

Претрага литературе за успешне студије будућих научника (V)



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Универзитет у Београду - Хемијски факултет,
Београд, април 2024.



1

Литература у штампаној форми -
шта нам Библиотека нуди?

2

Литература у електронској форми -
КоБСОН сервис

3

Навођење литературе у радовима -
стилови цитирања и библиографски алати

4

Cherry - репозиторијум научних радова
Хемијског факултета и Иновационог центра

Библиотечки фонд



Библиотека Хемијског факултета - преко 100.000 библиотечких јединица



- ❖ стране серијске публикације,
- ❖ уџбеници - у слободном приступу,
- ❖ приручна литература,
- ❖ енциклопедије, речници и зборници,
- ❖ магистарски и специјалистички радови,
- ❖ дипломски и мастер радови,
- ❖ докторске дисертације.

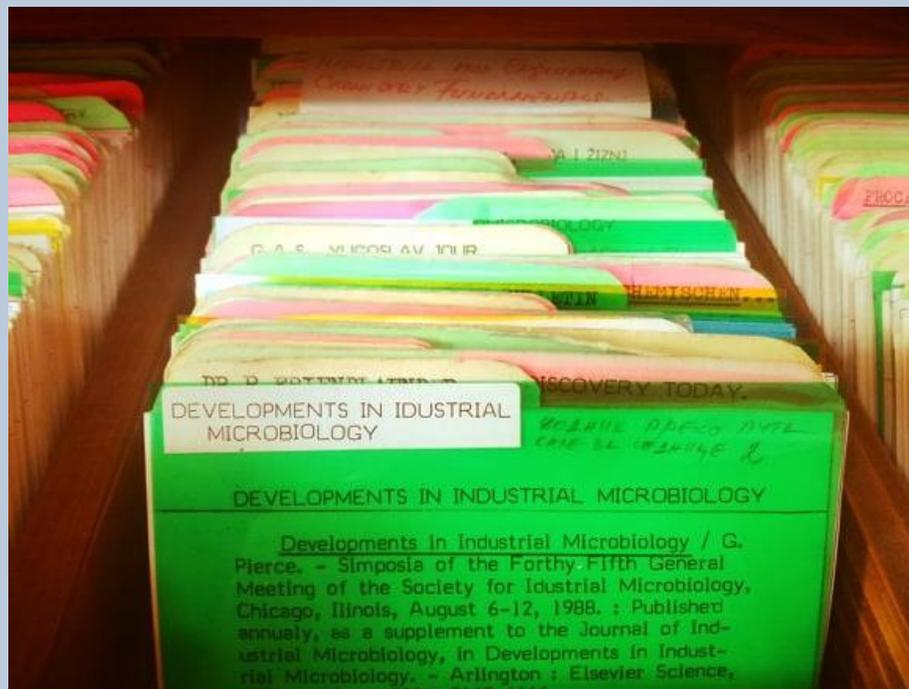
Лисни библиотечки каталог **за монографске публикациије**

- предметни каталог - по стручним областима,
- ауторски каталог - по абecedном реду презимена аутора.



Лисни библиотечки каталог за серијске публикациије

- абecedни каталог наслова серијских публикација,
- топографски каталог - по месту смештаја публикација.



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- предметни,
- ауторски.



Електронски библиотечки каталог

Библиотека Хемијског факултета је 2019. године постала део библиотечно-информационог система COBISS.SR. Циљ приступања је повезивање са библиотекама у Србији у јединствен информациони систем, чиме се корисницима обезбеђује приступ информацијама и документима на једном месту.

Корисници преко Интернета могу да врше претрагу у било које доба дана и на било ком месту имајући увид у ниво доступности тражене публикације у својој или некој другој библиотеци. Претрага се врши према аутору, наслову, издавачу и другим подацима који су на располагању.

Узајамни е-каталог библиотека у Србији COBISS+ (претраживање библиотечке грађе у библиотекама у Србији - Виртуелна библиотека Србије).

Е-каталог Библиотеке Хемијског факултета (претраживање библиотечке грађе у библиотеци Хемијског факултета).



Изборно претраживање Командно претраживање

Низ за претраживање

претражи књигу, часопис, DVD...

* сва грађа

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22. март у 13:48 · 🌐

Данас је Дан отворених врата Хемијског факултета!
Посета Библиотеци и лабораторијама уз занимљиве огледе и наградни квиз... 🍀



hemijskifakultet
и
bibliotekazadesetke

hemijskifakultet Ana Đorđević, bibliotekarka u Biblioteci Hemijskog fakulteta je, sa svojim timom istraživača, predstavila pilot istraživanje u okviru projekta Evropske komisije GraspOS o primeni otvorene nauke. Ovaj međunarodni tim je sastavljen od devet pilota kojima je glavni cilj odgovorna procena naučnog istraživanja.

U intervjuu koji možete pročitati ovde <https://graspos.eu/inside-stories-from-the-pilot-studies-open-science-and-responsible-research-assessment-strategies-at-the-university-of-belgrade-faculty-of-chemistry> Ana je približila fokus istraživanja na Hemijskom fakultetu kao prvom u Srbiji koji se na međunarodnom nivou bavi ovom značajnom temom za istraživače i bibliotekare.

Na primer, da bi se principi otvorene nauke još bolje primenjivali na Hemijskom fakultetu, razvijaće se sistem nagrađivanja istraživača pojedinačno, ali i na nivou katedara koji redovno deponuju svoje naučne publikacije u Cherry, institucionalni repozitorijum naučnih rezultata.

Da saznate više o ovom projektu, prijavite se na bilten GraspOS projekta. <https://graspos.eu/>

#GraspOS #OpenScience #hemijskifakultet

5 нед. Прикажи превод

katicas71 Baš lepo, korisno i domišljato 🍌

5 нед. 2 свиђања Одговорите Прикажи превод

miljanicatorovic Bravoool! Svaka cast! 🍌

@hemijskifakultet

5 нед. 3 свиђања Одговорите Прикажи превод

151 свиђања

1. март

Обавешења о новим насловима
на нашој Фејсбук страници и
Инстаграм профилу...

КоБСОН сервиси доступни у Библиотеци Хемијског факултета

- Am Psych Ass
- ME ASME
- CU Cambridge
- EM Emerald
- IO Inst Phys Publ
- OX Oxford Journals
- RC RSC
- SAGE

Електронски
часописи -
35.000

- FSO eBook
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- JS JSTOR
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- CA CAB Abstracts
- IN INIS
- PM MEDLINE
- SC Scopus
- SCIndeks
- SF SciFinder-n
- Web of Science

Индексне базе
(SciFinder, Web of
Science, Scopus...)

* Академска мрежа

Претрага електронских часописа и књига

КоБСОН сајт >
Брза страница >
Избор издавача

Elektronski časopisi	
Izdavači:	
• AA	Am Antiq Soc
• AC	Am Chem Soc
• AP	Am Phys Soc
• PA	Am Psych Assoc
• ME	ASME
• CU	Cambridge
• EM	Emerald
• IO	Inst Phys Publ
• OX	Oxford Journals
• RC	RSC
• SG	SAGE
• SD	Science Direct
• SP	Springer/Kluwer
• WI	Wiley

* светло зелени -
обухватају часописе
из једне области

* тамно зелени -
мултидисциплинарни

Elektronske knjige	
• CL	Cleveland Med Index
• DOAB	DOAB
• EB	EBSCO eBook
• FM	FreeBooks4Doctors
• GB	Google Books
• HE	Hein On Line
• JS	JSTOR
• OA	OAPEN books
• OB	Open Book Publishers
• PM	PubMed knjige
• SD	Science Direct
• SP	Springer
• WI	Wiley

Agregatori:	
• CI	Cairn.info
• DOAJ	DOAJ
• EB	EBSCO
• FM	Free Medical
• HE	Hein On Line
• HW	High Wire
• JS	JSTOR
• MU	Project MUSE
• TE	TEEAL
• Scindeks	Scindeks
• DOI	DoiSerbia



* Базе које садрже часописе више издавача, често су под ембарго периодом од 3, 6, 12 или 24 месеца. Добра страна агрегатора је што прикупљају часописе мањих издавача које немамо посредством претплате, а на овај начин можемо да им приступимо.

American Chemical Society

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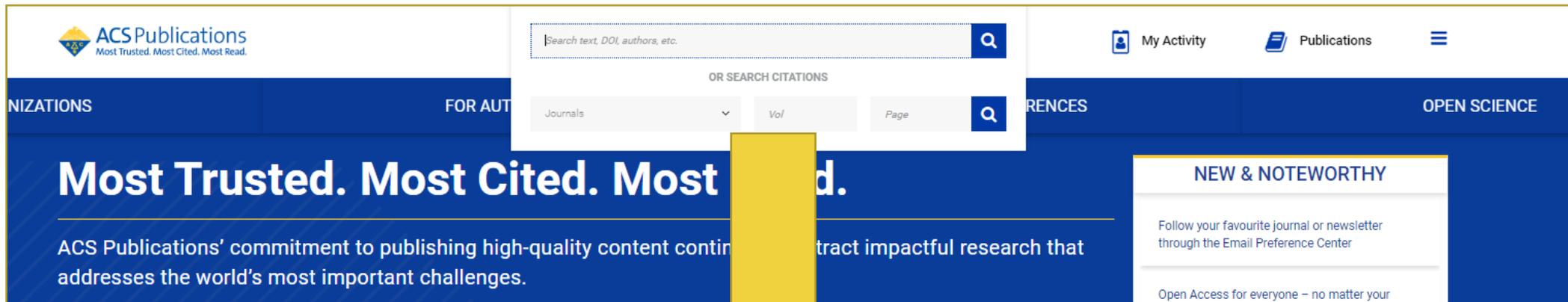
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У поље за претрагу унети неки од следећих познатих параметара:

Наслов публикације

- ❖ Име аутора
- ❖ DOI број (дигитални идентификатор чланка)
- ❖ Кључне речи (раздвајају се буловим оператором "and")

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My Activity Publications

NARROW RESULTS

RESULTS: 1 - 20 of 44361

Follow results:

CONTENT GROUP TYPE

Articles ASAP (As Soon As Publishable)	191
Just Accepted Manuscripts	61

CONTENT TYPE

Book Chapter	1469
Reference/Standard	2
C&EN Article	1111
Journal Article	40598

ARTICLE TYPE

Research Article	36569
------------------	-------

REFINE SEARCH

Унети што више кључних речи за проналазак релевантне литературе.

1 2 3 4 5 6 7 >

Chapter
Modern Liquid Chromatography in Clinical Chemistry

BARRY L. KARGER

Clinical Chemistry,
Chapter 8, 1976, 226-247
ACS Symposium Series, Volume 36
DOI: 10.1021/bk-1976-0036.ch008
Publication Date (Print): June 1, 1976

Abstract PDF



NARROW RESULTS

CONTENT GROUP TYPE

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Book Chapter	1469
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Journal Article	40598

ARTICLE TYPE

Research Article	36569
Review Article	2605
Chapter	1457

News	862
Rapid Communication	854
MORE (15)	

PUBLICATION DATE

Last Year	2490
Last 6 Months	1396
Last 3 Months	822
Last Month	390
Last Week	175

AUTHOR

Paquette, Leo A	111
Smith, Richard D	71
Hammock, Bruce D	47
Katzenellenbogen, John A	47
Hamel, Ernest	46

PUBLICATION

Analytical Chemistry	8716
Journal of Agricultural and Food Chemistry	3673
The Journal of Organic Chemistry	2855
Journal of the American Chemical Society	2783
Journal of Medicinal Chemistry	2707
MORE (63)	

TOPICS

Biology and biological chemistry	15050
Physical chemistry	14996
Inorganic chemistry	12114
Organic chemistry	11586
Cross-disciplinary concepts	10665
MORE (5)	

Додатно сузити избор параметрима са леве стране...





NARROW RESULTS

FILTERS APPLIED

Last 6 Months ✕

Journal Article ✕

Analytical Chemistry ✕

Clear all

CONTENT GROUP TYPE

Articles ASAP (As Soon As Publishable) 13

Just Accepted Manuscripts 7

ARTICLE TYPE

Research Article 99

Review Article 21

Brief Report 6

RESULTS: 1 - 20 of 129

Follow results:

REFINE SEARCH ▾

PER PAGE: 20 50 100

↕ SORT: RELEVANCE ▾

1 2 3 4 5 6 7 >

Article

Separation Orthogonality in Liquid Chromatography–Mass Spectrometry for Proteomic Applications: Comparison of 16 Different Two-Dimensional Combinations

Darien Yeung, Benilde Mizero, Daniel Gussakovsky, Nicole Klaassen, Ying Lao, Victor Spicer, and Oleg V. Krokhin*

Analytical Chemistry, Articles ASAP (Article)

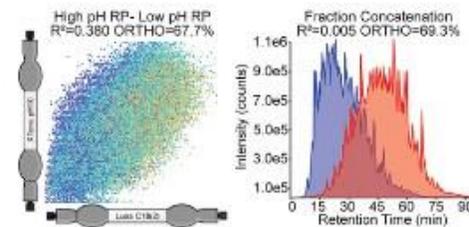
Publication Date (Web): February 7, 2020

DOI: 10.1021/acs.analchem.9b05407

Abstract

Full text

PDF



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Article

Separation Orthogonality in Liquid Chromatography–Mass Spectrometry for Proteomic Applications: Comparison of 16 Different Two-Dimensional Combinations

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Analytical Chemistry, Articles ASAP (Article)

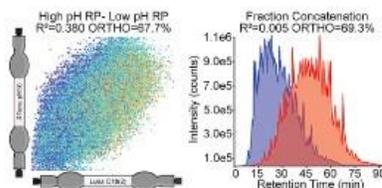
Publication Date (Web): February 7, 2020

DOI: 10.1021/acs.analchem.9b05407

Abstract

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analytical
chemistry

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Article

Separation Orthogonality in Liquid Chromatography–Mass Spectrometry for Proteomic Applications: Comparison of 16 Different Two-Dimensional Combinations

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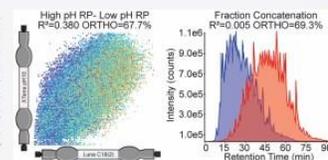
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Supporting Information

ABSTRACT: Peptide separation orthogonality for 16 different 2D LC-ESI MS systems has been evaluated. To compare and contrast the behavior of the first dimension columns, a large proteomic retention data set of ~30 000 tryptic peptides was collected for each 2D pairing. The selection of the first dimension system was made to cover the most popular peptide separation modes applied in proteomics: reversed-phase (RP) separations with different pH, hydrophilic interaction liquid chromatography (HILIC), strong cation and anion exchange (SCX, SAX), and mixed-mode separations. The separation orthogonality generally increases in the order RP < SCX < HILIC < SAX, with the exception of high pH RP–low pH RP system, which showed the second best orthogonality value (68%), just behind PolySAX LP column (74%). The identification output of the 2D LC-MS/MS system is driven by both separation orthogonality and efficiency, making high pH RP the best choice for the first dimension separation. Its performance in combination with a standard C18 at acidic pH can be increased further through the application of pairwise fraction concatenation. The effect of the latter has been evaluated using *in silico* fraction concatenation, which has been proven to show improvement only for RP separations in the first dimension. Concatenation of two, three, and four–five fractions into one is shown to be the most effective for high pH RP and HFBA- and TFA-based C18 separations, respectively. We also suggest simple guidelines for the unbiased determination of dissimilarity for two separation dimensions and evaluate separation orthogonality in 3D LC-LC-MS separation space for all systems under investigation.



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Март 2022.

Separation Orthogonality in Liquid Chromatography–Mass Spectrometry for Proteomic Applications: Comparison of 16 Different Two-Dimensional Combinations

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✔ Cite this: *Anal. Chem.* 2020, 92, 5, 3904–3912

Publication Date: February 7, 2020

<https://doi.org/10.1021/acs.analchem.9b05407>

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Supporting Info (1) »

Article Views	Altmetric	Citations
1075	4	11

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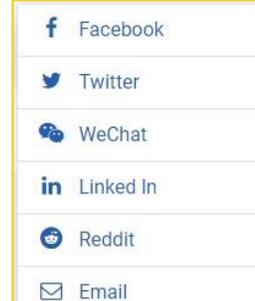
SUBJECTS: Hydrophilicity, Hydrophobicity, Proteomics

Број прегледа чланка

Број цитата

Број помињања чланка на друштвеним мрежама, блоговима, сајтовима...

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Separation Orthogonality in Liquid Chromatography–Mass Spectrometry for Proteomic Applications: Comparison of 16 Different Two-Dimensional Combinations

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Supporting Info (1) »

Article Views	Altmetric	Citations
1365	4	18

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SUBJECTS: Chromatography, Hydrophilicity, Hydrophobicity, Peptides and proteins, Proteomics

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Separation Orthogonality in Liquid Chromatography–Mass Spectrometry for Proteomic Applications: Comparison of 16 Different Two-Dimensional Combinations

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Article Views

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Altmetric

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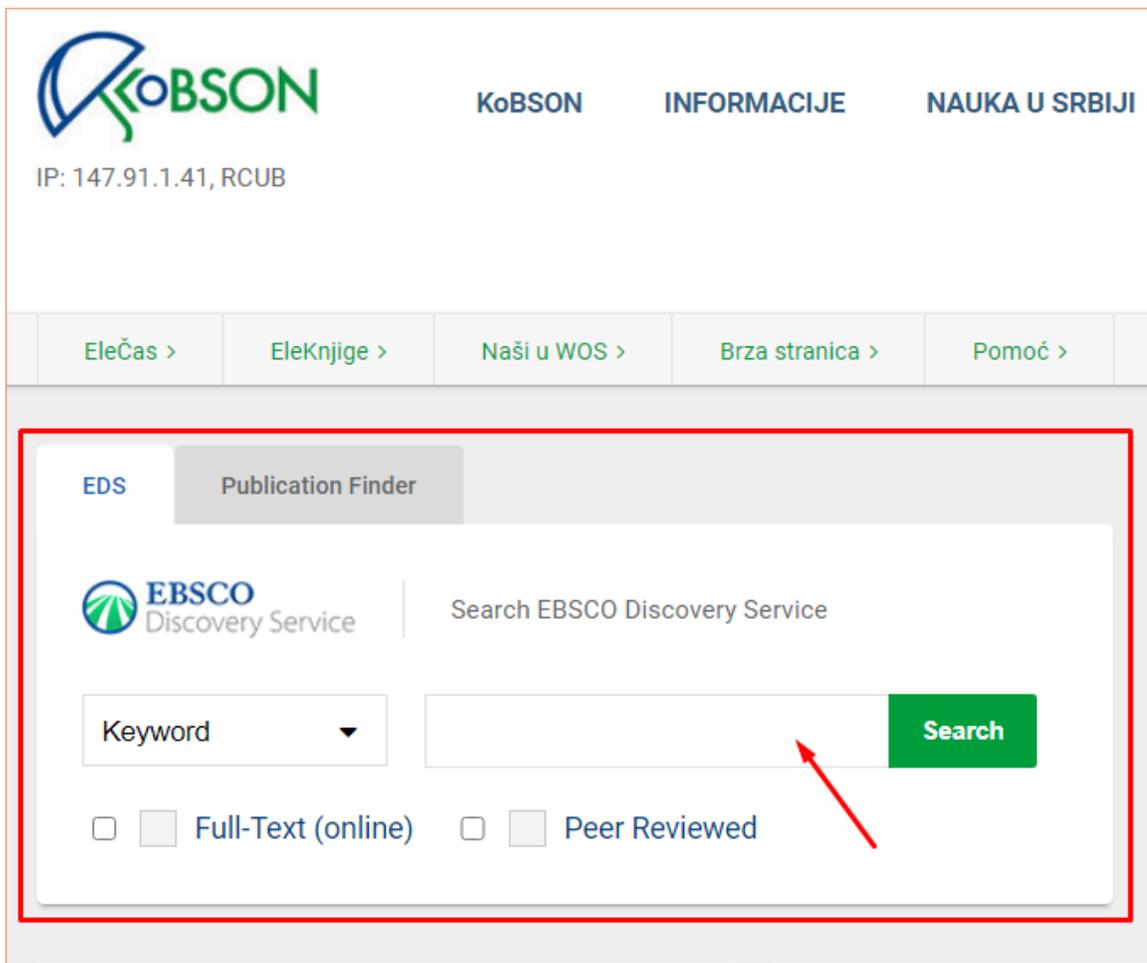


SUBJECTS: Chromatography, Hydrophilicity, Hydrophobicity, Peptides and proteins, Proteomics

	2022.	2023.	2024.
Број прегледа:	1075	1365	1657
Број помињања:	4	4	4
Број цитата:	11	18	23



Обједињена претрага свих КоБСОН сервиса



The screenshot displays the KoBSON website interface. At the top left is the KoBSON logo and the IP address 147.91.1.41, RCUB. Navigation links include KoBSON, INFORMACIJE, and NAUKA U SRBIJI. A secondary menu contains EleČas >, EleKnjige >, Naši u WOS >, Brza stranica >, and Pomoć >. The main content area features the EDS Publication Finder section, which includes the EBSCO Discovery Service logo and a search bar. The search bar contains the text "Search EBSCO Discovery Service" and a "Search" button. Below the search bar are checkboxes for "Full-Text (online)" and "Peer Reviewed". A red arrow points to the search input field.



Почетна страна КоБСОН сајта > EBSCO Discovery Service



Searching: Discovery Service for KoBSON - Serbia

KoBSON - Serbia

Keyword analytical chemistry and chromatography

Search

Basic Search Advanced Search Search History



Refine Results

Current Search

Find all search terms:

analytical chemistry and chromatography

Expanders

Apply equivalent subjects

Also search within the full text of the articles

Limiters

Full Text

Date Published: 20150101-20201231

Source Types

Academic Journals

Subject

chromatography

liquid chromatography

Language

english

Geography

europa

Clear All

Search Results: 1 - 30 of 851,747



Search Results: 1 - 20 of 20

Relevance Page Options Share

1. Determination of picomolar levels of methylmercury complexes with low molecular mass thiols by liquid chromatography tandem mass spectrometry and online preconcentration



In: *Analytical and Bioanalytical Chemistry*. Springer Berlin/Heidelberg, 2020. Language: English, Database: SwePub

Methylmercury (MeHg) is one of the most potent neurotoxins. It is produced in nature through the methylation of inorganic divalent mercury (HgII) by phylogenetically diverse anaerobic microbes. T...

Subjects: Natural Sciences; Chemical Sciences; **Analytical Chemistry**; Naturvetenskap; Kemi; Analytisk kemi; Methylmercury-thiol complex; Low molecular mass thiols; Liquid chromatography tandem mass spectrometry; Online preconcentration

View record in SwePub PlumX Metrics

2. Preparation of Carbotrap/silica composite for needle trap field sampling of halogenated volatile organic compounds followed by gas chromatography/mass spectrometry determination 03 Chemical Sciences 0301 Analytical Chemistry 03 Chemical Sciences 0306 Physical Chemistry (incl. Structural)

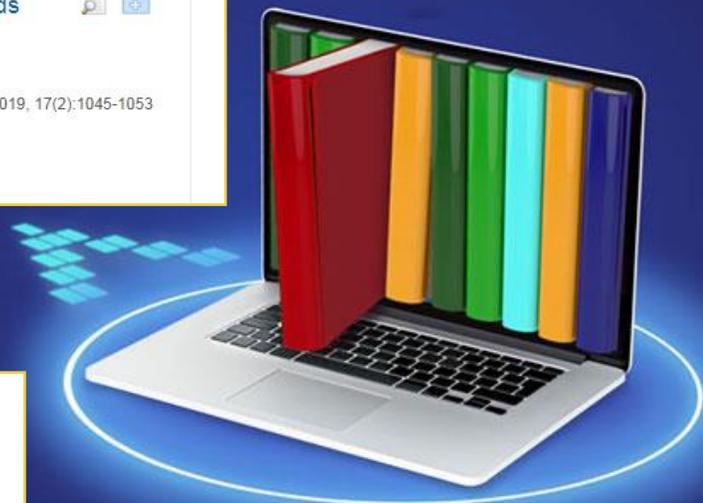


By: Poormohammadi, A.; Bahrami, A.; Ghiasvand, A.; Shahna, F.G.; Farhadian, M.; Journal of Environmental Health Science and Engineering, 5 December 2019, 17(2):1045-1053

Language: English. Springer DOI: 10.1007/s40201-019-00418-2, Database: Scopus®

Subjects: Air; Carbotrap B; Dry cleaning; Needle trap device; Silica

Унети што више кључних речи и одредница са леве стране платформе за конкретније резултате претраге.



Подаци о документу

Штампање
чланка или
слање на имејл.

The screenshot shows a list of academic articles. The fourth article is highlighted with a detailed view box. The detailed view includes the title, authors, source, date, publication type, and subjects. Below the list, there are two yellow arrows pointing down to labels: 'Преглед пуног текста.' and 'Број цитата.'. A large yellow arrow points up from the detailed view box to the top right label. Another large yellow arrow points down from the detailed view box to a label at the bottom right.

By: Caballero-Casero, N.; García-Fonseca, S.; Rubio, S.; Food Control; 88 Oxford:Elsevier Ltd,2018,33-39(Journal Article), Database: CAB Abstracts 1990-Present

A simple and high-throughput sample treatment, based on the use of a supramolecular solvent with restricted access properties (S...)

Subjects: analysis; **analytical** methods; centrifuges; **chromatography**; commodities; equipment; essential oils; extracts; food safe... quantitative analysis; regulations; repeatability; separators; spices; surveillance; techniques; turmeric; **Europe**; **Europe**; European...

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4. **Simultaneous determination of twelve dyes in meat products: development and validation of an analytical method based on HPLC-UV-diode array detection.**

By: Iammarino, M.; Mentana, A.; Centonze, D.; Palermo, C.; Mangiacotti, M.; Chiaravalle, A. E.; Food **Chemistry**; 285 Oxford:Elsevier Ltd,2019,267-274(Journal Article), Database: CAB Abstracts 1990-Present

The use of food dyes in meat is subject to regulations, due to food safety concerns. A reliable method for the determination of 12 fo...

Subjects: ammonia; analysis; **analytical** methods; **chromatography**; determination; estimation; food; food **chemistry**; food colour... **Europe**; **Europe**; European Union; European Union

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Simultaneous determination of twelve dyes in meat products: development and validation of an analytical method based on HPLC-UV-diode array detection.

Authors: Iammarino, M.; Mentana, A.; Centonze, D.; Palermo, C.; Mangiacotti, M.; Chiaravalle, A. E.

Source: Food Chemistry

Date: 2019

Publication Type: Academic Journal

Subjects: ammonia; analysis; analytical methods; chromatography; determination; estimation; food; food chemistry; food colourants; food safety; foods; fresh products; liquid chromatography-mass spectrometry; liquid chromatography; techniques;

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Author(s): Iammarino, M.; Mentana, A.; Centonze, D.; Palermo, C.; Mangiacotti, M.; Chiaravalle, A. E.

Address: National Reference Center for the Detection of Radioactivity in Feed and Foodstuff, Istituto Zooprofilattico Sperimentale della Puglia e della Basilicata, Via Manfredonia 20, 71121 Foggia, Italy.; marco.iammarino@tin.it; annalisa.mentana@unifg.it; diego.centonze@unifg.it; carmen.palermo@unifg.it; michele.mangiacotti@izspb.it; eugenio.chiaravalle@izspb.it

Source: *Food Chemistry* 285 Oxford: Elsevier Ltd, 2019, 1-9

Language: English

Country of Publication: UK

Abstract: The use of food dyes in meat is subject to regulations, due to food safety concerns. A reliable method for the determination of 12 food dyes (Amaranth, Ponceau 4R, Carmine, Ponceau SX, Ponceau 3R, Allura Red AC, Carmoisine, Erythrosine, Sudan I, Sudan II, Sudan III and Sudan IV) in meat products using high performance **liquid chromatography** coupled to UV-diode array detection was developed, optimized and fully validated. The extraction was accomplished using acetonitrile, methanol, water, ammonia, 50:40:9:1 (v/v/v/v) as the solvent, and an ultrasonic bath. Chromatographic separation was achieved using a C18 RP column and samples eluted with a gradient acetate-acetonitrile mobile phase. Good **analytical** performance was obtained, in terms of selectivity, sensitivity, accuracy and ruggedness. Both method precision (CV% range: 6.2%-18.0%) and recovery (range: 86.4%-105.0%) complied with Decision 657/2002/EC, suggesting the procedure could be applied successfully for analyses of meat products in the European Union.

Number of References: 32 ref.

References:

Subject Terms: Descriptors: ammonia; analysis; **analytical** methods; **chromatography**; determination; estimation; food; food **chemistry**; food colourants; food safety; foods; fresh products; **liquid chromatography**; meat; meat products; methodology; techniques
Geographic: **Europe**; European Union

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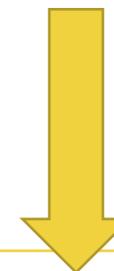
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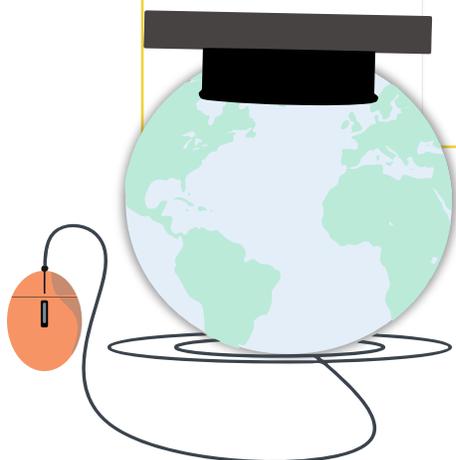
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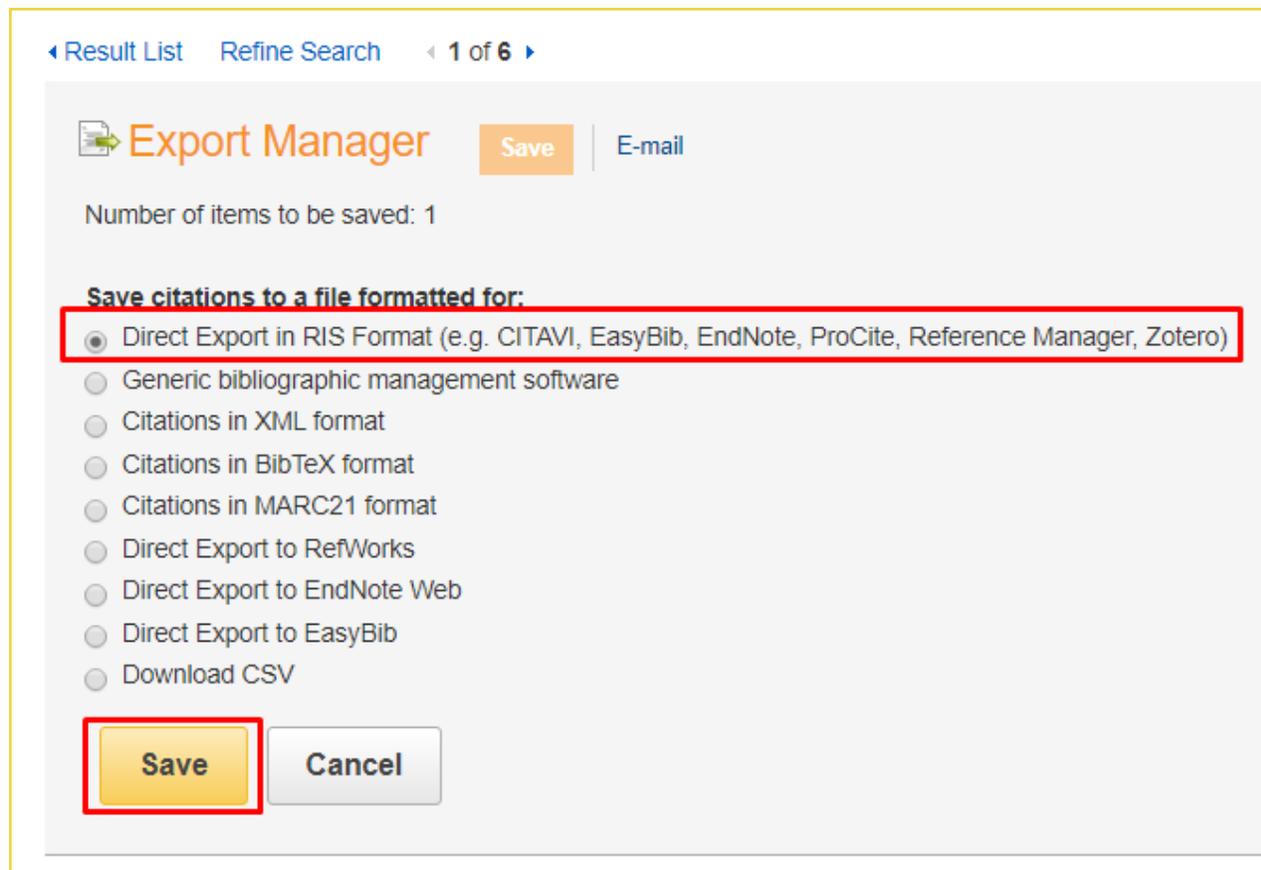
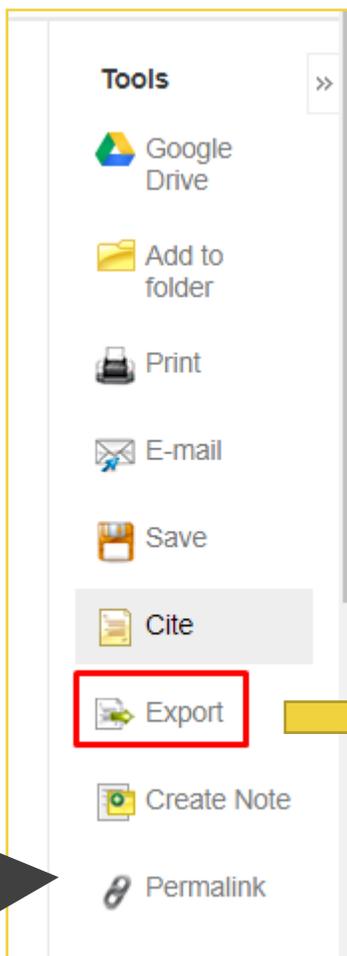
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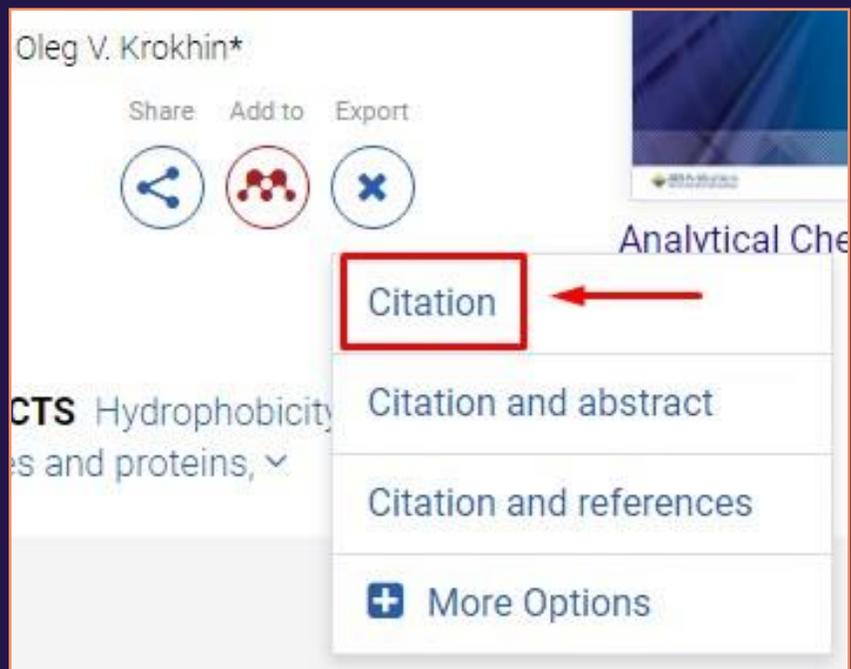
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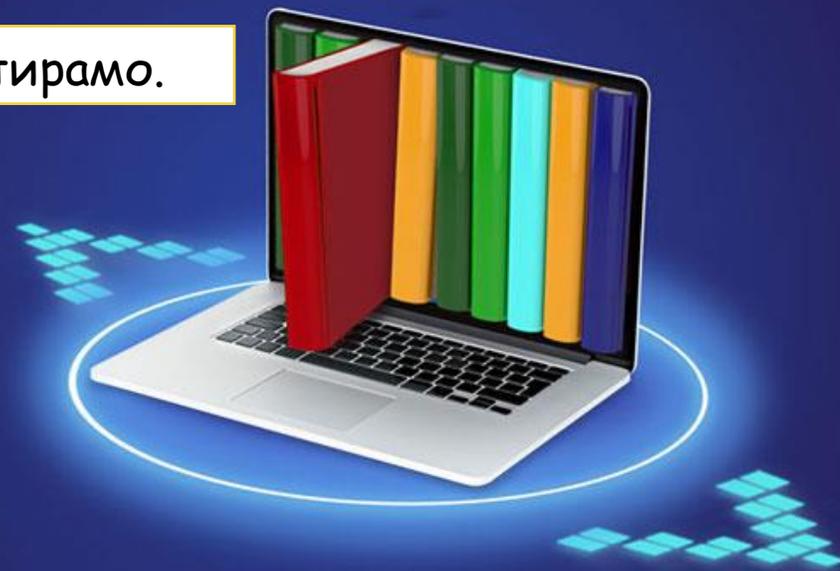
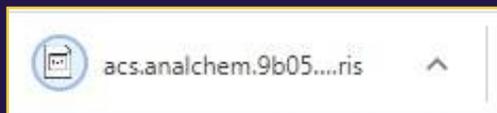
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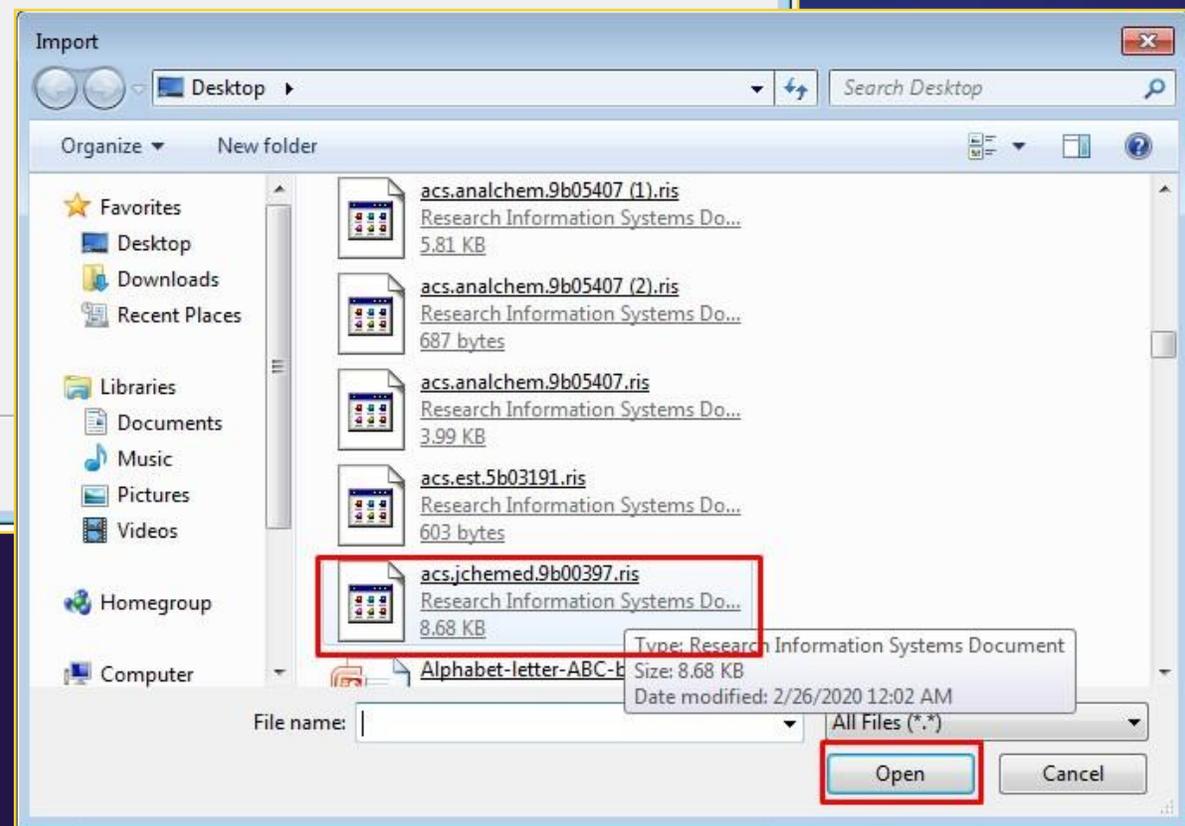
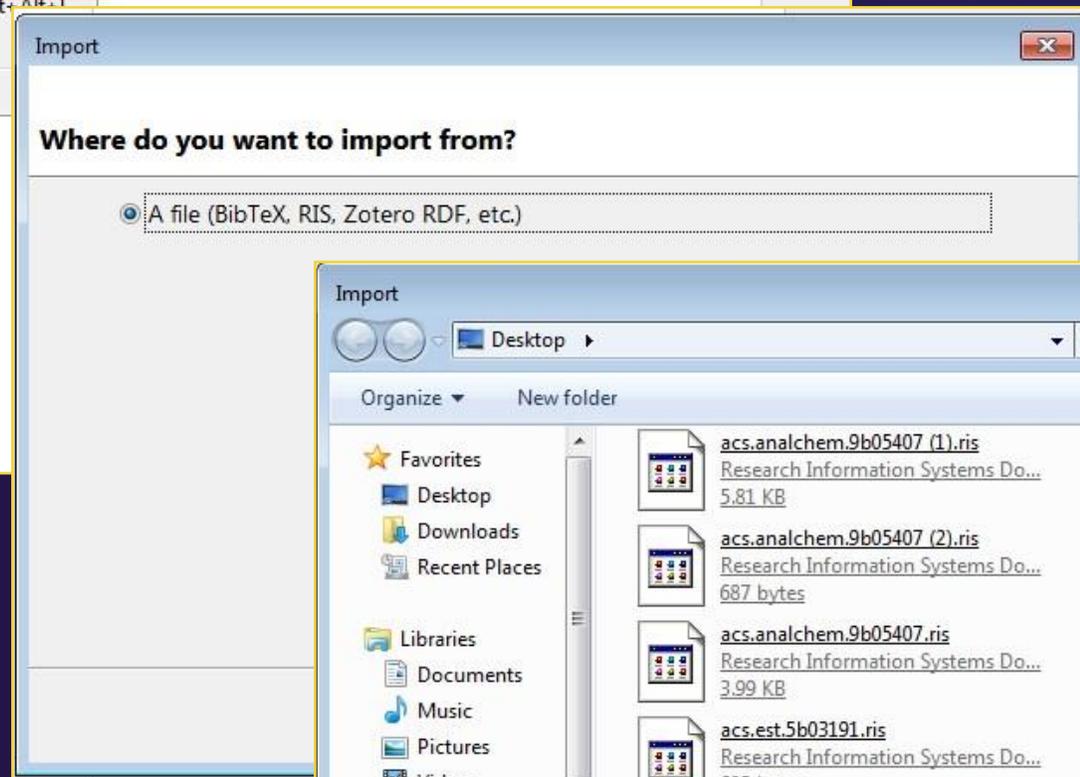
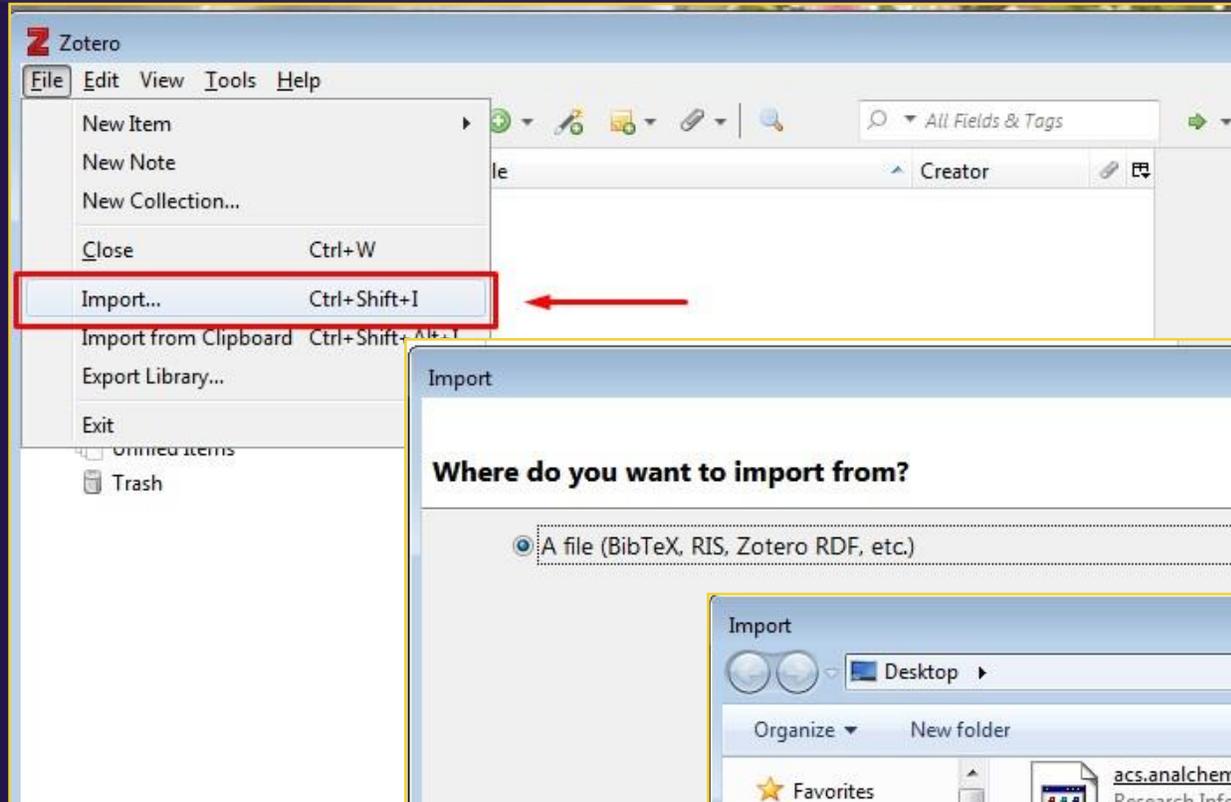


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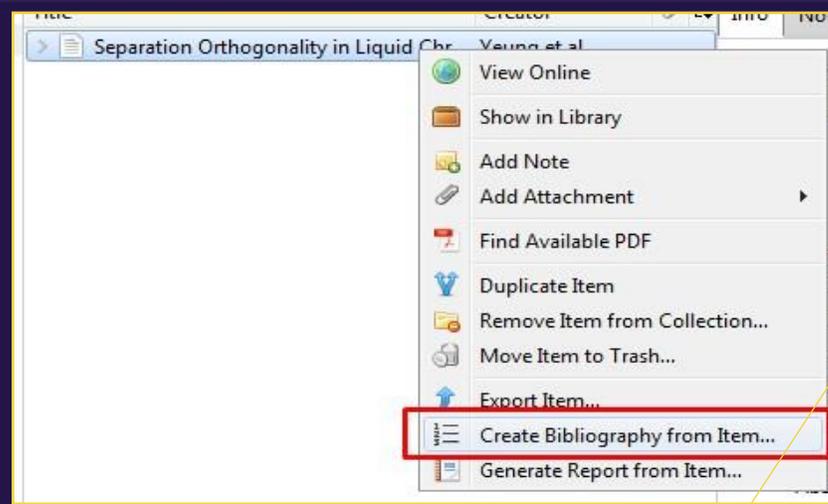
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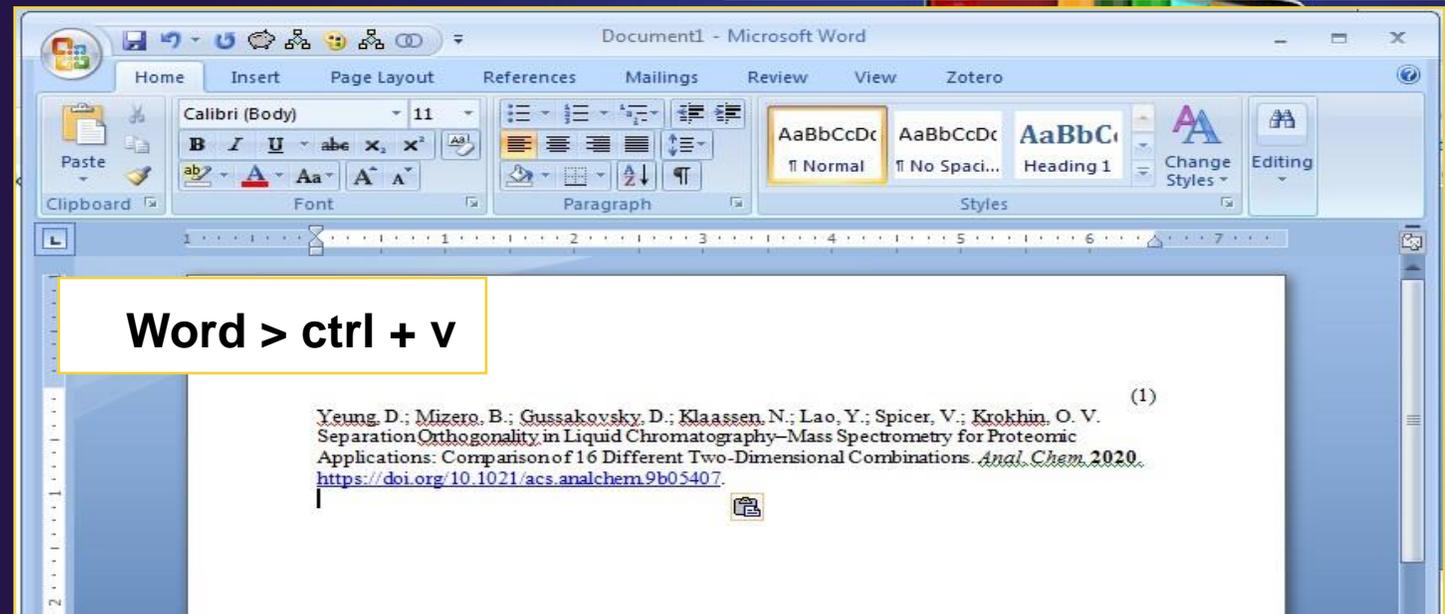
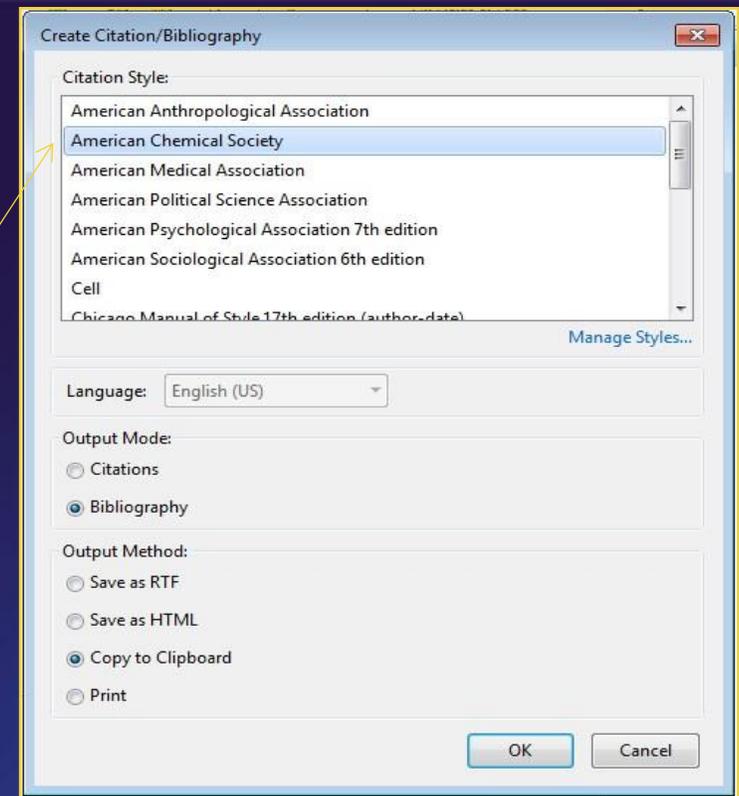
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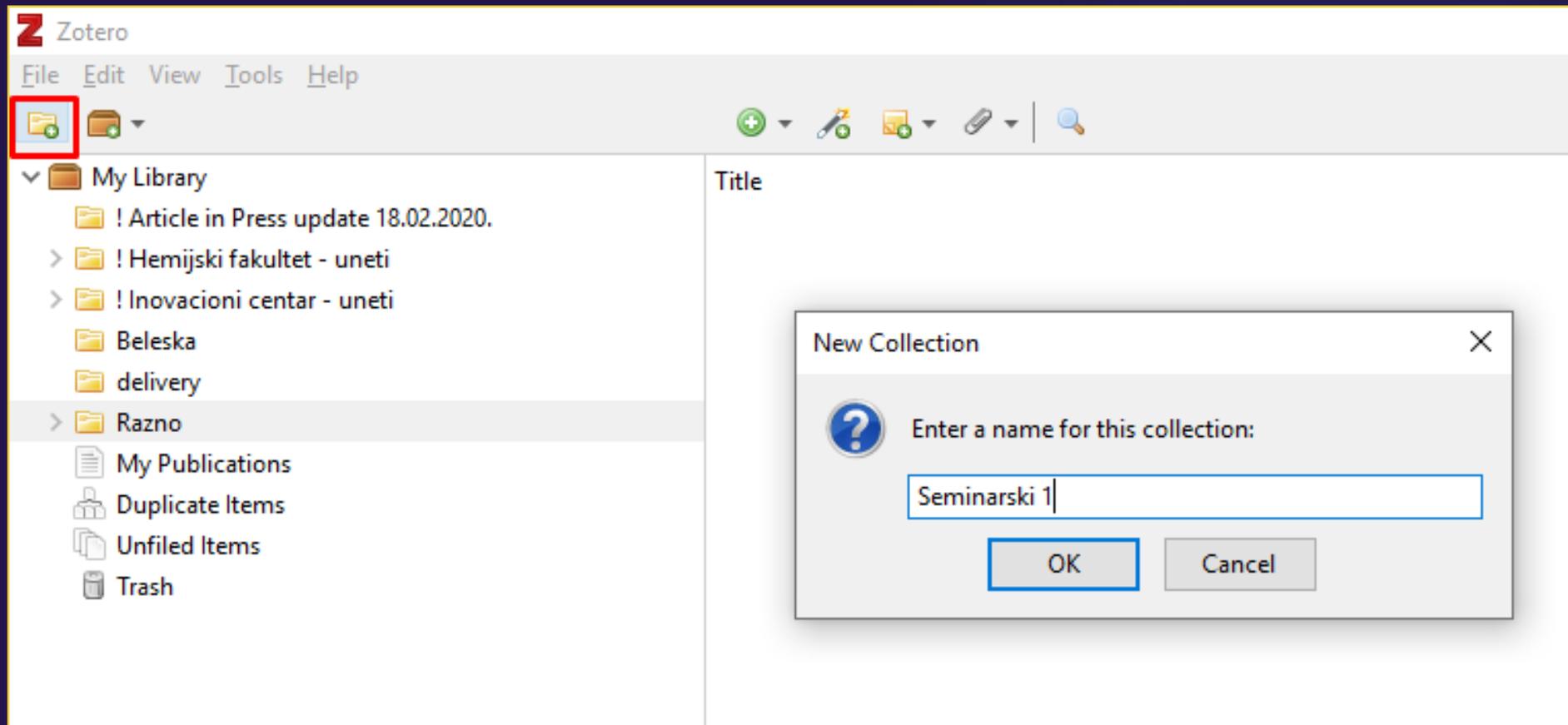
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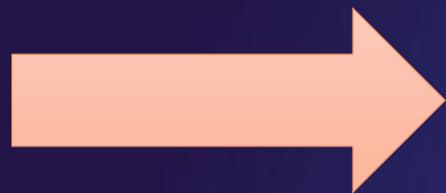
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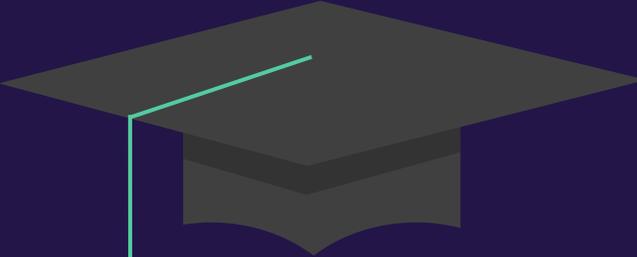
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Најновије

[Synthesis and Biological Properties of Alanine-Grafted Hydroxyapatite Nanoparticles](#)

Dorm, Bruna Carolina; Iemma, Mônica Rosas Costa; Neto, Benedito Domingos; Francisco, Rauany Cristina Lopes; Dinić, Ivana; Ignjatović, Nenad; Marković, Smilja; Vuković, Marina; Škapin, Srečo; Trovatti, Eliane; Mančić, Lidija (Life, 2023)

[Quantum efficiency of up-converting SrGd₂O₄:Yb,Er nanoparticles](#)

Претраживање



Комплетан репозиторијум

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Година издавања

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Тип документа

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- ❖ Иновациони центар

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Publikacije / Publications

Tehnička rešenja / Technological solutions

Подгрупе унутар ове групе

Istraživačke grupe / Research groups

Projekti / Projects

Колекције у овој групи

Doktorati / Doctoral thesis

Istraživački podaci / Research data

Master radovi / Master thesis

Pozitron / Positron

Publikacije / Publications

Tehnička rešenja / Technological solutions

Završni radovi / Bachelor thesis

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Година издавања
2020 - 2024 (2048)
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1990 - 1999 (164)
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Ниво доступности
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Институције/групе
Аутори
Наслови
Теме

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Authors 

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Protein modifications screening of raw and thermally treated meat gastrointestinal digesta
Khulal, Urmila; Đukić, Teodora; Smiljanić, Katarina; Vasović, Tamara; Aćimović, Jelena; Rajković, Andreja; Ćirković-Veličković, Tanja
(Elsevier, 2024)

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Characterization of Nanoprecipitated PET Nanoplastics by 1H NMR and Impact of Residual Ionic Surfactant on Viability of Human Primary Mononuclear Cells and Hemolysis of Erythrocytes 1
Djapovic, Milica; Apostolović, Danijela; Postic, Vojislava; Lujčić, Tamara; Jovanović, Vesna; Stanić-Vučinić, Dragana; van Hage, Marianne; Maslak, Veselin; Ćirković-Veličković, Tanja
(MDPI, 2023)

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Small polystyrene microplastics interfere with the breakdown of milk proteins during static in vitro simulated human gastric digestion 1
Krishna de Guzman, Maria; Stanić-Vučinić, Dragana; Gligorijević, Nikola; Wimmer, Lukas; Gasparyan, Manvel; Lujčić, Tamara; Vasović, Tamara; Dailey, Lea Ann; Van Haute, Sam; Ćirković-Veličković, Tanja
(Elsevier, 2023)

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Small polystyrene microplastics interfere with the breakdown of milk proteins during static in vitro simulated human gastric digestion



Human ingestion of microplastics (MPs) is common and inevitable due to the widespread contamination of food items, but implications on the gastric digestion of food proteins are still unknown. In this study, the interactions between pepsin and polystyrene (PS) MPs were evaluated by investigating enzyme activity and conformation in a simulated human gastric environment in the presence or absence of PS MPs. The impact on food digestion was also assessed by monitoring the kinetics of protein hydrolysis through static in vitro gastric digestion of cow's milk contaminated with PS. The binding of pepsin to PS showed that the surface chemistry of MPs dictates binding affinity. The key contributor to pepsin adsorption seems to be π - π interactions between the aromatic residues and the PS phenyl rings. During quick exposure (10 min) of pepsin to increasing concentrations (222, 2219, 22188 particles/mL) of 10 μ m PS (PS10) and 100 μ m PS (PS100), total enzymatic activities were not affected remarka...



Кључне речи:

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Претраживање



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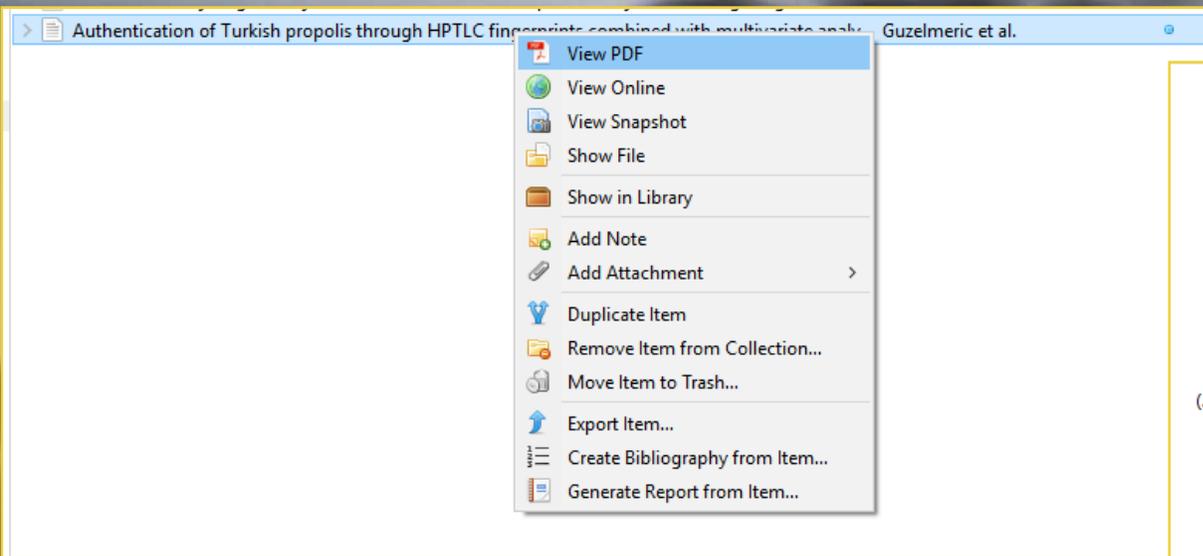
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Item Type Journal Article

Title Authentication of Turkish propolis through HPTLC fingerprints combined with multivariate analysis and palynological data and their comparative antioxidant activity

Author Guzelmeric, Etil

Author Ristivojević, Petar

Author Trifković, Jelena

Author Dastan, Tugce

Author Yilmaz, Ozlem

Author Cengiz, Ozlem

Author Yesilada, Erdem

(...) Abstract of each propolis sample was determined by comparison of HPTLC fingerprints of propolis samples with that of plant bud extracts and also by palynological analysis. Moreover, HPTLC coupled with 2,2-diphenyl-1-picrylhydrazyl (DPPH) detection technique was used for screening of antioxidant activity of each separated compounds directly on the plate. Results of the present study have demonstrated that Turkish propolis could be classified under three main types; i.e. orange (O) (originated from *Populus nigra* L), blue (B) (originated from *Populus tremula* L) and nonphenolic types. Palynological analysis have shown that dominant pollen grains (gt %45) in propolis samples were: Fabaceae, Lamiaceae, Rosaceae, *Castanea sativa* Mill., *Lotus corniculatus* L., *Salix* spp. In addition, HPTLC-DPPH results showed that O-type of propolis exerted higher antioxidant activity than the other propolis types. Moreover, quercetin, caffeic acid, caffeic acid phenyl ester, pinobanksin and galangin had significant contribution to the antioxidant activity of propolis. (C) 2017 Elsevier Ltd. All rights reserved.

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