

Examen Doctoral de CDr. Osnaider Rocha Rocha

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OSNAIDER ROCHA ROCHA

juan rivas

RAUL GARCIA LLAMAS

Mario Farf (Guest)

RT

RAUL ACEVES TORRES

MA

MARIO FLORES ACOSTA

11:03 AM 8/25/2020

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Participants

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- Pierre Giovanni Mani Gorzalez
- Dr. Manuel Cortez
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- juan rivas
Outside your organization
- Mario Farf (Guest)
Guest
- MARIO FLORES ACOSTA
Organizer
Outside your organization
- OSNAIDER ROCHA ROCHA
Outside your organization
- RAUL ACEVES TORRES
Outside your organization
- RAUL GARCIA LLAMAS
Outside your organization

Introducción

De las NPs: Clusters

Au [10]

- Biocompatibilidad
- Diagnóstico médico
- Transporte de fármacos
- Diseño de sensores

Cu [20]

- Propiedades bactericidas
- Diseño de sensores

Pt [25]

- Catalizador
- Celdas solares
- Biocompatibilidad

Au@Cu [50]

Cu@Pt [45]

Au@Pt [45]

OSNAIDER ROCHA ROCHA

MARIO FLORES ACOSTA

Mario Farf (Guest)

OSNAIDER ROCHA ROCHA

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Conclusiones

- ▶ Los resultados experimentales presentados en este trabajo de investigación permiten establecer que el método de síntesis utilizado para la obtención de las nanoparticulas es una excelente alternativa para prescindir del uso de reactivos tóxicos durante el proceso de reacciones químicas facilitando de este modo obtener las nanoestructuras.
- ▶ Mediante la metodología experimental propuesta fue posible sintetizar NPs_{AuX} (X=Cu, Pt) tipo aleaciones y core/shell en función del tiempo de combinación de los metales en cuestión durante el proceso de reacción.

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- OSNAIDER ROCHA ROCHA
- Rafael Garcia (Guest)
- RAUL ACEVES TORRES
- RAUL GARCIA LLAMAS

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Mario Fari (Guest) OSNAIDER ROCHA ROCHA RAUL GARCIA LLAMAS

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Clusters Metálicos

DFT: Geometrías optimizadas de los clusters

n	Au _n	Cu _n	(AuCu) _n
1			
2			
3			
4			
5			
6			
7			
8			
9			

Fig. 5.1 (Tes). Representación de las geometrías de mínima energía local de clusters Au_n, Cu_n y (AuCu)_n.

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MARIO FLORES ACOSTA Mario Fari (Guest) OSNAIDER ROCHA ROCHA

12:08 PM 8/25/2020

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Resultados Experimentales

NPsAuCu

[15,146]

Actividad Raman/ μa

Número de onda (cm^{-1})

Fig. 5.13(Tes). Espectro Raman de NPsAuCu.

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DC RT JR MF MA

Garcia (Guest) OSNAIDER ROCHA ROCHA RAUL GARCIA LLAMAS

Windows taskbar: File Explorer, Chrome, Word, PowerPoint, PDF, Excel, Teams, Skype

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