

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

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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.

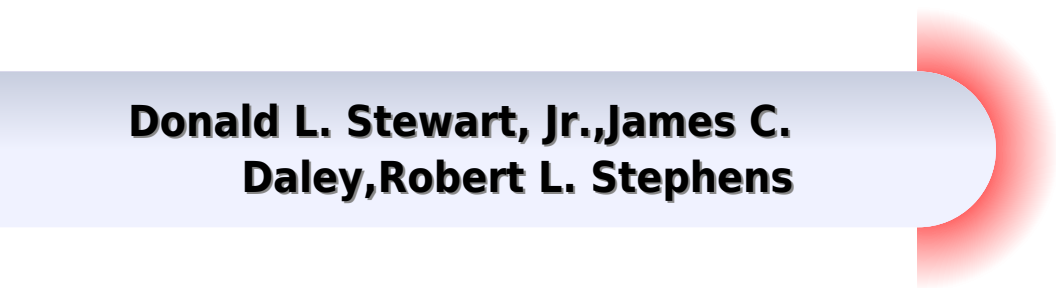
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Rewas 99 Global Symposium On Recycling Waste Treatment And Clean Technology

**Donald L. Stewart, Jr., James C.
Daley, Robert L. Stephens**



Rewas 99 Global Symposium On Recycling Waste Treatment And Clean Technology:

REWAS '99, Global Symposium on Recycling, Waste Treatment and Clean Technology I. Gaballah, John P. Hager, Rodolfo Solozabel, 1999 *REWAS '99 -- Global Symposium on Recycling, Waste Treatment and Clean Technology* I. Gaballah, John P. Hager, R. Solozabal, 1999 **REWAS 99** I. Gaballah, J. Hager, R. Solozabal, 1999 Proceedings of the September 1999 symposium which was jointly organized by the Spanish Centro Tecnológico de Materiales INASMET The Minerals Metals Materials Society TMS the Mining and Materials Processing Institute of Japan MMIJ and the European Commission DG XII Contributions include case studies and discussions of regulations but most are scientific technical descriptions of specific technologies Volume one 84 923445 39 contains 98 papers on waste treatment technologies waste conversion utilization general recycling radioactive wastes and paper and plastics recycling Volume two 84 923445 47 contains 87 papers on aluminum recycling non ferrous metal recycling precious metals recovery ferrous metal recycling heavy metal treatment and automotive shredding Volume three 84 923445 55 contains 86 papers on clean technology gaseous effluents aqueous effluent treatment and soil remediation **REWAS '99, Global Symposium on Recycling, Waste Treatment and Clean Technology** I. Gaballah, John P. Hager, Rodolfo Solozabel, 1999 *REWAS '04, Global Symposium on Recycling, Waste Treatment and Clean Technology* Ibrahim Gaballah, 2005 REWAS'99 - Global symposium on recycling, waste treatment and clean technology, held in San Sebastián, Spain, September 5-9 1999 I. Gaballah, J. Hager, R. Solozabal, 1999 *REWAS 2016* Randolph Kirchain, Bart Blanpain, Christina 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 **Rewas'04, Global Symposium on Recycling, Waste Treatment and Clean Technology** I. Gaballah, 2005 Proceedings of the International Conference on Environmental Management in Metallurgical Industries (EMMI-2000), 2000 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, 2013-09-12 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

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

Biohydrometallurgical Recycling of Metals from Industrial Wastes Hong Hocheng, Mital Chakankar, Umesh Jadhav, Swati Gurme, 2025-03-13 Although many available metal recycling methods are simple and fast they are also expensive and cause environmental pollution Biohydrometallurgical processing of metals offers an alternative to overcome these issues as the use of biological means not only helps to conserve dwindling ore resources but also fulfills the unambiguous need to extract metals in nonpolluting low energy and low cost way This book covers biohydrometallurgy and its application in the recovery of metals from secondary sources like wastes Fully updated for a new edition it provides readers with a comprehensive overview of different wastes for metal recovery and biological treatment methods that are both environmentally friendly and economically viable Offers a detailed explanation about generation of different metals containing industrial waste Explains traditional and new biological methods of recycling Reflects research advances across different industrial waste sources including electric vehicle batteries and LCDs from computers and other devices Focuses on each waste type and explores in detail the biohydrometallurgical recovery of metals from that waste Discusses fundamental microbial studies in bioleaching and updates about the use of emerging technologies and integrated techniques with different methods in combination for metal recovery Features a new chapter on techniques for metal extraction from bioleachate This book serves as an essential resource for researchers and professional engineers working in chemical and environmental engineering and biotechnology

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

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 *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. Hicilymaz, 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 **Current Topics in Elastomers Research** Anil K. Bhowmick, 2008-05-07 From weather proof tires and artificial hearts to the o rings and valve seals that enable successful space exploration rubber is an indispensable component of modern civilization Stiff competition and stringent application requirements foster continuous challenges requiring manufacturers to fund ever expanding research projects However this was **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

Rewas 99 Global Symposium On Recycling Waste Treatment And Clean Technology Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has been apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Rewas 99 Global Symposium On Recycling Waste Treatment And Clean Technology**," compiled by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we shall delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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 $\text{C}_5\text{H}_9\text{O} + \text{O}_2 \rightarrow \text{CO}_2 + \text{H}_2\text{O}$ $\text{Pb} + \text{H}_3\text{PO}_4 \rightarrow \text{H}_2\text{Pb}_3\text{PO}_4$ $2\text{Li}_3\text{N} + \text{NH}_4\text{NO}_3 \rightarrow \text{LiNO}_3 + \text{NH}_4\text{N}$

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blue c green d yellow 2 use colored pencils to circle the common atoms or compounds on each side of the equations to help
you determine the type of reaction it illustrates use the code below to classify each

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web mar 6 2017 1 the chemical reaction $2\text{H}_2\text{O} \rightarrow 2\text{H}_2 + \text{O}_2$ is a synthesis reaction decomposition reaction single displacement
reaction double displacement reaction combustion reaction you can recognize a decomposition or analysis reaction by
noticing a compound or molecule breaks into smaller chemical species 2 the chemical reaction

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web answer chemical kinetics is the branch of physical chemistry that is concerned with understanding the rates of chemical
reactions it is to be contrasted with thermodynamics which deals with the direction in which a process occurs but in

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web chemistry identifying chemical reactions answer key a structured organisation of the known chemical elements from

which they can make sense of their physical and chemical properties natural resources and synthetic materials chapter 6
may 2nd 2018 synthetic materials are made from natural resources synthetic materials are

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combustion decomposition single replacement or double replacement and predicting the reactions products an answer key is
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web 1 the chemical equations in model 1 contain the phase notations s l g and aq write each symbol by each meaning
dissolved in water liquid solid gas aq l s g 2 based on the

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web sep 16 2022 classify a chemical reaction as a synthesis decomposition single replacement double replacement or a
combustion reaction predict the products of simple reactions the chemical reactions we have described are only a tiny
sampling of the infinite number of chemical reactions possible

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for the reactions studied to use the results from the single replacement reactions to devise a partial activity series matter
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reaction d double displacement reaction e combustion reaction question 2

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web an answer key document has been included and is available for download some additional information to be aware of for
teachers demonstrations 1 and 5 will not produce a chemical reaction five of the reactions will produce indicators of a
chemical reaction for students to observe

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web identifying chemical reaction types key part 1 identify the type of reaction 1 $\text{Na}_3\text{PO}_4 + 3\text{KOH} \rightarrow 3\text{NaOH} + \text{K}_3\text{PO}_4$ double

displacement 2 mgcl_2 li_2co_3 mgco_3 2 licl double displacement 3 c_6h_{12} 9 o_2 6 co_2 6 h_2o combustion 4 pb feso_4 4 pbso_4 fe
single displacement 5 caco_3 cao co_2 decomposition 6 p_4 3 o_2 2 p_2o_3

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20 2 src_{12} 2 agn_3 sr no 2agcl 3 2 libr f_2 2 lif br_2 4 2 na f_2 5 f_2 br_2 b balance the chemical reactions and identify each type
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web 1 3nabr $1\text{h}_3\text{po}_4$ $1\text{na}_3\text{po}_4$ 3hbr type of reaction double displacement 2 3ca oh_2 1al_2 so_4 33caso_4 2al oh_3 type of reaction
double displacement 3 3mg $1\text{fe}_2\text{o}_3$ 2fe 3mgo type of reaction single displacement 4 $1\text{c}_2\text{h}_4$ 3o_2 2co_2 $2\text{h}_2\text{o}$ type of reaction
combustion 5 2pbso_4 2pbso_3 1o_2 type of reaction

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starting substances are called the reactants and the new substances that form are called the products

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differentiate between a physical and chemical change physical does not change the identity of the matter can be changed
back easily chemical new substance is created with new physical and chemical

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tensile strength of 65 ksi 450 mpa it has better mechanical properties than astm a36 steel astm a572 contains 5 yield point
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web it meets the requirements of both astm a 36 and astm a572 50 a 36 a572 50 s strength form ability and excellent welding properties make it suitable for a large variety of different applications a 36 a572 50 s yield strength is increased to 50 000 psi higher than that of a normal a 36

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web dec 31 2021 50 345 a 50 345 4 b 100 b all all all all 55 380 55 380 2 1 Ú2 64 all all all all 60 415 a 60 415 2 1 Ú2 c 64 c 2 50 all all 65 450 65 450 2 50 2 50 all all a in the above tabulation grades 42 50 and 60 290 345 and 415 are the yield point levels most closely approximating a geometric progression pattern

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