

Journals (peer-reviewed)

1. Ariel Antonio Quintana-Baquedano, Jose Luis Sanchez-Salas, Deborah Xanat Flores-Cervantes. Technologies and materials for sulfates removal in water: A Review. Technology, Science and Culture: A Global Vision, Volume IV. IntechOpen; **submitted**.
2. Andrea Arredondo Navarro, Estefanía Martínez Tavera, Deborah Xanat Flores-Cervantes. Microplastics Environmental Risk Assessment- A Review. Technology, Science and Culture: A Global Vision, Volume IV. IntechOpen, **submitted**

2022

1. Romero-Moran A., Zavala-Franco A., **Sanchez-Salas J.L.**, Mendez-Rojas M.A., and Molina-Reyes J. **2022**. Electrostatically charged rutile TiO₂ surfaces with enhanced photocatalytic activity for bacteria inactivation. *Catalysis Today*. 392-393:154-166. <https://doi.org/10.1016/j.cattod.2022.01.002>.
2. Arredondo- Navarro, A., **Flores-Cervantes, D.X.** Microplastics in water and sediments: Sampling, Detection, Characterization Methods & Quality Control - A Review. *Tecnología y Ciencias del Agua*, **2022**, 1-49. DOI: 10.24850/j-tyca-14-3-10.
3. **Flores-Cervantes, D.X.**, Medina-Montiel, C., Ramirez-Corona, N., Navarro-Amador, R. Zirconium Based MOFs and Their Potential Use in Water Remediation: Current Achievements and Possibilities. *Air, Soil and Water Research*, **2022**, 15, 1-15. <https://doi.org/10.1177/11786221221080183>.
4. **Flores-Cervantes, D. X.**; Medina-Montiel, C.; Ramirez-Corona, N.; **Navarro-Amador, R. (2022)** Zirconium Based MOFs and Their Potential Use in Water Remediation: Current Achievements and Possibilities.. *Air Soil Water Res.*, 15, 1178622122108018. <https://doi.org/10.1177/11786221221080183>.
5. **Palacios A**, Bradley D. **(2022)** Hydrogen and Wood-burning Stoves. *Philosophical Transactions of the Royal Society A*. <https://doi.org/10.1098/rsta.2021.0139>
6. **Palacios A**, Bradley D. **(2022)** Wildfires and the Generation of Fire Whirls. *Combustion and Flame*. 239. 111664, <https://doi.org/10.1016/j.combustflame.2021.111664>
7. Corruchaga A., Casal O., **Palacios A.**, Casal J. **(2022)** Influence of Wind Speed and Ammonia Concentration on Its Evaporation Rate from Aqueous Solution Spills. *Journal of Loss Prevention in the Process Industries*. <https://doi.org/10.1016/j.jlp.2022.104750>
8. **Palacios A**, Cordoba A, Castro PM, Palacios E. **(2022)** Hydrogen Production in Mexico: State of the art, future perspectives, challenges and opportunities. *International Journal of Hydrogen Energy*. <https://doi.org/10.1016/j.ijhydene.2022.04.009>
9. Tang F, Zhao Z, Wang Q, **Palacios A. (2022)** Effect of cross airflow on the flame geometrical characteristics and flame radiation fraction of ethylene jet fires with carbon dioxide addition. *Applications in Energy and Combustion Science*. <https://doi.org/10.1016/j.jaecs.2022.100073>

10. Wang Q, Yan J, Wang B, Chang L, **Palacios A.** (2022) Experimental study on trajectory flame length and axial temperature distribution of inclined turbulent jet flames. *Fire Safety Journal*. <https://doi.org/10.1016/j.firesaf.2022.103623>
11. Hernández-Romero,P.; **Patiño-Gómez, C.; Martínez-Austria, P.F.; Corona-Vásquez, B.** (2022) Rainfall/runoff hydrological modeling using satellite precipitation information. *Water Practice and Technology Journal*. Vol. 17, No. 5. Published on line May 2022. doi: 10.2166/wpt.2022.048
12. Becerra, G., Picazo, M., Aguilar, J.O., Xamán, J., Osorio, E., Hernandez, J., **Ledesma-Alonso, R.** (2022) Experimental study of a geothermal earth-to-air heat exchanger in Chetumal, Quintana Roo, Mexico. *Energy Efficiency* 15, 20. DOI: 10.1007/s12053-022-10022-3, ISSN 1570-646X, eISSN 1570-6478

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13. Montes Duarte G. G., Tostado Blazquez G., Castro K.L.S., Achete C.A., **Sanchez Salas J.L.**, Campos-Delgado J. **2021**. Key parameters to enhance the antibacterial effect of graphene oxide in solution. *RSC Advances* (Aceptado).
14. Gomez-Gallegos M.A., **Reyes-Mazzoco, Flores Cervantes D.X.**, Jarayathne A., Goonetilleke A., Bandala E.R., **Sanchez-Salas J.L.** 2021. Role of organic matter, nitrogen and phosphorous on granulation and settling velocity in wastewater treatment. *J. Water Process Engin.* 40:101967. <https://doi.org/10.1016/j.jwpe.2021.101967>.
15. Hilaire, L., Siboulet, B., **Ledesma-Alonso, R.**, Legendre, D., Tordjeman, P., Charton, S. and Dufrêche, J.-F., (2020) *Langmuir* 36 (30), 8993-9004. DOI: 10.1021/acs.langmuir.0c00023 ISSN: 0743-7463 eISSN: 1520-5827
16. **Palacios A**, Bradley D, Wang Q, Li X, Hu L., (2021) Air Fuel Mixing in Jet Flames. *Proceedings of the Combustion Institute*. 38(2): 2759-2766. <https://doi.org/10.1016/j.proci.2020.07.083>
17. **Palacios A**, Mata C, Barraza C. (2021) Historical Analysis of Accidents in the Mexican Chemical Industry. *Revista Mexicana de Ingeniería Química*. 20(1): 129-149.<https://doi.org/10.24275/rmiq/Proc1345>, ISSN: 16652738
18. Foroughi V., **Palacios A.**, Barraza C., Àgueda A., Mata C., Pastor E., Casal J. (2021) Thermal effects of a sonic jet fire impingement on a pipe. *Journal of Loss Prevention in the Process Industries*. 71(4-6): 104449. <https://doi.org/10.1016/j.jlp.2021.104449>
19. **Palacios A**, Bradley D. (2021) Conversion of Natural Gas Jet Flame Burners to Hydrogen. *International Journal of Hydrogen Energy*. In Press. <https://doi.org/10.1016/j.ijhydene.2021.02.144>
20. Mashhadimoslem H, Ghaemi A, Palacios A. (2021) A comparative study of radiation models on propane jet fires based on experimental and computational studies. *Heliyon*. 7(6): e07261. <https://doi.org/10.1016/j.heliyon.2021.e07261>
21. **Ledesma-Alonso, R.** and Raphael, E. and Restagno, F. and Poulard, C. (2021) Effect of the density of pillar-patterned substrates on contact mechanics: Transition from top to mixed contact with a detailed pressure-field description. *Phys. Rev. E*, 104 (5):055007 (10 pages). DOI: 10.1103/PhysRevE.104.055007, ISSN 2470-0045, eISSN 2470-0053

22. Pacheco-Vázquez, F. and **Ledesma-Alonso, R.** and Palacio-Rangel, J. L. and Moreau, F. (2021) Triple Leidenfrost Effect: Preventing Coalescence of Drops on a Hot Plate. *Phys. Rev. Lett.*, 127(20):204501 (5pages) DOI: 10.1103/PhysRevLett.127.204501 ISSN 0031-9007, eISSN 1079-7114 (online)

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23. Molina-Reyes J., Romero-Moran A., Uribe-Vargas H., Lopez-Ruiz B., **Sanchez-Salas J.L.**, Ortega E., Ponce A., Morales-Sanchez A., Lopez-Huerta F., and Zuñiga-Islas C. **2020**. Study on the photocatalytic activity of titanium dioxide nanostructures: Nanoparticles, nanotubes and ultra-thin films. *Catalysis Today*. 341:2-12. <https://doi.org/10.1016/j.cattod.2018.05.033>.
24. Molina Reyes J., Romero-Morána A. and **Sánchez-Salas J.L.** **2020**. Enhanced photocatalytic bacterial inactivation of atomic-layer deposited anatase-TiO₂ thin films on rutile-TiO₂ nanotubes. *Photochem. Photobiol. Sci.*, 19, 399-405 (aceptado y disponible en línea) <https://pubs.rsc.org/en/content/articlepdf/2020/pp/c9pp00348g?page=search>.
25. Romero-Morán A., **Sánchez-Salas J.L.**, Molina-Reyes J. **2020**. Influence of selected reactive oxygen species on photocatalytic activity of TiO₂/SiO₂ composite coatings processed at low temperature, *Applied Catalysis B: Environmental* 119685, <https://doi.org/10.1016/j.apcatb.2020.119685>. (disponible on-line <https://www.sciencedirect.com/science/article/abs/pii/S0926337320311024?via%3Dihub>)
26. Maynez-Navarro OD, Mendez-Rojas MA, Flores-Cervantes DX, **Sanchez-Salas JL.** **2020**. Hydroxyl Radical Generation by Recyclable Photocatalytic Fe₃O₄/ZnO Nanoparticles for Water Disinfection. *Air, Soil and Water Research*. 13:1-11. doi:10.1177/1178622120970954.
27. **Maynez-Navarro OD**, Mendez-Rojas MA, **Flores-Cervantes DX**, Ulises Salazar Kuri, **Sanchez-Salas JL.** Recyclable and Photocatalytic Properties of ZnFe₂O₄/ZnO for Wastewater Treatment and Disinfection. *ChemistrySelect* **2020**, 5, 15167– 15174. <https://doi.org/10.1002/slct.202003357>.
28. Rengel B, Agueda A, Pastor E, Casal J, Planas E, Hu L, **Palacios A.** (2020) Experimental and computational analysis of vertical jet fires of methane in normal and sub-atmospheric pressures. *Fuel*. 265: 116878. <https://doi.org/10.1016/j.fuel.2019.116878>
29. Rengel B, **Palacios A.** (2020) Analysis of Experimental Blowout Velocities of Jet Flames. *Combustion and Flame*. 213: 237-239. <https://doi.org/10.1016/j.combustflame.2019.12.008>
30. Ghaemi A, Mashhadimoslem H, Hossein Behroozi A, **Palacios A.** (2020) A New Simplified Calculation Model of Geometric Thermal Features of a Vertical Propane Jet Fire Based on Experimental and Computational Studies. *Process Safety and Environmental Protection*. 135: 301-314. <https://doi.org/10.1016/j.psep.2020.01.009>
31. **Palacios A**, Rengel B, Wang Q, Hu L. (2020) Analysis of experimental flame shapes and blowout velocities of partially-premixed methane-air jet flames. 269: 117430. *Fuel*. DOI: <https://doi.org/10.1016/j.fuel.2020.117430>, ISSN:
32. **Palacios A**, Rengel B. (2020) Computational Analysis of Vertical and Horizontal Jet Fires. *Journal of Loss Prevention in the Process Industries*. <https://doi.org/10.1016/j.jlp.2020.104096>

33. **Palacios A**, Rengel B, Casal J, Pastor E, Planas E. (2020) Computational fluid dynamics modelling of hydrocarbon fires in open environments: Literature review. *Canadian Journal of Chemical Engineering*. 98: 2381-2396. DOI: 10.1002/CJCE.23768
 34. **Palacios A**, Rengel B. (2020) Flame shapes and thermal flux of vertical hydrocarbon flames. *Fuel*. 276. DOI: <https://doi.org/10.1016/j.fuel.2020.118046>
 35. **Palacios A**, Garcia W, Rengel B. (2020) Flame shapes and thermal fluxes for an extensive range of horizontal jet flames. *Fuel*. 279. <https://doi.org/10.1016/j.fuel.2020.118328>
 36. Mashhadimoslem H, Ghaemi A, **Palacios A**, Behroozi AH. (2020) A New Method for Comparison Thermal Radiation on Large-Scale Hydrogen and Propane Jet Fires based on experimental and computational studies. *Fuel*. <https://doi.org/10.1016/j.fuel.2020.118864>
 37. Mashhadimoslem H, Ghaemi A, **Palacios A**. (2020) Analysis of deep learning neural network combined with experiments to develop predictive models for a propane vertical jet fire. *Heliyon*. <https://doi.org/10.1016/j.heliyon.2020.e05511>
 38. Duran-Hernandez, C., **Ledesma-Alonso, R.** and Etcheverry, G. (2020) Using Autoregressive with Exogenous Input Models to Study Pulsatile Flows. *Applied Sciences* 10, no. 22: 8228. DOI: 10.3390/app10228228 ISSN: 2076-3417
 39. Hilaire, L., Siboulet, B., **Ledesma-Alonso, R.**, Legendre, D., Tordjeman, P., Charton, S. and Dufrêche, J.-F., (2020) *Langmuir* 36 (30), 8993-9004. DOI: 10.1021/acs.langmuir.0c00023 ISSN: 0743-7463 eISSN: 1520-5827
 40. Wilder M.O.; **Martínez-Austria P.F.**; Hernández Romero, Paul; Cruz Ayala, Mary Belle (2020) The human right to water in Mexico: Challenges and Opportunities. *Water Alternatives*. Volume 13 Issue 1. Pages 28-48. ISSN 1965-0175
 41. **Martínez-Austria, P.**; Alcocer-Yamanaka, V. H. (2020) Modelación dinámica en la operación de embalses. *Revista Entorno UDLAP*. Número 10. Páginas 16-27. ISSN 2594-0155 e ISSN 2594-0147.
- 2019**
42. **Palacios A**, Bradley D. (2020). Hydrogen Generation, and its Venting from Nuclear Reactors. *Fire Safety Journal*. <https://doi.org/10.1016/j.firesaf.2020.102968>
 43. Hernandez-Romero P., **Patiño-Gomez, C.**, **Martinez-Austria, P.**, **Corona-Vásquez, B.** (2019). Rainfall/Runoff Hydrological Modeling Using Satellite Precipitation Information. *Air, Soil and Water Research Journal*. Aceptado con cambios menores para su publicación en 2020.
 44. Cinnamaldehyde-loaded chitosan nanoparticles: characterization and antimicrobial activity. Soto-Chilaca, G.; Mejía-Garibay, B.; **Navarro-Amador, R.**; Ramírez-Corona, N.; Palou, E.; López-Malo, A. August 2019, *Biointerface Research in Applied Chemistry* 9(4):4060-4065.
 45. Romero Gil, J.A., **Corona Vásquez, B.**, **Patiño Gómez, C.** Modelado de redes de distribución de agua potable con servicio intermitente. *Revista Entorno UDLAP*. Aceptado en noviembre de 2018 para su publicación en enero 2019. ISSN 2594-0147 (digital) e ISSN 2594-0155 (impresa)

46. **Martínez-Austria, P.;** Vargas-Hidalgo, A.; **Patiño-Gómez, C. (2019)** *Dynamic modelling of the climate change impact in the Conchos River basin water management*. Tecnología y Ciencias del Agua. Vol. 10, número 1. Enero- febrero. ISSN 0187-8336
47. Bandala, E.R.; Kebede, K.; Jonsson, N.; Murray, R.; Green, D.; Mejía, J.F.; **Martínez-Austria, P.F. (2019)** *Extreme heat and mortality rates in Las Vegas, Nevada: Inter-annual variations and thresholds*. International Journal of Environmental Science and Technology. Published on line 10 April 2019. ISSN: 1735-1472, e ISSN 1735-2630, doi: 10.1007/s13762-019-02357-9
48. **Martínez-Austria, P.;** Díaz-Delgado, C.; Moeller-Chavez, G. **(2019)** *Seguridad hídrica en México. Diagnóstico general y desafíos principales*. Ingeniería del Agua. Vol. 23, núm. 2. Páginas 107-121. Doi: <https://doi.org/10.4995/ia.2019.10582> eISSN 1886-4996 ISSN 1134-2
49. Hernández Romero, P., **Patiño Gómez, C., Corona Vásquez, B., Martínez Austria P. (2019)**. Índice de escasez: ¿un indicador de disponibilidad o una herramienta para la gestión del agua? Revista Entorno UDLAP. Número 9. Diciembre 2019. Páginas 18-23. ISSN 2594-0147 (digital) e ISSN 2594-0155 (impresa).
50. **Palacios A,** Casal J, Bradley D. **(2019)** Prediction of Lift-Off Distance in Choked and Subsonic Hydrogen Jet Fires. Catalysis Today. 329: 221–224. <https://doi.org/10.1016/j.cattod.2017.11.024>, ISSN:
51. Wang Q, Hu L, **Palacios A,** Chung SK. **(2019)** Burning characteristics of candle flames in sub-atmospheric pressures: an experimental study and scaling analysis. Proceedings of The Combustion Institute. 37: 2065–2072. DOI:10.1016/j.proci.2018.06.113.
52. Foroughi V, Cavini A, **Palacios A,** Albó K, Àgueda A, Pastor E, Casal J. **(2019)** Domino Effect by Jet Fire Impingement in Pipelines. Chemical Engineering Transactions. 77: 931-936. DOI: 10.3303/CET1977156 , ISSN: 22839216
53. **Sanchez-Salas J.L.,** Maldonado-Barragan A.M. and Reyna S. **2018**. Probable effects of Climate change on infectious diseases in North America. Entorno UDLAP. 6: 13-27.
54. Osorio de la Rosa, E., Becerra Nuñez, G., Palafox Roca, O.A., **Ledesma-Alonso, R. (2019)** An Empiric-Stochastic Approach, Based on Normalization Parameters, to Simulate Solar Irradiance. J. Sol. Energy Eng. Dec 2019, 141(6): 061011 (9 pages) DOI: 10.1115/1.4043863, ISSN: 0199-6231, eISSN: 1528-8986
55. Review: Sulfate removal from drinking water. A. A. Quintana-Baquedano, **D. X. Flores-Cervantes, J.L. Sanchez-Salas.** For consideration.
56. **Patino-Gomez, C.,** Guevara-Polo, D.E., **Martínez-Austria P., Corona-Vasquez, B.** Vulnerability analysis for the Mexican Valle de Puebla aquifer supported by the fourth industrial revolution. Groundwater Monitoring and Remediation Journal, USA. In preparation
57. **Patino-Gomez, C.,** Constantino-Ortiz, R. Remediation actions for the rescue of the Mexican Tecamachalco Valley aquifer. Groundwater Monitoring and Remediation Journal, USA. In preparation

Books and book chapters

Books

2022

1. Agua, cambio. Climático. y eventos extremos. Editores: Polioptro F. Martínez Austria, Regina Mijares Fajardo, David Eduardo Guevara Polo. Editorial UDLAP, Puebla, México. 2022. Cátedra UNESCO en Riesgos Hidrometeorológicos. 193 páginas. ISBN: 978-607-8674-60-2

2018

2. Patiño Gómez, C., Hernández Romero, P. (2020). Modelación hidrológica y cambio climático. Capítulo 7 pp. 125-145. En Cambio Climático y riesgos hidrometeorológicos. Martínez-Austria, P.; Corona-Vasquez, B.; Patiño-Gomez, C. (Editores) Universidad de las Américas Puebla. Cátedra UNESCO en Riesgos Hidrometeorológicos. 218 páginas. ISBN 9786078674251

3. La Cuenca del Río Bravo y el Cambio Climático. Editor **Martínez-Austria P.** Editorial UDLAP, Puebla, México. 2018. Cátedra UNESCO en Riesgos Hidrometeorológicos. 250 páginas. ISBN 978-607-84-9.

2015

1. Raynal V. J.A., Corona V.B., **Patiño Gómez C.**, Raynal Gutierrez M.E, **Martínez Austria, P.**, Editors (2015) Hydrometeorological Risks and Climate Change. Proceedings of the International Conference held at Universidad de las Américas Puebla, México. ISBN 978-607-7690-41-2.

2. Torres L.G., **Bandala E.R.** (Eds). 2014. **Energy and Environment Nowadays.** Nova Publishers (In press).

3. Torres L.G., **Bandala E.R.** (Eds). 2013. **Restoration of soil and aquifers in Mexico: Fundamentals and field experiences.** FUNDAp. Mexico. (ISBN: 978-607-513-036-1).

Book chapters

2022

1. Coy Aceves L.E., Sánchez-Salas J.L., Cerro-López M., Méndez-Rojas M.A., Corona-Vázquez B. 2021. *Microbial photobioelectrochemical systems: a scoping review*. Ch 14. 2022, In *“Technology, Science and Culture: A Global Vision, Volume III”* Edited by Hernández L.R. and Serrano Meneses M.A. DOI: 10.5772/intechopen.99973. IntechOpen Limited, London U.K.

2. Bautista-Guerrero A. Sanchez-Salas J.L. 2022. *The roll of different kind of fungi to eliminate Lignin and organochlorines: a review*. In *“Technology, Science and Culture: A Global Vision, Volume IV”* Edited by Hernández L.R. and Serrano Meneses M.A. IntechOpen Limited, London U.K.

3. A.A. Quintana Baquedano, J.L. Sanchez Salas, Deborah Xanat Flores Cervantes. 2022. *Technologies and materials for sulfate removal in water: A Review*. In *“Technology, Science and Culture: A Global Vision, Volume IV”* Edited by Hernández L.R. and Serrano Meneses M.A. IntechOpen Limited, London U.K.

4. Sánchez-Salas J.L., Maldonado-Barragán A.M. and Reyna S. *Probable effects of climate change on infectious diseases in North America*. Chapter 9. 2022. In *“Agua, cambio Climático y eventos extremos”*. Edited by Martínez Austria P.F., Mijares Fajardo R. and Guevara Polo D.E. UDLAP, Mexico.

5. Pihen Martínez V., and Sánchez-Salas J.L. 2021. *Methods for persistent organic pollutants removal in wastewater: A review*. Ch 13. 2022, In *“Technology, Science and Culture: A Global Vision, Volume III”* Edited by Hernández L.R. and Serrano Meneses M.A. DOI: 10.5772/intechopen.99973. IntechOpen Limited, London U.K.

6. Celina Sanchez-Sanchez, Guillermo Baquerizo and Ernestina Moreno-Rodríguez. *Technology, Science and Culture: A Global Vision, Volume III*. In: Hernández, L. R. , Meneses, M. A. S. , editors. *Technology, Science and Culture - A Global Vision, Volume III [Internet]*. London: IntechOpen; 2022 [cited 2022 Jun 23]. Available from: <https://www.intechopen.com/chapters/80594> doi: 10.5772/intechopen.99973

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7. Patino-Gomez C., Hernandez-Romero P. (2020) *Data Models for River-Basin Management in Mexico*. In: Raynal-Villasenor J. (eds) *Water Resources of Mexico*. World Water Resources, vol 6. Springer, Cham. ISBN:9783030406868.

8. Patiño Gómez, C., Hernández Romero, P. (2020). Modelación hidrológica y cambio climático. Capítulo 7 pp. 125-145. En *Cambio Climático y riesgos hidrometeorológicos*. Martínez-Austria, P.; Corona-Vasquez, B.; Patiño-Gomez, C. (Editores) Universidad de las Américas Puebla. Cátedra UNESCO en Riesgos Hidrometeorológicos. 218 páginas. ISBN 9786078674251
9. Patiño-Gómez C.; Hernández Romero P. Chapter 5 "Data models for river basin management in Mexico". Capítulo de libro. Editorial: Springer. Aceptado. En proceso editorial. Publicación 2020.

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10. Hernández-Romero, Paul; Patiño-Gómez, Carlos; Corona-Vásquez, Benito, Martínez-Austria, P. F. (2019) *Hydrological Modelling in the Rio Conchos Basing Using Satellite Information in Technology, Science, and Culture: a Global Vision*. Proceedings. Universidad de las Américas Puebla, November 6, 2018. Pages 69-76. IntechOpen. ISBN: 978-1-78985-274-5
11. Ramirez-Corona N., Palacios A. (2019) Chapter 1. Generalities about process intensification in *Process Intensification: Design Methodologies*. Eds. F. I. Gomez-Castro, J.G. Segovia-Hernandez. De Gruyter. 338 pp. (pp. 1–14). Berlin, Boston: De Gruyter. <https://doi.org/10.15159783110596120-001>, ISBN: 9783110596076

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12. Patiño Gómez, C., Hernández Romero, P. (2018). Sistema de Información Geográfica Binacional de la cuenca del río Bravo. Capítulo 9 pp. 198-209. En *La cuenca del río Bravo y el Cambio Climático*. Martínez-Austria, P. (Editor) Universidad de las Américas Puebla. Cátedra UNESCO en Riesgos Hidrometeorológicos. 250 páginas. ISBN 978-607-84-9.
13. Hernández Romero, P., Patiño Gómez, C. (2018) Modelación hidrológica de la cuenca alta del río Conchos. Capítulo 11 pp. 230-250. En *La cuenca del río Bravo y el Cambio Climático*. Martínez-Austria, P. (Editor) Universidad de las Américas Puebla. Cátedra UNESCO en Riesgos Hidrometeorológicos. 250 páginas. ISBN 978-607-84-9.
14. Bandala Gonzalez E. y Sanchez Salas J.L. (2018) Evaluación de sistemas y tecnologías de tratamiento de agua y su calidad en la cuenca del Río Bravo. Capítulo 2 pp. 40-65. En *La cuenca del río Bravo y el Cambio Climático*. Martínez-Austria, P. (Editor) Universidad de las Américas Puebla. Cátedra UNESCO en Riesgos Hidrometeorológicos. 250 páginas. ISBN 978-607-84-9.
15. Sanchez-Salas, J. L., Flores-Cervantes, D.X., Bandala, E.R., Water recalcitrant contaminants: Sources, Assessment and Remediation. In: Holm, M. D., Lund, M.C., ed.

Wastewater and Water Contamination: Sources, Assessment and Remediation, Nova Science Publishers, Inc., New York, 2018, 1-76.

16. Romero Morán , J. Molina Reyes, J.L. Sanchez Salas, *Study of titania nanoparticles based films as photoactive elements for water decontamination, XXVII International Materials Research Congress 2018, August 1924, 2018, Cancún, Mexico.*

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1. **Raynal V., J. A.**, Posibles Impactos del Cambio Climático Global en la Evaporación Potencial y en la Deficiencia en el Contenido de Humedad en Tres Cuencas Hidrológicas de México, Agua y Desarrollo Local ante el Cambio Climático, L. A. Villareal, I. Ocampo y M. L. Hernández, eds., Altres Costa-Amic editores, Puebla, Pue., México, 2014.

2. **Raynal V., J. A.** y Sánchez S., C., Posibles Escenarios del Impacto del Cambio Climático Global en las Cuencas de los Ríos Baluarte, Culiacán y Sinaloa, México, Memorias del XXIII Congreso Nacional de Hidráulica, Noviembre de 2014

3. **Raynal V., J. A.** y Sánchez S., C., Posibles Escenarios del Impacto del Cambio Climático Global en la Cuenca del Río Lerma, México, Memorias del XXIII Congreso Nacional de Hidráulica, Noviembre de 2014.

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