



UNIVERSITÄT ZU LÜBECK
INSTITUT FÜR MEDIZINTECHNIK

Inga Christine Kuschnerus

Herstellung und Charakterisierung superparamagnetischer Lacke

Bachelorarbeit
aus dem Institut für Medizintechnik
der Universität zu Lübeck



Medizinische Ingenieurwissenschaft
und Biomedizintechnik – Band 3
Herausgeberin: Kerstin Lüdtke-Buzug

Magnetseperation Herstellung Biofunktionalisierte Superparamagnetischer Nanokomposition

Jianjun Gao



Magnetseparation Herstellung Biofunktionalisierte Superparamagnetischer Nanokomposition:

Magnetseparation. Herstellung biofunktionalisierte superparamagnetischer Nanokomposition Fabian Oehler, Simon Weisemann, 2015-06-18 Forschungsarbeit aus dem Jahr 2012 im Fachbereich Chemie Biochemie Note 1,0 Veranstaltung Jugend forscht Sprache Deutsch Abstract Unsere konkrete Projektidee ist es die Vorzüge von superparamagnetischen Ferrofluiden mit den mannigfaltigen biologischen Eigenschaften von Proteinen zu kombinieren. Dies gelingt durch die mehrstufige Synthese eines komplexen Partikels, der im Inneren einen magnetischen Kern besitzt. Über mehrfache Modifizierung und Funktionalisierung der Oberfläche war es unser Ziel, die anorganischen Partikel mit einem Protein zu verbinden. Anwendung finden unsere Partikel in der Magnetseparation. Dazu wird ein Protein angebunden, welches enantioselektiv ein Substrat binden kann. Danach können die Partikel mit gebundenem Diastereomer über einen Magneten extrahiert werden. Die Elution des eingelagerten Substrats erfolgt über die Komplexbildung von Cofaktoren, die das Protein so verändern, dass die Bindungsfunktion reversibel unterbrochen wird, sodass der eingelagerte Stoff in die umliegende Flüssigkeit eintritt. Die Partikel werden wieder aus der Lösung extrahiert, sodass die zu untersuchende Substanz isoliert vorliegt.

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Table of Contents Magnetseperation Herstellung Biofunktionalisierte Superparamagnetischer Nanokomposition

1. Understanding the eBook Magnetseperation Herstellung Biofunktionalisierte Superparamagnetischer Nanokomposition
 - The Rise of Digital Reading Magnetseperation Herstellung Biofunktionalisierte Superparamagnetischer Nanokomposition
 - Advantages of eBooks Over Traditional Books
2. Identifying Magnetseperation Herstellung Biofunktionalisierte Superparamagnetischer Nanokomposition
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Magnetseperation Herstellung Biofunktionalisierte Superparamagnetischer Nanokomposition
 - User-Friendly Interface
4. Exploring eBook Recommendations from Magnetseperation Herstellung Biofunktionalisierte Superparamagnetischer Nanokomposition
 - Personalized Recommendations
 - Magnetseperation Herstellung Biofunktionalisierte Superparamagnetischer Nanokomposition User Reviews and Ratings
 - Magnetseperation Herstellung Biofunktionalisierte Superparamagnetischer Nanokomposition and Bestseller Lists
5. Accessing Magnetseperation Herstellung Biofunktionalisierte Superparamagnetischer Nanokomposition Free and Paid eBooks
 - Magnetseperation Herstellung Biofunktionalisierte Superparamagnetischer Nanokomposition Public Domain eBooks
 - Magnetseperation Herstellung Biofunktionalisierte Superparamagnetischer Nanokomposition eBook Subscription Services
 - Magnetseperation Herstellung Biofunktionalisierte Superparamagnetischer Nanokomposition Budget-Friendly Options

6. Navigating Magnetseperation Herstellung Biofunktionalisierte Superparamagnetischer Nanokomposition eBook Formats
 - ePub, PDF, MOBI, and More
 - Magnetseperation Herstellung Biofunktionalisierte Superparamagnetischer Nanokomposition Compatibility with Devices
 - Magnetseperation Herstellung Biofunktionalisierte Superparamagnetischer Nanokomposition Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Magnetseperation Herstellung Biofunktionalisierte Superparamagnetischer Nanokomposition
 - Highlighting and Note-Taking Magnetseperation Herstellung Biofunktionalisierte Superparamagnetischer Nanokomposition
 - Interactive Elements Magnetseperation Herstellung Biofunktionalisierte Superparamagnetischer Nanokomposition
8. Staying Engaged with Magnetseperation Herstellung Biofunktionalisierte Superparamagnetischer Nanokomposition
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Magnetseperation Herstellung Biofunktionalisierte Superparamagnetischer Nanokomposition
9. Balancing eBooks and Physical Books Magnetseperation Herstellung Biofunktionalisierte Superparamagnetischer Nanokomposition
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Magnetseperation Herstellung Biofunktionalisierte Superparamagnetischer Nanokomposition
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Magnetseperation Herstellung Biofunktionalisierte Superparamagnetischer Nanokomposition

- Setting Reading Goals Magnetseperation Herstellung Biofunktionalisierte Superparamagnetischer Nanokomposition
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Magnetseperation Herstellung Biofunktionalisierte Superparamagnetischer Nanokomposition
- Fact-Checking eBook Content of Magnetseperation Herstellung Biofunktionalisierte Superparamagnetischer Nanokomposition
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
- Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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