

Absorption behavior of poly(methyl methacrylate)-multiwalled carbon nanotubes composites:  
effects of UV irradiation and multiwalled carbon nanotubes

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Supplementary Information:

Figure S1. Methanol transport in PMMA and PMMA-WMCNT composites at 50°C

Figure S2. Methanol transport in PMMA and PMMA-WMCNT composites at 45°C

Figure S3. Methanol transport in PMMA and PMMA-WMCNT composites at 40°C

Figure S4. Methanol transport in PMMA and PMMA-WMCNT composites at 35°C

Figure S5. Methanol transport in PMMA and PMMA-WMCNT composites at 30°C

Figure S6. Methanol transport in PMMA and PMMA-WMCNT composites irradiated with UV doses of 0, 291.87 and 583.74 J/cm<sup>2</sup> at 50°C

Figure S7. Methanol transport in PMMA and PMMA-WMCNT composites irradiated with UV doses of 0, 291.87 and 583.74 J/cm<sup>2</sup> at 45°C

Figure S8. Methanol transport in PMMA and PMMA-WMCNT composites irradiated with UV doses of 0, 291.87 and 583.74 J/cm<sup>2</sup> at 40°C

Figure S9. Methanol transport in PMMA and PMMA-WMCNT composites irradiated with UV doses of 0, 291.87 and 583.74 J/cm<sup>2</sup> at 35°C

Figure S10. Methanol transport in PMMA and PMMA-WMCNT composites irradiated with UV doses of 0, 291.87 and 583.74 J/cm<sup>2</sup> at 30°C

Figure S11. Temperature dependence of ESR for the diffusion of methanol in the PMMA-MWCNT plates with UV irradiation for the weight percentage of, (a) 0% MWCNTs, (b) 0.1% MWCNTs, and (c) 0.4% MWCNTs

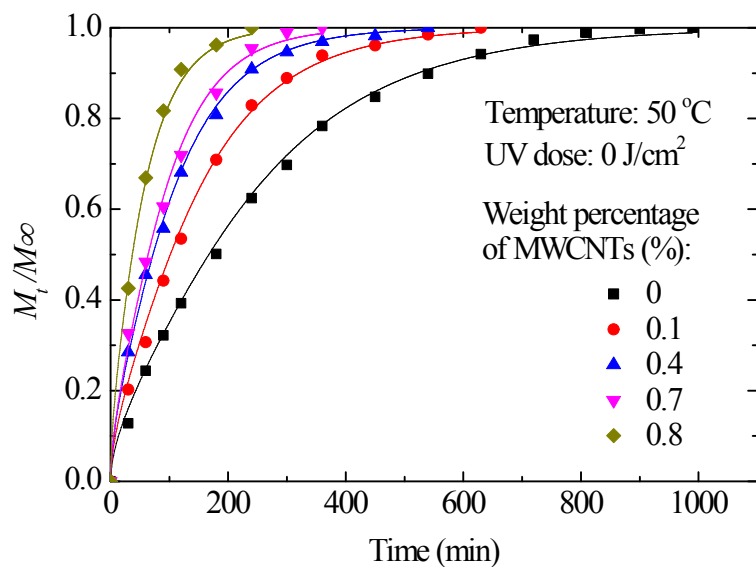


Figure S1. Methanol transport in PMMA and PMMA-WMCNT composites at 50°C

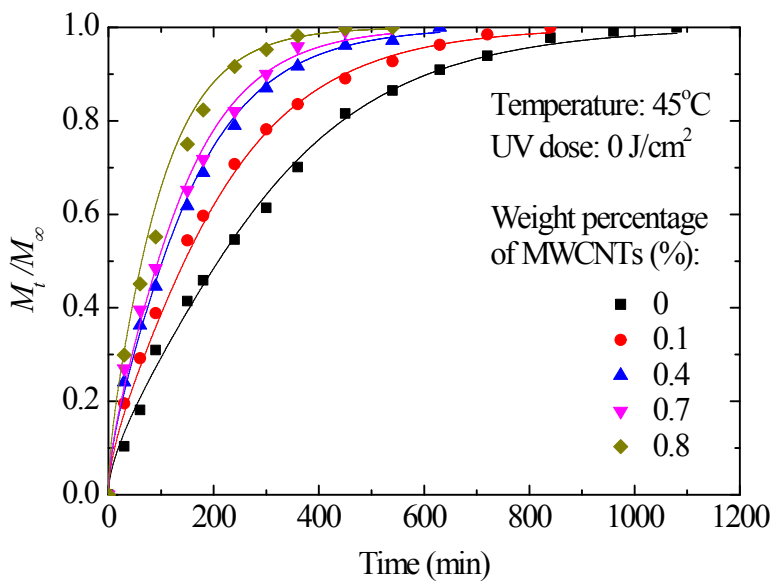


Figure S2. Methanol transport in PMMA and PMMA-WMCNT composites at 45°C

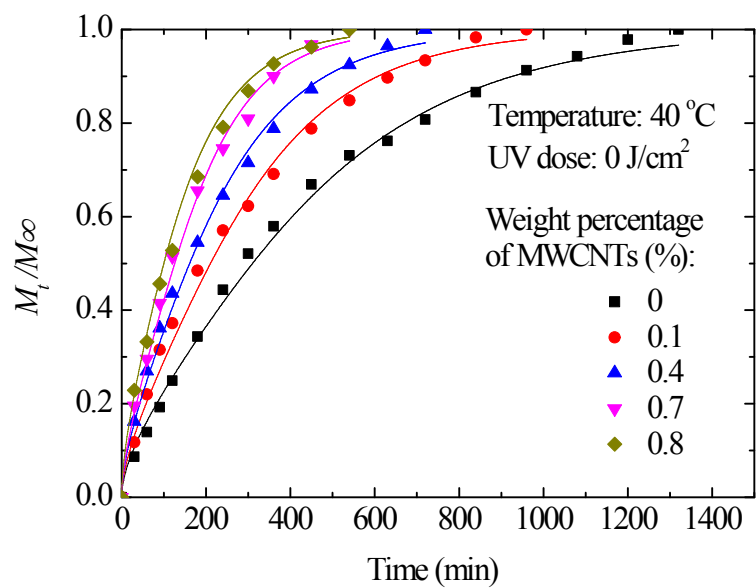


Figure S3. Methanol transport in PMMA and PMMA-WMCNT composites at 40°C

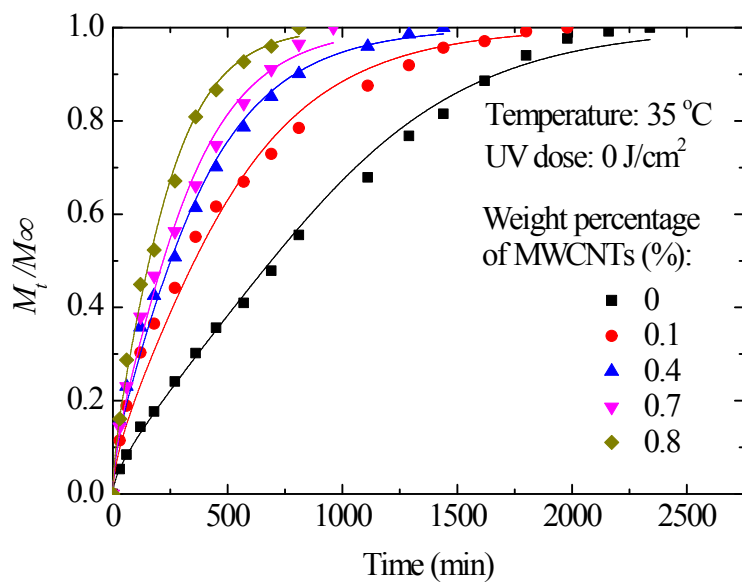


Figure S4. Methanol transport in PMMA and PMMA-WMCNT composites at 35°C

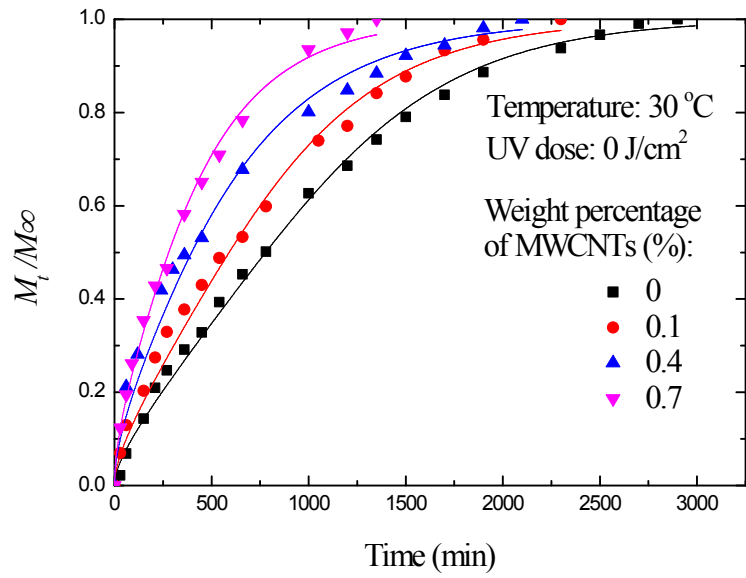


Figure S5. Methanol transport in PMMA and PMMA-WMCNT composites at 30°C

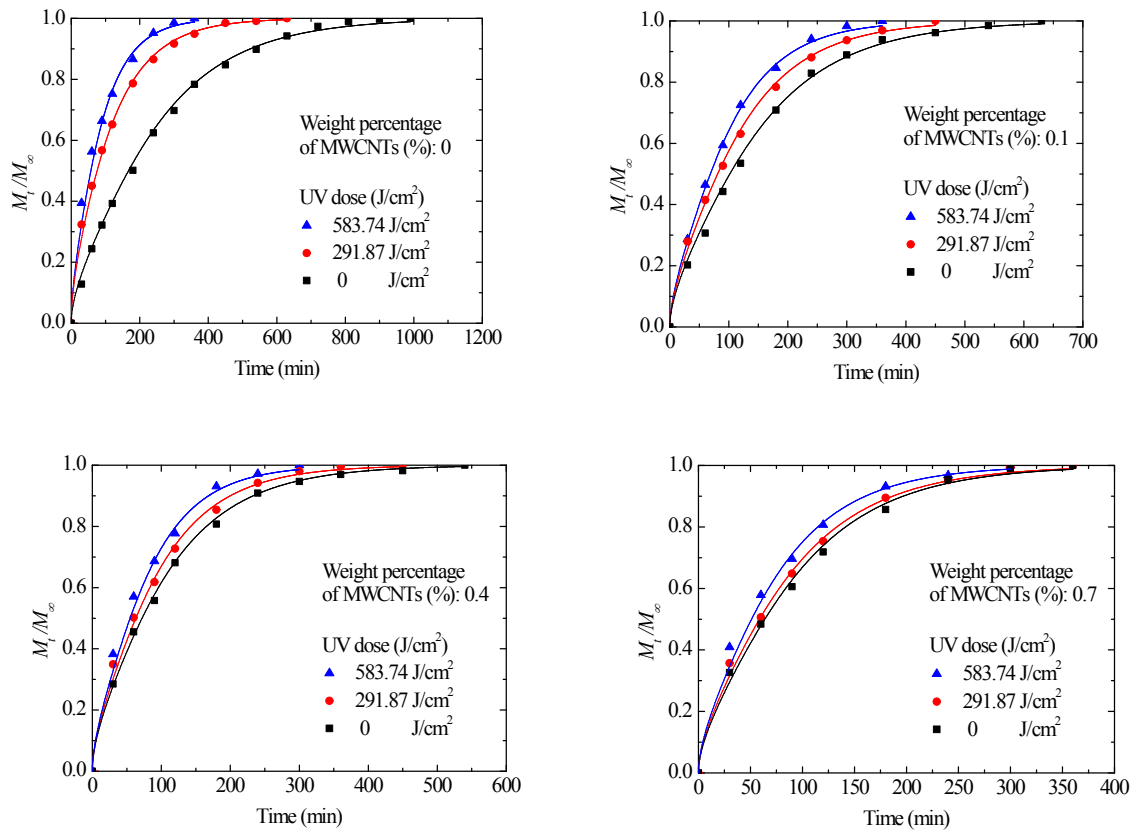


Figure S6. Methanol transport in PMMA and PMMA-WMCNT composites irradiated with UV doses of 0, 291.87 and 583.74 J/cm<sup>2</sup> at 50°C

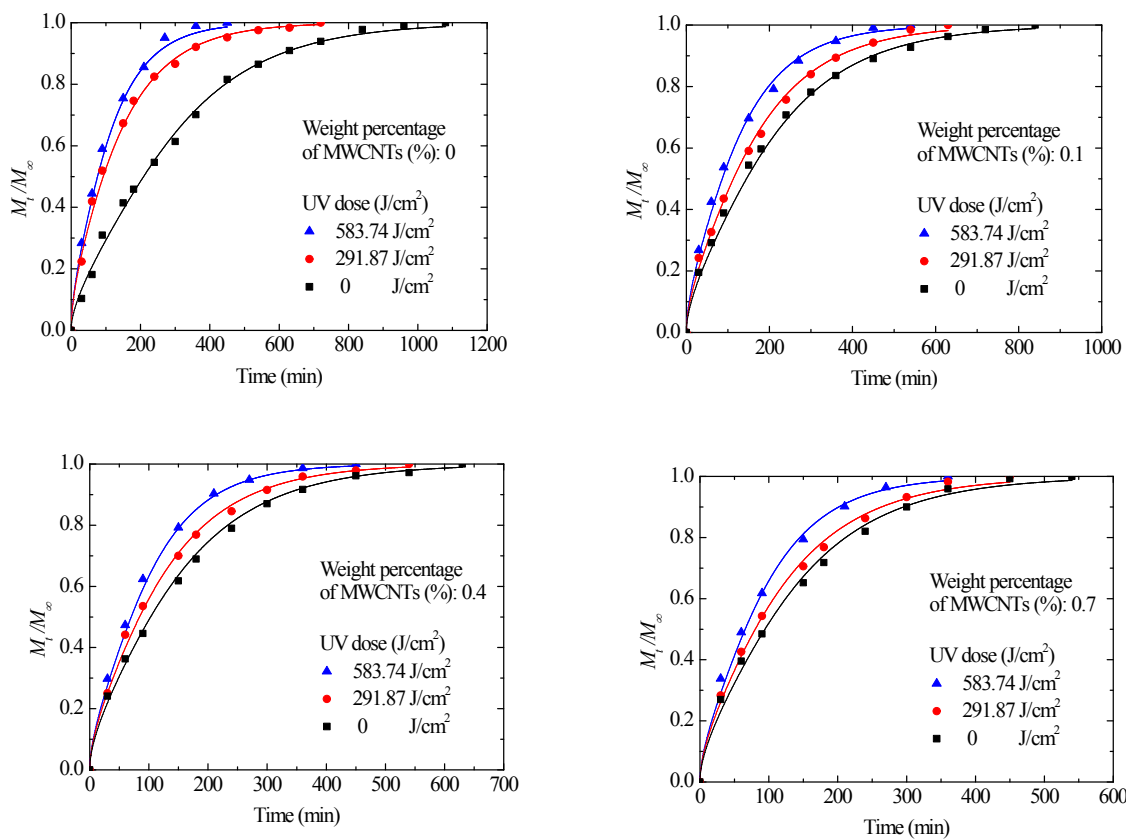


Figure S7. Methanol transport in PMMA and PMMA-WMCNT composites irradiated with UV doses of 0, 291.87 and 583.74 J/cm<sup>2</sup> at 45°C

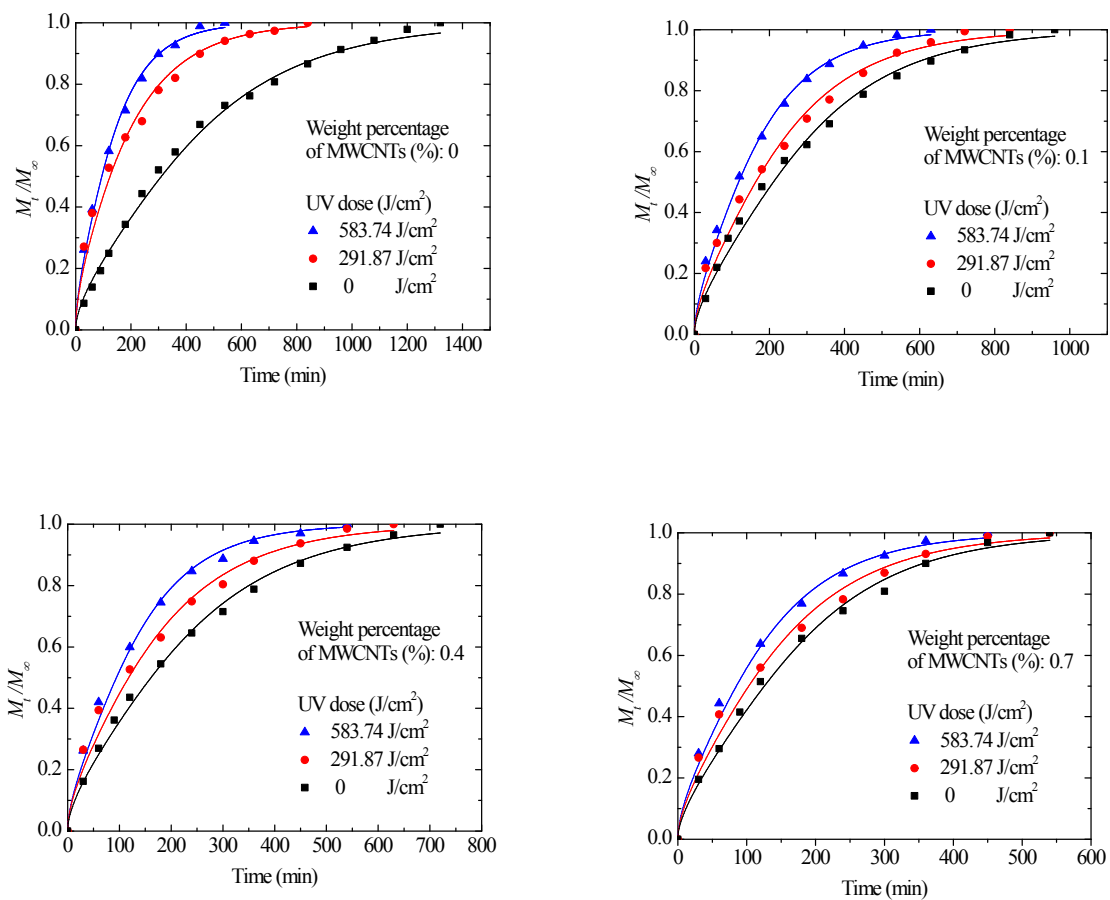


Figure S8. Methanol transport in PMMA and PMMA-WMCNT composites irradiated with UV doses of 0, 291.87 and 583.74  $J/cm^2$  at 40°C

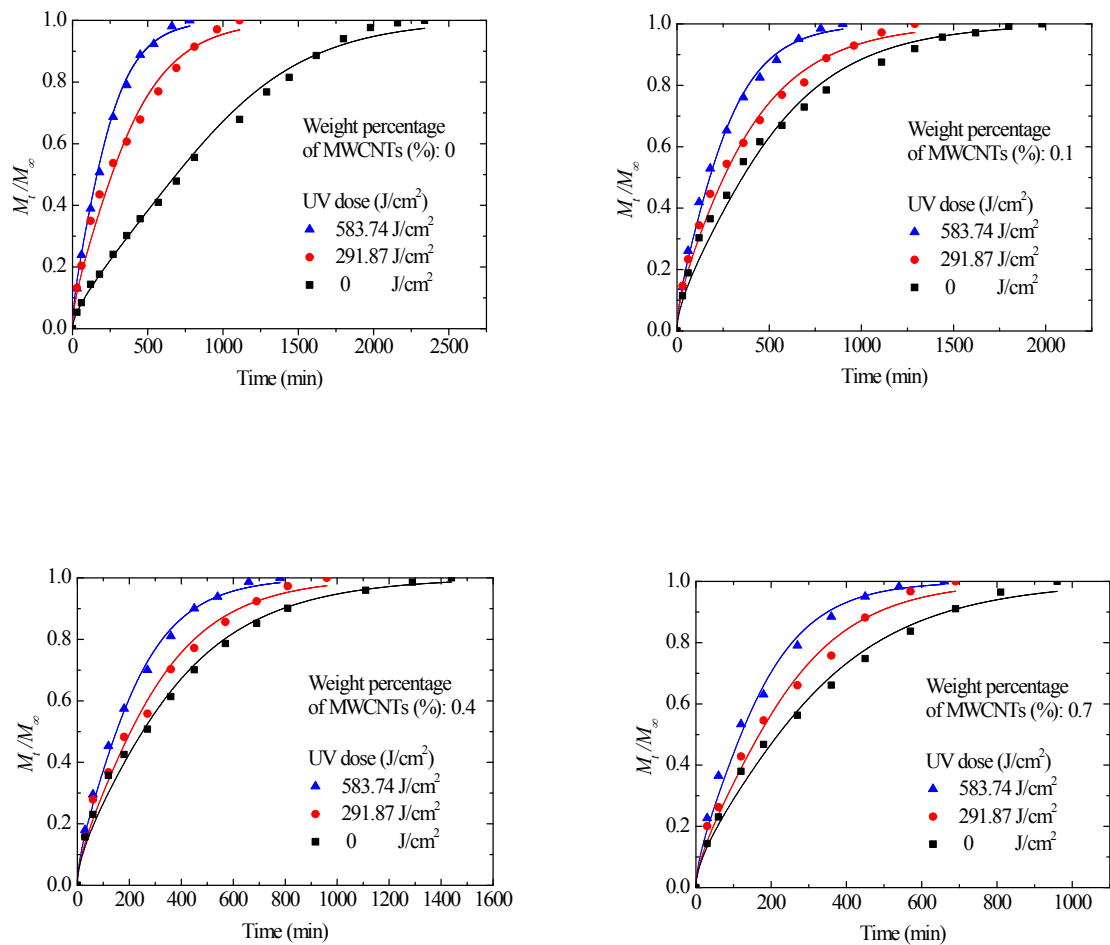


Figure S9. Methanol transport in PMMA and PMMA-WMCNT composites irradiated with UV doses of 0, 291.87 and 583.74 J/cm<sup>2</sup> at 35°C

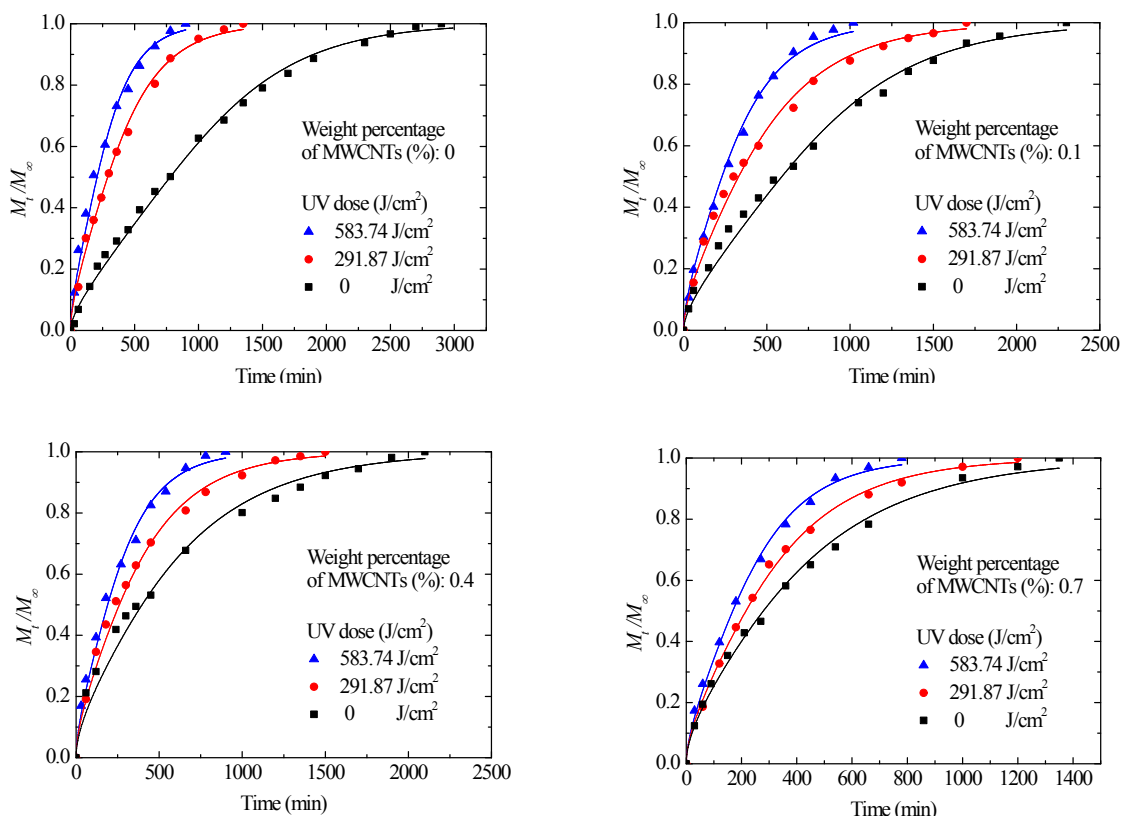
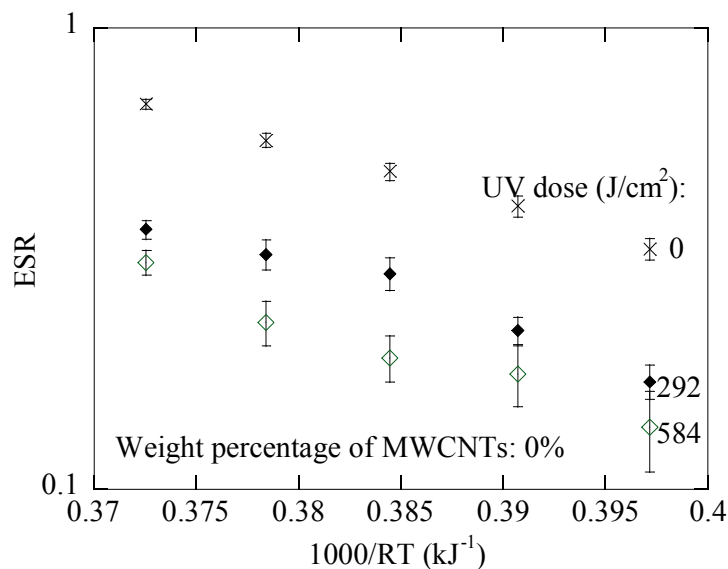
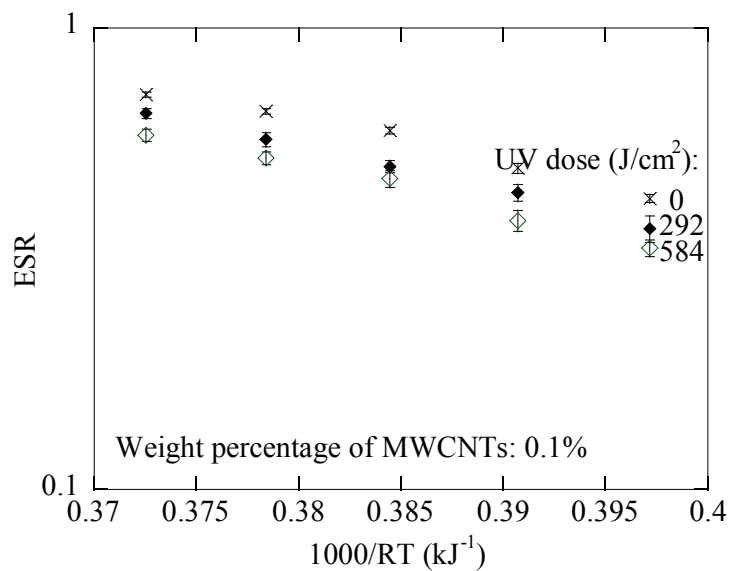


Figure S10. Methanol transport in PMMA and PMMA-WCNT composites irradiated with UV doses of 0, 291.87 and 583.74 J/cm<sup>2</sup> at 30°C

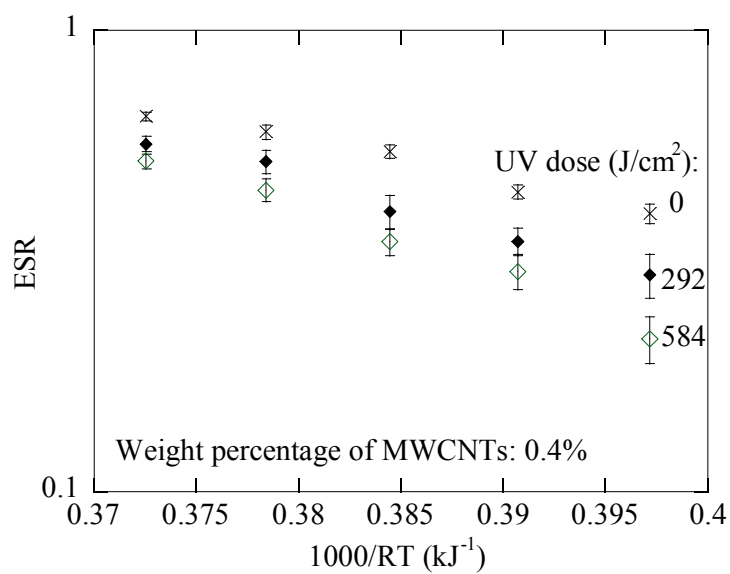


(a)





(b)



(c)

Figure S11. Temperature dependence of ESR for the diffusion of methanol in the PMMA-MWCNT plates with UV irradiation for the weight percentage of, (a) 0% MWCNTs, (b) 0.1% MWCNTs, and (c) 0.4% MWCNTs