

Special Issue on
Chemical Management and Treatment of Agriculture and Food Industries Wastes

CALL FOR PAPERS

Agriculture and related industries are one of the most strategic sectors for many countries. Agricultural residues are obtained from crops and livestock residues. Currently, the worldwide total harvest areas of cereals, primary oil crops, pulses, roots and tubers, and primary fiber crops are around 721.4×10^6 , 301.9×10^6 , 85.2×10^6 , 61.9×10^6 , and 37.7×10^6 ha, respectively. The worldwide industrial production of raw centrifugal sugar, molasses, oil palm, and oil soybean is around 176.9×10^6 , 61.0×10^6 , 57.3×10^6 , and 45.7×10^6 tones, respectively. In general, the agro-food industry is increasingly modern and automated with a single objective that is to increase its production to meet the needs of the market and fulfill the economic objectives. Parallel to these agricultural and industrial activities, large volumes of solid and liquid residues are generated that present a serious environmental problem in the case of not being well treated or managed. Considering the current social and scientific development, all these residues nowadays can be transformed to byproducts with the aim to be reused as a new product useful to the society.

This special issue tries to receive works to establish the state of the art for the agricultural and food industries residues, either in solid or in liquid state. The special issue will welcome manuscripts about the management and treatment methods of solid and liquid wastes. Special attention will be given to works about the valorization of wastes as a source for sustainable bioenergy, water recirculation, and waste composting, where conventional and unconventional techniques are used. Methods for the exploitation of forest and municipal wood wastes for energy generation will also be considered. We invite investigators to submit original research manuscripts and reviews to this special issue.

Potential topics include but are not limited to the following:

- ▶ Agricultural crop residues for energy recovery and animal feed
- ▶ Food industries residues for water and energy regeneration
- ▶ Wastes management and composting
- ▶ Residues from industrial oil crops: management and treatment
- ▶ Residues of olive industries: management and treatment
- ▶ Lignocellulosic wastes as feedstocks for biofuels and biochar production
- ▶ Waste conversion to biogas, compost, and fertilizers
- ▶ Wastewater treatment methods
- ▶ Waste management and policies
- ▶ Advances in liquid and solid state wastes treatment techniques and management
- ▶ Separation of phenolic compounds with high added value from agro-industrial wastes
- ▶ Valorization of agriculture and industrial byproducts to new useful products

Authors can submit their manuscripts through the Manuscript Tracking System at <https://mts.hindawi.com/submit/journals/jchem/environmental.chemistry/afw/>.

Papers are published upon acceptance, regardless of the Special Issue publication date.

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