Comment on acp-2021-871
Anonymous Referee #2

Referee comment on "Aqueous chemical bleaching of 4-nitrophenol brown carbon by hydroxyl radicals; products, mechanism and light absorptivity" by Bartłomiej Witkowski et al., Atmos. Chem. Phys. Discuss., https://doi.org/10.5194/acp-2021-871-RC2, 2021

General

This is a study on aqueous phase bleaching of 4-nitrophenol (4-NP) in aqueous solution. First of all, its language must be fully revised before further consideration.

All in all, the paper should be subject to a revision which I would rate major. I feel the scientific content is good, worthwhile and well suited for publication in ACP but many formal aspects of the manuscript must be improved.

Introduction: Whilit is good to show that lots of references exist and are relevant to the present work, I feel this text is suffering from over-referencing which makes it very difficult to read. I would like to work with summaries such as "and references therein" so you do not need to cite each and every study on a one-by-one basis.

Details

line 78: Check for missing articles and the right use of singular and plural in the English language. Here, it should read 'OH reactions'. Carefully revise the whole text.

Line 123: 'was quantified'

Redo Figure 1, it is not very clear. Separate legend from graph (you can put this into the caption)

Figure 3: Are these single experiments? Why are the curves of (A) and (C) so scattered?