

Web of Science field	Niner Commons field	OpenRefine data transformations	Manual interventions still needed
Article Title	Title	Split the Article Title Column using ": " (colon-space) as the separator	Review for proper nouns and acronyms
		Transform using <code>value[0].toUpperCase()+value.toLowerCase().substring(1,value.length())</code>	
		Rejoin the column using " : " (space-colon-space) as the separator	
[n/a]	UNCC Constituent Type	n/a	Enter manually
Author Full Name	Author: Type	n/a	set to "personal"
	Author: Controlled Vocabulary Used	n/a	set to "Local File or No Authority File Found" or "LC Name Authority File" if author is listed in LCNAF
	Author: Name	Split Author Full Names column using split multi-valued cells with "; " as the separator.	Will need to manually review items with many authors.
		Cluster and edit the column. Use key collision/fingerprint then nearest neighbor/ppm.	
		Re-join the column cells using ";" as the separator.	
		Split the column into several columns using ";" as the separator. Split into 6 columns at most. Uncheck "Remove this column."	
		Delete the 6th column.	
	Author: UNCC E-mail Address	n/a	Look up in directory
Reprint Addresses	Author: Department	Reconcile Author Full Name columns using LC VIAF API .	In testing, only about 10% of these matched using the auto-match, so there were many to review. It may be easier to look them up manually depending on how many rows are in the file. Consider a numeric facet on the column to focus on the high probability matches.
		Add new column based on Author Full Name column called "LCNAF" using <code>cell.recon.match.id</code>	
		Transform new column using <code>"http://id.loc.gov/authorities/names/" + cells['LCNAF'].value</code>	
		Reconcile Author Full Name column using ORCID API .	
	Author: ORCID ID	Add new column based on Author Full Name column called "ORCID" using <code>cell.recon.match.id</code>	This can also be cumbersome to review. In testing, none would automatch so it requires you to manually review all of them. Consider a numeric facet on the column to focus on the high probability matches.
		Transform new column using <code>"https://orcid.org/" + cells['ORCID'].value</code>	
[n/a]	Author: Role	n/a	Set to "author"
Abstract	Abstract	n/a	Review for typos/formatting issues

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Publication Type	Material Type	Create a text facet on column; edit types in facet (J=Journal article; C=Conference proceedings)	
[n/a]	Format/MIME Type	n/a	Set to "application/pdf"
[n/a]	Digital Origin	n/a	Set to "born digital"
[n/a]	Host Institution	n/a	Set to "J. Murrey Atkins Library (University of North Carolina at Charlotte)"
Publication Year	Single Date of Publication (YYYY)	Create a text facet on Publication Year column; select blanks Transform column using cells['Early Access Date'].value.substring(4)	
[n/a]	Issuance	n/a	Set to "single unit"
Author Keywords	Subjects	Split the Author Keywords column into several columns using "; " (semicolon-space) as the separator. Split into 4 columns at most. Uncheck "Remove this column."	
		Reconcile first three columns using FAST reconciliation . Delete 4th column.	
		Add new column based on each reconciled column using cell.recon.match.id	
Document Type	Genre Terms	Create a text facet and edit document types as needed. They should largely be articles or conference proceedings. Make a copy of the column.	
		Reconcile new column using Getty API: https://www.getty.edu/research/tools/vocabularies/obtain/openrefine.html	
		Add new column based on reconciled column called "Getty URI" using cell.recon.match.id	
		Transform new column using "http://vocab.getty.edu/" + cells['Getty URI'].value	
Language	Language	n/a	Filter list to identify any not in English and check those against MARC Code list for Languages for authorized term
Source Title	Journal/Book/Host Title	Transform using: value[0].toUpperCase()+value.toLowerCase().substring(1,value.length())	Review for proper nouns and acronyms
DOI	DOI	Facet column by blank; select false Transform using: "doi:" + cells['DOI'].value	