 2013. "Mechanical

- Performance of Asphalt Mixes Incorporating Waste Glass”. The Baltic Journal of Road and Bridge Engineering.
- Moreno, F.; Rubio, M.C. 2013. “Effect of aggregate nature on the fatigue-cracking behavior of asphalt mixes Materials and Design”. Material and Design. Vol. 47, pp. 61-67.
 - Rubio J.C.; Rubio, M.C.; Carrillo-Castrillo, J.A. 2013. “Analysis of the Safety Conditions of Scaffolding on Construction Sites. Safety Science”. Vol. 55, pp. 160-164.
 - Martín, J.; Rodríguez, J.; Moreno, F.; Piqueras, J.L.; Rubio, M.C. 2013. “Feasibility analysis of the Reuse of Waste Filler of Bituminous Mixtures for the Production of Self-Compacting Concrete”. Material and Design. Vol. 46, pp. 372-380.
 - Moreno, F.; Sol, M.; Pérez, M.; Martín, J.; Rubio, M.C. 2013. “The effect of crumb rubber modifier on the resistance of asphalt mixes to plastic deformation”. Material and Design. Vol.10.1016/j.matdes.2012.12.022
 - Rubio, M.C.; Moreno, F.; Martínez-Echevarria, M.J.; Martínez, G.; Vazquez, J.M. 2013. “Comparative analysis of emissions from the manufacture and use of hot and half-warm mix asphalt”. Journal of Cleaner Production. Vol. 41, pp. 1-6.

2012

- Herrador, R., Pérez, P., Garach, L., and Ordóñez, J. 2012. “Use of Recycled Construction and Demolition Waste Aggregate for Road Course Surfacing.” J. Transp. Eng., 138(2), 182-190.
- Alonso, A.; Tejada, E.; Moreno, F.; Rubio, M.C.; Medel, E. 2013. “Estudio comparativo de zeolita natural y zeolita sintética como aditivo para la fabricación de mezclas asfálticas semicalientes”. Materiales de Construcción. In-Press.
- Rubio, J.C.; Rubio, M.C.; García-Hernández, C. 2012. “Analysis of construction equipment safety in temporary work at height”. Journal of Construction Engr. & Management (ASCE). Accepted March 2012. doi:10.1061/(ASCE)CO.1943-7862.0000567.
- Márquez, F.J.; Rubio, J.C.; Rubio, M.C., 2012. “Status of the Facilities for Fire Safety in Hotels. Safety Science”. 50 (7), pp. 1490-1494 .
- Martínez. G.; Moreno, B.; Rubio, M.C. 2012. “Gestión del riesgo en proyectos de ingeniería civil. Singularidades”. Dyna. Vol. 87-, pp. 12-15.
- Martínez. G.; Moreno, B.; Rubio, M.C. 2012. “Gestión del riesgo en proyectos de ingeniería. El caso del Campus Universitario PTS. Universidad de Granada (España)”. Dyna-Colombia. Vol. 79-173, pp. 7-14.
- Moreno, F.; Rubio, M.C. 2012. “Influence of Crumb Rubber on the Indirect Tensile Strength and Stiffness Modulus of Hot Bituminous Mixes”. Journal of Materials in Civil Engineering. 24 (6), pp. 715-724.
- González-Pérez, D.M., Garralón, G., Plaza, F., Pérez, J.I., Moreno, B., Gómez, M.A. 2012. “Removal of low concentrations of phenanthrene, fluoranthene and pyrene from urban wastewater by membrane bioreactors technology”. Journal of Environmental Science and Health – Part A Toxic/Hazardous Substances and Environmental Engineering. Vol. 47 (14) , pp. 2190-2197.
- Arévalo, J., Ruiz, L.M., Parada-Albarracín, J.A., González-Pérez, D.M., Pérez, J., Moreno, B., Gómez, M.A. 2012. “Wastewater reuse after treatment by MBR.

- Microfiltration or ultrafiltration?”. *Desalination*. Vol. 299 , pp. 22-27.
- Parada-Albarracín, J.A., Marin, E., Pérez, J.I., Moreno, B., Gómez, M.A. 2012. “Evolution of filamentous bacteria during urban wastewater treatment by MBR”. *Journal of Environmental Science and Health – Part A Toxic/Hazardous Substances and Environmental Engineering*. Vol. 47 (6), pp. 863-872.
 - Fernández, G., Plaza, F., Garralón, G., Garralón, A., Pérez, J.I., Gómez, M.A. 2012. “A comparative study of ultrafiltration and physicochemical process as pretreatment of seawater reverse osmosis”. *Desalination and water treatment*, Vol. 42 (1-3) , pp. 73-79.
 - González, D., Ruiz, L.M., Garralón, G., Plaza, F., Arévalo, J., Parada, J., Pérez, J., Moreno, B., Gómez, M.A. 2012. “Wastewater polycyclic aromatic hydrocarbons removal by membrane bioreactor”. *Desalination and water treatment*, Vol. 42 (1-3), pp. 94-99.
 - Gómez-Silván, C., Arévalo, J., Pérez, J., González-López, J., Rodelas, B. 2012. “Linking hydrolytic activities to variables influencing a submerged membrane bioreactor (MBR) treating urban wastewater under real operating conditions”. *Water Research*. Vol. en prensa.
 - Pacheco, R., Ordóñez, J. & Martínez, G. 2012. “Energy efficient design of building: A review. *Renewable and Sustainable Energy Reviews*, vol. 16, no. 6, pp. 3559-3573.
 - Rubio, M.C.; Martínez, G.; Baena, L.; Moreno, F. (2012). Warm mix asphalt: an overview. *Journal of Cleaner Production*. Volume 24, March 2012, Pages 76-84.
 - Rubio, M.C.; Moreno, F.; Martínez-Echevarria, M.J.; Martínez, G.; Vazquez, J.M. 2012. “Comparative analysis of emissions from the manufacture and use of hot and half-warm mix asphalt”. *Journal of Cleaner Production*, In-Press.
 - Martínez-Echevarria, M.J.; Miro, R.; Menendez, A.; Rubio, M.C. 2012. In-Laboratory compaction procedure for cold recycled mixes with bituminous emulsions. *Construction and Building Materials*, In-Press, CONBUILDMAT-D-12-00268R1.
 - García-Trave, G.; Martínez-Echevarria, M.J.; Rubio, M.C.; Moreno, F. 2012. “Bituminous mix response to plastic deformations: Comparison of the Spanish NLT-173 and UNE-EN 12697-73 Wheel-Tracking Test”. *Dyna Colombia*, In-Press.
 - Alonso, A.; Tejeda, E.; Moreno, F.; Rubio, M.C.; Medel, E. 2012. Estudio comparativo de zeolita natural y zeolita sintética como aditivo para la fabricación de mezclas asfálticas semicaliente. *Materiales de Construcción*, In-Press.
 - Martínez-Echevarria, M.J.; Tejeda, E.; Rubio, M.C.; Moreno, F. 2012. Evaluación del dispositivo Pavement Quality Indicator (PQI) en la determinación de la densidad in situ de mezclas fabricadas con emulsión bituminosa. *Materiales de Construcción*. In-Press.

2011

- Ordóñez, J. & Modi, V. 2011, “Optimizing CO2 emissions from heating and cooling and from the materials used in residential buildings, depending on their geometric characteristics”, *Building and Environment*, vol. 46, no. 11, pp. 2161-2169.
- Gago, E.J., García, J.O. & Estrella, A.E. 2011, “Development of an energy model

for the residential sector: Electricity consumption in Andalusia, Spain”, *Energy and Buildings*, vol. 43, no. 6, pp. 1315-1321.

- Moreno, F.; Rubio, M.C; Martinez-Echevarria, M.J. (2011). The mechanical performance of dry-process crumb rubber modified hot bituminous mixes: The influence of digestion time and crumb rubber percentage. *Journal of Construction and Building Materials*. Vol 26. (1). Pp 466-474.
- Moreno, F.; Rubio, M.C; Martinez-Echevarria, M.J. (2011). Analysis of digestion time and the crumb rubber percentage in dry-process crumb rubber modified hot bituminous mixes. *Journal of Construction and Building Materials*. Vol 25. (5). Pp2323-2334.
- Moreno, F.; Rubio, M.C; Martinez-Echevarria, M.J. (2011). Reuse of sludge from the decorative quartz industry in hot bituminous Mixes. *Journal of Construction and Building Materials*. Vol 25. (5). Pp 2465-2471.
- Rubio, M.C; Menéndez, A.; Moreno,F.; Belmonte,A.; Ramirez, A. (2011). Mechanical properties of hot bituminous mixes manufactured with recycled aggregate of Silestone® waste. *Materiales de Construcción*. Vol. 61-301. Pp 49-60.
- Martínez, G. Prados, E. Alegre, J. y Ordóñez, J. (2011). The applicability of computer simulation using Monte Carlo techniques in windfarm profitability analysis. *Renovable and Sustainable Energy Review* . Vol. 15-9. Pp 4746-4755.
- Parada-Albarracín, J.A.; Marín, E.; Pérez, J.I.; Moreno, B.; Gómez, M.A. Evolution of filamentous bacteria during urban wastewater treatment by MBR. *Toxic/Hazardous substances environmental engineering*. En prensa.
- González, D.; Ruiz, L.M.; Garralón, G.; Plaza, F.; Arévalo, J.; Parada, J.; Pérez, J.; Moreno, B.; Gómez, M.A. Wastewater polycyclic aromatic hydrocarbons removal by membrane biorreactor. *Desalination and water treatment*. En prensa.
- Ruiz,L.M.; Arévalo, J.; Parada, J.; González, D.; Moreno, B.; Pérez, J.I.; Gómez M.A. Respirometric assays of two different MBR (microfiltration and ultrafiltration) to obtain kinetic and stoichiometric parameters. *Water Science & Technology*. En prensa (DOI: 10.2166/wst.2011.578).
- Rojas, J.C., Pérez, J.I. Garralón, G, Plaza, F., Moreno, B., Gómez M.A. Humic acids removal by aerated spiral-wound ultrafiltration membrane combined with coagulation-hydraulic flocculation. *Desalination*, 266: 128-133

2010

- Rubio, M.C; Moreno, F.; Menéndez, A.; Belmonte, A. (2010). Reuse of waste material from decorative quartz solid surfacing. *Journal of Construction and Building Materials*. Vol. 24. Pp 610-618.
- Aires, M.D.; Rubio, M.C; Gibb,A. (2010). Prevention through design: the effect of European Directives on construction. *Safety Science*. Vol.48. pp 248-258.
- Ordóñez, J., Jadraque, E., Alegre, J. & Martínez, G. 2010, “Analysis of the photovoltaic solar energy capacity of residential rooftops in Andalusia (Spain)”, *Renewable and Sustainable Energy Reviews*, vol. 14, no. 7, pp. 2122-2130.
- Ordóñez, J., Jadraque, E., Alegre, J. & Martínez, G. 2010, “Analysis of the photovoltaic solar energy capacity of residential rooftops in Andalusia (Spain)”, *Renewable and Sustainable Energy Reviews*, vol. 14, no. 7, pp. 2122-2130.
- Fernández-Álvarez, G., Garralón, G, Plaza, F., Garralón, A., Pérez, J., Gómez M.A.

- (2010). Autopsy of SWRO membranes from Desalination Plant in Ceuta after 8 Years in Operation. *Desalination*. 263 (1-3): 264-270.
- Rojas, J.C., Moreno, B., Garralón, G., Plaza, F., Pérez J., Gómez M.A. (2010). Influence of velocity gradient in a hydraulic flocculator on NOM removal by aerated spiral-wound ultrafiltration membranes (ASWUF). *Journal of Hazardous Materials*. 178: 535-540.
 - Gómez, M., Plaza, F., Garralón, G., Pérez J., Gómez, M.A. (2010). Comparative Analysis of Macrofiltration Processes Used as Pre-Treatment for Municipal Wastewater Reuse. *Desalination*. 255: 72-77.

2009

- Rubio, J.C; Simon, J.M.; Rubio, M.C. (2009). Deficiencies in the electrical systems of portable tower cranes at construction sites. *Dyna*. Vol. 84 -4. Pp 321-32
- Arévalo, J., Garralón, G., Plaza, F., Moreno, B., Pérez J., Gómez, M.A. (2009) Wastewater reuse after treatment by tertiary ultrafiltration and membrane bioreactor (MBR): A comparative study. *Desalination*, 243: 32-41
- Arévalo, J., Moreno, B., Pérez J., Gómez, M.A. Applicability of the sludge biotic index (SBI) for MBR activated sludge control. *Journal of Hazardous Materials*. 167: 784

2008

- Rubio, M.C; Martinez, G; Rubio, J.C.; Ordoñez, J. (2008). Role of the Civil Engineer as a Coordinator of Health and Safety Matters within the Construction Sector. *Journal of Professional Issues in Engineering Education and Practice*. Vol 134-2. Pp.152-157.
- Rojas, J.C., Moreno, B., Garralón, G., Plaza, F., Pérez, J., Gómez, M.A. (2008) Potabilization of low NOM reservoir water by ultrafiltration spiral wound membranes. *Journal of Hazardous Materials*, 158:593-598.

2007

- Zamorano, M., Pérez, J.I., Aguilar, I., Ramos, A. (2007) Study of the Energy Potential of the biogas produced by an Urban Waste Landfill in Southern Spain. *Renewable & Sustainable Energy Review*, 11:909-922.
- Gómez, M., Garralón, G., Plaza, F., Pérez, J., Gómez, M.A. (2007) A Comparative Study of Tertiary Wastewater Treatment by Physicochemical-UV Process and Macrofiltration-Ultrafiltration Technologies. *Desalination*, 202:369-376.
- Pérez, J.I., Ramos, A., Ordóñez, J., Gómez M.A. (2007) Dual-stage peat beds in small community wastewater treatment. *Journal of Environmental Science and Health, Part A*,42:1-6.
- Martínez, G., Rubio, M.C., Rubio, J.C., Rodríguez, P., Terres, F. (2007) Work Risk Prevention Procedures in Highways Management and Manufacturing Contracts. *Human Factor and Ergonomics in Manufacturing*,17:229-244.
- Rodríguez, G., Alegre, J., Martínez, G. (2007). The contribution of Environmental Management Systems to the management of Construction and Demolition

- Waste: The cases of the Autonomous Community of Madrid (Spain). *Resources, Conservation & Recycling*, 50:334-349.
- Gómez, M., Garralón, G., Plaza, F., Pérez, J. Gómez, M.A. (2007) A Comparative Study of Tertiary Wastewater Treatment by Physicochemical-UV Process and Macrofiltration-Ultrafiltration Technologies. *Desalination*, 202:369-376.
 - Martínez, G., Rubio, M.C., Moreno, B., Ordóñez, J. (2007) Final project teaching in higher education within civil engineering. A new perspective. *Journal of Professional Issues in Engineering Education and Practice*, 133:94-98.
 - García, J.O. Gago, E.J. Bayo, J.A. & Montes, G.M. 2007, "The use of solar energy in the buildings construction sector in Spain", *Renewable and Sustainable Energy Reviews*, vol. 11, no. 9, pp. 2166-2178.
 - Montes, G.M., Prados Martín, E. & Ordóñez García, J. 2007, "The current situation of wind energy in Spain", *Renewable and Sustainable Energy Reviews*, vol. 11, no. 3, pp. 467-481.
 - Pérez, J.I., Ramos, A., Ordóñez, J., Gómez, M.A. (2007) Dual-Stage Peat Beds in Small Community Wastewater Treatment. *Journal of Environmental Science and Health, Part A*, 42:1125-1130.
 - Martínez, G; Rubio, M.C.; Rubio, J.C.; Rodríguez, P; Terres, F (2007). Work Risk Prevention Procedures in the Highways Management and Maintenance Contracts. *Human Factor and Ergonomics in Manufacturing*. Vol. 17 (3). Pp. 229-244
 - Martínez, G. y Prados, E. (2007). Profitability of Wind Energy: Short-term Risk Factors and Possible Improvements. *Renewable and Sustainable Energy Reviews*. Vol. 11-9. Pp. 2191-2200.
 - Martínez, G. y Prados, E. (2007). The current situation of wind energy in Spain. *Renewable and Sustainable Energy Reviews*. Vol. 11 (3). Pp.467-481.

2005

- Calvo, F., Moreno, B., Zamorano, M., Szanto, M. (2005) Environmental diagnosis methodology for municipal waste landfills. *Waste Management*, 25:768-779.
- Moreno, B., Gómez, M.A., González López, J., Hontoria, E. (2005) Inoculation of a Submerged Filter for Biological Denitrification of Nitrate Polluted Groundwater: A Comparative Study. *Journal of Hazardous Materials*, B117:141-147.
- Pérez, J.I., Hontoria, E., Zamorano, M., Gómez, M.A. (2005) Wastewater Treatment Using Fibrist and Sapríst Peat: A Comparative Study. *Journal of Environmental Science and Health, Part A*, A40:1021-1032.
- Moreno, B., Gomez, M.A., Ramos, A., González-López, J., Hontoria, E. (2005) Influence of inocula over start up of a denitrifying submerged filter applied to nitrate contaminated groundwater treatment. *Journal of Hazardous Materials*, 127:180-186.
- Garrido, E., Moreno, B., Ramos, A.F., Zamorano, M. (2005) Methodology of environmental diagnosis for construction and demolition waste landfills: a tool for planning and making decisions. *Environmental Technology*, 26:1231-1242.
- Moreno, B., Gómez, M.A., Hontoria, E. (2005) Simple Tertiary Treatment Systems. *Water Science and Technology: Water Supply*, WS5:3-4.
- Rubio, M.C.; Menéndez, A.; Martínez, G.; Rubio, J.C. (2005). Obligations and Responsibilities of Civil Engineers for the Prevention of Labour Risks.

References to European Regulations. Journal of Professional Issues in Engineering Education and Practice. Vol 131. Pp 70-75.

- Martinez,G.; Serrano, M; Rubio, M.C; Menéndez, A. (2005). An Overview of renewable energy in Spain. The small Hydro-Power case. Renewable & Sustainable Energy Reviews. Vol. 9 . pp. 522-534.
- Martinez,G.; Rubio, M.C; Alegre, J; Ordoñez, J.; Oliver, J. (2005). Viabilidad de Proyectos de Minicentrales Hidroeléctricas. Enfoque con análisis de riesgo.. Ingeniería Hidráulica en México. Vol. XX-I. pp. 5-18.