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SCIENCE CHINA
Chemistry

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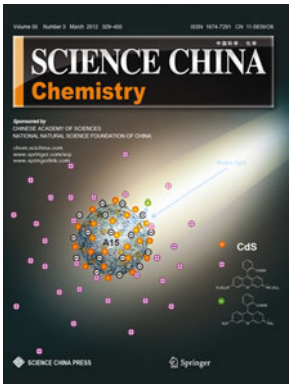

COVER A nanocomposite photocatalyst, A15-CdS, was fabricated for photodegradation of cationic dyes by inner-surface deposition of CdS nanoparticles within a porous polymeric cation exchanger A15. The sulfonic groups bound to the polymeric matrix would result in preconcentration of Rhodamine B (RhB) prior to photodegradation, because RhB is positively charged and could be preferably sequestrated by a cation exchanger. CdS nanoparticles immobilized on A15 are expected to decompose RhB under visible light illumination. The ethyl groups of RhB were removed gradually, accompanied by color changes from initially pink to light yellow-green. As a result of the big size of the nanocomposite photocatalyst, the used A15-CdS could be easily separated from solutions for reuse. (see the article by XIE YingMei, LV Lu, LI MingHui, PAN BingCai, CHEN Qun, ZHANG WeiMing, ZHANG QuanXing on page 409–415)

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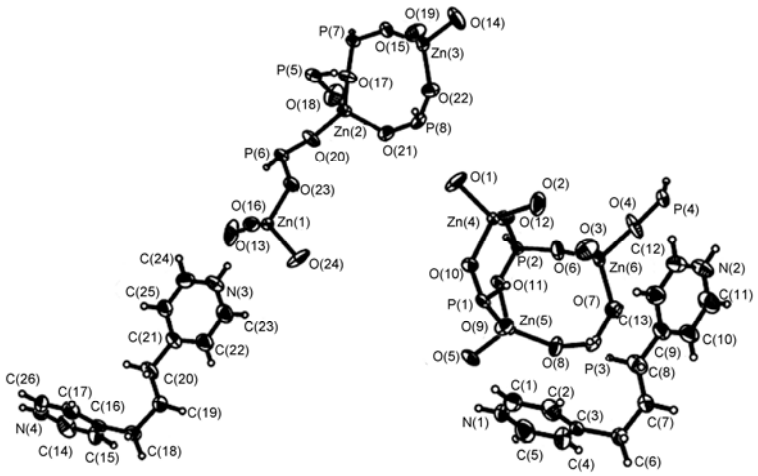

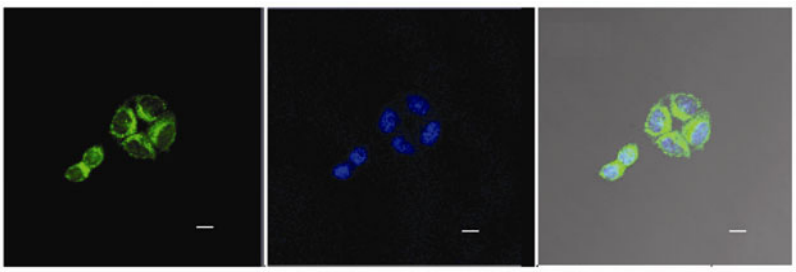

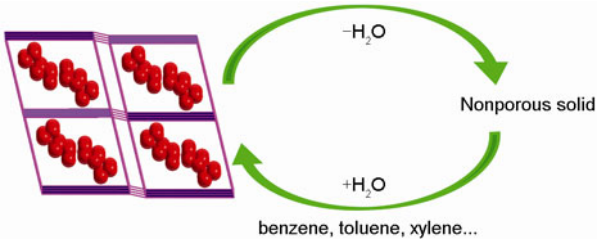

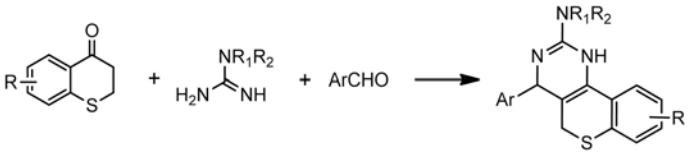

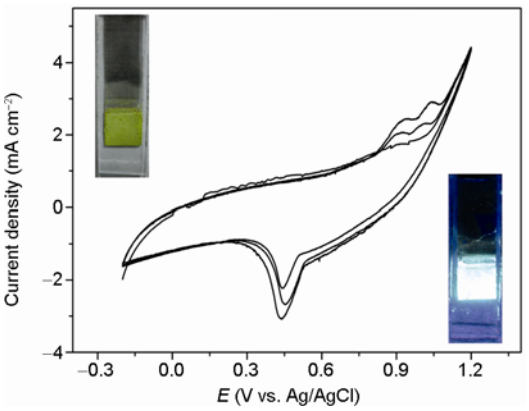

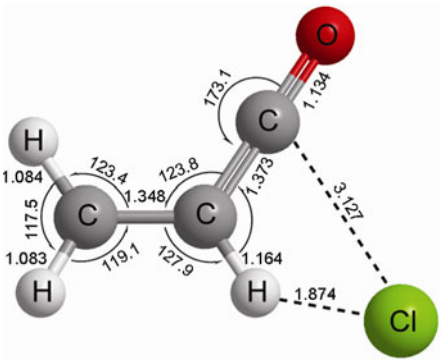

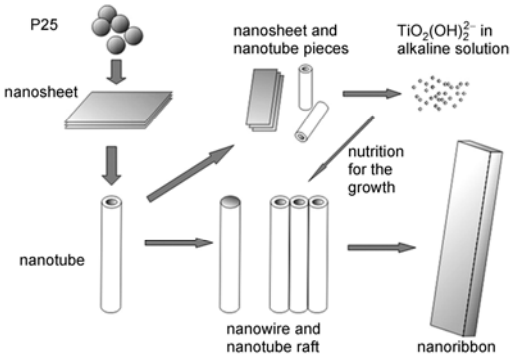

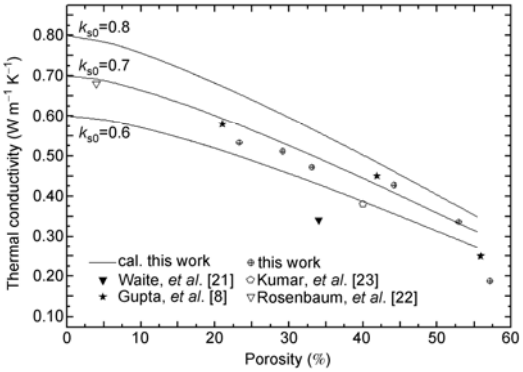

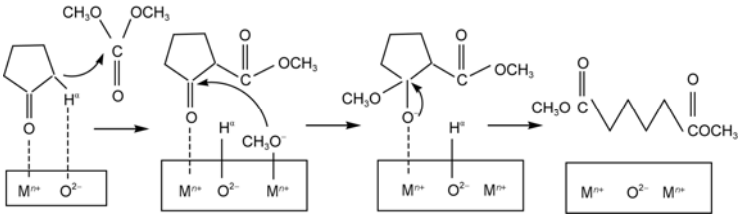

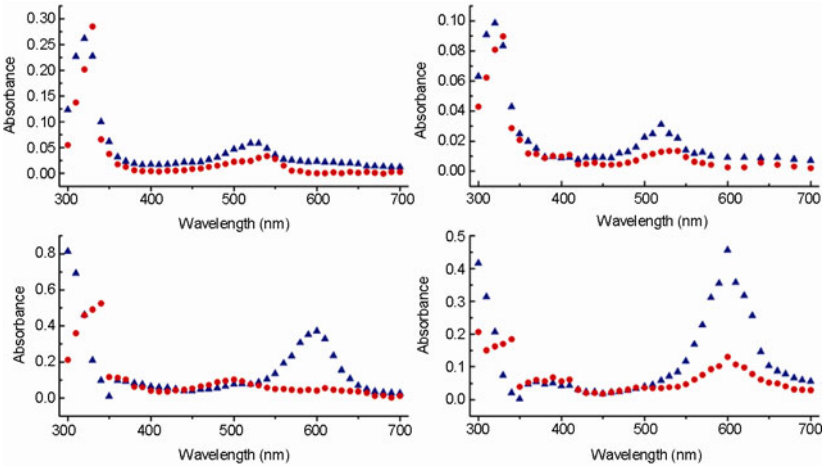

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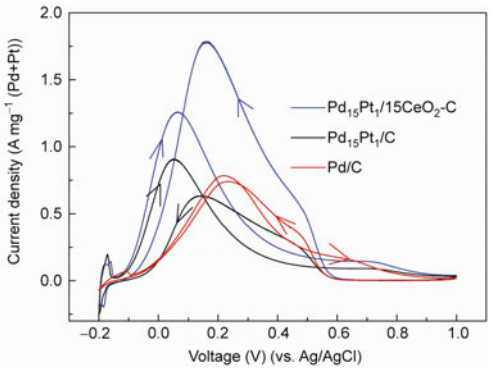

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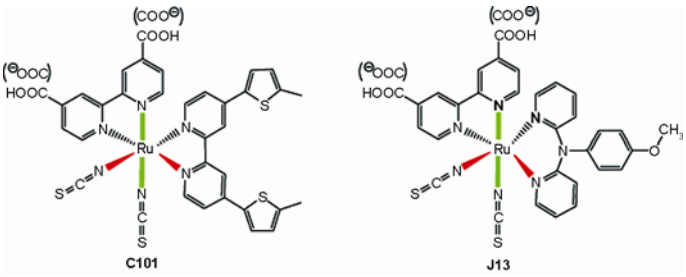

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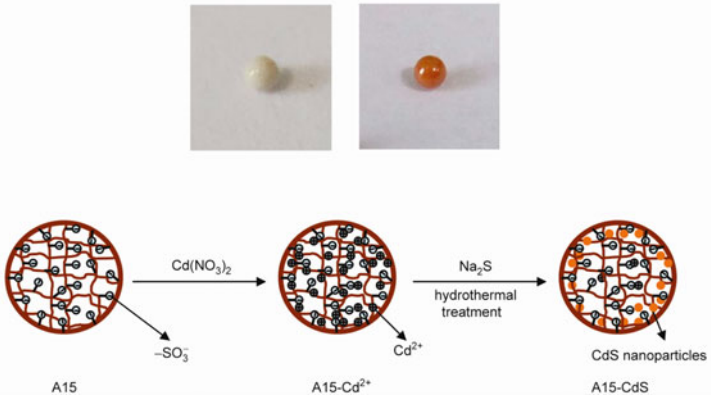

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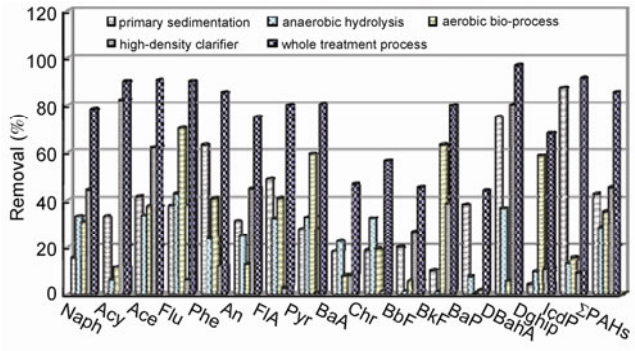

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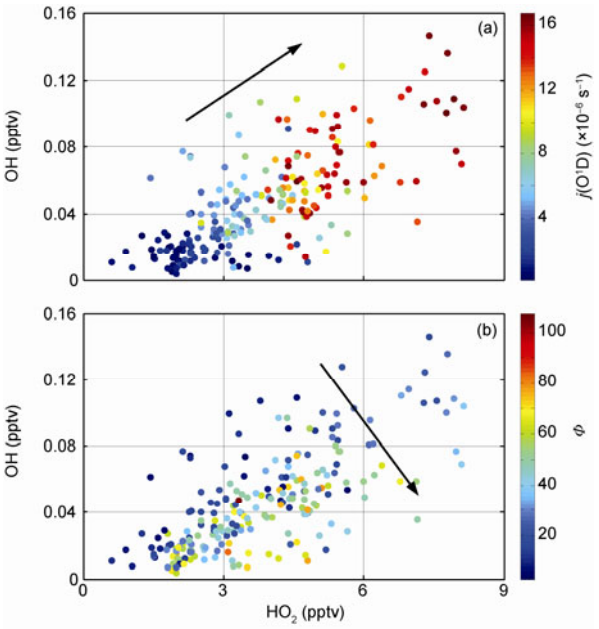

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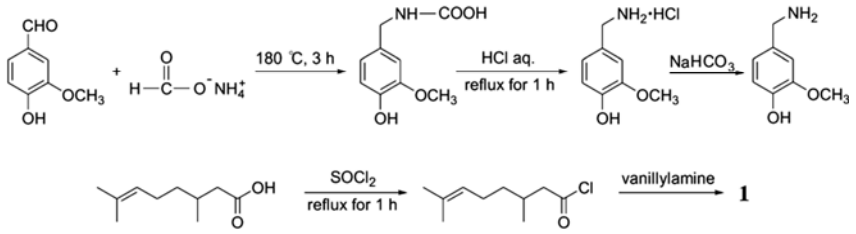

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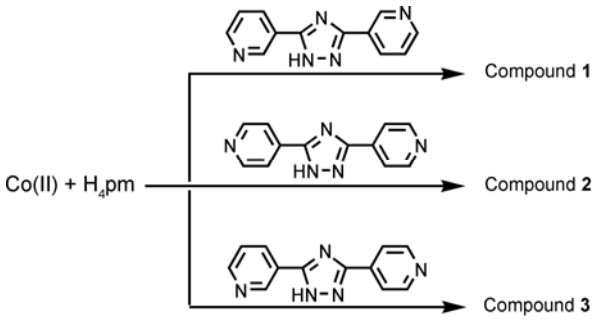

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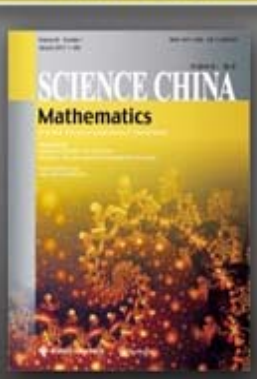

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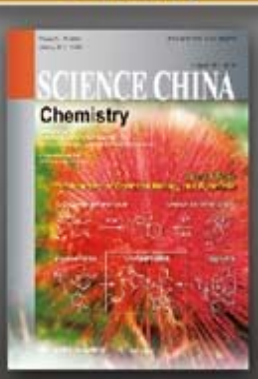

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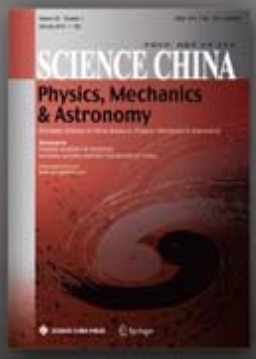

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