

PROFIL ISTRAŽIVAČA

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Institut za vodoprivredu „Jaroslav Černi“, 24. mart 2017.

Profil istraživača

Skup svih strukturisanih i nestrukturisanih „tragova“ koje istraživač tokom karijere (svesno i nesvesno) ostavlja u različitim oblicima i plasira različitim kanalima, ali i informacija koje o njemu ostavljaju drugi akteri

Savremeni kontekst: globalna mreža

Tradicionalni i savremeni kanali

Da bi se tragovi pravilno strukturisali i plasirali pravim kanalima treba poznavati principe funkcionisanja globalne mreže.

Profil istraživača (na globalnoj mreži)

- objavljeni radovi (dostupni na sajtovima izdavača ili deponovani u digitalne repozitorijume);
- podaci koji se mogu naći u indeksnim bazama podataka;
- profili koje sami kreiraju na društvenim mrežama za naučnike;
- lične stranice na zvaničnim sajtovima institucija u kojima rade;
- profili na društvenim mrežama opšteg tipa;
- učešće u uređivanju sajtova i blogova;
- ostali „tragovi“ na globalnoj mreži.

Kontekst: globalna mreža

Razvoj globalne mreže izazvao je suštinske promene u svetu nauke.

Ova tranzicija još uvek traje.

Nielsen, Michael, *Reinventing Discovery: The New Era of Networked Science* (Princeton University Press, 2012)

Karpf, David, 'Social Science Research Methods in Internet Time', *Information, Communication & Society*, 15 (2012), 639–61, <http://dx.doi.org/10.1080/1369118X.2012.665468>

Linn, Marcia C., *Internet Environments for Science Education* (Routledge, 2013)

Hewson, Claire, Carl Vogel, and Dianna Laurent, *Internet Research Methods* (SAGE Publications, Limited, 2015)

Komunikacija...

... se odvija brže, u realnom vremenu, bez zastoja

....ali podrazumeva poznavanje i poštovanje nekih novih pravila.



Elektronsko izdavaštvo

My Notes
Today, 13:05:58
Huang, Geon-Tae and Hyewon Park and Jeong-Ho Lee, SeKwon Oh, Kui-Hi Park, Myungwan Byun, Hyelim Park, Cun Ahn, Chang Kyu Jeong, Kwangsoo No, HyukSang Kwon, Sang-Goo Lee, Boyoung Joong, and Keon Jae Lee*

Self-Powered Cardiac Pacemaker Enabled by Flexible Single Crystalline PMN-PT Piezoelectric Energy Harvester
Geon-Tae Huang, Hyewon Park, Jeong-Ho Lee, SeKwon Oh, Kui-Hi Park, Myungwan Byun, Hyelim Park, Cun Ahn, Chang Kyu Jeong, Kwangsoo No, HyukSang Kwon, Sang-Goo Lee, Boyoung Joong, and Keon Jae Lee*

Drugs and mechanical deformation are promising candidates for self-powered biomedical electronics. (8-12) [1] Self-powered sensors made from the human body is of great interest because they can generate measurable biomechanical energy such as cardiac motion, blood flow, and muscle contraction to convert it to electrical energy.

Add to essay notes for next week, and check the other saved articles.

Artificial cardiac pacemakers have made a significant contribution to regulate heartbeat using electrical impulses for centuries. However, the battery life of these devices is limited and may even fail after several years. In addition, the heart block which causes abnormal heart rate, and may even lead to sudden death, is a common problem in the elderly. Therefore, due to the limited lifetime of the battery, the development of self-powered piezoelectric implanted biomedical device should be made. In this work, we propose a self-powered cardiac pacemaker using high piezoelectric charge coefficient and low dielectric constant materials. We have developed a new generation of single crystalline PMN-PT piezoelectric harvester with a power output of $4.5 \mu\text{W}$ at $2000 \mu\text{eV}$, which is 90 times higher than that of the previous PMN-PT harvester. This harvester was excited by single pulse in a plastic substrate and can operate at a frequency of 100 Hz . This could finally contribute to put only the operation of the heart under the control of the body.

Using Light Sheet Fluorescence Microscopy to Image Zebrafish Eye Development

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Using Light Sheet Fluorescence Microscopy to Image Zebrafish Eye Development

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- Polymerase Chain Reaction: Basic Protocol Plus Troubleshooting an... Published 5/23/2012
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herbivore's influence on aquatic ecosystems

162 views

In Oct 23, 2015
understand an aquatic ecosystem without looking at the role of herbivores. In this video abstract ecologist Liesbeth Bakker from NIOO-KNAW explains how.
Elisabeth S. Bakker, Jordi F. Pagès, Rohan Arthur and Teresa Alcoverro (2015) Assessing the role of large herbivores in the functioning and of freshwater and marine angiosperm ecosystems. *Ecography*, DOI: 10.1111/ecog.01651

Video apstrakt:
<https://www.youtube.com/watch?v=DtJRN4B6I3g&feature=youtu.be>

Nove sfere naučne komunikacije

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Blogovi:

<https://www.theguardian.com/science/blog/2010/jun/03/wanted-best-science-blogs>

<http://www.wired.com/category/science/science-blogs/>

Timski rad i kolaborativno pisanje

Schöch, Christof, 'The Right Tool for the Job: Five Collaborative Writing Tools for Academics.', *Impact of Social Sciences*, 2014.
<http://blogs.lse.ac.uk/impactofsocialsciences/2014/04/04/five-collaborative-writing-tools-for-academics/>

'Collaborative Writing Tools for Academics and Students', *Strategist.ie*, 2014, <http://www.strategist.ie/collaborative-writing-tools-for-academics-and-students/>

Kouzes, R. T., J. D. Myers, and W. A. Wulf, 'Collaboratories: Doing Science on the Internet', *Computer*, 29 (1996), 40–46,
<http://dx.doi.org/10.1109/2.532044>, <https://legion.virginia.edu/people/faculty/pdfs/Collaboratories.pdf>

Stommel, Jesse, 'Tools for Collaborative Writing', *Keep Learning*, 2014, <http://learning.instructure.com/2014/02/tools-for-collaborative-writing/>

Schreiber, Danny, 'A Deep Look at New Collaborative Writing Tools Editorially, Draft and Penflip', *The Zapier Blog*,
<https://zapier.com/blog/collaborative-writing-tools-editorially-draft-penflip/>

Bibliografski alati – rad u grupi

- ▶ Zotero: <http://www.slideshare.net/bibsekcija/zotero-rad-u-grupi?ref=http://www.itn.sanu.ac.rs/sekcija/index.php/zotero>
- ▶ Mendeley: <http://support.mendeley.com/customer/en/portal/topics/76071-groups>

Nove forme naučne recenzije

Birukou, Aliaksandr, Joseph Rushton Wakeling, Claudio Bartolini, Fabio Casati, Maurizio Marchese, Katsiaryna Mirylenka, and others, 'Alternatives to Peer Review: Novel Approaches for Research Evaluation', *Frontiers in Computational Neuroscience*, 5 (2011), <http://dx.doi.org/10.3389/fncom.2011.00056>

DeCoursey, Thomas, 'The Pros and Cons of Open Peer Review', *Nature*, 2006,
<http://dx.doi.org/10.1038/nature04991>

Frood, Arran, 'Mentors, Mates or Metrics: What Are the Alternatives to Peer Review?', *EuroScientist Webzine*, 2014, <http://www.euroscientist.com/mentors-mates-or-metrics-what-are-the-alternatives-to-peer-review/>

Vesnic-Alujevic, L., 'Peer Review and Scientific Publishing in Times of Web 2.0', *Publishing Research Quarterly*, 30 (2014), 39–49, <http://dx.doi.org/10.1007/s12109-014-9345-8>

Ware, Mark, 'Peer Review: Recent Experience and Future Directions', *New Review of Information Networking*, 16 (2011), 23, <http://www.tandfonline.com/doi/abs/10.1080/13614576.2011.566812>

'Who's Afraid of Open Peer Review? – PeerJ Blog', <https://peerj.com/blog/post/100580518238/whos-afraid-of-open-peer-review/>



Podatke koristiti oprezno i sa rezervom!

'Altmetrics: A Manifesto – Altmetrics.org', <http://altmetrics.org/manifesto>

Priem, Jason, Heather A. Piwowar, and Bradley M. Hemminger, 'Altmetrics in the Wild: Using Social Media to Explore Scholarly Impact', *arXiv:1203.4745 [cs]*, 2012, <http://arxiv.org/abs/1203.4745>

Alternative tradicionalnoj bibliometriji

Altmetric, Plum Analytics, Impact Story, podaci o preuzimanju radova u digitalnim repozitorijumima, bibliometrijski parametri koji se izračunavaju u okviru društvenih mreža za naučnike

Problemi

Naučnici imaju uvid u sve veće količine podataka relevantnih za njihova istraživanja, a istovremeno se suočavaju sa hiperprodukcijom irelevantnih i nekvalitetnih informacija.

Istraživanja pokazuju da je kod naučnika primetna doza inercije u prihvatanju tehnoloških inovacija i da se većina drži uhodanih procedura i proverenih metoda sve dok oni daju rezultate.

Problem raskoraka između digitalne i informacione pismenosti (zabluda o tzv. Gugl generaciji: *Information Behaviour of the Researcher of the Future* (London, 2008)

Pisanje i objavljivanje naučnog rada

Pisanje naučnog rada

- Relevantna tema
- Odgovarajuća metodologija
- Validni rezultati
- Dobra argumentacija
- Poštovanje etičkih normi
- Dobra praksa
- Ispunjavanje tehničkih standarda

Van Gunsteren, Wilfred F., 'The Seven Sins in Academic Behavior in the Natural Sciences', *Angewandte Chemie International Edition*, 52 (2013), 118–22, <http://dx.doi.org/10.1002/anie.201204076>

McMurrey, David, 'Online Technical Writing: Free Online Textbook for Technical Writing',
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'Writing a Research Paper', Purdue Online Writing Lab, 2013, <https://owl.english.purdue.edu/owl/resource/658/01/>

Whitesides, G. M., 'Whitesides' Group: Writing a Paper', *Advanced Materials*, 16 (2004), 1375–77,
<http://dx.doi.org/10.1002/adma.200400767>

Ilustracije

Biegel, Constance, and Prashant V. Kamat, 'Graphical Excellence in Scientific Presentations and Papers',
<http://www3.nd.edu/~pkamat/pdf/graphs.pdf>

Frow, Emma K., 'Drawing a Line: Setting Guidelines for Digital Image Processing in Scientific Journal Articles', *Social Studies of Science*, 42 (2012), 369–92, <http://dx.doi.org/10.1177/0306312712444303>

'How to Set up the Correct Print Resolution for a Scientific Figure', *somersault* 18:24,
<http://www.somersault1824.com/how-to-set-up-the-correct-print-resolution-for-a-scientific-figure/>

Roland, Marco, Karen Cheng, and Sarah Pérez-Kriz, 'A Brief Guide to Designing Effective Figures for the Scientific Paper', *Advanced Materials*, 23 (2011), 4343–46, <http://dx.doi.org/10.1002/adma.201102518>

Rossner, Mike, and Kenneth M. Yamada, 'What's in a Picture? The Temptation of Image Manipulation', *The Journal of Cell Biology*, 166 (2004), 11–15, <http://dx.doi.org/10.1083/jcb.200406019>

Rougier, Nicolas P., Michael Droettboom, and Philip E. Bourne, 'Ten Simple Rules for Better Figures', *PLOS Comput Biol*, 10 (2014), e1003833, <http://dx.doi.org/10.1371/journal.pcbi.1003833>

Bibliografija

Uputstva za citiranje:

- <http://www.dksg.rs/biblioteka/vodicZaCitiranje/citiranje.html>
- <http://www.itn.sanu.ac.rs/biblioteka-citatnistilovi.html>

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Bilova lista

Džefri Bil, bibliotekar na Univerzitetu u Koloradu, održavao je na svom blogu liste tzv. „predatorskih izdavača“, predatorskih časopisa, kidnapovanih časopisa i kompanija „proizvode“ lažne bibliometrijske pokazatelje.

Blog je iznenada ugašen u januaru 2017. godine, ali je njegov sadržaj dostupan u internet arhivama.

- » Predatorski časopisi: <https://archive.fo/9MAAD> |
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Water under the bridge? Hydrology journals won't retract plagiarized papers despite university request

with 19 comments

In April 2014, we [wrote about the case of a former hydrologist at the University of Kansas \(KU\), Marios Sophocleous](#), who had plagiarized in at least seven studies, two of which were retracted by the journal *Ground Water*.

At the time, we mentioned two other articles, in the *Hydrogeology Journal*, that appeared destined for retraction — not least because KU requested that the journal yank them. But in a rather surprising move, the journal is declining to do so, and another publication, the *Journal of Hydrology*, is taking the same approach.

Here's the [notice](#) from *Hydrogeology Journal* editor Clifford Voss:

In late February 2013, the Kansas Geological Survey (KGS), a research and service division of the University of Kansas (KU), found that a number of papers written by a then staff member, Dr. Marios Sophocleous (retired from KGS in June 2013), appeared to have been plagiarized from earlier work. KU explained to *Hydrogeology Journal* that, following multi-stage investigations, which included opportunities for Dr. Sophocleous to explain his actions, KU concluded that Dr. Sophocleous had committed scholarly misconduct. KU then publicly censured him ([University of Kansas 2013](#)).

Two of the seven articles cited in the censure statement appeared in *Hydrogeology Journal* (HJ) and KU has requested of publisher Springer and the HJ executive editor (EE) that both be retracted. KU provided a detailed analysis of each paper, indicating which passages were plagiarized and the source of the plagiarized material; these analyses are available from KGS upon request.

The two articles are:

- Sophocleous M (2002) Interactions between groundwater and surface water: the state of the science, *Hydrogeology Journal*, vol. 10, no. 1, pp. 52–67. http://link.springer.com/article/10_1007/s10040-001-0170-8



PubPeer

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Journal Activity

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2014 IEEE 40th Photovoltaic Specialist Conference (PVSC) (5)

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3 Biotech (18)

27th IEEE Power Electronics

<https://pubpeer.com/>

- Eur. J. Intern. Med. (4)
- Eur. J. Med. Res. (1)
- Eur. J. Neurol. (6)
- Eur. J. Neurosci. (10)
- Eur. J. Nucl. Med. Mol. Imaging (3)
- Eur. J. Obstet. Gynecol. Reprod. Biol. (1)
- Eur. J. Oral Sci. (1)
- Eur. J. Pediatr. (4)
- Eur. J. Pers. (1)
- Eur. J. Pharmacol. (25)
- Eur. J. Phys. (1)
- Eur. Neurol. (1)
- Eur. Respir. J. (2)
- Eur. Urol. (5)

Journal of Threat Assessment Management (9)

Journal of Toxicology and Environmental Health, Part A (3)

Journal of Trace Elements in Medicine and Biology (1)

Journal of Trauma and Acute Care Surgery (1)

Journal of Virology (39)

Journal of Vision (188)

Journal of Visualized Experiments (2)

Journal of Vocational Behavior (6)

Journal of Wind Engineering and Industrial Aerodynamics (1)

Journal of Zhejiang University SCIENCE A (1)

Broj komentara u vezi sa radovima iz časopisa (često su u pitanju dojave o neregeularnostima)

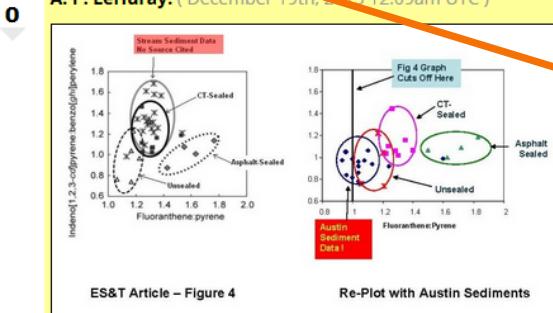
"Parking Lot Sealcoat: An Unrecognized Source of Urban Polycyclic Aromatic Hydrocarbons"

Barbara J. Mahler, Peter C. Van Metre, Thomas J. Bashara, Jennifer T. Wilson, David A. Johns, Environmental Science & Technology (2005)

Comments (2):

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A. P. LeHuray: (December 19th, 2015 12:09am UTC)



Mahler et al. (2005) marks the introduction of the hypothesis that refined coal tar-based pavement sealants (RTS), are a significant source of polycyclic aromatic hydrocarbons (PAHs) in urban sediments in Austin and, by extension, throughout the US. The hypothesis was based on a small study conducted in Austin, TX. Background for the study can be found in an e-zine article at this link: http://www.americanthinker.com/articles/2014/11/abuse_of_science_in_texas.html

A Comment on this article by DeMott & Gauthier (2006) was published in Environmental Science & Technology (ES&T), available at this link: <http://pubs.acs.org/doi/abs/10.1021/es060326t?journalCode=estag>. The Comment made two essential points:



Article

< Previous

Parking Lot Sealcoat: An Unrecognized Source of Urban Polycyclic Aromatic Hydrocarbons

Barbara J. Mahler,^{*†} Peter C. Van Metre,[†] Thomas J. Bashara,[‡] Jennifer T. Wilson,[†] and David A. Johns[‡]
United States Geological Survey, 8027 Exchange Drive, Austin, Texas 78754, and City of Austin Watershed Protection Department, P.O. Box 1088, Austin, Texas 78767

Environ. Sci. Technol., 2005, 39 (15), pp 5560–5565

DOI: 10.1021/es0501565

[2 comments on PubPeer \(by: A. P. LeHuray\)](#)

Publication Date (Web): June 22, 2005

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Abstract

Polycyclic aromatic hydrocarbons (PAHs) are a ubiquitous contaminant in urban environments. Although numerous sources of PAHs to urban runoff have been identified, their relative importance remains uncertain. We show that a previously unidentified source of urban PAHs, parking lot sealcoat, may dominate loading of PAHs to urban water bodies in the United States.

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Determination of Particle Size Distributions by Laser Diffraction

Zoran Stojanović, Smilja Marković, Dragan Uskoković

The paper deals with the main principles of determination of particle size distribution using Mastersizer 2000, Malvern Instruments Ltd., UK. On the example of several problems we have demonstrated that the method is not a routine one and that the measurement procedure is not limited to entering a sample into the dispersion unit and pressing the button. Furthermore, we have shown that the sample preparation method and, therefore, the accuracy of results conclusively depend on physical and chemical properties of the analyzed materials.

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Publisher:	Savz inženjera i tehničara Srbije
Place of publication:	Beograd
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Language:	English
Date of Publication (online):	14.11.2013

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Determination of particle size distributions by laser diffraction

Authors Zoran Stojanović, Smilja Marković, Dragan Uskoković

Publication date 2012

Description The paper deals with the main principles of determination of particle size distribution using Mastersizer 2000, Malvern Instruments Ltd., UK. On the example of several problems we have demonstrated that the method is not a routine one and that the measurement procedure is not limited to entering a sample into the dispersion unit and pressing the button. Furthermore, we have shown that the sample preparation method and, therefore, the accuracy of results conclusively depend on physical and chemical properties of the ...

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Z Rizlan, O Mamat - [Applied Mechanics and Materials](#), 2014 - Trans Tech Publ
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Jugović, D., Mitić, M., Cvjetićanin, N., (...), Mentus, S., Uskoković, D.

2008 Solid State Ionics

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Preparation of LiFePO₄/C composites by co-precipitation in molten stearic acid

Jugović, D., Mitić, M., Kuzmanović, M., (...), Ivanovski, V., Uskoković, D.

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The LiFe(1-x)V_xPO₄/C composite synthesized by gel-composite method, with improved rate capability and cycle life in aerated aqueous solutions

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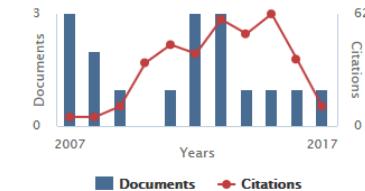
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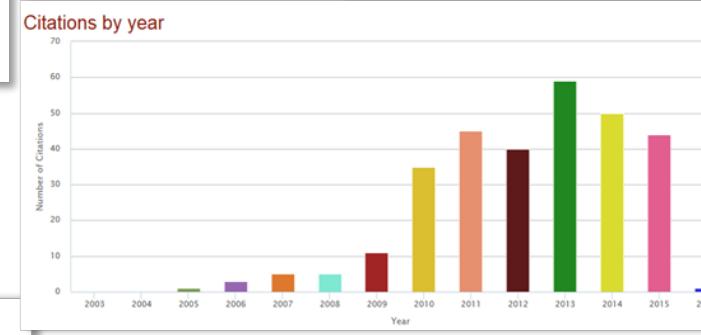
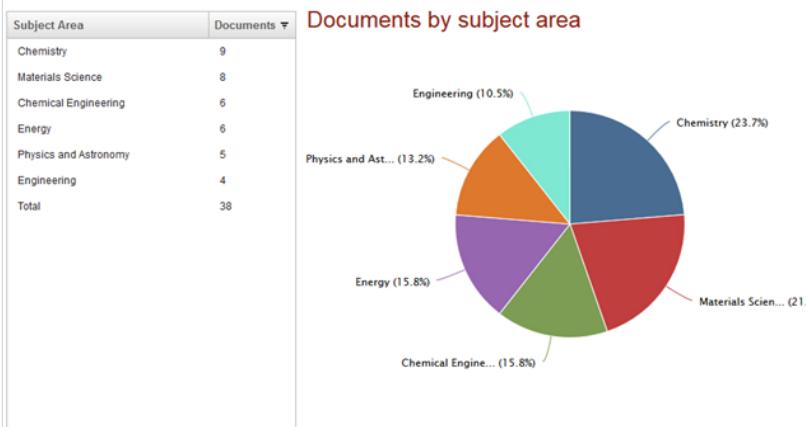
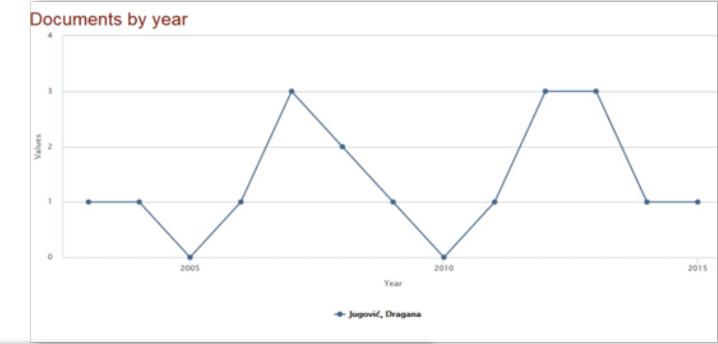
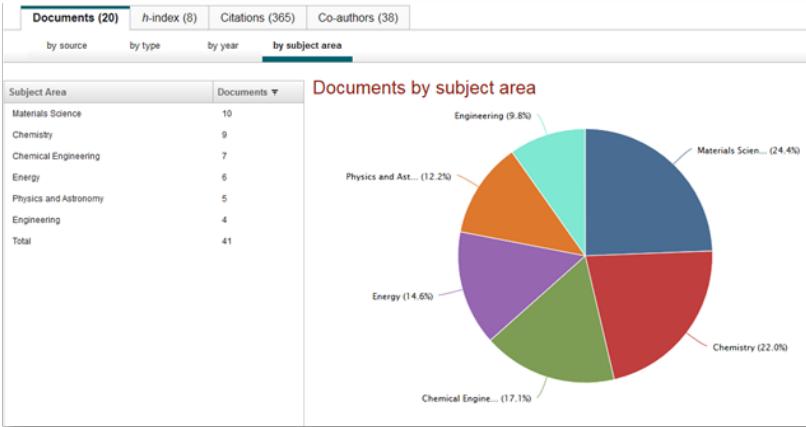
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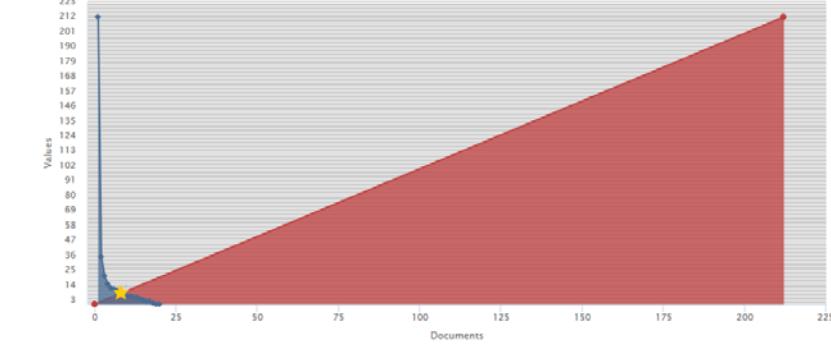
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Composite biomaterials comprising nanostructured hydroxyapatite (HAp) have an enormous potential for natural bone tissue reparation, filling and augmentation. Chitosan (Ch) as a naturally derived polymer has many physicochemical and biological properties that make it an attractive material for use in bone tissue engineering. On the other hand, poly-D,L-lactide-co-glycolide (PLGA) is a synthetic polymer with a long history of use in sustained drug delivery and tissue engineering. However, while chitosan can disrupt the cell membrane integrity and may induce blood thrombosis, PLGA releases acidic byproducts that may cause tissue inflammation and interfere with the healing process. One of the strategies to improve the biocompatibility of Ch and PLGA is to combine them with compounds that exhibit complementary properties. In this study we present the synthesis and characterization, as well as in vitro and in vivo analyses of a nanoparticulate form of HAp coated with two different polymeric systems: (a) Ch and (b) a Ch-PLGA polymer blend. Solvent/non-solvent precipitation and freeze-drying were used for synthesis and processing, respectively, whereas thermogravimetry coupled with mass spectrometry was used for phase identification purposes in the coating process. HAp/Ch composite particles exhibited the highest antimicrobial activity against all four microbial strains tested in this work, but after the reconstruction of the bone defect they also caused inflammatory reactions in the newly formed tissue where the defect

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Eslam Mekhemer asked a question:

What are the best conditions for thermolysis of organic compounds?

I went information about the whole process of thermolysis and its importance in chemistry

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John George Hardy asked a question:

Please can anyone inform me of scholarships to enable Indian students to do their PhD in England (UK)?

Dear all, I am keen to recruit students from overseas to join my research team at the new Department of Chemistry at Lancaster University. If you know of grants/scholarships to enable Indian

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Ronak Shah asked a question:

Is there any method to Quantitatively determine the attachment of Cdots to a nanoparticle?

Cdots are used as capping agents Is there a method to know how many cdots have attached quantitatively

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Inno Davidson asked a question:

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HVDC systems are known to be difficult and expensive to tap small amounts of power from them.

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M Zdujč - 1996 - itn.sanu.ac.rs

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BIO

Nenad L. Ignjatovic was born on October 12, 1967, in Smederevska Palanka, Serbia. He received the BSc degree in 1994, the MSc degree in 1996, and the PhD degree at the Faculty of Technology and Metallurgy, University of Belgrade, in 2001. He was elected a Research Associate in 2002 and a Senior Research Associate in 2005. Nenad Ignjatovic has been holding the position of Professor at the Medical School of the University of Niš since 2007. Dr. Ignjatovic was elected a Principal Research Fellow in 2010. He became a corresponding member of the Academy of Engineering Sciences of Serbia in 2012.

He was a member of the organizing committee of YUCOMAT Conferences between 1997 and 2008; since 2008, he has been a member of the Presidency of the Materials Research Society of Serbia. Between 2002 and 2012, he was the President of the Organizing and Scientific committees of the annual MRS-Serbia young researchers conferences "Science and Engineering of New Materials".



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