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| **Published Researches**  **الأبحاث المنشورة** | |
| Title  **عنوان البحث** | * [Comparison between cotton fiber and cellulose powder for wastewater treatment efficiency with nano-crystalline TiO2 by sono-synthesis](https://www.emerald.com/insight/content/doi/10.1108/RJTA-10-2021-0124/full/html?utm_campaign=Emerald_Engineering_PPV_Dec22_RoN) |
| Author  **الناشر** | * Md Mehedi Hasan Rubel, Syed Rashedul Islam, Abeer Alassod, Amjad Farooq, Xiaolin Shen, Taosif Ahmed, Mohammad Mamunur Rashid, Afshan Zareen |
| Source Title  **اسم المجلة** | * Research Journal of Textile and Apparel |
| ISSN | 1560-6074 |
| Q | Q2 |
| Link  **رابط البحث من موقع المجلة** | <https://doi.org/10.1108/RJTA-10-2021-0124> |
| Abstract  **خلاصة** | * The main purpose of this study was to prepare the cotton fibers and cellulose powder by a layer of nano-crystalline-titanium dioxide (TiO 2) using the sol-gel sono-synthesis method to clean the wastewater containing reactive dye. Moreover, TiO 2 nano-materials are remarkable due to their photoactive properties and valuable applications in wastewater treatment. |