

Special Issue

Production and Improvement of Carbon Anodes

Message from the Guest Editor

Canada is one of the major producers and exporters of aluminum with an annual production of approximately three million tonnes. Aluminum is produced electrolytically using carbon anodes. The anodes are made of calcined petroleum coke, butts, rejected anodes, and coal tar pitch. These are fist mixed. Then, the anode paste is vibro-compacted or pressed to produce green anodes followed by cooling and baking of green anodes. Anode quality strongly influences the cell operation. Therefore, it is important to use high quality anodes and to apply 'best practices' in cell operation for cost-effective, environment-friendly, and energy-efficient aluminum production. The raw material quality, utilization of alternative raw materials, operational parameters of each process affect the anode quality. This issue will cover the results of the latest research on the anode production, and improvement carried out by the experts in this field.

Guest Editor

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As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal *Applied Sciences* has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

Editor-in-Chief

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