

Résumé du colloque Rewas'99

Global Symposium on Recycling, Waste Treatment and Clean Technology - Rewas'99 San Sebastian, Espagne, du 5 au 9 septembre 1999

Valérie Laforest

École nationale supérieure des mines de Saint-Etienne

Afin d'améliorer la synergie entre les communautés techniques et scientifiques axant leurs recherches sur la réduction des impacts environnementaux des 5 continents, les organisateurs de REWAS ont décidé de focaliser l'édition 99 sur le recyclage, le traitement des déchets et les technologies propres.

Avec ses sept sessions en parallèle sur trois jours et plus de 350 participants, ce congrès international montre une implication mondiale des recherches en vue de la réduction des impacts environnementaux.

Les différents thèmes abordés - technologies propres, rémédiation des sols, technologies de traitement des déchets, traitement des effluents aqueux, traitement des métaux lourds, conversion et utilisation des déchets, recyclage des ferreux et non-ferreux, recyclage de l'aluminium, etc. - mettent en avant l'ensemble des actions pouvant être effectué pour réduire les pollutions industrielles.

Une des préoccupations majeures de ce congrès fut le traitement des déchets. Nous avons pu nous rendre compte des différentes nouvelles méthodes de traitement ou de valorisation développées pour les déchets médicaux, d'arsenic et d'uranium mais aussi pour les boues d'hydroxydes, les piles domestiques ou encore les déchets automobiles. De nombreuses techniques ont été développées sur ce sujet en abordant d'une part la faisabilité technique et d'autre part, la faisabilité économique.

Un autre sujet prédominant a été le traitement des effluents. Le traitement des métaux en phase aqueuse reste le domaine le plus étudié et laisse apparaître non pas de nouvelles méthodes de traitement ou de valorisation mais de nouvelles applications. Nous voyons se développer des technologies cryomagnétiques ou encore d'autres utilisant les micro-organismes.

Outre les procédés de traitement ou de valorisation des déchets, les outils de modélisation ou d'aide à la décision sont en plein essor. Nous pouvons noter le développement d'un modèle de prédiction des sorties matière afin de choisir la technique de traitement ayant l'impact environnemental le

plus faible ou encore d'un outil d'aide aux choix des procédés de valorisation des effluents du traitement de surface.

Ce congrès de grande envergure a été, par le nombre de participants ainsi que la quantité et la validité des présentations, une réussite.

La fausse note : la quantité importante de présentation a conduit les organisateurs à mettre en parallèle un certain nombre d'exposés. Cette organisation n'a pas permis de suivre la totalité des exposés correspondant à un sujet particulier.

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Rewas 99 Global Symposium On Recycling Waste Treatment And Clean Technology

I. Gaballah,J. Hager,R. Solozabal



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Meskers, Elsa Olivetti, Diran Apelian, John Howarter, Anne Kvithyld, Brajendra Mishra, Neale Neelameggham, Jeff Spangenberg, 2016-11-22 Topics covered in this collection include the following Enabling Understanding Sustainability Ferrous Non ferrous Metals Processing Understanding Enabling Sustainability Rechargeable Batteries Enabling Understanding Sustainability Rare Earth Element Applications Enabling Understanding Sustainability Building Materials Slag Valorisation Designing Materials and Systems for Sustainability Understanding Enabling Sustainability Light Metals Recycling Waste Valorisation Understanding Enabling Sustainability Education Research Innovation I Understanding Enabling Sustainability Education Research Innovation II Electronic Equipment Resource Recovery and Recycling from Metallurgical Wastes S.R. Ramachandra Rao, 2011-08-29 Resource recovery and recycling from millions of tons of wastes produced from industrial activities is a continuing challenge for environmental engineers and researchers Demand for conservation of resources reduction in the quantity of waste and sustainable development with environmental control has been growing in every part of the world Resource Recovery and Recycling from Metallurgical Wastes brings together the currently used techniques of waste processing and recycling their applications with practical examples and economic potentials of the processes Emphasis is on resource recovery by appropriate treatment and techniques Material on the subject is scattered in waste management and environmental related journals conference volumes and government departmental technical reports This work serves as a source book of information and as an educational technical reference for practicing scientists and engineers as well as for students Describes the currently used and potential techniques for the recovery of valuable resources from mineral and metallurgical wastes Discusses the applications to specific kinds of wastes with examples from current practices as well as the economics of the processes Presents recent and emerging technologies of potentials in metal recycling and by product utilization **Fourth International Symposium on Recycling of Metals and Engineered Materials** Donald L. Stewart, Jr., James C. Daley, Robert L. Stephens, 2013-10-07 This proceedings collection continues the tradition established by earlier TMS Recycling Meetings in this series by presenting fundamental

and practical aspects of recycling metals and engineered materials This collection concentrates on fundamental and applied research and industrial practices in the recycling of a wide variety of materials including aluminum scrap recycling aluminum dross processing aluminum by product recovery automotive recycling magnesium EAF dust processing secondary zinc secondary lead secondary copper nickel precious metals recycling refractory recycling and electronics plating

Proceedings of the "Rewas'99 Global Symposium on Recycling, Waste Treatment and Clean Technology" Held in San Sebastian, Spain, September 5-9, 1999 I. Gaballah, John P. Hager, R. Solozabal, 1999 *Proceedings of the International Conference on Environmental Management in Metallurgical Industries (EMMI-2000)*, 2000 *Proceedings of the 5th International Symposium Honoring Professor Ian M. Ritchie* Courtney Young, Akram Alfantazi, Corby Anderson, David Dreisinger, Bryn Harris, Amy James, 2013-09-19 Sponsored by The Extraction and Processing Division EPD of TMS The Mineral and Metallurgical Processing Division MPD of SME Metallurgical Society MetSoc of CIM 2003 TMS EPD Fall Meeting held in conjunction with 33rd Annual Hydrometallurgy Meeting and 2003 Conference of Metallurgists Vancouver BC Canada August 24 27 2003 *Waste Recycling Technologies for Nanomaterials Manufacturing* Abdel Salam Hamdy Makhlouf, Gomaa A. M. Ali, 2021-05-09 This book discusses the recent advances in the wastes recycling technologies to provide low cost and alternative ways for nanomaterials production It shows how carbon nanomaterials can be synthesized from different waste sources such as banana fibers argan *Argania spinosa* seed shells corn grains camellia *oleifera* shell sugar cane bagasse oil palm empty fruit bunches and leaves and palm kernel shells Several nanostructured metal oxides MnO_2 Co_3O_4 can be synthesized via recycling of spent batteries The recovered nanomaterials can be applied in many applications including Energy supercapacitors solar cells etc water treatments heavy metal ions and dyes removal and other applications Spent battery and agriculture waste are rich precursors for metals and carbon respectively The book also explores the various recycling techniques agriculture waste recycling batteries recycling and different applications of the recycled materials **A review on indicators of sustainability for the minerals extraction industries** Roberto C. Villas Bôas, Deborah J. Shields, Slavko V. Šolar, Paul Anciaux, Güven Önal, 2005 **Aluminum Recycling, Second Edition** Mark E. Schlesinger, 2013-12-21 What makes this book unique is a specific focus on aluminum recovery rather than just recycling in general It also offers an integrated discussion of scrap recovery and re melting operations and includes economic as well as technical elements of recycling Important topics include a discussion of the scrap aluminum marketplace and how secondary aluminum is collected and sorted the design and operation of furnaces for melting scrap the refining of molten aluminum and the recovery and processing of dross from re melting operations This second edition features more information on aluminum scrap pricing and the economics of recycling the analysis of dross processing methods currently in use by the industry and drosses produced The book has been updated throughout to include the most up to date information **Mineral Processing on the Verge of the 21st Century** C. Hicyilmaz, 2017-10-06 This collection of papers covers many topics in the

area of mineral processing such as physical enrichment processing fine particle processing flotation fundamentals and technology industrial minerals processing and waste treatment and utilization

Combined Application of Physico-Chemical & Microbiological Processes for Industrial Effluent Treatment Plant Maulin Shah,Aditi Banerjee,2020-03-30

In recent decades scientific insight into the chemistry of water has increased enormously leading to the development of advanced wastewater and water purification technologies However the quality of freshwater resources has continually deteriorated worldwide both in industrialized and developing countries Although traditional wastewater technologies focus on the removal of suspended solids nutrients and bacteria hundreds of organic pollutants occur in wastewater and urban surface waters These new pollutants are synthetic or naturally occurring chemicals that are not often monitored in the environment but have the potential to enter the environment and cause known or suspected adverse ecological and or human health effects Collectively referred to as the emerging contaminants they are mostly derived from domestic use and occur in trace concentrations ranging from pico to micrograms per liter Environmental contaminants are resistant to conventional wastewater treatment processes and most of them remain unaffected leading to the contamination of the receiving water As such there is a need for advanced wastewater treatment process that is capable of removing environmental contaminants to ensure safe fresh water supplies This book explains the biological and chemical wastewater treatment technologies The biological wastewater treatment processes presented include 1 bioremediation of wastewater such as aerobic and anaerobic treatment 2 phytoremediation of wastewater using engineered wetlands rhizofiltration rhizodegradation phytodegradation phytoaccumulation phytotransformation and hyperaccumulators and 3 mycoremediation of wastewater The chemical wastewater treatment processes discussed include chemical precipitation ion exchange neutralization adsorption and disinfection In addition the book describes wastewater treatment plants in terms of plant size layout and design as well as installation location Also presenting the latest innovative effluent water treatment processes it is a valuable resource for biochemical and wastewater treatment engineers environmental scientists and environmental microbiologists

Essential Readings in Light Metals, Volume 1, Alumina and Bauxite Don Donaldson,Benny Raahauge,2017-01-04 ONE OF A FOUR BOOK COLLECTION SPOTLIGHTING CLASSIC ARTICLES Five decades of landmark original research findings and reviews Highlighting some of the most important findings reported over the past five decades this volume features some of the best technical papers published on alumina and bauxite from 1963 to 2011 Papers have been divided into thirteen subject sections for ease of access Each section has a brief introduction and a list of recommended articles for researchers interested in exploring each subject in greater depth Only about fifteen percent of the alumina and bauxite papers ever published in Light Metals were chosen for this volume Selection was based on a rigorous review process Among the papers readers will find landmark original research findings and expert reviews summarizing current thinking on key topics at the time of publication From basic research to advanced applications the articles published in this volume

collectively represent our body of knowledge in alumina and bauxite Students scientists and engineers should turn to this volume to discover the historical development of alumina and bauxite research as well as the current state of the science and the technology Moreover the papers published in this volume will serve as a springboard for future research and discoveries

Agglomeration in Metallurgy Aitber Bizhanov,Valentina Chizhikova,2019-09-03 This book gives details on the processes of agglomeration and its role in modern metal production processes It starts with a chapter on sinter production also discussing the quality of sinter and environmental aspects involved on the process The following chapters focus on pellet production and briquetting of natural and anthropogenic raw materials It also highlights the best available technologies for briquetting by stiff extrusion

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