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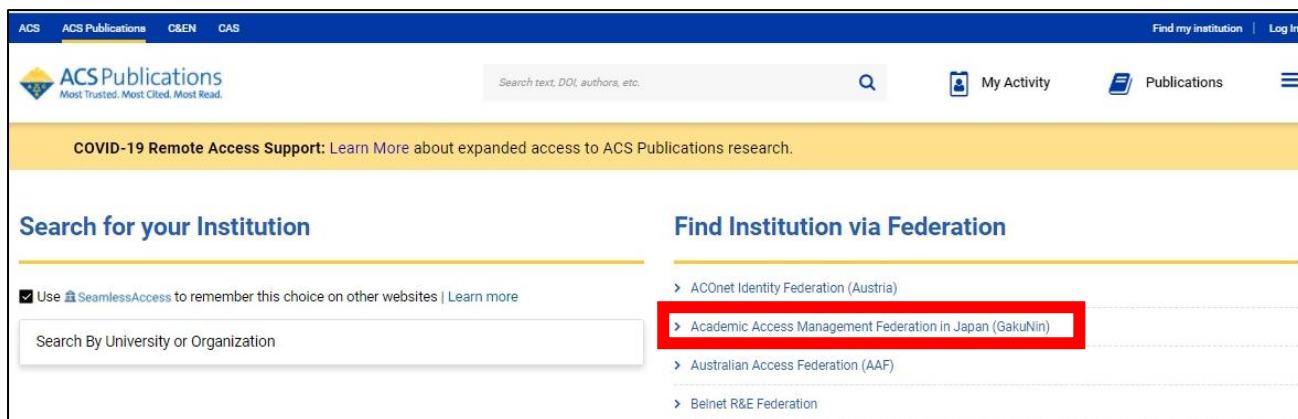
1. Click on “Read Online” or “PDF” on the page of ACS Publications’s Journal.

The screenshot shows the ACS Publications website interface. At the top, there are navigation links for ACS, ACS Publications, C&EN, and CAS, along with a search bar and user options like 'My Activity' and 'Publications'. A banner for PerkinElmer is visible. Below that, a yellow bar provides COVID-19 Remote Access Support information. The main article title is "Nanocarbon-Based Catalytic Ozonation for Aqueous Oxidation: Engineering Defects for Active Sites and Tunable Reaction Pathways" by Yuxian Wang, Xiaoguang Duan*, Yongbing Xie, Hongqi Sun, and Shaobin Wang*. The article has 639 views and is published in ACS Catalysis. At the bottom of the article information, two buttons are highlighted with a red box: "Read Online" and "PDF (4 MB)".

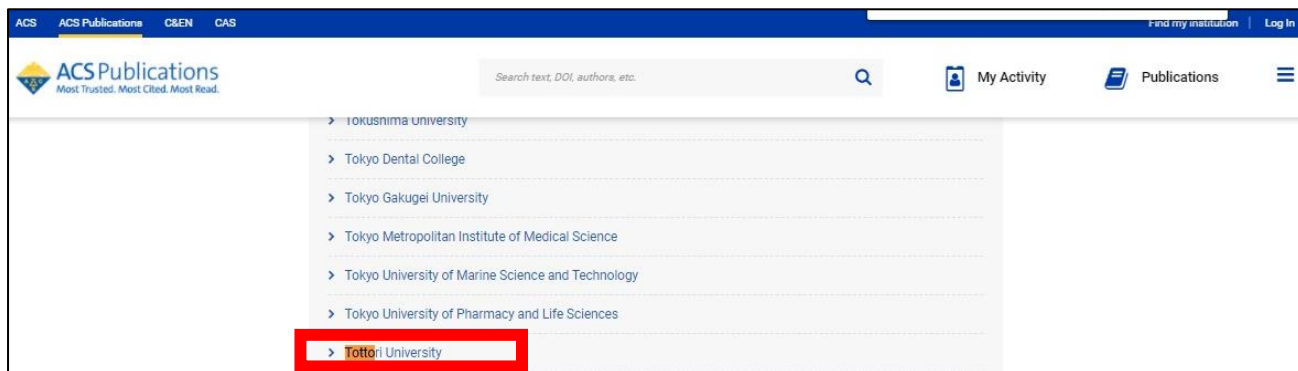
2. Click on “Access Through Your Institution.”

This screenshot shows the same ACS Publications article page as above. In this view, the "Access Through Your Institution" button is highlighted with a red box. The interface includes the same navigation and article information as the previous screenshot. A ChemIDP.org banner is visible at the top. The article title and authors remain the same. The "Access Through Your Institution" button is located below the article information, next to the "PDF (4 MB)" button and a "More Access Options" button.

3. Click on “Academic Access Management Federation in Japan (GakuNin).”



4. Click on “Tottori University.”



5. Enter your TU ID and password and click on “Login.”



6. If a window is displayed as below, you have successfully logged in to ACS.

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Nanocarbon-Based Catalytic Ozonation for Aqueous Oxidation: Engineering Defects for Active Sites and Tunable Reaction Pathways

Yuxian Wang, Xiaoguang Duan*, Yongbing Xie, Hongqi Sun, and Shaobin Wang*

ACS Catalysis 2020, 10, 22, 13383-13414 (Review)  Subscribed
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 Abstract  Full text  PDF



The abstract graphic illustrates the catalytic mechanism of nanocarbon-based catalytic ozonation. It shows the generation of reactive oxygen species (ROS) from ozone (O₃) and the subsequent oxidation of organic pollutants (C-CO₂). The process involves the formation of surface oxygen complexes and the generation of active sites. The diagram also highlights the importance of engineering defects for active sites and the role of stability and regeneration in the catalytic cycle. Key components include: ROS, Surface-O₂ complex, Active Sites, C-CO₂, Strategies, Characterization, Synthesis, DFT Simulations, and Stability & Regeneration.