



# APP and CRIS-Like Capabilities

Vasilije Rajovic,  
Senior Developer

# Our Starting Point

- dc.relation as a project ID
- Authority as author ID.

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1	9	Stanisavljević, Ljubiša		4	orcid::0000-0002-6229-6535	
1	9	Deljanin, Isidora		2	orcid::0000-0002-3931-1792	
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1	40	info:eu-repo/grantAgreement/MESTD/Basic Research (BR or ON)/172007/RS//		2		
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2	9	Vukojević, Vesna		1	orcid::0000-0002-0394-0503	
2	40	info:eu-repo/grantAgreement/EC/FP7/621375/EU//		2		
2	9	Čirković-Veličković, Tanja		4	orcid::0000-0003-2559-5234	
2	9	Šovrc, Lubomír		3	orcid::0000-0002-9588-8609	
2	40	info:eu-repo/grantAgreement/MESTD/Basic Research (BR or ON)/172030/RS//		1		
2	40	Grant Agency of the Slovak Republic [1/0489/16]		3		
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2	9	Stanković, Dalibor		6	orcid::0000-0001-7465-1373	
2	9	Đurđić, Slađana Z.		2	orcid::0000-0002-7828-3288	
3	9	Radovanović, Dragana		1	4351dfa3-079a-43e5-8440-f0bb7035f60e	
3	9	Anđić, Zoran		3	orcid::0000-0003-2015-0607	
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3	9	Marković, Branislav		5	5f7e383c-a4ae-4062-a6c1-b6354929b7bf	
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# Authority Control & Orcid



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## Rare-earth (Gd<sup>3+</sup>, Yb<sup>3+</sup>/Tm<sup>3+</sup>, Eu<sup>3+</sup>) co-doped hydroxyapatite as magnetic, up-conversion and down-conversion materials for multimodal imaging



Taking advantage of the flexibility of the apatite structure, nano- and micro-particles of hydroxyapatite (HAP) were doped with different combinations of rare earth ions (RE<sup>3+</sup>, Yb, Tm) to achieve a synergy among their magnetic and optical properties. The HAP powders were synthesized through hydrothermal processing at T ≤ 200 °C. XRD and XRD diffraction analysis showed that all powders crystallized in P63/m space group. The crystal structure. The refined unit-cell parameters reflected a decrease in the c-axis length as a result of the partial substitution of Ca<sup>2+</sup> with smaller RE<sup>3+</sup> ions. The FTIR analysis additionally suggested that a synergy may exist between the up-conversion and the lattice symmetry and vibration modes become more complex in the singly or doubly doped systems. HAP:RE<sup>3+</sup> optical character...

Source:  
Scientific reports



2019

Rare\_earth\_Gd3+\_pub\_2019.pdf  
(4.419Mb)

### Authors

- Ignjatović, Nenad L.
- Mančić, Lidija
- Vuković, Marina
- Stojanović, Zoran
- Nikolić, Marko G.
- Škapin, Srečo
- Jovanović, Sonja
- Veselinović, Ljiljana M.
- Uskoković, Vuk
- Lazić, Snežana
- Marković, Smilja
- Lazarević, Miloš M.
- Uskoković, Dragan P.

### Projects:

- info:eu
- III/45
- Ration
- funcio

DOI: 10.1

ISSN: 20

WoS: 00

Scopus:

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- Lazić, Snežana
- Marković, Smilja
- Lazarević, Miloš M.
- Uskoković, Dragan P.

### This institution

Authors

Titles

Subjects

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# Project IDs & Localized Project Titles

- XML file containing project IDs and their localized names
- Mirage2 with customized item-view.xsl

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# Custom item-view.xsl

Rare-earth (Gd<sup>3+</sup>, Yb<sup>3+</sup>/Tm<sup>3+</sup>, Eu<sup>3+</sup>) co-doped conversion and down-conversion materials for m



Taking advantage of the flexibility of hydroxyapatite (HAp) were doped with Yb, Tm) to achieve a synergy in their application in preventive medicine. XRD analysis showed that the diffraction analysis showed the crystal structure. The refined result of the partial substitution analysis additionally suggested that a synergy may exist solely in the triply doped system, where the lattice symmetry and vibration modes become more coherent than in the singly or doubly doped systems. HAp:RE3+ optical characterization re...

Source:  
Scientific reports, 2019, 9, 1, 16305-

Publisher:  
• Springer Nature

Projects:  
• [info:eu-repo/grantAgreement/MESTD/Integrated and Interdisciplinary Research \(IIR or III\)/45004/RS/ \(RS-45004\)](#)  
• [Rational design and synthesis of biologically active and coordination compounds and functional materials, relevant for \(bio\)nanotechnology \(RS-172035\)](#)

DOI: 10.1038/s41598-019-

ISSN: 2045-2322

WoS: 000495370900005

Scopus: 2-s2.0-85074711

[ [Google Scholar](#) ]

URI  
<http://cherry.chem.bg.ac.rs/handle>

Collections  
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Institution  
Inovacioni centar

## Projects:

- [info:eu-repo/grantAgreement/MESTD/Integrated and Interdisciplinary Research \(IIR or III\)/45004/RS/ \(RS-45004\)](#)
- [Rational design and synthesis of biologically active and coordination compounds and functional materials, relevant for \(bio\)nanotechnology \(RS-172035\)](#)

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Uskoković, Vuk   
Lazić, Snežana   
Marković, Smilja   
Lazarević, Miloš M.   
Uskoković, Dragan P.

Article (Published version)



Metadata  
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