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DISCO

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Plan for peer-reviewed publications in scientific journals

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Dissemination Level		
PU	Public	X
PP	Restricted to other programme participants (including the Commission Services)	
RE	Restricted to a group specified by the partners of the Disco project	
CO	Confidential, only for partners of the Disco project	

1 Purpose of this document

The purpose of this document is to 1) convey intentions and plans to publish Disco research results in peer-reviewed scientific journals 2) to document the accepted and published peer-reviewed scientific papers that have resulted from the Disco project.

To fulfil this purpose, below two tables are presented. The first lists planned and submitted scientific journal publications, and the second lists the accepted and published scientific journal publications.

2 Open Access

All publications must be Open Access. The tables therefore indicate what type of Open Access is provided:

Green OA: Self-archiving / 'green' open access – the author, or a representative, archives (deposits) the published article or the final peer-reviewed manuscript in an online repository before, at the same time as, or after publication. Some publishers request that open access be granted only after an embargo period has elapsed.

Gold OA: Open access publishing / 'gold' open access - an article is immediately published in open access mode. In this model, the payment of publication costs is shifted away from subscribing readers. The most common business model is based on one-off payments by authors. These costs, often referred to as Article Processing Charges (APCs) are usually borne by the researcher's university or research institute or the agency funding the research. In other cases, the costs of open access publishing are covered by subsidies or other funding models.

3 Dissemination

As regulated in the Consortium Agreement, section 8.4., the Disco Consortium will be informed of any planned scientific publication before submission. The Coordinator will distribute an updated version of this document for approval once a new publication has been listed. All manuscripts that are more or less ready for submission will be made available for comment through project internal file sharing.

PLANNED AND SUBMITTED PUBLICATIONS

No.	Type of OA	Title of the article	Main Author/ Organisation, Work Package	Title of the Journal/Proc./Book	(Expected) Submission date
1	TBD	Preparation of UO ₂ based model systems including Pu as alpha source	SCK.CEN, FZJ (WP2)	TBD*	December 2018
2	TBD	Spent Nuclear Fuel behaviour in very long-term storage: leaching studies using reducing conditions in cementitious waters	CTM,(WP3)	Journal of Nuclear Materials	December 2019
3	TBD	Leaching of Al/Cr doped fuel under reducing conditions	Studsvik, (WP3)	MRS Conference proceedings	December 2019
4	TBD	Fission Se (incl. ⁷⁹ Se) recuperation and analysis	JRC, (WP3)	Journal of Nuclear Materials	December 2019
5	TBD	Effect of high pH cement buffer on doped-UO ₂ solubility: preliminary results	CIEMAT (WP4)	TBD*	December 2019
6	TBD	Thermodynamics of modern LWR fuels under in-reactor and geological disposal conditions	PSI (WP5)	TBD*	December 2019
7	TBD	Corrosion of un-clad Cr-doped spent fuel under reducing conditions	JRC, (WP3)	Journal of Nuclear Materials	December 2020
8	TBD	Irradiated mixed oxide fuel stability in synthetic groundwater under anoxic conditions	JRC, (WP3)	Journal of Nuclear Materials	December 2020
9	TBD	Radionuclide release from irradiated MOX fuel under reducing condition in bicarbonate water	KIT-INE, (WP3)	Journal of Nuclear Materials	December 2020
10	TBD	Dissolution studies on model systems for modern fuels	SCK.CEN, FZJ, (WP4)	TBD*	December 2020
11	TBD	Dissolution of Cr-doped UO ₂ in natural groundwater	VTT (WP4)	TBD*	December 2020
12	TBD	Spent nuclear fuel alteration. An improved Matrix Alteration Model under repository conditions	Amphos 21 (WP5)	TBD*	December 2020

13	TBD	Main outcomes from dissolution experiments performed with irradiated samples within WP3 of the DISCO EU project	All in WP3	Journal of Nuclear Materials	<i>December 2021</i>
14	TBD	Results from the dissolution studies with doped model systems and spent nuclear fuel - a comparison	All in WP3 and WP4	TBD*	<i>December 2021</i>
15	TBD	Synthesis of thermodynamic and kinetic models applied on modern spent fuels in the framework of the DisCo project	All in WP5	Journal of Nuclear Materials	<i>December 2021</i>
16	TBD	Main outcomes from the Disco project - Results, conclusions and remaining issues	SKB with All partners,	TBD*	<i>December 2021</i>

OA = Open Access. TBD = To Be Decided.

*There are several potential scientific journals. The most common for this type of work is Journal of Nuclear Materials, but the aim is to have some variation, so here follows a (non-exclusive) list of other potential journals:

Applied Geochemistry (Elsevier), Corrosion Science (Elsevier), MRS proceedings (Materials Research Society), Radiochimica Acta (De Gruyter), Journal of Radioanalytical and Nuclear Chemistry (Springer), Applied Materials and Interfaces (American Chemical Society), Geochimica et Cosmochimica Acta (Elsevier), Journal of contaminant hydrology (Elsevier), Dalton Transactions (Royal Society of Chemistry).

