

Electronic Supplementary Information (ESI)

High-pairing Rate Janus-structured Microfibers and Array: High-efficiency Conjugate Electrospinning Fabrication, Structure and Coinstantaneous Multifunctionality of Anisotropic Conduction, Magnetism and Enhanced Red Fluorescence

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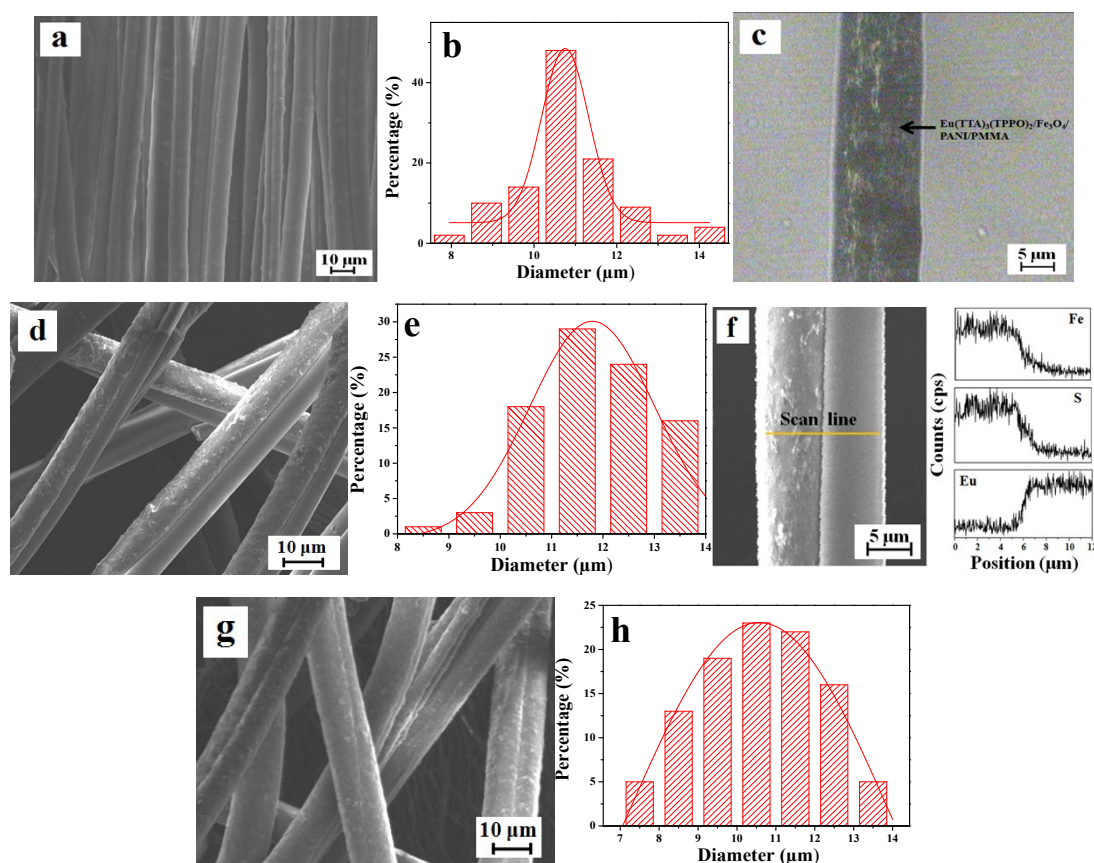


Figure S1 SEM images of composite microfibers array (S11, a), Janus-structured microfibers non-array (S12, d) and composite microfibers non-array (S13, g); histograms of diameter of composite microfibers in array (S11, b), Janus-structured microfibers in non-array (S12, e) and composite microfibers in non-array (S13, h); OM of single composite microfiber (S11, c); EDS line scan analysis of single Janus-structured microfiber in non-array (S12, f)

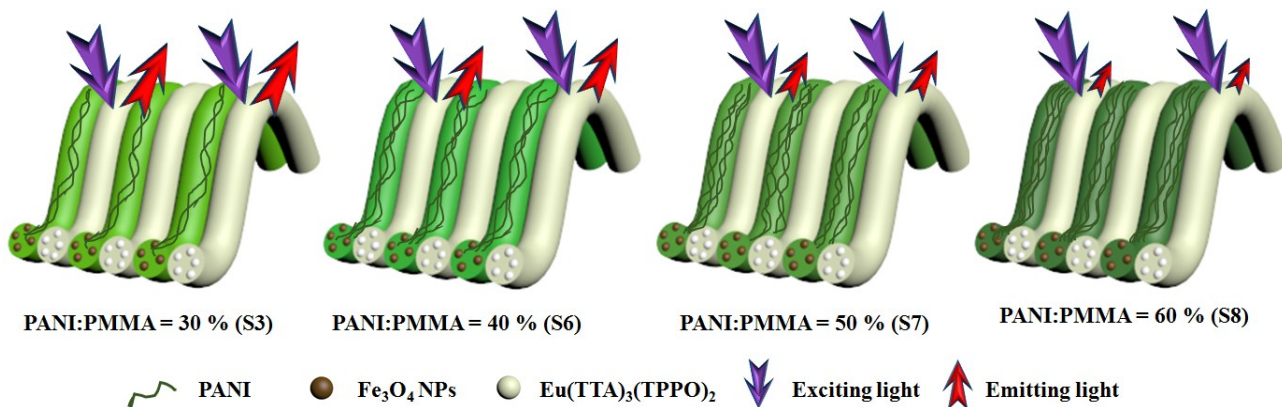


Figure S2 Schematic diagram of the situation of the exciting light and emitting light in Janus-structured microfibers arrays with disparate percentages of PANI

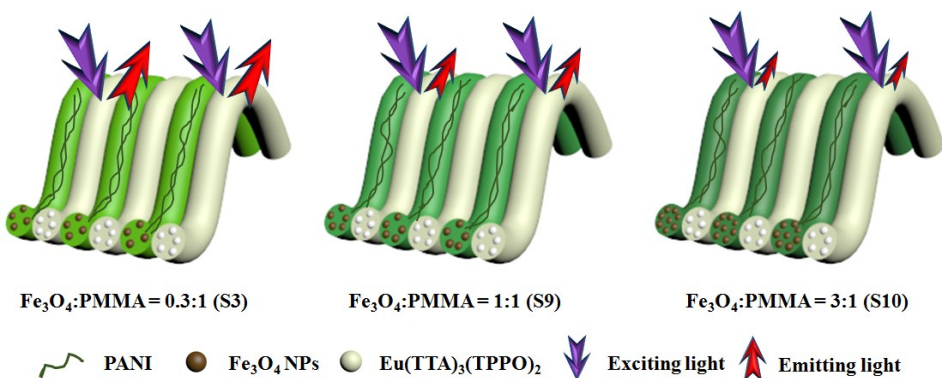


Figure S3 Schematic diagram of the situation of the exciting light and emitting light in Janus-structured microfibers arrays with disparate mass fractions of Fe_3O_4 NPs

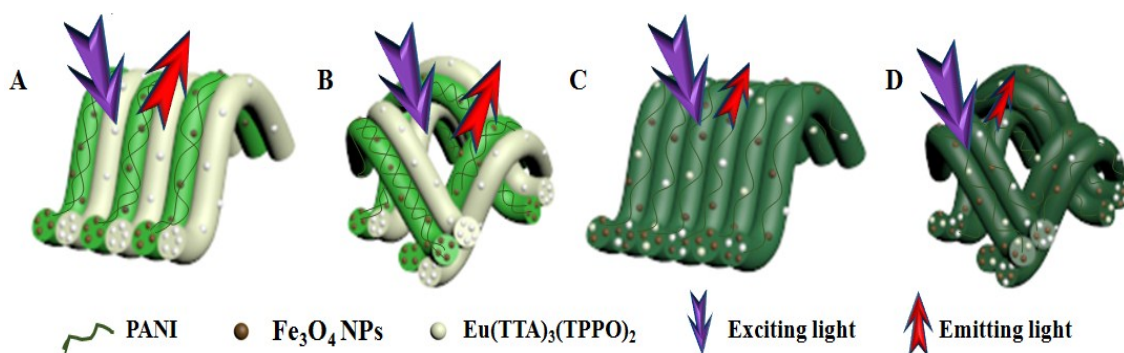


Figure S4 Schematic illustration of the exciting light and emitting light in Janus-structured microfibers array (A) and non-array (B), composite microfibers array (C) and non-array (D)

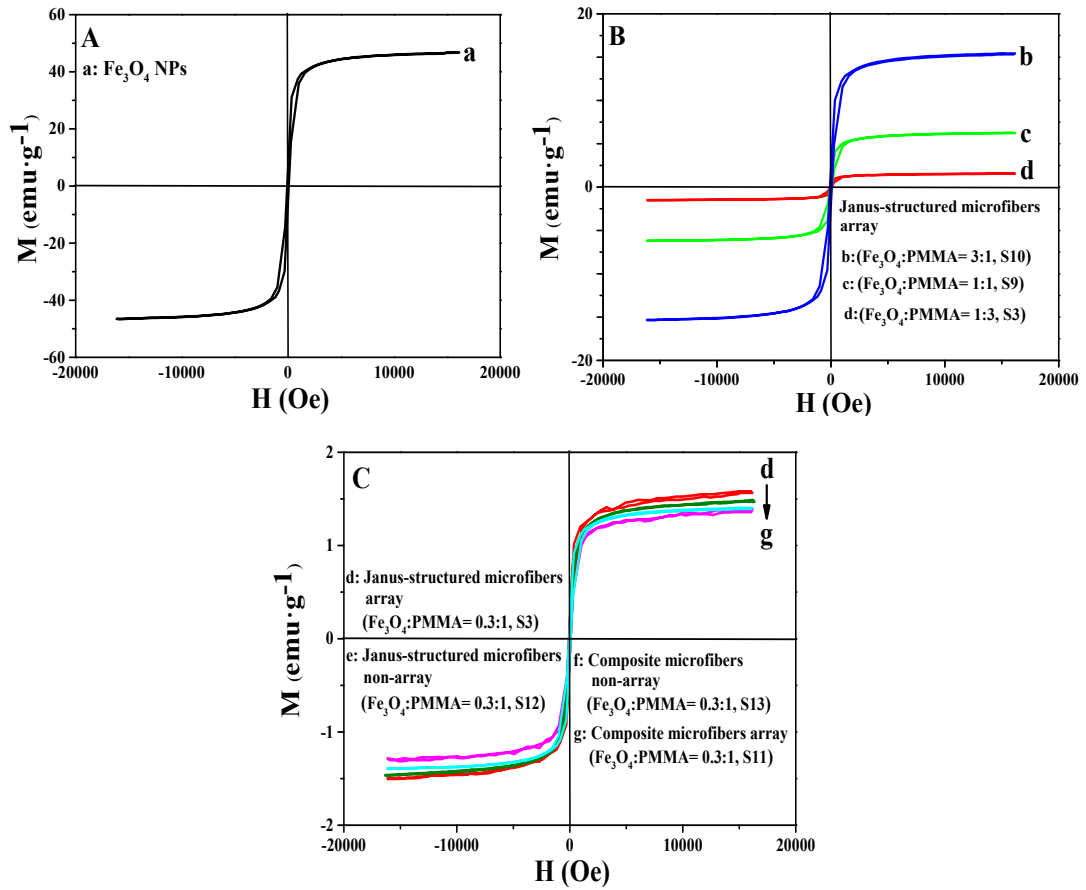


Figure S4 Hysteresis loops of Fe_3O_4 NPs (A), Janus-structured microfibers arrays with various mass ratios of Fe_3O_4 to PMMA (B) and contradistinctive specimens (C)