

SUPPORTING INFORMATION

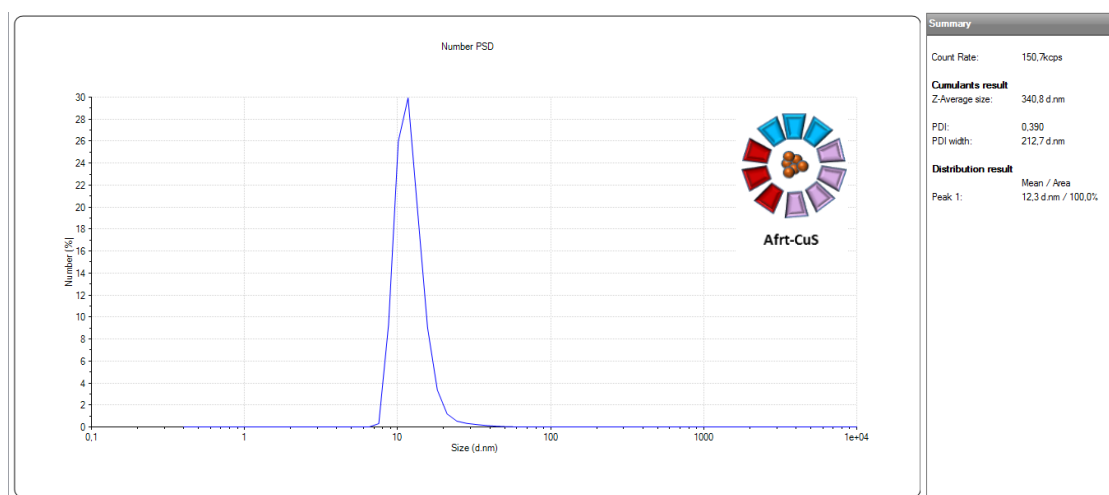
Nanoparticles with PDT and PTT Synergistic Properties Working with Dual NIR-Light Source Simultaneously

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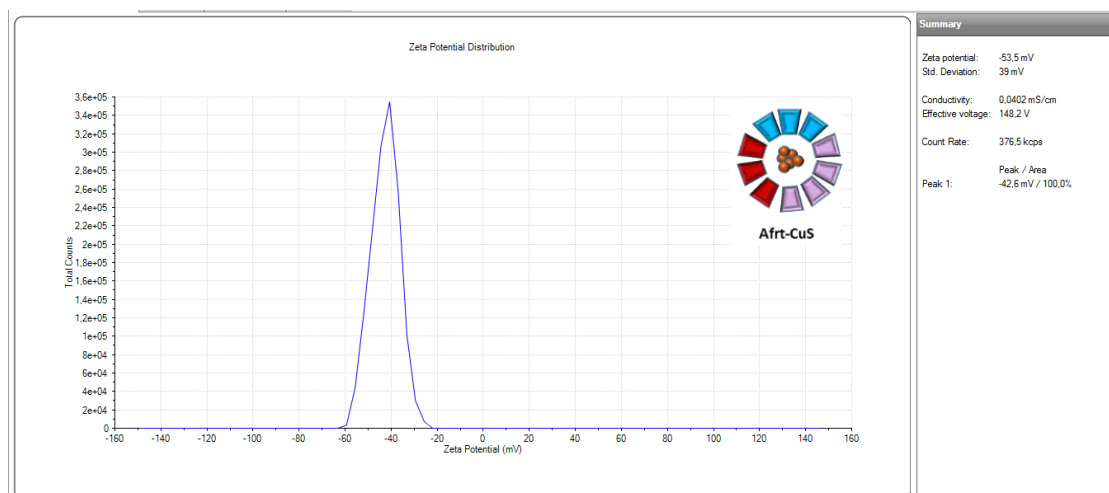
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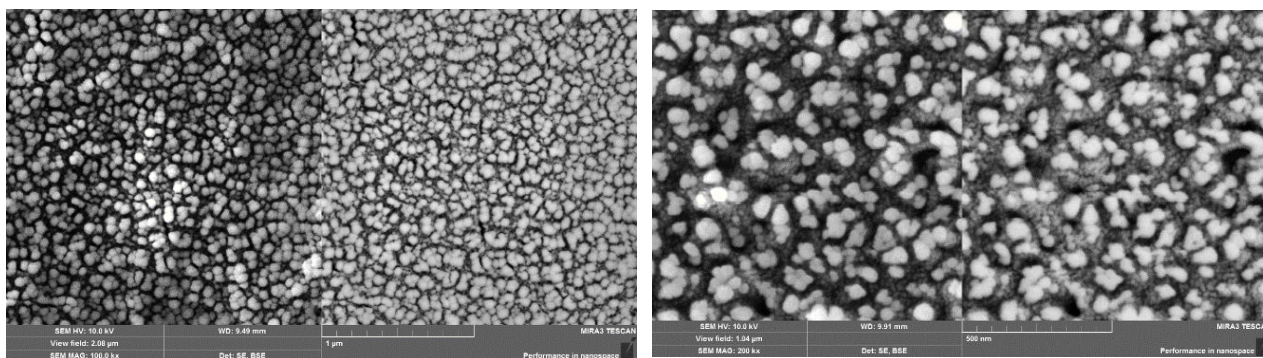
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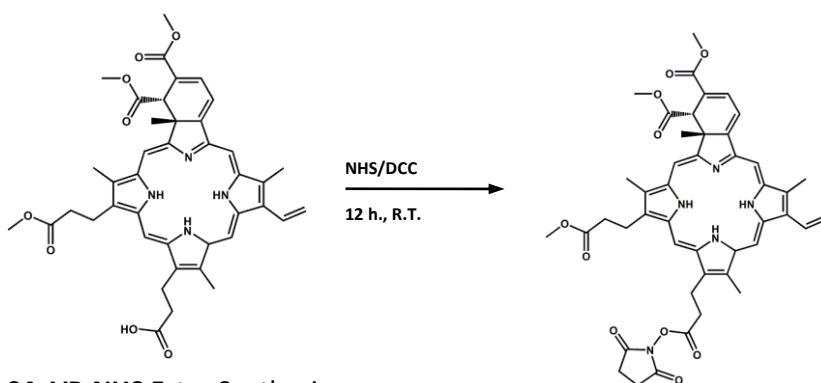
S1. Particle size analysis of Afirt-CuS nanoparticles.



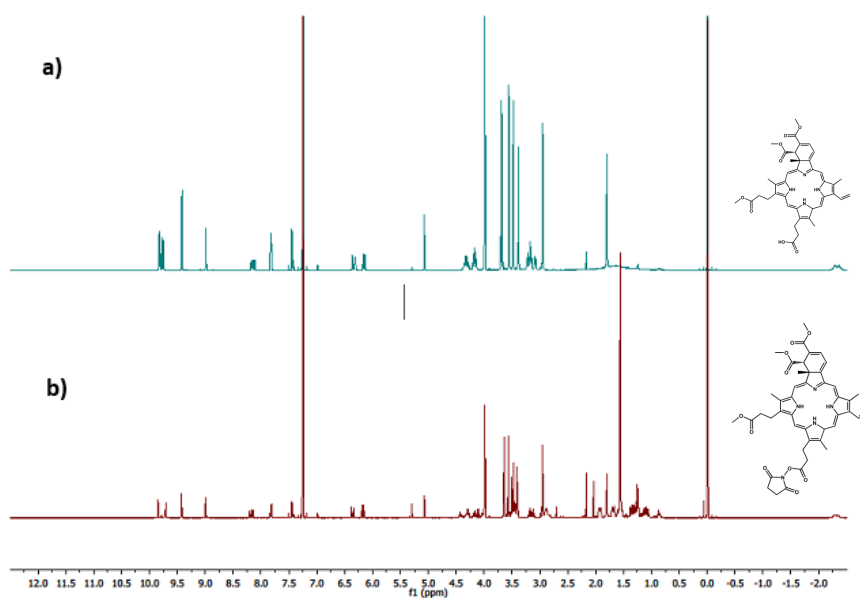
S2. The zeta potential of Afirt-CuS nanoparticles in ultrapure water (pH = 7.0).



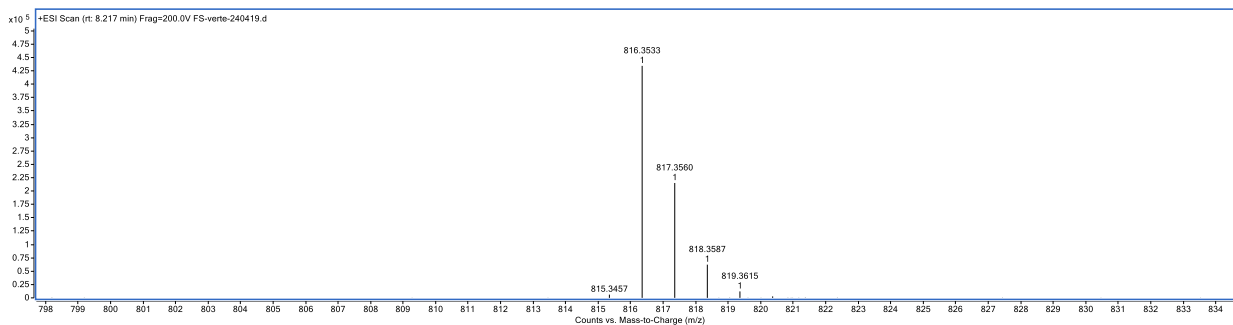
S3. SEM images of **Afrrt-CuS** nanoparticles stained with 2% Uranyl acetate.



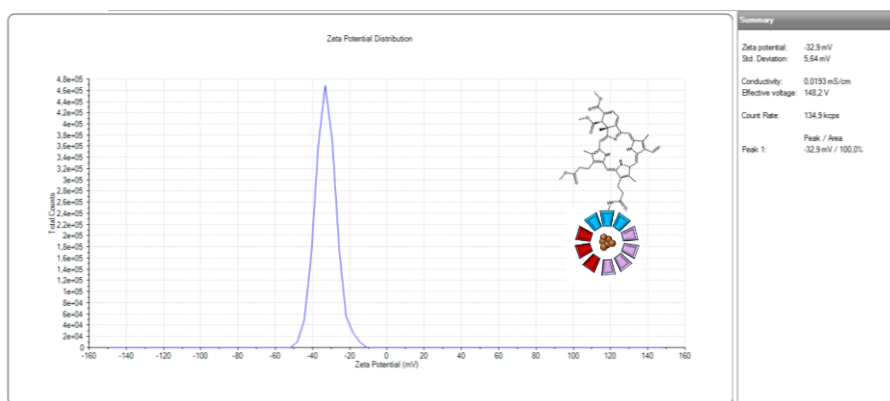
S4. **VP-NHS Ester** Synthesis.



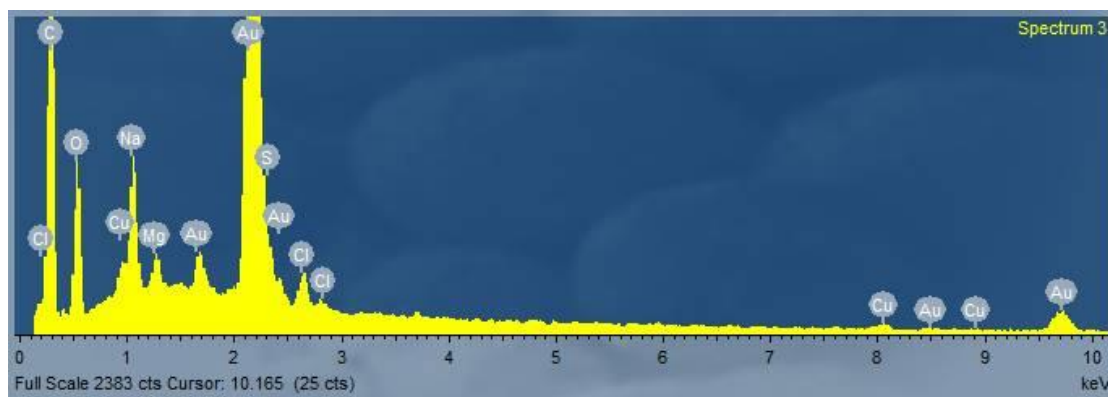
S5. $^1\text{H-NMR}$ spectra of **VP** and **VP-NHS Ester**.



S6. Mass spectrum of **VP-NHS** ester, MS HRMS (TOF-ESI): m/z calculated: 817.3323; found: 817.3560 [M]⁺, $\Delta = 28.99$ ppm.



S7. The zeta potential of **VP-Afrrt-CuS** nanoparticles in ultrapure water (pH = 7.0).



All results in weight%

Spectrum	In stats.	C	O	Na	Mg	S	Cl	Cu	Total
Spectrum 3	Yes	64.21	26.95	3.43	0.67	1.47	1.05	2.22	100.00

S8. SEM/EDX results of **VP-Afrrt-CuS** nanoparticles.