

**ANTHOCYANIN DYE SENSITIZER FROM BLACK RICE AND
BLUE PEA FLOWER**

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ABSTRACT

ANTHOCYANIN DYE SENSITIZER FROM BLACK RICE AND BLUE PEA FLOWER

Natural dyes were prepared through simple extraction method using 95% ethanol. In this research work, natural dyes of anthocyanin were extracted from black rice and blue pea flower. The characterizations of the dyes were carried out using UV Vis spectrometer. The extracted dye from black rice and blue pea flower exhibited a strong absorption broad band in the visible region with a peak at 520 nm and 544 nm respectively. The anthocyanin concentration from black rice and blue pea flower were 400.31 mg/L and 137.93 mg/L respectively. The band gap of blue pea flower is 2.281 eV and black rice is 2.386 eV. The result shows the dye extracted from black rice and blue pea flower have potential application in DSSC.