# An exporter for org to docx via pandoc

The idea here is to write a function that converts your org document to a word document using pandoc. There is not much we need to do, but we would like to convert citations to the format used by pandoc.

(defun pandoc-cite-format (link contents info)  
 (let ((type (org-element-property :type link))  
 (path (org-element-property :path link)))  
 (cond  
 ((string= type "cite")  
 (format "[%s]"  
 (mapconcat  
 (lambda (x) (concat "@" x))  
 (split-string path ",")  
 "; ")  
 ))  
 ;; anything else, we just do the regular thing  
 (t  
 (org-html-link link contents info)))))  
  
(org-export-define-derived-backend 'pandoc-docx 'org  
 :translate-alist '((link . pandoc-cite-format)))

Here are some references to test (Needs and Mansfield 1989). And a multiple reference.

(Järvi et al. 2008; Zhou et al. 2004; Curnan and Kitchin 2014)

This will export our file with converted links.

(org-export-to-file 'pandoc-docx "some-filename.org")

So, we need to get the bibliography file from the org file.

(expand-file-name (car (org-ref-find-bibliography)))

(shell-command "rm some-filename.docx")  
(find-file (org-export-to-file 'pandoc-docx "some-filename.org"))  
(shell-command (format "pandoc -s -S --biblio=%s %s -o %s"  
 (expand-file-name (car (org-ref-find-bibliography)))  
 (buffer-file-name)  
 (replace-regexp-in-string "\\.org" ".docx" (buffer-file-name))))  
(shell-command (format "open %s" (replace-regexp-in-string "\\.org" ".docx" (buffer-file-name))))

<a href="./some-filename.docx">./some-filename.docx</a>

<h1>Bibliography</h1> <ul><li><a id="curnan-2014-effec-concen">[curnan-2014-effec-concen] Curnan & Kitchin, Effects of Concentration, Crystal Structure, Magnetism, and Electronic Structure Method on First-Principles Oxygen Vacancy Formation Energy Trends in Perovskites, <i>The Journal of Physical Chemistry C</i>, <b>118(49)</b>, 28776-28790 (2014). <a href="<http://dx.doi.org/10.1021/jp507957n>">link</a>. <a href="<http://dx.doi.org/10.1021/jp507957n>">doi</a>.</a></li> <li><a id="jarvi-2008-devel-reaxf">[jarvi-2008-devel-reaxf] Järvi, Kuronen, Hakala, Nordlund, , van Duin, Goddard & Jacob, Development of a Reaxff Description for Gold, <i>The European Physical Journal B</i>, <b>66(1)</b>, 75-79 (2008). <a href="<http://dx.doi.org/10.1140/epjb/e2008-00378-3>">link</a>. <a href="<http://dx.doi.org/10.1140/epjb/e2008-00378-3>">doi</a>.</a></li> <li><a id="needs-1989-calcul">[needs-1989-calcul] Needs & Mansfield, Calculations of the Surface Stress Tensor and Surface Energy of the (111) Surfaces of Iridium, Platinum and Gold, <i>Journal of Physics: Condensed Matter</i>, <b>1(41)</b>, 7555-7563 (1989). <a href="<http://dx.doi.org/10.1088/0953-8984/1/41/006>">link</a>. <a href="<http://dx.doi.org/10.1088/0953-8984/1/41/006>">doi</a>.</a></li> <li><a id="zhou-2004-first-lda-u">[zhou-2004-first-lda-u] Zhou, Cococcioni, Marianetti, Morgan, & Ceder, First-Principles Prediction of Redox Potentials in Transition-Metal Compounds With Lda+u, <i>Physical Review B</i>, <b>70(23)</b>, nil (2004). <a href="<http://dx.doi.org/10.1103/PhysRevB.70.235121>">link</a>. <a href="<http://dx.doi.org/10.1103/physrevb.70.235121>">doi</a>.</a></li> </ul>

Curnan, Matthew T., and John R. Kitchin. 2014. “Effects of Concentration, Crystal Structure, Magnetism, and Electronic Structure Method on First-Principles Oxygen Vacancy Formation Energy Trends in Perovskites.” *The Journal of Physical Chemistry C* 118 (49): 28776–90. doi:[10.1021/jp507957n](http://dx.doi.org/10.1021/jp507957n).

Järvi, T. T., A. Kuronen, M. Hakala, K. Nordlund, A. C. T. van Duin, W. A. Goddard, and T. Jacob. 2008. “Development of a Reaxff Description for Gold.” *The European Physical Journal B* 66 (1): 75–79. doi:[10.1140/epjb/e2008-00378-3](http://dx.doi.org/10.1140/epjb/e2008-00378-3).

Needs, R. J., and M. Mansfield. 1989. “Calculations of the Surface Stress Tensor and Surface Energy of the (111) Surfaces of Iridium, Platinum and Gold.” *Journal of Physics: Condensed Matter* 1 (41): 7555–63. doi:[10.1088/0953-8984/1/41/006](http://dx.doi.org/10.1088/0953-8984/1/41/006).

Zhou, F., M. Cococcioni, C. Marianetti, D. Morgan, and G. Ceder. 2004. “First-Principles Prediction of Redox Potentials in Transition-Metal Compounds with Lda+u.” *Physical Review B* 70 (23): nil. doi:[10.1103/physrevb.70.235121](http://dx.doi.org/10.1103/physrevb.70.235121).