



RECOVERY OF GOLD FROM SECONDARY SOURCES, THE

Syed Sabir

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New discoveries of the properties of gold at a nanoscale, and its effective use in modern technologies, have been driving a virtual "gold rush". Depleting natural resources has meant that the recovery of gold continues to grow in importance and relevance.

The Recovery of Gold from Secondary Sources analyses the most advanced technology in gold recovery and recycling from spent sources of mobile phones, unwanted electronic equipment and waste materials. State-of-the-art techniques of hydrometallurgical and bio-metallurgical processing, leaching, cementing, adsorbing and separation through bio-sorbents are all described in detail, providing a guide for students and researchers. Discussion of environmentally friendly methods of recovery are presented, in order to provide modern-day alternatives to previous techniques. For those interested in the study of gold recovery this book gives a comprehensive overview of current recovery, making it the ultimate source of information for students, researchers, chemists, metallurgists, environmental scientists and electronic waste recovery experts.

Contents:

- Introduction (*S Syed*)
- Leaching of Gold from the Spent/End-of-Life Mobile Phone-PCBs using "Greener Reagents" (*Jae-chun Lee and Rajiv R Srivastava*)
- Electroless Displacement Deposition of Gold from Aqueous Source — Recovery from Waste Electrical and Electronic Equipment (WEEE) using Waste Silicon Powder (*Kenji Fukuda and Shinji Yae*)
- Adsorption of Gold on Granular Activated Carbons and New Sources of Renewable and Eco-Friendly Activated Carbons (*Gerrard Eddy Jai Poinern, Shashi Sharma, and Derek Fawcett*)
- Development of Novel Biosorbents for Gold and Their Application for the Recovery of Gold from Spent Mobile Phones (*Katsutoshi Inoue, Manju Gurung, Hidetaka Kawakita, Keisuke Ohto, Durga Parajuli, Bimala Pangei, and Shafiq Alam*)
- Environmentally Friendly Processes for the Recovery of Gold from Waste Electrical and Electronic Equipment (WEEE): A Review (*Isabella Lancellotti, Roberto Giovanardi, Elena Bursi, and Luisa Barbieri*)
- Study on the Influence of Various Factors in the Hydrometallurgical Processing of Waste Electronic Materials for Gold Recovery (*I Birloaga and F Vegliò*)

Readership: Students, researchers, chemists, metallurgists, environmental scientists and electronic waste recovery experts.

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