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Supporting Information (SI)

Fabrication of bifunctionalized *Calotropis gigantea* inspired Ag-Cu-Co trimetal oxide for destruction of methylene blue, larvicidal and antibacterial applications

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Histogram

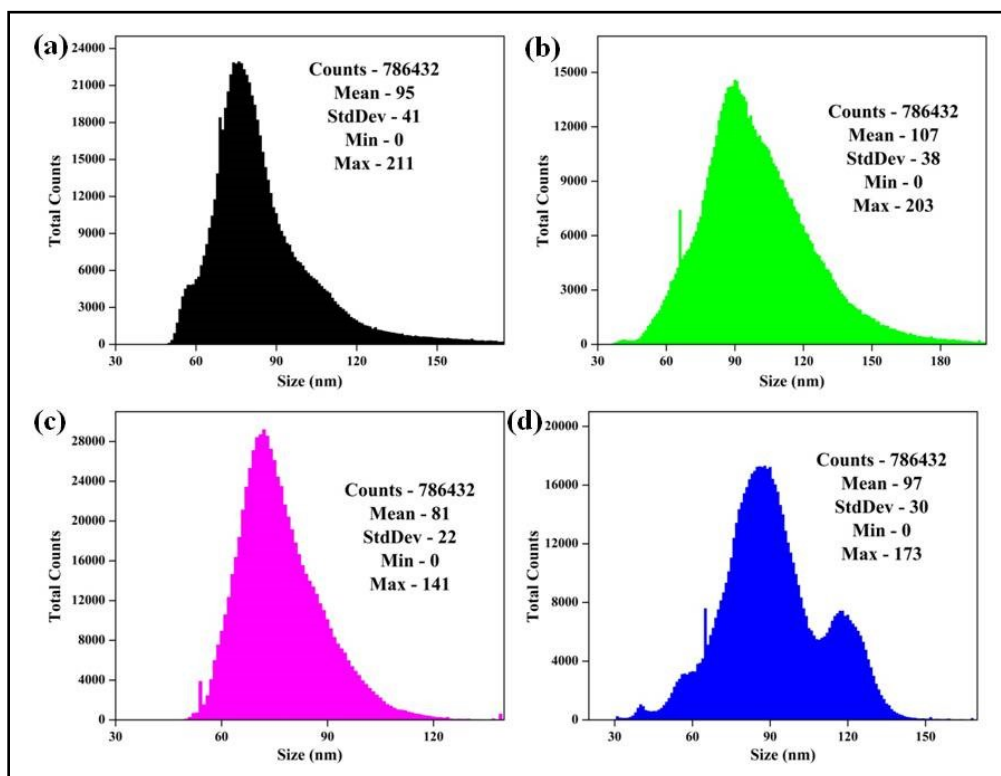


Figure S1 Histogram images for grain size of *C. gigantea*/Ag-Cu-Co oxide

BET Analysis

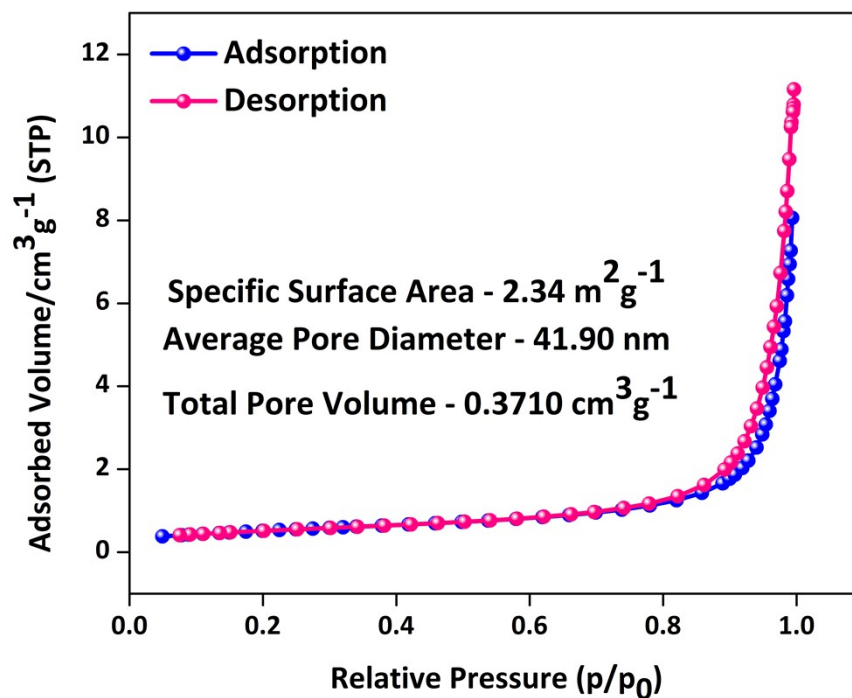


Figure S2 BET plot of *C. gigantea*/Ag-Cu-Co oxide

Table S1 Antibacterial activity of *C. gigantea*/Ag-Cu-Co oxide at different concentrations

Samples	Pathogens	Zone of Inhibition (mm) at concentrations ($\mu\text{g/mL}$)					
		Control	15	30	60	120	240
ACC 1	<i>P. aeruginosa</i>	22	13	16	18	17	21
	<i>E. coli</i>	26	15	18	19	20	24
	<i>B. cereus</i>	26	14	16	17	18	23
	<i>S. aureus</i>	21	11	12	15	17	18
ACC 2	<i>P. aeruginosa</i>	22	12	16	18	19	19
	<i>E. coli</i>	26	14	20	21	23	25
	<i>B. cereus</i>	26	12	16	19	20	23
	<i>S. aureus</i>	21	8	13	16	18	20
ACC 3	<i>P. aeruginosa</i>	22	13	14	18	20	18
	<i>E. coli</i>	26	15	19	20	21	23
	<i>B. cereus</i>	26	12	16	18	20	23
	<i>S. aureus</i>	21	9	13	14	18	19
ACC 4	<i>P. aeruginosa</i>	22	14	16	18	19	22
	<i>E. coli</i>	26	17	20	21	23	25
	<i>B. cereus</i>	26	12	16	19	20	23
	<i>S. aureus</i>	21	10	12	16	19	20

Table S2 % Mortality of of *C. gigantea*/Ag-Cu-Co against 3rd instar larvae of *A.aegypti*

Materials	Exposure Time (Hours)	Concentration	% of mortality
ACC 1	24	5	2.6666±2.30
		10	13.3333±2.30
		15	29.3333±2.30
		20	45.3333±6.11
		25	70.6666±2.30
ACC 1	48	5	9.3333±2.30
		10	24±4
		15	48±4
		20	73.3333±2.30
		25	93.3333±2.30
ACC 2	24	5	2.6666±2.30
		10	14.6666±2.30
		15	30.6666±2.30
		20	52±4
		25	72±4
ACC 2	48	5	10.6666±2.30
		10	33.3333±2.30
		15	56±4
		20	76±4
		25	98.6666±2.30
ACC 3	24	5	5.3333±2.30
		10	16±4
		15	25.3333±2.30
		20	46.6666±2.30
		25	70.6666±2.30
ACC 3	48	5	12±4
		10	32±4
		15	54.6666±2.30
		20	76±4
		25	98.6666±2.30
ACC 4	24	5	6.6666±2.30
		10	16±4
		15	32±4
		20	53.3333±2.30
		25	74.6666±2.30
ACC 4	48	5	12±4
		10	34.6666±6.11
		15	60±4
		20	80±4
		25	100