

COMPOSITE PASTE, METHOD OF MANUFACTURING THEREOF, AND USE THEREOF IN PHOTOELECTRODES

ABSTRACT

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A sensitized aqueous composite paste is provided. The composite paste includes metal oxide particles, photosensitizer, and optionally carbon nanotubes. Method for manufacturing the sensitized aqueous composite paste is also provided. The method includes providing metal oxide particles, optionally grinding the metal oxide particles, mixing the metal oxide particles with an aqueous solution, preferably deionized water, to form a paste-like mixture, adding a photosensitizer to the paste-like mixture in the dark, optionally adding carbon nanotubes to the paste-like mixture, and mixing evenly to form the sensitized aqueous composite paste. Method for manufacturing a photoelectrode using the sensitized aqueous composite paste and photochemical cell containing the photoelectrode are also provided.

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FIG. 5