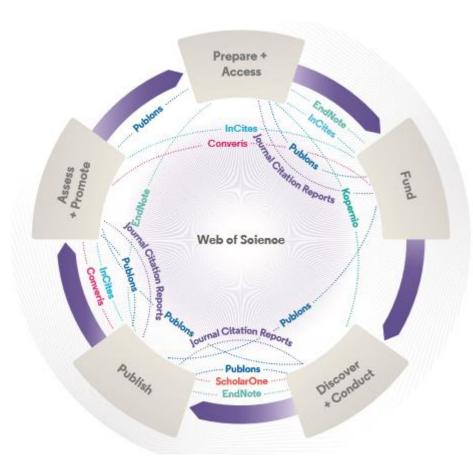


Cum se realizează o revizuire a literaturii

Adriana FILIP - Solutions Consultant adriana.filip@clarivate.com

Iunie 2020

The literature research workflow



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Web of Science Author Connect

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Systematic vs. Literature Review

	Systematic Review	Literature Review
Definition	High-level overview of primary research on a focused question that identifies, selects, synthesizes, and appraises all high quality research evidence relevant to that question	Qualitatively summarizes evidence on a topic using informal or subjective methods to collect and interpret studies
Goals	Answers a focused clinical question Eliminate bias	Provide summary or overview of topic
Question	Clearly defined and answerable clinical question Recommend using PICO as a guide	Can be a general topic or a specific question
Components	Pre-specified eligibility criteria Systematic search strategy Assessment of the validity of findings Interpretation and presentation of results Reference list	Introduction Methods Discussion Conclusion Reference list
Number of Authors	Three or more	One or more
Timeline	Months to years, Average eighteen months	Weeks to months
Requirement	Thorough knowledge of topic Perform searches of all relevant databases Statistical analysis resources (for meta-analysis)	Understanding of topic Perform searches of one or more databases
Value	Connects practicing clinicians to high quality evidence Supports evidence-based practice	Provides summary of literature on the topic

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3

Literature Review

Sources

- <u>https://writingcenter.ashford.edu/writing-</u> <u>literature-review</u>
- <u>https://advice.writing.utoronto.ca/types-of-</u> writing/literature-review/
- <u>https://www2.le.ac.uk/offices/ld/all-</u> resources/writing/writing-resources/literaturereview
- <u>https://guides.library.ucsc.edu/write-a-</u> <u>literature-review</u>
- <u>https://www.ed.ac.uk/institute-academic-development/study-hub/learning-resources/literature-review#:~:text=A%20literature%20review%20is%20a,rather%20than%20a%20literature%20report</u>

Clarivate

A literature review is a survey of scholarly sources that provides an overview of a particular topic. Literature reviews are a collection of the most relevant and significant publications regarding that topic in order to provide a comprehensive look at what has been said on the topic and by whom.

The basic components of a literature review include:

- a description of the publication
- a summary of the publication's main points
- a discussion of gaps in research
- an evaluation of the publication's contribution to the topic.

What is the difference between a literature review and an annotated bibliography? An annotated bibliography is a list of your references with a summary of the content

and the publication's relationship to your research question. A literature review is an overview of the topic, an explanation of how publications differ from one another, and an examination of how each publication contributes to the discussion and understanding of the topic.



Literature Review



Problem formulation

which topic or field is being examined and what are its component issues?



Literature search

finding materials relevant to the subject being explored

Data evaluation

determining which literature makes a significant contribution to the understanding of the topic

Analysis and interpretation

discussing the findings and conclusions of pertinent literature

- An overview of the subject, issue or theory under consideration, along with the objectives of the literature review
- Division of works under review into
 categories (e.g. those in support of a particular position, those against, and those offering alternative theses entirely)
- **Explanation** of how each work is similar to and how it varies from the others
- Conclusions as to which pieces are best considered in their argument, are most convincing of their opinions, and make the greatest contribution to the understanding and development of their area of research

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Li, K., Rollins, J. & Yan, E. Web of Science use in published research and review papers 1997–2017: a selective, dynamic, cross-domain, content-based analysis. *Scientometrics* **115**, 1–20 (2018). <u>https://doi.org/10.1007/s11192-017-2622-5</u>

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Web of Science		Clarivate Analytics
Search	Tools	Search History Marked List
Results: 19,098 (from Web of Science Core Collection)	Sort by: Date 1₹ Times Cited Usage Count Relevance More ▼	<pre> 1 of 1,910</pre>
You searched for: TOPIC: ("Gravitat ional Wave"")More	Select Page Add to Marked List	Analyze Results Citation Report feature not available. [?]
Refine Results	 Scalable auto-encoders for gravitational waves detection from time series data By: Corizzo, Roberto; Ceci, Michelangelo; Zdravevski, Eftim; et al. EXPERT SYSTEMS WITH APPLICATIONS Volume: 151 Article Number: 113378 Published: AUG 1 2020 	Times Cited: 0 (from Web of Science Core Collection)
Search within results for Q	O:-F-X Full Text from Publisher View Abstract ▼	Usage Count 🛩
Filter results by:	 Conformal symmetries and integrals of the motion in pp waves with external electromagnetic fields By: Elbistan, M.; Dimakis, N.; Andrzejewski, K.; et al. ANNALS OF PHYSICS Volume: 418 Article Number: 168180 Published: JUL 2020 	Times Cited: 0 (from Web of Science Core Collection)
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Open Access (6,198) Sociated Data (36)	 F(R) gravity with an axion-like particle: Dynamics, gravity waves, late and early-time phenomenology By: Nojiri, Shin'ichi; Odintsov, S. D.; Oikonomou, V. K. ANNALS OF PHYSICS Volume: 418 Article Number: 168186 Published: JUL 2020 	Times Cited: 0 (from Web of Science Core Collection)
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 2020 (737) 2019 (1,643) 2018 (1,577) 2017 (1,348) 	4. Towards the hadron-quark continuity via a topology change in compact stars By: Ma, Yong-Liang; Rho, Mannque PROGRESS IN PARTICLE AND NUCLEAR PHYSICS Volume: 113 Article Number: 103791 Published: JUL 2020	Times Cited: 0 (from Web of Science Core Collection) Usage Count ~
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Refine Web of Science Categories	S. Hirota-Satsuma dynamics as a non-relativistic limit of KdV equations By: Oblak, Blagoje PHYSICS LETTERS A Volume: 384 Issue: 18 Article Number: 126389 Published: JUN 26 2020	Times Cited: 0 (from Web of Science Core Collection)

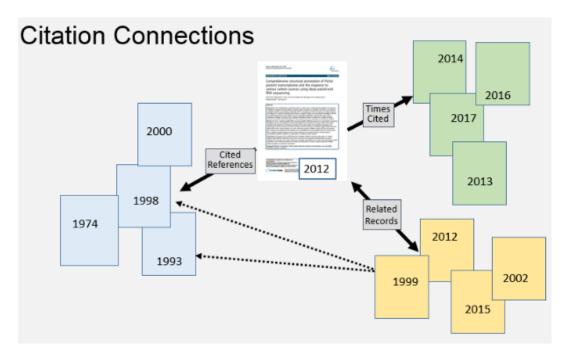
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Os-F-X 🔄 Look Up Full Text Full Text from Publisher 🕞 Export... Add to Marked List 4 1 of 19,098 > Scalable auto-encoders for gravitational waves detection from time series data **Citation Network** By: Corizzo, R (Corizzo, Roberto)^[1,2,4]; Ceci, M (Ceci, Michelangelo)^[2,4,5]; Zdravevski, E (Zdravevski, Eftim)^[3]; Japkowicz, N (Japkowicz, Nathalie)^[1] In Web of Science Core Collection View Web of Science ResearcherID and ORCID 0 EXPERT SYSTEMS WITH APPLICATIONS Volume: 151 Timer Cited Article Number: 113378 DOI: 10.1016/j.eswa.2020.113378 Create Citation Alert Published: AUG 1 2020 Document Type: Article View Journal Impact 58 Abstract Cited References Gravitational waves represent a new opportunity to study and interpret phenomena from the universe. In order to efficiently detect and analyze them, View Related Records advanced and automatic signal processing and machine learning techniques could help to support standard tools and techniques. Another challenge relates to the large volume of data collected by the detectors on a daily basis, which creates a gap between the amount of data generated and effectively analyzed. In this paper, we propose two approaches involving deep auto-encoder models to analyze time series collected from Gravitational Waves detectors and Use in Web of Science provide a classification label (noise or real signal). The purpose is to discard noisy time series accurately and identify time series that potentially contain a Web of Science Usage Count real phenomenon. Experiments carried out on three datasets show that the proposed approaches implemented using the Apache Spark framework, represent a valuable machine learning tool for astrophysical analysis, offering competitive accuracy and scalability performances with respect to state-of-11 11 the-art methods. (C) 2020 Elsevier Ltd. All rights reserved. Last 180 Days Since 2013 Keywords Learn more Author Keywords: Time series classification; Anomaly detection; Feature extraction; Deep neural networks; Machine learning; Big data analytics; Apache spark; Hadoop KeyWords Plus: CLASSIFICATION: ENSEMBLE: POWER This record is from: Web of Science Core Collection - Science Citation Index Expanded Author Information Corresponding Address: Corizzo, R (corresponding author) Suggest a correction + Amer Univ, Dept Comp Sci, 4400 Massachusetts Ave NW, Washington, DC 20016 USA. Corresponding Address: Corizzo, R (corresponding author) If you would like to improve the quality of the data in this record, please suggest a + Univ Bari Aldo Moro, Dept Comp Sci, Via E Orabona 4, Bari 70125, Italy. correction. Corresponding Address: Corizzo, R (corresponding author) Natl Interuniy Consortium Informat CINI. Via Volturno 58. Rome 00185. Italy. Addresses: 👔 [1] Amer Univ, Dept Comp Sci, 4400 Massachusetts Ave NW, Washington, DC 20016 USA 🛞 👔 [2] Univ Bari Aldo Moro, Dept Comp Sci, Via E Orabona 4, Bari 70125, Italy 🛞 [3] Ss Cyril & Methodius Univ, Fac Comp Sci & Engn, Rugjer Boshkovik 16, Skopje 1000, North Macedonia [4] Natl Interuniv Consortium Informat CINI, Via Volturno 58, Rome 00185, Italy 🛞 [5] Jozef Stefan Inst, Jamova 39, Ljubljana 1000, Slovenia E-mail Addresses: rcorizzo@american.edu; michelangelo.ceci@uniba.it; eftim@finki.ukim.mk; japkowic@american.edu Funding Funding Agency Show details Grant Number European Cooperation in Science and Technology (COST) Ministry of Education, Universities and Research (MIUR) ARS01_01259 Ministry of Education, Universities and Research (MIUR) ARS01_001413 Faculty of Computer Science and Engineering



Explore the Citation Network | Backward and Forward Citations

- <u>Cites References</u> the research that a paper cites
- <u>Times Cited</u> more recently published papers that cite the paper
- <u>Related Records</u> papers which share at least one cited reference in common with the paper. If they share citations, they're likely discussing similar topics.



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Results: 19,098 (from Web of Science Core Collection)	Sort by: <u>Date ↓</u> Times Cited Usage Count Relevance More ▼	
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Refine Results	By: Corizzo, Roberto; Ceci, Michelangelo; Zdravevski, Eftim; et al. EXPERT SYSTEMS WITH APPLICATIONS Volume: 151 Article lumber: 11337	'8 Publi
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Filter results by:	ANNALS OF PHYSICS Volume: 418 Article Number: 168180 Published: JUL 2	.020
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Open Access (6,198)	3. F(R) gravity with an axion-like particle: Dynamics, gravity waves, late and	early-ti
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PHYSICS MULTIDISCIPLINARY (4,711) QUANTUM SCIENCE TECHNOLOGY (1,849) OPTICS (964) more options / values	 Physics of radiation mediated shocks and its applications to GRBs, supernmergers By: Levinson, Amir; Nakar, Ehud PHYSICS REPORTS-REVIEW SECTION OF PHYSICS LETTERS Volume: 866 Pa 2020 	
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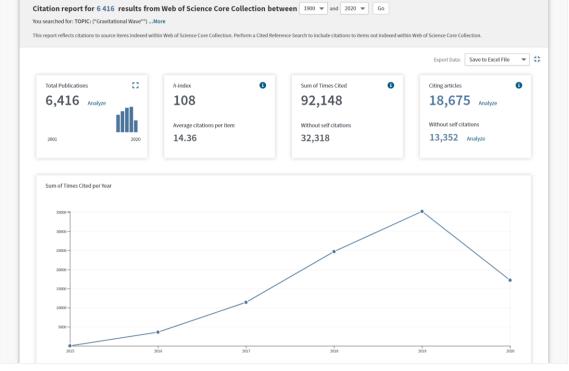
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Research Tools

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Authors			692	473
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Group and rank records in a results set by extracting data values from a variety of fields. Find the most prevalent authors in a particular field of study or generate a list of institutions ranked by record count based on your search query.

Citation Report



The **Citation Report** provides aggregate citation statistics for a set of search results.

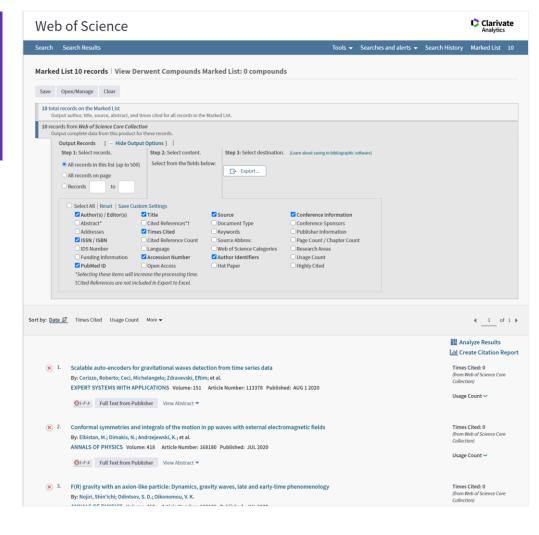
Managing your Results

The **Marked List** page stores records selected from your search results. After marking records, you can save your Marked List and return to it later.

Save up to 50 Marked Lists with up to 50,000 records per list. In order to save, you must be logged into your Web of Science personal profile.

Use the Marked List to:

- Store your search results it's not always possible to finish your search in one session, and marking records for your next visit to Web of Science helps you pick up where you left off.
- Group articles together you want to analyze gather the perfect set of publications, then use Analyze to understand trends across them, or use Citation Report to reveal the articles that cite your selections.
- Create a custom set of items to export. There are lots of export options - send to EndNote for later use in writing a paper, print, email or even export to InCites Benchmarking & Analytics for detailed citation analysis.



Managing your Results

Saving (and revisiting) your Searches

Saving a search is a way to return to that search as many times as needed to complete your work.

Web of Science stores the search statement you use in your personal profile, so that you can always return to it and edit, or rerun it against different time periods or parameters.

You can create complex queries by combining many searches together in your **Search History**, then save the combinations so they don't have to be recreated each time you come into Web of Science.

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		To import a saved history from a local drive, use "choose file" to select the saved file. Choose File file Open	

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Your Web of Science account also allows you to **save alerts** that notify you of updates in the data.

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Table of Contents Alerts (Journal Alerts) - subscribers to our Current Contents Connect database can set up TOC alerts for their favorite journals all in one place.

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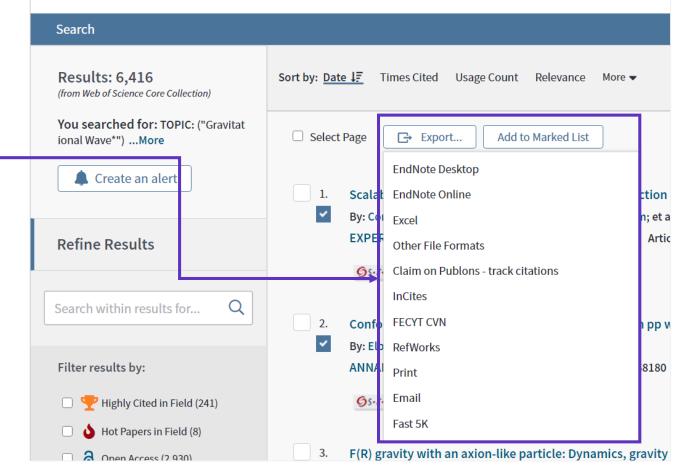
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Output Records

- **1.** Select records
- 2. Select content
- 3. Select destination

<u>Output options</u> are available from the *Results* and *Full Record* pages in all Web of Science databases.

Web of Science



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Writing the literature review

Useful questions at this stage include

- What is the balance between description and comment?
- Have I missed out any important dimension of the argument, or literature?
- Have I supported the development of each step in my argument effectively?
- Is the material presented in the most effective order?
- Are there places where the reader is left with unanswered questions?
- Is every element of my research question supported by the preceding material?
- Have I explained to the reader the relevance of each piece of evidence?
- Is there any material that is interesting but which does not contribute to the development of the argument?
- Have I explained adequately the justification for this research approach / topic / question?
- Are my references up to date?
- How effective is my linking of all the elements?

16

Writing the literature review

FIND AND SELECT CITATIONS and insert them into your manuscript.

EDIT CITATIONS to add information such as a page number, or remove a reference from a group of citations.

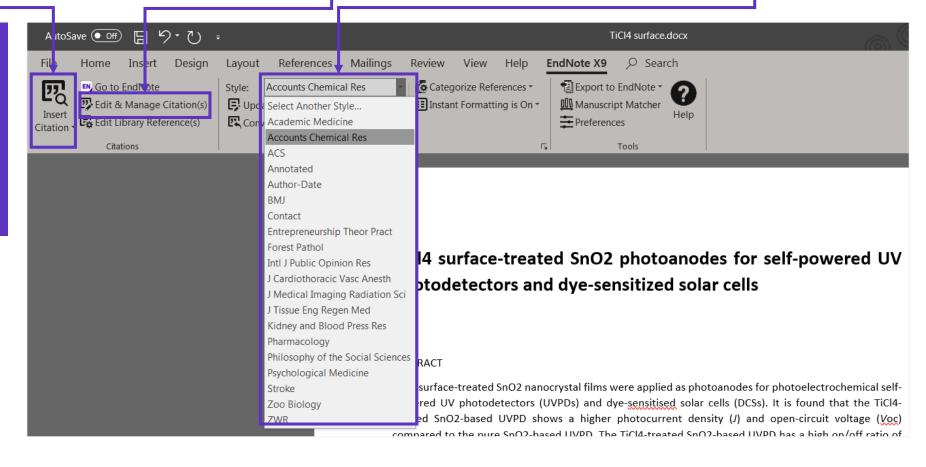
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Writing the literature review

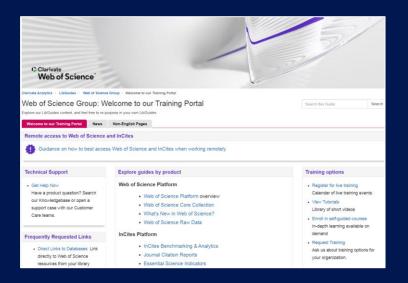
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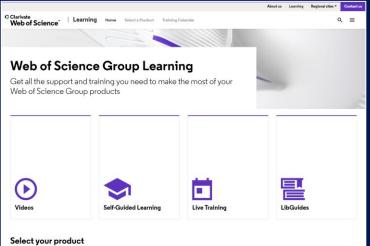
EndNote returns a list of possible journal matches and provides results that give you:

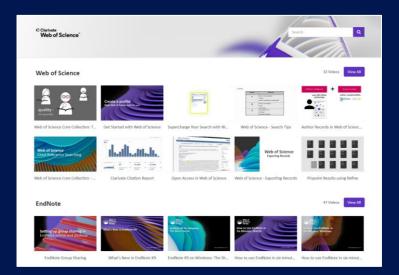
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Vă mulțumesc!

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