Scientific Article Exercise

Or: What is the difference between scientific article and webpage?

CHEM-E0105 2022-2023 ALC Scientific Article Exercise

Riikka Puurunen

Associate professor, Catalysis Science and Technology



Kick-off lecture, outline

- Intended learning outcomes of the SAE module
- Planned time allocation & schedule
- Feedback & development 2022-2023
- SAE instructions and MyCourses items
- More on schedule, deadlines, points, and passing the module

Feedback collected in: http://presemo.aalto.fi/sae



SAE, Intended learning outcomes: Students...

- understand what differentiates scientific articles from other publications such as web pages,
- are able to recognize typical parts of scientific articles that report <u>original</u> research (IMRaD) and find the conclusion of an article,
- know how to formulate citation, in a given format (we practice the format of Aalto CHEM instructions),
- are able to describe how the impact of a scientific journal and of an individual article is (attempted to be) assessed,
- have practiced formulating his/her own view (/comment/opinion) on a scientific article,
- be able to use a similarity detection software,
- have made peer evaluation.

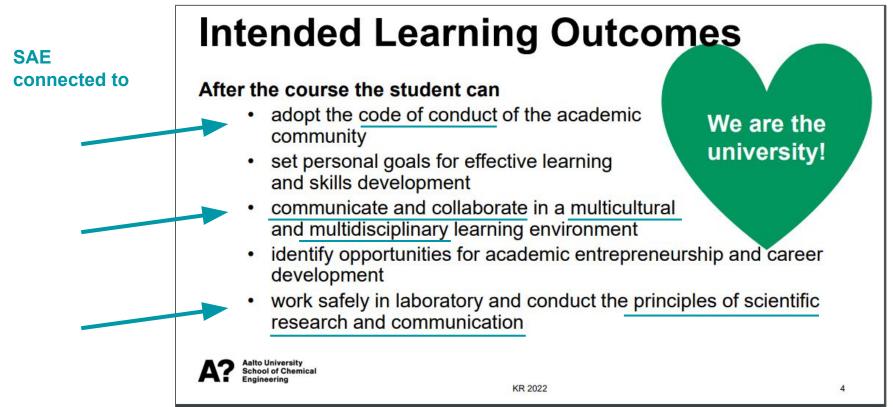


SAE, Intended learning outcomes: Students...

- understand what differentiates scientific articles from The whole SAE other publications such as web pages,
- are able to recognize typical parts of scientific articles that report <u>original</u>
 <u>research</u> (IMRaD) and find the conclusion of an article,
 <u>Video 1, your SAE</u>
- know how to formulate citation, in a given format
 (we practice the format of Aalto CHEM instructions),
- are able to describe how the impact of a scientific journal and of an individual article is (attempted to be) assessed,

 Video 5, your SAE
- have practiced formulating his/her own view (/comment/opinion) on a scientific article,
- be able to use a similarity detection software,
 Your SAE & MyCo activities
- have made peer evaluation.







Planned time allocation and points

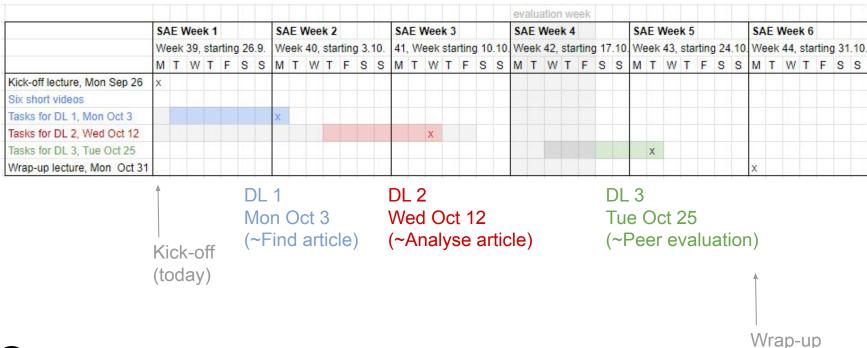
- * Total 22 h, 0.8 ECTS
- * Grading pass/fail: to pass, 60 pt (of max 100 pt) needed*

Activity	Hours	Points
Initial contacts session and six brief videos	3	
Find an article, register it and return a by-publisher-formatted pdf of it (MyCo Items 1.x)	3	10
Read the article and make your SAE report following the provided template	8	
Return the SAE report to workshop and provide your input to the collective documents (MyCo Items 2.x, except 2.1 Part 2)	2	58
Fetch and return a Turnitin report on your SAE report (MyCo Items 2.2 and 3.1)	1	12 (4 + 8)
Make peer evaluation for three other SAE reports (MyCo Item 3.2, in practice done in Workshop of Item 2.1)*	4*	20*
Wrap-up contact session	1	
	22	100

^{*}Obligatory item.



Gantt chart view of schedule & deadlines (new!)





Feedback & development

Please give feedback again and help develop the module

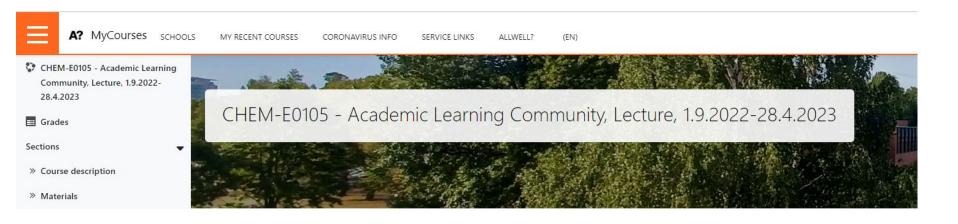
- SAE has received lots of positive feedback
- ... but also critical feedback
 - "Aalto BSc's already know it all"
 - Bachelor thesis seminar contains great contents on scientific writing!
 - While some obvious overlap exists, we go way beyond.
 - MyCo not well organizer, too many items, ...

Continuous response file

- Development items in 2022-2023
 - <u>Timing</u> a bit improved (no DL on evaluation week ...)
 - MyCourses items implementation improved (e.g. new numbering logics)
 - <u>Instructions</u> further improved









FILE
Scientific Article Exercise (SAE): Introduction and instructions [file]
PDF document



DAGE

Six short video lectures related to scientific articles, SAE module [page]



PAGE

SAE: Lists, templates, guidelines, links, ... [page]

Collection of materials needed in SAE.

Note: Student feedback responded to continuously in: Evolving feedback file (Google Slides)

[If you notice a missing item or ill-working link, please contact Riikka Puurunen (email works fine & quick)]





FIL

Scientific Article Exercise (SAE): Introduction and instructions [file]

- Read the instructions
- <u>Follow</u> the instructions
- If the instructions are not clear, ask the teacher (well on time, *several days before* DL)

CHEM-E0105 2022-202

Scientific Article Exercise (SAE): Introduction and instructions

Riikka Puurunen (Prof.), 24.9.2022

Introduction

Planned time allocation and points

MyCourses items, instructions

First deadline (DL 1)

- 1.1 Find a unique article and register it for your unique code [OU wiki]
- 1.2 Return a by-publisher-formatted pdf of your article [Assignment]

Second deadline (DL 2)

- 2.1 Return your SAE report for peer evaluation [Workshop]
- Part 1 Return your SAE report
- 2.1 Return your SAE report for peer evaluation [Workshop]
- Part 2 Make peer evaluation (note: done under DL 3!)
- 2.2 Return your SAE report for similarity check [Turnitin]
- 2.3 Reference formatting: Enter your bibliographic entry into the collective summary [URL]
- 2.4.1 Co-creation, article statistics: add your row in the collective summary table [URL]
- 2.4.2 Co-creation, figures: add your pick in the collection [URL]
- 2.4.3 Co-creation, tables: add your pick in the collection [URL]

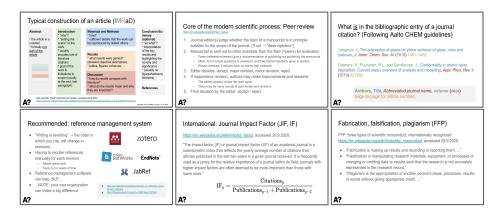
Third deadline (DL 3)

- 3.1 Return your Turnitin report pdf [Assignment]
- 3.2 Peer evaluation in Item 2.1, Part 2





Six short video lectures related to scientific articles, SAE module [page]



Screen captures from 2021-2022, contents slightly updated

Six short video lectures related to scientific articles, SAE module [page]

Note, RLP 24.9.2022; all slidesets and videos have now been updated for 2022-2023.

1 How does one construct a scientific article? The IMRaD structure

- Video in Panopto: https://aalto.cloud.panopto.eu/Panopto/Pages/Viewer.aspx?id=20944b63-02ad-47cc-b298-af1a00d1b5e7
- · Link to Slides in pdf
- · Link to Evolving Google Slides slideset (anyone at Aalto University can view; aalto.fi address must be activated for GDrive use)

2 How does one publish a scientific article? Peer review, and more

- Video in Panopto: https://aalto.cloud.panopto.eu/Panopto/Paqes/Viewer.aspx?id=d11ba22e-31cb-4171-b6bd-af1a00d807ca
- · Link to Slides in pdf
- Link to Evolving Google Slides slideset (anyone at Aalto University can view; aalto.fi address must be activated for GDrive use)

3 What's in a citation? (And what's not?)

- Video in Panopto: https://aalto.cloud.panopto.eu/Panopto/Pages/Viewer.aspx?id=ea25dc47-3c99-4f2b-9b82-af1a00de84b8
- · Link to Slides in pdf
- . Link to Evolving Google Slides slideset (anyone at Aalto University can view; aalto.fi address must be activated for GDrive use)

4 How to create reference lists effectively?

- Video in Panopto: https://aalto.cloud.panopto.eu/Panopto/Pages/Viewer.aspx?id=1ff529b3-c9a7-4197-a15e-af1a00e3bdf8
- · Link to Slides in pdf
- Link to Evolving Google Slides slideset (anyone at Aalto University can view; aalto.fi address must be activated for GDrive use)

5 "Impact is everything" — How is impact of journals and articles evaluated?

- Video in Panopto: https://aalto.cloud.panopto.eu/Panopto/Pages/Viewer.aspx?id=32ced7eb-c4ad-4974-b2ea-af1a00e6f8c7
- · Links to Slides in pdf
- · Link to Evolving Google Slides slideset (anyone at Aalto University can view; aalto.fi address must be activated for GDrive use)

6 Quickest way to get (in)famous as a scientist? On scientific misconduct

- Video in Panopto: https://aalto.cloud.panopto.eu/Panopto/Pages/Viewer.aspx?id=5ed45a6d-d5dd-418b-b06e-af1a00ecaea0
- · Link to Slides in pdf
- Link to Evolving Google Slides slideset (anyone at Aalto University can view; aalto.fi address must be activated for GDrive use)

Δ?

Last modified: Saturday, 24 September 2022, 5:35 PM



DAG

SAE: Lists, templates, guidelines, links, ... [page]

Collection of materials needed in SAE.

Note: Student feedback responded to continuously in: Evolving feedback file (Google Slides)

[If you notice a missing item or ill-working link, please contact Riikka Puurunen (email works fine & quick)]

Dashboard / My own courses / chem-e0105 - ... / Sections / scientific ar... / sae: lists, t...

SAE: Lists, templates, guidelines, links, ... [page]

Guidelines, lists, templates

- · ALC-SAE-scientific-journals
- 2022-2023 SAE-report_template
- · Aalto CHEM guidelines for written reports, 2012, updated 2018, here. (Version with some critical comments by RLP here.)
- peer evaluation guidelines [as in 2021-2022; small updates may still come in 2022-2023]

Co-creation file links

- 2022-2023 ALC-SAE-reference-formatting-summary
- 2022-2023 ALC-SAE-article-statistics
- 2022-2023 ALC-SAE-figure-summary
- 2022-2023 ALC-SAE-table-summary

Scientific search engines

- https://www.webofknowledge.com/
- https://www.scopus.com/

Lecture slides and video links

- Kick-off lecture: (1) slides as pdf and (2) video record in Panopto. [to come]
- Wrap-up lecture: (1) slides as pdf and (2) video record in Panopto. [to come]

Feedback collection

- 2022-2023 Evolving feedback file (Google Slides)
- Pdf with marks and points by RLP: [to come]



Last modified: Saturday, 24 September 2022, 11:13 AM

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	We	ek	39,	sta	rting	26	6.9.	W	eek	40,	sta	rting	3.1	0.	41,	We	eks	star	ting	10	.10.	Wee	ek 4	12, s	artin	g 17	7.10	We	ek 4	13, s	tartir	ng 2	4.10	0. V	Nee	k 4	4, st	artir	ng 3	31.1
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Wrap-up lecture, Mon Oct 31																																		,						

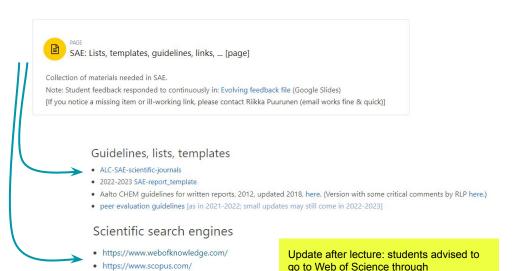
DL 1 Mon Oct 3 (~Find article)

First deadline (DL 1), Mon Oct 3



How do I find an article, to work on?

- Either search on a <u>topic</u> or <u>author</u> you are interested in (use a scientific search engine)
- Or browse the <u>list of journals</u> provided and select one



https://login.libproxy.aalto.fi/menu

MyCo items for students to complete

Refer to the "SAE introduction and instructions" file for quidelines related to each item

MyCourses items, instructions

First deadline (DL 1)

1.1 Find a unique article and register it for your unique code [OU wiki]

Each student will find a scientific article reporting original research (also called "primary research") for her/himself to work on. Review articles (and other article types that do not report original research) are outside of the scope of the SAE.² The article must have been <u>published in its final form</u>, with all article details available (volume, page numbers, etc.). Advance articles (in press, early view, etc.) are not suitable for the SAE.

It is recommended to find an article that one finds interesting, as that makes this exercise more interesting and motivating. However, don't look for an article too long: in the end, any article reporting original research that is somehow at least remotely related to your field of study, is ok. Browse the content lists of scientific journals in your field of interest, or use a scientific search engine to find an article that interests you.

Where can you find a list of journals relevant to your field of study? All Aalto CHEM MSc majors have suggested a few interesting journals related to their major and collected them in an evolving list; you can access it <u>items</u> (it is a Google Sheets document) and via MyCourses. All journals included in the list should be such that when logged in the Aalto network, you can access the full articles (without cost): —if not, please let the teachers of the ALC course know. You are free to pick an article from any journal in the list, irrespective of your MSc major. Also, you can choose an article from a scientific journal that is not in the list, a slong as it is somehow related to the topics of the MSc programme in chemical, biochemical and materials engineering. ² If you find a scientific journal is included in the Finnish "JUFO" list this?/www.lsst/jijukalsutoorum/haku.phr/langen/tittle" means the journal name) and it has a JUFO Level of 1, 2 or 3 (category 0 not accepted for the SAE, currently).

Which scientific search engines can one use? Scientific search engines that you can use to find an interesting article are for example following.

. . .

SAE kick-off, Puurunen 26.9.2022

² Review articles and other article types not reporting original research are not included, for example because their structure differs from the typical IMRaD structure of scientific articles reporting original research.

³ Don't pick an article from e.g. a medical journal.

⁴ If the journal is not in the JUFO list, it may be one of the so-called "predatory journals," which do not fulfill the criteria for scientific publications. We wish to avoid such in this Scientific Article Exercise. Another reason for not being included in the JUFO list can be that the journal is new and it did not get a JUFO classification yet.

Guidelines, lists, templates



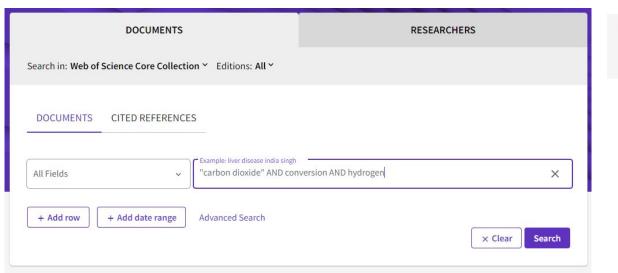
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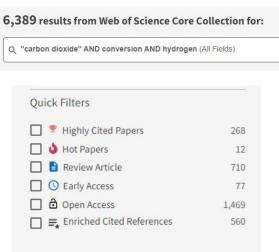
ome recommended scientific journals,	Scientific Article Exercise (SAE) module	(collection Prof. Puurunen & Aa	Ito CHEM major	rs)	
laster's Programme in Chemical, Bioch	emical and Materials Engineering				
https://into.aalto.fl/display/encbme					
Major	Journal title	Link to journal website			
Biomass Refining					
https://into.aalto.fi/display/encbme/Bir	ACS Sustainable Chemistry & Engineerin	https://pubs.acs.org/journal/asceci	1		
	BioResources	http://www.bioresourcesjournal.com	m/		
	Bioresource Technology	https://www.journals.elsevier.com/	bioresource-tech	nology	
	Cellulose	https://link.springer.com/journal/10	570/volumes-an	id-issues	
	Carbohydrate Polymers	https://www.sciencedirect.com/jou	rnal/carbohydrat	e-polymers	
	ChemSusChem	https://chemistry-europe.onlinelibr	ary.wiley.com/loi	/1864564x	
	Green Chemistry	https://www.rsc.org/journals-books	-databases/abo	ut-journals/green-ch	nemistry/
	Holzforschung	https://www.degruyter.com/view/jo	urnals/hfsq/hfsq	-overview.xml	
	Industrial Crops and Products	https://www.sciencedirect.com/jou	rnal/industrial-cr	ops-and-products	
	Industrial & Engineering Chemistry Resea	https://pubs.acs.org/loi/iecred			
	Journal of Wood Chemistry and Technolo	https://www.tandfonline.com/toc/lv	ct20/current		
Biotechnology					
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	ACS Synthetic Biology	https://pubs.acs.org/journal/asbcd	6		
	Applied Biochemistry and Biotechnology	https://www.springer.com/journal/1	2010		
	Bioresource Technology	https://www.journals.elsevier.com/	bioresource-tech	nnology	
	Biotechnology and Bioengineering	https://onlinelibrary.wiley.com/journ	nal/10970290		
	Enzyme and Microbial Technology	https://www.journals.elsevier.com/	enzyme-and-mid	crobial-technology	
	Green Chemistry	https://www.rsc.org/journals-books	-databases/abo	ut-journals/green-ch	nemistry/
	Nature Biotechnology	https://www.nature.com/nbt/			
	Metabolic Engineering	https://www.journals.elsevier.com/	metabolic-engin	eering	
Chemical and Process Engineering					
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	AIChE journal	https://aiche.onlinelibrary.wiley.com	n/journal/154759	905	
	Catalysis Science and Technology	https://pubs.rsc.org/en/journals/jou	rnalissues/cy#lr	ecentarticles&adv	
	ChemCatChem	https://chemistry-europe.onlinelibr	ary, wiley, com/jou	urnal/18673899	
	Chemical Engineering Science	https://www.journals.elsevier.com/	chemical-engine	ering-science	
	Chemical Engineering Journal	https://www.journals.elsevier.com/	chemical-engine	ering-journal	



How to search in Web of Science? Example: topic

https://www.webofscience.com/wos/woscc/basic-search





Update after lecture: students advised to go to Web of Science through https://login.libproxy.aalto.fi/menu

In extra slides, example for: author (Puurunen RL)



Four criteria that the scientific article needs to fulfill

- 1. Reports <u>original research</u> (primary research)
 - Review articles are not suitable for SAE
- 2. Has been <u>published in its final form</u>, with all article details available (volume, page numbers or article number, etc.)
 - Advance articles (in press, early view, etc.) are not suitable for SAE
- 3. Is related to the topics of the MSc programme in chemical, biochemical and materials engineering
 - Articles from medical journals are not suitable for SAE
- 4. The scientific journal should be included in the Finnish "JUFO" list and have a JUFO Level of 1, 2 or 3
 - Journals in category 0 not accepted for the SAE
 - If you pick a journal from the provided list, this requirement is automatically fulfilled

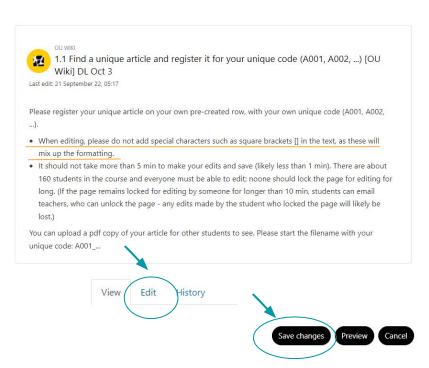


JUFO: https://www.tsv.fi/julkaisufoorumi/haku.php?lang=en

MyCo items for students to complete

Refer to the "SAE introduction and instructions" file for guidelines related to each item

First deadline (DL 1), Mon Oct 3



"Note: All selected articles should report original research (review articles etc. not suitable for SAE). By writing "yes" student confirms that the article is appropriate.

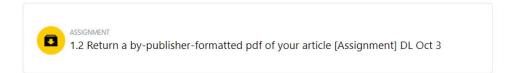
First name	Surname		Unique code	Author, year (of your unique	Article reports original	Clickable hyperlink to the article	
(student)	(student)		article)	(primary) research*		
Mona	Modelst	udent		Yim et al., 2020	yes	https://doi.org/10.1039/D0CP03358H	Example
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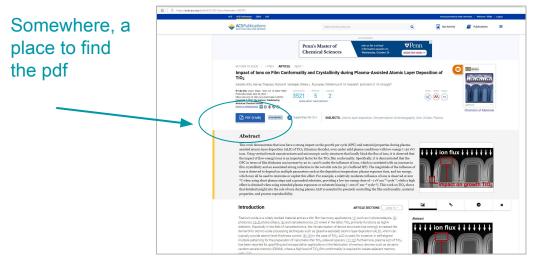


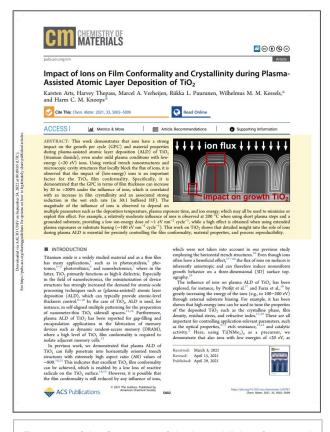
MyCo items for students to complete

Refer to the "SAE introduction and instructions" file for guidelines related to each item

First deadline (DL 1), Mon Oct 3







Example of the first page of the by-publisher-formatted pdf of https://doi.org/10.1021/acs.chemmater.1c00781



	SA	ΕV	Vee	k 1				SA	AE V	Vee	k 2				SA	ΕW	Veek	(3				SAE	W	eek	4			SA	E W	eek	5				SAE	W	eek	6	T	
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Tasks for DL 3, Tue Oct 25																													X											
Wrap-up lecture, Mon Oct 31																																		,						

DL 2 Wed Oct 12 (~Analyse article)

Second deadline (DL 2), Wed Oct 12





VORKSHOP

2.1 Return your SAE report for peer evaluation [Workshop] DL Oct 12

Prepare your SAE report using the template provided, and return it as a pdf file. Name your report so that the filename starts with your unique code and contains "SAE-report" in the name. You may add optional text, as you like. Example: A001_SAE-report_...<add-text-here-if-you-like>....pdf.

Submissions open from Thursday, 6 October 2022.

Note: Peer evaluation will later use this same Workshop item. (MyCo, Item 3.2). The planned opening date of peer evaluation is latest Oct 19.

Dashboard / My own courses / chem-e0105 - ... / Sections / scientific ar... / sae: lists, t...

SAE: Lists, templates, guidelines, links, ... [page]

Guidelines, lists, templates

- ALC-SAE-scientific-journals
- 2022-2023 SAE-report_template
- Aalto CHEM guidelines for written reports, 2012, updated 2018, here. (Version with some critical comments by RLP here.)
- · peer evaluation guidelines

Identification via student's <u>unique code</u> (don't write your name)

Scientific Article Exercise. CHEM-E0105 ALC 2022-2023

[template by Prof. Riikka Puurunen, initiated 20.9.2022]

[delete the grey instructions from the final document]

[title] Your Code, Author, year

[Example title] A01, Gutierrez et al., 2017

Part 1: Technical summary

Bibliographic entry for a reference list, numeric style:

Write the reference here as instructed in the Aalto CHEM guidelines for written reports, available via MyCourses. Pay careful attention to details: where is a comma, a point, a capital letter, italics, bold font, etc. Journal title is entered in an abbreviated form.

Mode

Author1, A.B., Author2, B.C. and Author3, D.E., Article title (letters NOT capitalized), *Journal name in abbreviated form volume* (year) firstpage-lastpage. <feel free to add a DOI-hyperlink>>

Example:

Gutierrez, A., Turpeinen, E.-M., Viljava, T.-R. and Krause, O., Hydrodeoxygenation of model compounds on sulfided CoMo/y-AIZO3 and NiMoly-AIZO3 catalysts; Role of sulfur-containing groups in reaction networks, Catal. Today 285 (2017) 125-134. https://doi.org/10.1016/i.cattod.2017.02.003

Author affiliations

List the affiliations (=where the work was made) of maximum three persons: the first author and two other authors

Article-related dates

Article-related dates, as reported in the article itself, e.g.: first received, received in updated form, first published, and optionally other dates mentioned

Publisher

Name of the publisher [example: Elsevier]

Copyright line



¹ Where to find generally used journal abbreviation

CASSI: https://cassi.cas.org/search.jsp

Clarivate Analytics Journal Citation Reports: https://apps.webolkmowledge.com/ or direct link: https://apps.ubc/ldc.arabacetion.action?init="reskSrzApp=ICX_S&SID=H2-cjoq5/6H2OyDBdKFwy0r6i4az (563TSS-162bdz/6E/Pawazap.HTPpUUUGOKGAD-BGGCASCBEZGoftUSapPS1WigNCOx3Dx3D-aBgNuLRicq2rPm66fbix
 2Fmvrx3Dx3D-h9RQNJ9Nv4eh45vLvfdX3gx3Dx3D



NORKSHOP

2.1 Return your SAE report for peer evaluation [Workshop] DL Oct 12

Prepare your SAE report using the template provided, and return it as a pdf file. Name your report so that the filename starts with your unique code and contains "SAE-report" in the name. You may add optional text, as you like. Example: A001_SAE-report_...<add-text-here-if-you-like>....pdf.

Submissions open from Thursday, 6 October 2022.

Note: Peer evaluation will later use this same Workshop item. (MyCo, Item 3.2). The planned opening date of peer evaluation is latest Oct 19.

Dashboard / My own courses / chem-e0105 - ... / Sections / scientific ar... / sae: lists, t...

SAE: Lists, templates, guidelines, links, ... [page]

Guidelines, lists, templates

- ALC-SAE-scientific-journals
- 2022-2023 SAE-report_template
- Aalto CHEM guidelines for written reports, 2012, updated 2018, here. (Version with some critical comments by RLP here.)
- · peer evaluation guidelines

Document upda	ted by Riikka Puurunen 24.9.2022.		
Aspect no. in peer evaluation	Description	Points	
1	Bibliographic entry correctly formatted according to Aalto CHEM guidelines	8	F
2	Author affiliations correctly found	2	F
3	Article-related dates correctly found	2	F
4	Publisher correctly found	2	F
5	Copyright line of the article correctly given	2	F
6	Potential Creative Commons (or another open access license) correctly found	2	F
7	Numbers found: number of pages, figures, tables, cited references	2	F
8	Number of times cited found (Web of Science), with date indicated	2	F t
9	Latest journal impact factor correctly found	2	F S in tr
10	Current JUFO class correctly found	2	i i
11	Info copy-pasted in the collective summary spreadsheet/table, as requested (MyCo Item 4.2.1)	2	F
12	Abstract of the article correctly copied	2	F
13	Example figure provided, including figure caption (also in MyCo Item 2.4.2)	2	F
14	Example table provided, including table caption (also in MyCo Item 2.4.3)	2	F
15	Main goal found	2	F
16	Methods (briefly) described	2	F
17	Main result or conclusion stated	2	F
18	Funding source info found (or the absence of it)	2	F
19	Student's own free-form comments	8	f f j
	total	50	



TURNITIN ASSIGNMENT 2

2.2 Return your SAE report for similarity check [Turnitin] DL Oct 12

Submissions open from Thursday, 6 October 2022.

Note: After (i) returning your SAE report for similarity check in this item, you need to (ii) fetch a *similarity* report from here and (iii) return it in Item 3.1 (do not return a receipt).

Identical report is submitted as in Item 2.1 (the purpose is different)



URI

2.3 Reference formatting: Enter your bibliographic entry into the collective summary [URL] DL Oct 12

What is in the bibliographic entry of a journal citation? (Following Aalto CHEM guidelines)

Langmuir, I., The adsorption of gases on plane surfaces of glass, mica and platinum, J. Amer. Chem. Soc. 40 (1918) 1361-1402.

Cremers, V., Puurunen, R.L. and Dendooven, J., Conformality in atomic layer deposition: Current status overview of analysis and modelling, Appl. Phys. Rev. 6

Authors, Title, Abbreviated journal name, volume (year)

- Teacher evaluates the entries, hand-corrected document will be later. available through MyCourses
- Students <u>also</u> evaluate the entries, in peer evaluation
- Points 8-6-4-2-0, subtract 2 points for each type of mistake, no matter how small (but only once for the same kind of mistake)
 - → Who thinks they will get full points...?
 - → And: how would teacher and student evaluations compare...?

CHEM-E0105 ALC 2022-2023, Scientific article exercise reference formatting collective summary (G Docs)

Initiated by Riikka Puurunen, 20.9.2022

How will this file be used?

Instruction for students:

- 1. Find your article code (A001, A002, etc) and fill in the title the missing part "Article identifier" = Author (et al.), year [example: Gutierrez et al., 2017] (style: Heading 2)
- 2. Hit "enter" after the title, to create a new row in the file (style: normal text), and
- Copy-paste your correctly formatted scientific article citation in the new row (you should have paid careful attention to how the citation is formatted).
- 4. Please be careful to edit only your dedicated part of the document. Do not edit the instructions or other people's entries.
- 5. Do not include your name in the document, as this document is visible for anyone with the link. You will be identified by the code (A001, A002, ...)
- 6. You can update your entry until the the SAE DL 2. Please make sure that you have identical reference formatting in your Scientific article exercise document and here.

Teacher's example

A000 Gutierrez et al., 2017

Gutierrez, A., Turpeinen, E.-M., Viljava, T.-R. and Krause, O., Hydrodeoxygenation of model groups in reaction networks, Catal. Today 285 (2017) 125-134.

By-student-formatted references, SAE 2022-2023

A001

A002

A003

A004

A005



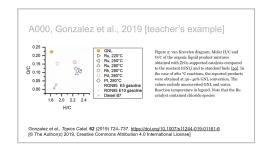
2.4.1 Co-creation, article statistics: add your row in the collective summary table [URL] DL Oct 12

2.4.2 Co-creation, figures: add your pick in the collection [URL] DL Oct 12

NRL 2.4.3 Co-creation, tables: add your pick in the collection [URL] DL Oct 12

- Contents already created in your SAE report → copy them here
- Items 2.4.x included in peer evaluation
- Contents will be used in wrap-up lecture
- Observe the deadline: once the open editing stops, contents cannot be added

			article statist									
	ants: please copy-paste here yo											
	se be careful not to edit another	person's row (use "	undo" if you ac	cidentally cha	anged other per	son's info)						
* shar	ng, as of not started											
Code	Article identifier	Abbreviated	No. of pages	No of	No. of tables	No of cited	Times cited	Journal	IIIEO level	Copyright line	Creative	Digital Object Identifier (DOI link)
Code	Author (et al.), year	journal name	No. or pages	figures	No. or table:	references	(Web of Science)	Impact Factor	JUP O IEVEL	Copyright file	Commons licence?	
A000	Gonzalez Escobedo et al., 2019	Top. Catal.	14		7 1	49	4	2.91	1	© The Author(s) 2019	CC BY 4.0	https://doi.org/10.1007/s11244-019-01161-6
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	Week 39, sta M T W T Mon Sep 26 x Mon Oct 3		rtin	g 26	6.9.	W	eek	40,	star	ting	3.1	0.	41,	We	eks	star	rting	10	.10.	We	ek 4	42, s	tarti	ng '	17.10	0. W	eek	43,	sta	rting	24	.10.	W	eek	44	sta	rting	g 3	1.10		
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Six short videos																																									
Tasks for DL 1, Mon Oct 3								Х																																	
Tasks for DL 2, Wed Oct 12																	х																								
Tasks for DL 3, Tue Oct 25																													Х												
Wrap-up lecture, Mon Oct 31																																			X						

DL 3
Tue Oct 25
(~Peer evaluation)

Third deadline (DL 3), Tue Oct 25





ASSIGNMENT

3.1 Return your Turnitin report pdf [Assignment] DL Oct 25

Submissions open from Thursday, 6 October 2022.

(Related to Item 2.2.)

Note: Do not return a receipt from Turnitin, but the similarity report.

Example from SAE 2021-2022 how a page in Turnitin similarity report looks like (lots of matches, as should) Scientific Article Exercise, CHEM-E0105 ALC 2021-2022

Copyright line:

© 2020 American Chemical Society

Is the article published with a Creative Commons licence, or another open access license?

Optional: Link to instructions for authors in the journal's webpage:

For Molecular Pharmaceutics, Author Guidelines of ASC Publications applies: https://publish.acs.org/publish/author_guidelines?coden=mpohbp

Article and journal in numbers:

Code	Author (et al.), year	Abbreviated journal name	No. of pages		No. of tables	No. of cited referen ces	Times cited (Web of Science) a	Impact Factor ⁵	JUFO class
A84	Gallego et al., 2020	Mol. Pharmaceutics	11	6	0	54	1	4.939	2

Web of Science (WoS, https://apps.webofknowledge.com/). Date of citation info: 202

What source did you use for the journal impact factor? (Resurchify,

https://www.resurchify.com/impact/details/130126).

JUFO class, from https://www.tsv.fi/julkaisufoorumi/haku.php?lang=en

Code	Author (et al.), year	Copyright line	Creative Commons licence?	Digital Object Identifier (DOI link)
A84	Gallego et al., 2020	© 2020 American Chemical Society	No	https://doi.org/10.1021/ acs.molpharmaceut.9b 01213

Part 2: Article contents in nutshell

Copy-pasted abstract of the article:

Gene therapy employing nanocarriers represents a promising stratey to treat central nervous system (CNS) diseases, where brain microvasculature is frequently compromised. Vascular endothelial growth factor (VEGF) is a key angiogenic molecule; however, its in vivo administration to the CNS by nonviral gene therapy has not been conducted. Hence, we prepared and physicochemically characterized four cationic nicsome formulations (1–4), which were combined with PVEGF-GFP to explore their

2



3.2 Peer evaluation in Workshop, Item 2.1, DL Oct 25

Mark as done



WORKSHO

2.1 Return your SAE report for peer evaluation [Workshop] DL Oct 12

Prepare your SAE report using the template provided, and return it as a pdf file. Name your report so that the filename starts with your unique code and contains "SAE-report" in the name. You may add optional text, as you like. Example: A001_SAE-report_...<add-text-here-if-you-like>....pdf.

Submissions open from Thursday, 6 October 2022.

Note: Peer evaluation will later use this same Workshop item. (MyCo, Item 3.2). The planned opening date of peer evaluation is latest Oct 19.

Dashboard / My own courses / chem-e0105 - ... / Sections / scientific ar... / sae: lists, t...

SAE: Lists, templates, guidelines, links, ... [page]

Guidelines, lists, templates

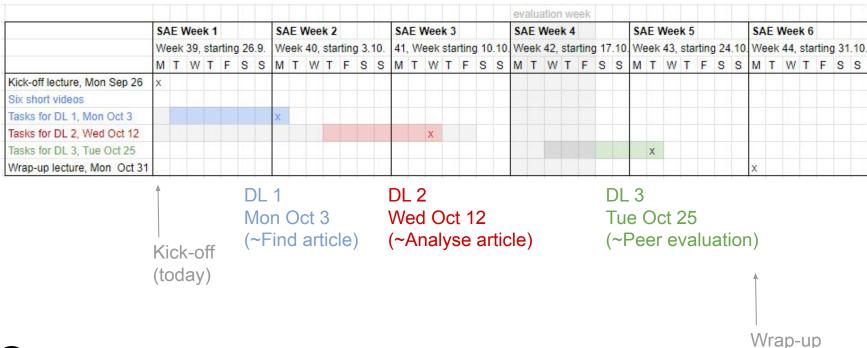
- · ALC-SAE-scientific-journals
- 2022-2023 SAE-report_template
- Aalto CHEM guidelines for written reports, 2012, updated 2018, here. (Version with some critical comments by RLP here.)
- · peer evaluation guidelines

Doing peer evaluation is obligatory; one can get max 20 points for it.



Document upda	ted by Riikka Puurunen 24.9.2022.	
Aspect no. in peer evaluation	Description	Points
1	Bibliographic entry correctly formatted according to Aalto CHEM guidelines	8
2	Author affiliations correctly found	2
3	Article-related dates correctly found	2
4	Publisher correctly found	2
5	Copyright line of the article correctly given	2
6	Potential Creative Commons (or another open access license) correctly found	2
7	Numbers found: number of pages, figures, tables, cited references	2
8	Number of times cited found (Web of Science), with date indicated	2
9	Latest journal impact factor correctly found	2
10	Current JUFO class correctly found	2
11	Info copy-pasted in the collective summary spreadsheet/table, as requested (MyCo Item 4.2.1)	2
12	Abstract of the article correctly copied	2
13	Example figure provided, including figure caption (also in MyCo Item 2.4.2)	2
14	Example table provided, including table caption (also in MyCo Item 2.4.3)	2
15	Main goal found	2
16	Methods (briefly) described	2
17	Main result or conclusion stated	2
18	Funding source info found (or the absence of it)	2
19	Student's own free-form comments	8
	·	
	total	50

Gantt chart view of schedule & deadlines (new!)





On schedule, deadlines, points, passing the module



On schedule & deadlines

																					eva	luati	on v	veek															
	SA	ΕV	Nee	k 1				SAI	E We	ek	2			SA	\E '	Wee	k 3				SA	E We	ek	4			SA	Eν	Veel	k 5			S	AE	Wee	k 6			Г
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Tasks for DL 2, Wed Oct 12																Х																							
Tasks for DL 3, Tue Oct 25																												х											
Wrap-up lecture, Mon Oct 31																																	X						
student effort, added (h)	2							4								10												5						1					
student effort, cumulative (h)	2							6								16												21					2	2					

- Submitting the SAE report in Item 2.1 [Workshop] is critical (teacher intends is to send one email reminder to those who did not submit by DL 2)
- After the Workshop (Item 2.1) progresses to peer evaluation stage, it is no longer possible to submit the SAE report (& participate in peer evaluation & pass the module)



On points & passing the module

- 60 pt needed to pass *
- Not difficult, but requires active doing
- * peer evaluation is obligatory part

- Full points for correct submission by the DL
- Late submissions (when allowed) give less points
- Grading is pass/fail, so points don't really matter (when 60 pt or more)

- As for peer evaluation in Item 3.2: if the points by peers are low, teacher can re-evaluate SAE report, if student's passing endangered (teacher evaluation overrides peer evaluations)
- If necessary, 2nd opportunity to do SAE module may be organized (May?)



If MyCo items don't work, please email me at firstname.lastname@aalto.fi

(firstname: Riikka, lastname: Puurunen)

Good luck with your scientific article exercise!
Hopefully it is fun & educational!

Your Aalto Thesis

References [1]... [50]... [100]...

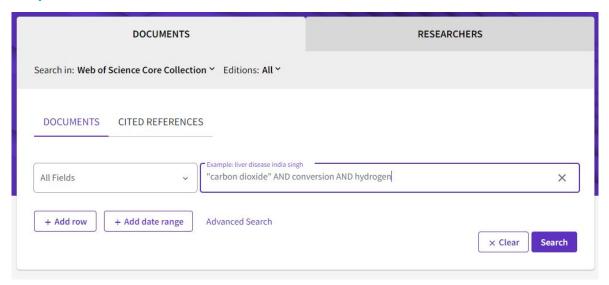


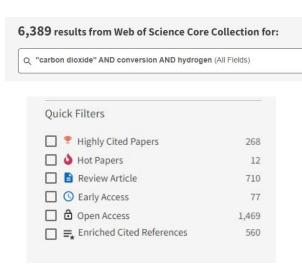
Additional material



How to search in Web of Science? Example: topic

https://www.webofscience.com/wos/woscc/basic-search



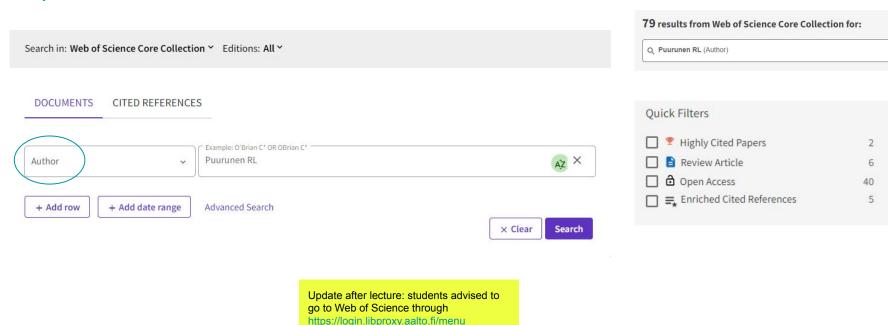


Update after lecture: students advised to go to Web of Science through https://login.libproxy.aalto.fi/menu



How to search in Web of Science? Example: person

https://www.webofscience.com/wos/woscc/basic-search

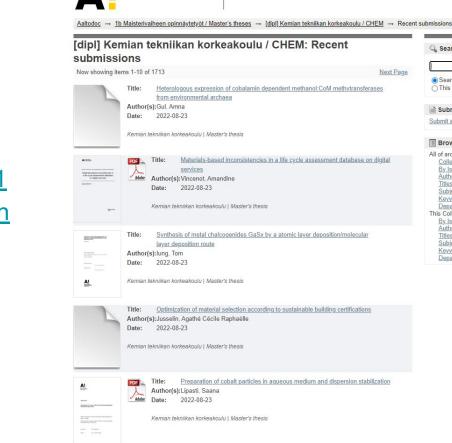




Aalto CHEM Master's theses

https://aaltodoc.aalto.fi/handle/1 23456789/20/recent-submission s?offset=0

Screen capture 24.9.2022



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