

Research data supporting:  
**Angular optical response of cellulose  
nanocrystal films explained by the distortions  
of the arrested suspension upon drying,**  
published in  
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**This is a short description of the supporting research data of the related manuscript.**

It is stored and made available under a CC-BY 4.0 license agreement at the Cambridge Open data repository *via* the DOI: (<https://doi.org/10.17863/CAM.37436>) or by searching the repository website (<https://www.repository.cam.ac.uk>).

The related manuscript was published in *Physical Review Materials* **3**, 045601 (2019) (DOI: 10.1103/PhysRevMaterials.3.045601) and its accepted and unedited version is accessible in Open Access (free of charge) on the same repository (<http://dx.doi.org/10.17863/CAM.37429>). However, please note that the published images from this article can only be reused in agreement with the copyright policy of the journal, since a copyright transfer agreement has been established and is valid for the final figures only.

The data are organized and grouped in dedicated .zip files mainly classified by the figure number they contribute to. All figures (1-21) are made available in high resolution in each sub-folder. The different file extensions and the corresponding softwares required to read them are: .tif, .png, .jpg (most image reader), .pptx, .ppt (Powerpoint), .m, .mat, .fig (MATLAB), .txt (any text editor).

Table 1: General overview of the available Open Data for each item.

Item	Content description
Figure 1	figure (.png)
Figure 2	figure (.fig, .eps, .png)
Figure 3	figure (.fig, .eps, .png), , data points (.txt)
Figure 4	figures (.fig, .png) and data points (.txt) for both $\sin \phi'$ and $\phi'$
Figure 5	figure (.fig, .eps, .png)
Figure 6	figure (.fig, .png), data points (.txt)
Figure 7	figure (.fig, .png), data points (.txt)
Figure 8	figure (.fig, .png), data points (.txt)
Figure 9	figure (.fig, .png), data points (.txt)
Figure 10	figure (.fig, .eps, .png)
Figure 11	figure (.fig, .png), data points (.txt)
Figure 12	figure (.fig, .eps, .png), data points (.txt)
Figure 13	figure (.pptx, .ppt, .png), subfigures (.fig, .png), data points (.txt)
Figure 14	figure (.pptx, .ppt, .png), original photographs (.jpg)
Figure 15	figure (.pptx, .ppt, .png), original photographs (.jpg), values of $\theta_i$ (.xlsx, .xls)
Figure 16	figures (.png), original photographs (.jpg), scalebar (.png)
Figure 17	figures (.fig, .png), data points (.txt)
Figure 18	figure (.fig, .png), data points (.txt)
Figure 19	figures (.fig, .png), data points (.txt)
Figure 20	figure (.png), original SEM photograph (.tif)
Figure 21	figures (.png), original SEM photograph (.tif), bouligand arches (.eps)
Table 1	figures (.fig), data points (.txt)
script files	various MATLAB script files sorted by Figures or Appendices (.m)

Table 2: Detailed content of the available Open Data sorted by ((sub)sub)folder.

Folder	(subfolder)	(subsubfolder)	# files	file types	
Figure_01-08	Figure_01	...	1	(.png)	
	Figure_02	...	3	(.fig, .eps, .png)	
	Figure_03	...	11	(.fig, .eps, .png, .txt)	
	Figure_04	Figure_04a		10	(.fig, .png, .txt)
		Figure_04b		10	(.fig, .png, .txt)
	Figure_05	...	3	(.fig, .eps, .png)	
	Figure_06	...	4	(.fig, .png, .txt)	
	Figure_07	...	10	(.fig, .png, .txt)	
	Figure_08	...	6	(.fig, .png, .txt)	
Figure_09	...	8	(.fig, .png, .txt)		
Figure_10-13	Figure_10	...	3	(.fig, .eps, .png)	
	Figure_11	...	3	(.fig, .png, .txt)	
	Figure_12	...	4	(.fig, .eps, .png, .txt)	
	Figure_13	...		19	(.pptx, .ppt, .png, .fig, .png)
		Fig_13a_datapoints		6	(.txt)
		Fig_13b_datapoints		6	(.txt)
		Fig_13c_datapoints		6	(.txt)
		Fig_13d_datapoints		6	(.txt)
		Fig_13e_datapoints		6	(.txt)
		Fig_13f_datapoints		6	(.txt)
Fig_13g_datapoints			6	(.txt)	
Fig_13h_datapoints		6	(.txt)		
Figure_14	...	...	15	(.pptx, .ppt, .png, .jpg)	
Figure_15	...	...	14	(.pptx, .ppt, .png, .jpg, .xlsx, .xls)	
Figure_16	Figure_16a		4	(.png, .jpg, .png)	
	Figure_16b	...	4	(.png, .jpg, .png)	
	Figure_16c	...	4	(.png, .jpg, .png)	
Figure_17-19	...	...	2	(.mat, .txt)	
	Figure_17	Figure_17a	5	(.fig, .png, .txt)	
		Figure_17b	5	(.fig, .png, .txt)	
	Figure_18	...	5	(.fig, .png, .txt)	
Figure_19	Figure_19a	5	(.fig, .png, .txt)		
	Figure_19b	5	(.fig, .png, .txt)		
Figure_20-21	Figure_20	...	2	(.png, .tif)	
	Figure_21	...	4	(.png, .tif, .eps)	
Table_1	...	...	14	(.fig, .txt)	
MATLAB	sorted	...	2	(.m)	
		code_Figure_02	4	(.m)	
		code_Figure_03	2	(.m)	
		code_Figure_04_and_11	37	(.m)	
		code_Figure_05_and_21	28	(.m)	

Continued on next page...

Folder	(subfolder)	(subsubfolder)	# files	file types
(MATLAB)	(sorted)	code_Figure_06_07_09	10	(.m)
		code_Figure_08	2	(.m)
		code_Figure_10	1	(.m)
		code_Figure_12	1	(.m)
		code_Figure_13	13	(.m)
		code_Figure_17-19	3	(.m)
		exporting_data_scripts	7	(.m)
	toolbox	...	60	(.m, .txt, .fig)
		colorspace	12	(.m, .h, .c, .html, .jpg, .txt)
		utility	8	(.m, .txt)