

RECOVERY OF PLATINUM FROM CHLORIDE LEACHING SOLUTION OF

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What is the process of platinum recovery? 2.1. Hydrometallurgical process. In hydrometallurgical process, PGMs are recovered by dissolving in aqua regia and acids, such as hydrochloric acid, nitric acid and sulfuric acid, in the presence of oxygen, iodine, bromine, chlorine, hydrogen peroxide, etc.

How do you dissolve platinum group metals? To dissolve the PGM's, about 5 grams of the catalyst in particulate form is slurried in 250 ml of sulfuric acid containing about 100 gpl H_2SO_4 , about 100 gpl NaBr and about 0.004 molar Br_2 for about 2 hours at $70^\circ C$. The invention is applicable to the dissolution of precious metals contained in electronic scrap.

What is the chemical recovery process? Chemical recovery concept generates economic value from the side-streams in kraft pulping by: Purifying raw methanol to commercial quality biomethanol. Producing commercial quality sulfuric acid on-site from concentrated non-condensable gases. Recovering high-quality lignin from black liquor.

What method is used to extract platinum? The mine walls are drilled and explosives are placed inside. Once detonated, the broken rock containing the platinum and other metals is transported to the surface for processing. The ore is crushed then subjected to 'froth floatation', and the resulting 'soapy' residue is heated up to 1,500 degrees Celsius.

Which mixture can dissolve platinum? Aqua regia is a mixture of nitric acid and hydrochloric acid, optimally in a molar ratio of 1:3. Aqua regia is a yellow-orange fuming liquid, so named by alchemists because it can dissolve the noble metals gold

and platinum.

What acid dissolves platinum? Platinum is chemically inert and will not oxidize in air at any temperature. It is resistant to acids and is not attacked by any single mineral acid but dissolves readily in aqua regia.

How to recover platinum from aqua regia? Platinum is dissolved as hexachloroplatinic acid ($\text{H}_2[\text{PtCl}_6]$) by aqua regia treatment, and it is precipitated as ammonium hexachloroplatinate ($(\text{NH}_4)_2[\text{PtCl}_6]$) by the addition of ammonium chloride to the solution. Pure platinum is recovered by the heat treatment of precipitated ammonium hexachloroplatinate.

What is the solvent recovery process? Some of the most common methods of solvent recovery include adsorption, membrane separation, and liquid-liquid extraction. Because solvents are useful in a variety of industries, recovery is also popular for many different types of organizations, such as: Pharmaceuticals.

What is involved in the recovery process? The process of recovery is highly personal and occurs via many pathways. It may include clinical treatment, medications, faith-based approaches, peer support, family support, self-care, and other approaches.

What is the preparation stage of recovery? Preparation. This stage begins once the user has decided to change and begins to plan steps toward recovery. An individual who decides to stop abusing substances and plans to attend counseling, AA, NA, or a formal treatment program. This client needs work on strengthening commitment.

How to remove impurities from platinum? Froth generated at the top of a flotation cell concentrates the platinum particles. The dried powder is then heated to extremely high temperatures to remove impurities. Air is blown over the matte that remains after smelting to eliminate unwanted iron and sulfur.

How do you separate platinum from other metals? The process of cupellation may now be resorted to. This consists, as is well known, in heating the mass of lead and platinum in a current of air. The lead oxidizes and can be run off, leaving the platinum.

How do you precipitate platinum from a solution? Add 1 ounce of ammonium chloride for every ounce of SubZero that you used. So, for example, if you used 10 ounces of SubZero (to dissolve 10 ounces of metal), then add 10 ounces of ammonium chloride. Put the solution aside. The platinum will complete its precipitation in about 1-3 hours.

What are the stages of platinum processing?

What is the payment recovery process? Payment recovery refers to the process used by businesses to resolve any payment errors. This includes chasing up on missing or overdue payments from clients, as well as recovering funds paid in error to suppliers.

How is platinum being processed? Platinum ore is transported from the mine to the processing plant by conveyor, road or rail. The ore is processed by crushing and milling to reduce the coarse ore to fine particles, liberating the sulphide-containing platinum group metals (PGM), iron, nickel and copper from the waste ore.

What is the platinum process? The platinum print process is based on the characteristics of light-sensitive iron salts, which react with platinum salts to form platinum metal. A sheet of paper is coated with a solution of these salts to make it sensitive to light.

Techniques and Guidelines for Social Work Practice: A Comprehensive Guide

Social work practice encompasses a diverse range of techniques and guidelines that guide professionals in delivering effective services to individuals, families, and communities. This comprehensive guide provides answers to frequently asked questions about these techniques and guidelines.

Q: What are the essential techniques for effective social work practice?

A: Key techniques include: Assessment and Diagnosis, Crisis Intervention, Case Management, Empowerment-Based Practice, Advocacy, and Evidence-Based Practice. These techniques enable social workers to understand clients' needs, provide support, facilitate change, and empower individuals to take an active role in their own well-being.

Q: What are the ethical guidelines for social work practice?

A: Ethical guidelines are crucial for maintaining professional conduct and protecting clients. The National Association of Social Workers (NASW) Code of Ethics outlines principles such as: Respect for the inherent worth, dignity, and rights of all people; Confidentiality; Self-Determination; and Competence. Adhering to ethical guidelines ensures the well-being and trust of clients.

Q: How can I stay up-to-date with best practices in social work?

A: Continuous professional development is essential for social workers to stay abreast of evolving techniques and guidelines. Regular attendance at conferences, workshops, and webinars provides opportunities to learn from experts and engage in discussions about best practices. Additionally, professional journals and research publications disseminate the latest findings and innovative approaches.

Q: What resources are available for social workers seeking guidance on specific cases?

A: Numerous resources are available for social workers seeking support and guidance. These include online databases, peer review forums, and professional organizations such as the National Association of Social Workers (NASW). Case consultation with experienced colleagues or supervisors can also provide valuable insights and support in navigating complex situations.

Q: Where can I find free materials on social work techniques and guidelines?

A: Several organizations provide free downloadable materials for social workers. The National Association of Social Workers (NASW) website offers access to publications, articles, and practice tools. Additionally, the Social Work Services Department of the U.S. Department of Veterans Affairs (VA) maintains a library of online resources for professionals.

Unveiling the Secrets of The Gilded Tarot Book and Tarot Deck Set

What is The Gilded Tarot Book and Tarot Deck Set?

The Gilded Tarot Book and Tarot Deck Set is a comprehensive guide to the practice of tarot reading, accompanied by a stunning deck of 78 gilded cards. This set provides both theoretical knowledge and practical tools for beginners and experienced readers alike.

What's Included in the Set?

The book offers a thorough explanation of tarot card meanings, spreads, and techniques. It delves into the history, symbolism, and archetypal meanings of the cards, empowering readers with a deep understanding of the tarot. The deck, featuring intricate gold foil embellishments, brings the wisdom of the cards to life with vivid imagery.

Who is the Target Audience?

The Gilded Tarot Book and Tarot Deck Set is designed for a wide range of individuals, including:

- **Beginners:** Those seeking an introduction to tarot reading and the fundamentals of the practice.
- **Experienced Readers:** Advanced readers who wish to enhance their knowledge and explore new interpretations.
- **Tarot Enthusiasts:** Collectors and fans of tarot art who appreciate the beauty and symbolism of the cards.

How Can I Use the Set?

The book provides detailed instructions on how to read tarot cards for yourself and others. Readers can practice using the accompanying deck to gain confidence and develop their intuitive abilities. Spreads and exercises in the book help readers explore different aspects of their lives and gain insights into their path.

What Makes The Gilded Tarot Unique?

The Gilded Tarot Book and Tarot Deck Set stands out due to its:

- **In-depth Book:** The comprehensive book offers a wealth of knowledge and practical guidance.
- **Gilded Deck:** The stunning deck features intricate gold foil accents that enhance the cards' beauty and symbolism.
- **Accessible Approach:** The set is designed to be user-friendly and accessible to both beginners and experienced readers.

The Physics of Inertial Fusion

Inertial fusion is a nuclear fusion process in which the fuel is compressed and heated to very high temperatures and pressures by an external source of energy. This process is used to create a thermonuclear explosion that can be used for energy production.

Beam Plasma Interaction

In inertial fusion, the external source of energy is typically a high-powered laser or particle beam. The beam plasma interaction is the process by which the beam energy is transferred to the fusion fuel. This process is complex and involves a number of physical processes, including:

- Absorption of the beam energy by the plasma
- Collisional heating of the plasma
- Hydrodynamic expansion of the plasma

Hydrodynamics of Hot Dense Matter

The hydrodynamics of hot dense matter is the study of the behavior of matter at very high temperatures and pressures. This type of matter is found in the cores of stars and in the explosions of nuclear weapons. The hydrodynamics of hot dense matter is a complex and challenging field of research, but it is essential for understanding the behavior of inertial fusion plasmas.

International Series of Monographs on Physics

The International Series of Monographs on Physics is a series of books that cover a wide range of topics in physics. The series is published by Oxford University Press and is designed to provide a comprehensive and up-to-date overview of the field. The book on the physics of inertial fusion is one of the most recent additions to the series.

Questions and Answers

- **What is inertial fusion?**

Inertial fusion is a nuclear fusion process in which the fuel is compressed and heated to very high temperatures and pressures by an external source of energy.

- **What is the beam plasma interaction?**

The beam plasma interaction is the process by which the beam energy is transferred to the fusion fuel.

- **What is the hydrodynamics of hot dense matter?**

The hydrodynamics of hot dense matter is the study of the behavior of matter at very high temperatures and pressures.

- **What is the International Series of Monographs on Physics?**

The International Series of Monographs on Physics is a series of books that cover a wide range of topics in physics.

- **What is the book on the physics of inertial fusion?**

The book on the physics of inertial fusion is one of the most recent additions to the International Series of Monographs on Physics.

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