Supplemental Information

Synthesis, characterization and immobilization of N-doped TiO$_2$ catalyst by a

reformed polymeric precursor method

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[a] *Laboratory of Advanced Polymeric Materials, Institute of Chemistry, Chinese Academy of Sciences, Beijing 100190, P.R. China*
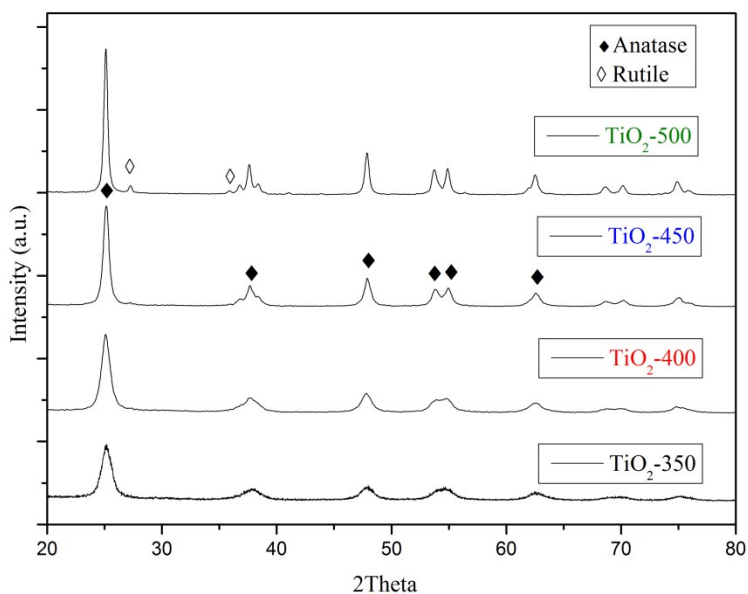[b] *University of Chinese Academy of Sciences, Beijing 100049, P.R. China*

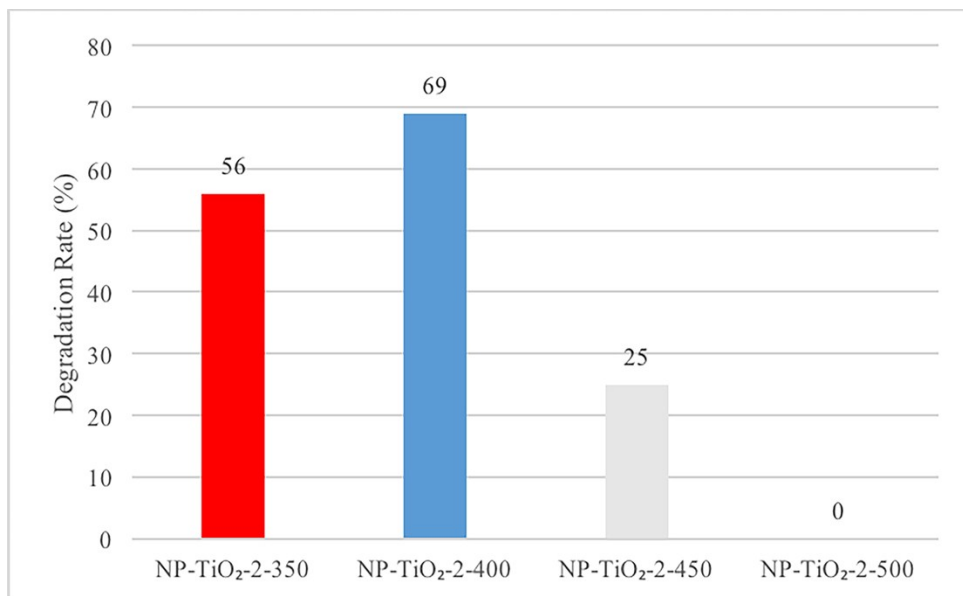Figure S1. XRD patterns for undoped TiO$_2$ catalysts with different calcination temperatures

Figure S2. Degradation rates of methyl orange under visible light (4 hours) for PEG modified samples annealed at different temperatures
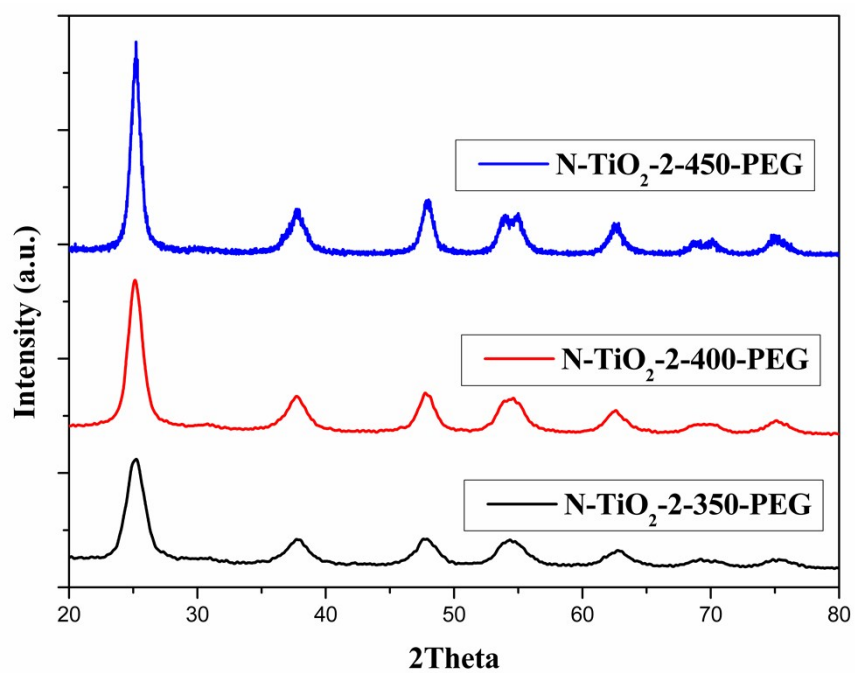

Figure S3. XRD patterns for PEG post-modified samples annealed at different temperatures

Table S1 Detailed parameters for QF-1, QF-2 and QF-3

Sample	Coating mass ratio (%)	Mass of spread precursor(g)	Mass of raw quartz fabric (g)	Mass of coated quartz fabric (g)
QF-1	20	1.8	0.15	0.18
QF-3	20	0.6	0.15	0.18
QF-5	40	0.36	0.075	0.105