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## Employment

### Departamento de Ingeniería Industrial

Universidad de Sonora  
Mexico  
1 Jan 1942 → present

### Ingeniería Sustentable

Universidad de Sonora  
Mexico  
1 Jan 1942 → present

## Research outputs

Reaching the sustainable development goals 2030: energy efficiency as an approach to corporate social responsibility (CSR)

Nurunnabi, M., Esquer, J., Munguía, N., Zepeda, D., Perez, R. & Velazquez, L., 1 Jan 2019, (Accepted/In press) In: *GeoJournal*. 85, 2, p. 363-374 12 p.

### Pollution prevention for sustainability

Esquer Peralta, J., Munguía Vega, N. E. & Guzman Grijalva, H. M., 26 Oct 2018, *Encyclopedia of Sustainability in Higher Education*. Filho, W. L. (ed.). Cham: Springer International Publishing AG, Vol. Online. p. 1-14 14 p.  
[https://doi.org/10.1007/978-3-319-63951-2\\_259-1](https://doi.org/10.1007/978-3-319-63951-2_259-1)

### Sustainability strategies for coastal aquifers: A case study of the Hermosillo Coast aquifer

Zepeda Quintana, D. S., Loeza Rentería, C. M., Munguía Vega, N. E., Peralta, J. E. & Velazquez Contreras, L. E., 10 Sep 2018, In: *Journal of Cleaner Production*. 195, p. 1170-1182 13 p.

### Driving competitive advantage through energy efficiency in Mexican maquiladoras

Munguía, N., Vargas-Betancourt, N., Esquer, J., Giannetti, B. F., Liu, G. & Velazquez, L. E., 20 Jan 2018, In: *Journal of Cleaner Production*. 172, p. 3379-3386 8 p.

### Fostering corporate sustainability in the Mexican coffee industry

Munguía, N., Varela, A., Esquer, J. & Velázquez Contreras, L. E., 13 Apr 2017, In: *PSU Research Review*. 1, 1, p. 51-62 12 p.

### Cleaner production in a remanufacturing process of air compressors

Esquer, J., Arvayo, J. A., Alvarez-Chavez, C. R., Munguía-Vega, N. E. & Velazquez, L., 2 Jan 2017, In: *International Journal of Occupational Safety and Ergonomics*. 23, 1, p. 83-91 9 p.

### Characterization of Extruded Poly(lactic acid)/Pecan Nutshell Biocomposites

Álvarez-Chávez, C. R., Sánchez-Acosta, D. L., Encinas-Encinas, J. C., Esquer, J., Quintana-Owen, P. & Madera-Santana, T. J., 2017, In: *International Journal of Polymer Science*. 2017, 3264098.

### Detection of allergen sources in the homes of sensitized children

Álvarez-Chávez, C. R., Flores-Bernal, J. L., Esquer-Peralta, J., Munguía-Vega, N. E., Corella-Madueño, M. A. G., Rascón-Careaga, A., Turcotte, D. & Velázquez-Contreras, L. E., 1 Nov 2016, In: *Environmental Health and Preventive Medicine*.

21, 6, p. 531-538 8 p.

**Life cycle assessment for printed newspapers in Northwestern Mexico**

Esquer, J., Vaeza-Gastélum, C., Remmen, A., Alvarez-Chávez, C. R. & Velázquez, L. E., 4 May 2015, In: *International Journal of Sustainable Development and World Ecology*. 22, 3, p. 259-268 10 p.

**Cleaner production and pollution prevention at the electronic and electric Mexican maquiladora**

Velazquez, L., Munguia, N., Zavala, A., Esquer, J., Will, M. & Delakowitz, B., 1 Aug 2014, In: *Management of Environmental Quality: An International Journal*. 25, 5, p. 600-614 15 p.

**Sustainable learning organizations**

Velazquez, L. E., Esquer, J., Munguía, N. E. & Moure-Eraso, R., Jan 2011, In: *Learning Organization*. 18, 1, p. 36-44 9 p.

**Industrial engineering's perspective of CSR**

Luis, V., Nora, M., Andrea, Z., Javier, E. & Amina, M., 2010, *Professionals Perspectives of Corporate Social Responsibility*. Springer Berlin Heidelberg, p. 177-189 13 p.