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In this textbook, one of the authors has already provided a thorough review of the history of microfabrication and microelectromechanical devices and explained many of the concepts introduced throughout the rest of the text. I will go over the applications and the experimental setup and processing of those applications, while following the chapters of the text. Marc J. Madou. Fundamentals of Microfabrication and Nanotechnology. Hardcover. New York: Academic Press. ISBN 978-0-12-816051-7. Buy the eBook Fundamentals of Microfabrication and

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by F Cheung 2016 Cited by 23 Non-contact electro-optical positioning system for micro-lithography using a dual-frequency capacitive sensor . L J van den Boom et al. Proceedings of the IEEE

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EngineeringReduced graphene oxide/p-
aminobenzoic acid heterostructured
photocatalytic system for degradation of
acetaminophen in water. In this study, we
report a novel heterostructured
photocatalytic system of reduced
graphene oxide (rGO)/p-aminobenzoic
acid (PABA), which can degrade
acetaminophen (AC) in water. The
photocatalytic activity was evaluated by

analyzing AC degradation rate. The synthesized heterostructured photocatalysts were characterized by transmission electron microscopy (TEM), X-ray diffraction (XRD) and UV-vis spectra. The photocatalytic activity of AC was significantly improved in the presence of rGO/PABA heterostructured photocatalysts. Experimental results indicated that rGO/PABA heterostructured photocatalysts were more effective than pure rGO, rGO/polyethylene glycol (PEG) and rGO/PABA for the photodegradation of AC in water. The influence of various

factors, including reaction temperature, pH and initial concentration of AC were investigated. The half-life time of the AC under photocatalysis was 72.9 min at pH 7.0, and the degradation rate was 9.4% in 90 min. The optimal reaction condition was obtained with reaction temperature at 30 °C, concentration of AC at 0.1mM and pH at 7.0. The degradation process of AC was found to be biphasic in terms of the pseudo first order kinetic model, and the reaction rate constants of initial and final stages were found to be 0.0090 and 0.0290 min⁽⁻¹⁾, respectively. The degradation process can be attributed to

the release of photo-generated electrons from rGO and subsequent degradation of acetaminophen by hole scavengers.

Therefore, the heterostructured rGO/PABA photocatalysts are a promising candidate for advanced water treatment. { "id 2d92ce491b