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Ramírez-Pisco, Rodrigo

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Rivera-Baena, Oscar Daniel

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Rivera-Cadavid, Leonardo

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Rocha-Gál, Biviana Esperanza

Unified matrix for environmental impact assessment applied to water resources, Chicamocha River case study// redin-Revista Facultad de Ingeniería. No. 111. (Apr-Jun); pp. 76-87.

Rodríguez-Camacho, Miguel Ángel

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Emissions and trajectories of atmospheric pollutants from mobile sources in a Colombian intermediate city// redin-Revista Facultad de Ingeniería. No. 113. (Oct-Dec); pp. 50-57.

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Evaluating the IMERG precipitation satellite product to derive intensity-duration-frequency curves in Colombia// redin-Revista Facultad de Ingeniería. No. 110. (Jan-Mar); pp. 31-47.

Rodríguez-Rodríguez, Alberto

Assessment of the mechanical and environmental behavior of diesel engines operating with biodiesel mixtures// redin-Revista Facultad de Ingeniería. No. 111. (Apr-Jun); pp. 9-20.

Rojas-Sarmiento, Hugo Alfonso

Titania modifications with fluoride, sulfate, and platinum for photochemical reduction of chromium (VI)// redin-Revista Facultad de Ingeniería. No. 112. (Jul-Sep); pp. 86-97.

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Effect of binder type and application rate on asphalt layer bonding evaluated by LCB test// redin-Revista Facultad de Ingeniería. No. 113. (Oct-Dec); pp. 28-36.

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Comparison of treatments for cellulose pulp from agro-industrial wastes from the Amazon region// redin-Revista Facultad de Ingeniería. No. 110. (Jan-Mar); pp. 77-85.

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Performance of an Archimedes screw turbine with spiral configuration for hydrokinetic applications// redin-Revista Facultad de Ingeniería. No. 111. (Apr-Jun); pp. 55-63.

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Rudas-Flórez, Juan Sebastián

Heat flow modeling in the alkaline activation process of fly ash// redin-Revista Facultad de Ingeniería. No. 111. (Apr-Jun); pp. 31-37.

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Extruded snacks from rice, green lentil, chickpea and tomato powder finished with frying/microwave roasting// redin-Revista Facultad de Ingeniería. No. 112. (Jul-Sep); pp. 23-33.

Suárez-Matarrita, Leonardo

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Tobón-Espinosa, Daniel Felipe

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Energy and economic characterization of the traditional drying of cocoa beans in greenhouses// redin-Revista Facultad de Ingeniería. No. 113. (Oct-Dec); pp. 114-124.

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Vásquez-Alzate, Juan Sebastián

Energy and economic characterization of the traditional drying of cocoa beans in greenhouses// redin-Revista Facultad de Ingeniería. No. 113. (Oct-Dec); pp. 114-124.

Vásquez-Stanescu, Carmen Luisa

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Vásquez-Uribe, Juan Felipe

Energy and economic characterization of the traditional drying of cocoa beans in greenhouses// redin-Revista Facultad de Ingeniería. No. 113. (Oct-Dec); pp. 114-124.

Vatankhah, Hamed

Extruded snacks from rice, green lentil, chickpea and tomato powder finished with frying/microwave roasting// redin-Revista Facultad de Ingeniería. No. 112. (Jul-Sep); pp. 23-33.

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Performance of an Archimedes screw turbine with spiral configuration for hydrokinetic applications// redin-Revista Facultad de Ingeniería. No. 111. (Apr-Jun); pp. 55-63.

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Flaw recognition in reinforced concrete bridges using infrared thermography: A case study// redin-Revista Facultad de Ingeniería. No. 110. (Jan-Mar); pp. 99-109.

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Effects of shear wave velocity and soil structure interaction on the structural pounding during earthquakes// redin-Revista Facultad de Ingeniería. No. 112. (Jul-Sep); pp. 9-22.

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Methods for evaluation of corrosion rate on magnesium alloys: a review// redin-Revista Facultad de Ingeniería. No. 112. (Jul-Sep); pp. 111-131.