



Vodič za izradu seminarских radova iz predmeta Nanotehnologije

Vanr. prof.dr Pal Terek

Naučni članci

- Naučni članak istraživačkog tipa (*Research article*)

Šta je to?

Potreba za istaživanjem > eksperiment > rezultati i diskusija > zaključci

Rezultat

Nova saznanja iz neke oblasti spremne za primenu u industriji ili za dalji razvoj obl.

- Naučni članak preglednog tipa (*Review article*)

Šta je to?

Pregled najznačajnijih i najaktuelnijih istraživanja i rezultata iz neke oblasti

Rezultat

Sistematizovan pregled iz neke oblasti

- Citiranost

Seminarski rad

- Obraditi na 10 – 15 strana tematiku koristeći najrelevantnije naučne članke i literaturu sa interneta (Wikipedia, minimalno)
- Držati se teme rada i ne pisati opšti rad i uvod u nanotehnologije
- Ne koristiti preogromne slike
- Koristi bazu naučnih radova SCOPUS, KOBSON
- PROVERAVATI informacije iz literature jer ima svega
- Može se dati i statistički pregled određenih radova, koristeći analize iz SCOPUSa
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 - Na kraju svih pasusa obavezno citirati izvore
 - Kod svih slika citirati izvor
 - Napraviti spisak korišćene literature (bibliografiju)
- Rad se izrađuje u iteracijama u komunikaciji sa predmetnim profesorom
- Napraviti prezentaciju rada i predstaviti ga u okviru od 7 do 10 min
- Prezentacija radova 1.3.2023.godine

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	Document title	Authors	Year	Source	Cited by
<input type="checkbox"/> 1	Efficient polysulfide blocker from conductive niobium nitride@graphene for Li-S batteries	Shi, H., Sun, Z., Lv, W., (...), Yang, Q.-H., Li, F.	2020	Journal of Energy Chemistry 45, pp. 135-141	0
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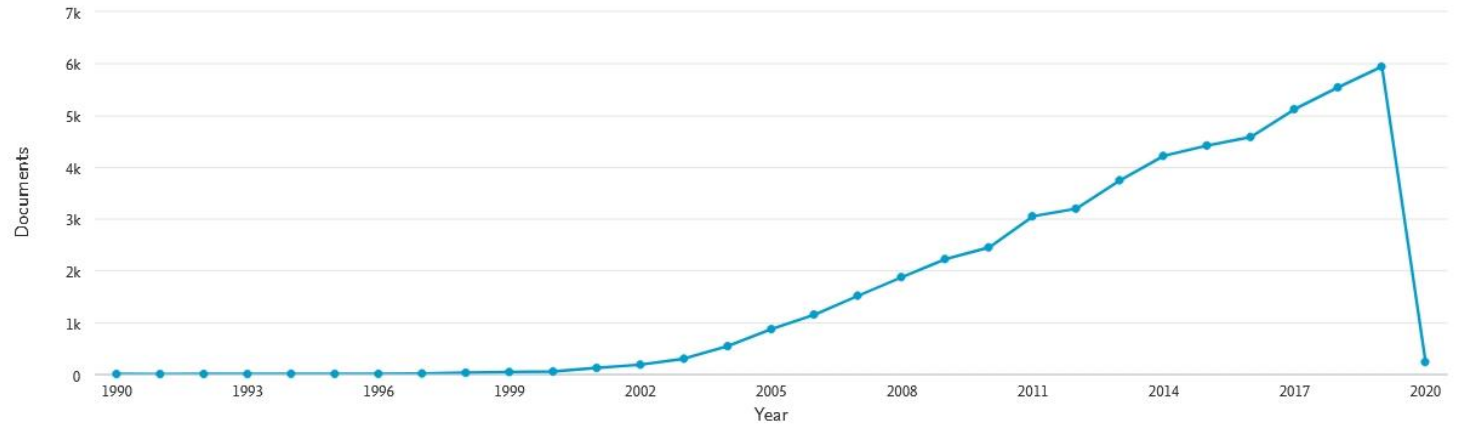
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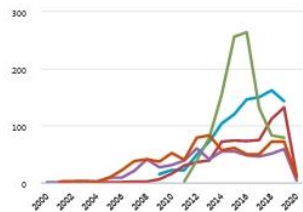
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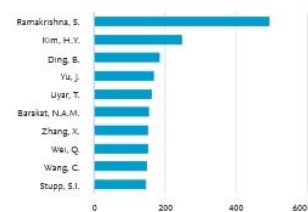


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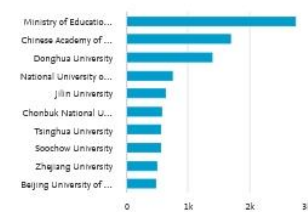
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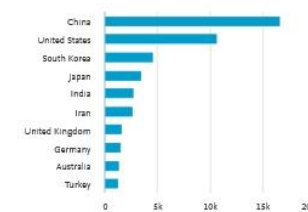
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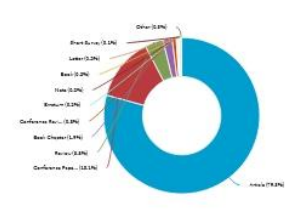
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Izbor prikaza rezultata

Naučni članak

Naslovna strana članka

Journal of Controlled Release 161 (2012) 403–408



Contents lists available at SciVerse ScienceDirect

Journal of Controlled Release

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Review

Safety assessment of nanomaterials: Implications for nanomedicine

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ABSTRACT

Nanotechnologies offer exciting opportunities for targeted drug delivery which is anticipated to increase the efficacy of the drug and reduce potential side-effects, through the reduction of the dose of the drug in bystander tissues and an increase of the drug at the desired target site. Nevertheless, understanding whether the nano-scale carriers themselves may exert adverse effects is of great importance. The small size may enable nanoparticles to negotiate various biological barriers in the body which could, in turn, give rise to unexpected toxicities. On the other hand, the potential of nanoparticles to cross barriers can also be exploited for drug delivery. Determining the fate of nanoparticles following their therapeutic or diagnostic application is critical: are nanoparticles excreted, or biodegraded, or do they accumulate, potentially leading to harmful long-term effects? The bio-corona of proteins or lipids on the surface of nanoparticles is a key parameter for the understanding of biological interactions of nanoparticles. In the present review, we discuss some of the major challenges related to safety of nanomedicines.

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1. Introduction

Arsenic is recognized as a potential carcinogen and arsenic poisoning from naturally occurring arsenic compounds in drinking water is a considerable problem in many parts of the world. However, arsenic

has also been used in traditional medicine for millennia, and arsenic trioxide is approved by the US FDA for the treatment of patients with acute promyelocytic leukemia. Drawing on this analogy, there is currently great concern that engineered nanoparticles may exert unexpected toxicities and pose a threat to human health and the environment; on the other hand, nanoparticles may be exploited for targeted drug delivery and could reduce the adverse bystander effects of conventional drugs, including chemotherapeutic drugs (Fig. 1). In fact, nanoparticles may also be used to overcome drug resistance by circumventing P-glycoprotein-dependent drug efflux in cancer cells [1]. In other words, there are two sides to the coin.

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Broj, godina, broj strana

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Central List of Documents:

★	●	📄	Authors	Title	Year	Published In	Added
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☆	●		Paskvale, Srečko	Carbon-based protective coatings deposited by physical vapour deposition precesses	2012		dec 4
☆	●	📄	Robertson, J.	Diamond-like amorphous carbon	2002	Materials Science and Engineering: R: Reports	dec 4
☆	●	📄	Kahn, M.; Paskvale, S.; Čekada, M.; Schöberl, T.; Waldhauser, W.; Mitterer, C.; Pelicon, P.; ...	The relationship between structure and mechanical properties of hydrogenated amorphous carbon films	2010	Diamond and Related Materials	dec 4
☆	●		Fallon, P. J.; Veerasamy, V. S.; Davis, C. A.; Robertson, J.; Amaratunga, G. A. J.; Milne, ...	Erratum: Properties of filtered-ion-beam-deposited diamondlike carbon as a function of ion energy	1994	Physical Review B	dec 4
☆	●	📄	Hofsäss, H.; Feldermann, H.; Merk, R.; Sebastian, M.; Ronning, C.	Cylindrical spike model for the formation of diamondlike thin films by ion deposition	1998	Applied Physics A: Materials Science and Processing	dec 4
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☆	●	📄	Neville, Stephane; Matthews, Allan	A perspective on the optimisation of hard carbon and related coatings for engineering applications	2007	Thin Solid Films	dec 3
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☆	●	📄	Uhlmann, E.; Fuentes, J. A.Oyanedel; Keunecke, M.	Machining of high performance workpiece materials with CBN coated cutting tools	2009	Thin Solid Films	nov 24
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☆	●	📄	Yamamoto, K.; Keunecke, M.; Bewilogua, K.; Czigany, Zs; Hultman, L.	Structural features of thick c-boron nitride coatings deposited via a graded B-C-N interlayer	2001	Surface and Coatings Technology	nov 24
☆	●	📄	Uhlmann, E; Fuentes, J A O; Keunecke, M	Analysis and Application of Cbn Coated Cutting Tools	2008	7th International Conference Coatings in M...	nov 24
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☆	●	📄	Stein, Christian; Keunecke, Martin; Bewilogua, Klaus; Chudoba, Thomas; Kölker, Werner; de...	Cubic boron nitride based coating systems with different interlayers for cutting inserts	2011	Surface and Coatings Technology	nov 24
☆	●	📄	Park, Sung Tae; Han, Jeon Geon; Keunecke, M.; Lee, Kwangmin	Mechanical and structural properties of multilayer c-BN coatings on cemented carbide cutting tools	2017	International Journal of Refractory Metals and Har...	nov 24
☆	●	📄	Keunecke, M.; Yamamoto, K.; Bewilogua, K.	Mechanical and tribological properties of cBN films on silicon and tungsten carbide substrates	2001	Thin Solid Films	nov 24
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☆	●	📄	Kulich, Wilhelm; Freudenstein, Regine	Deposition of thick cubic boron nitride films — Mechanisms and concepts	2007	Thin Solid Films	nov 24
☆	●		Vinod K. Sarin, Christoph E. Nebel	Comprehensive Hard Materials volume 3 Super Hard Materials	2014		nov 23
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☆	●	📄	Ronning, C; Feldermann, H; Hofsäss, H	Growth, doping and applications of cubic boron nitride thin films	2000	Diamond and Related Materials	nov 23
☆	●		Anthony, CHEUK	Investigation of semiconducting properties of cubic boron nitride	2009		nov 23

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