

Supplementary material for:

Cationic Surfactant-Modified *Tetraselmis* sp. for the Removal of Organic Dyes from Aqueous Solution

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Table S1: Chemical Properties and Characteristics of MO and MB

Generic name	Methyl orange	Methylene blue
Chemical formula	$\text{C}_{14}\text{H}_{14}\text{N}_3\text{NaO}_3\text{S}$	$\text{C}_{16}\text{H}_{18}\text{ClN}_3\text{S}$
Molecular weight ($\text{g}\cdot\text{mol}^{-1}$)	327.33	319.85
Type of dye	Anionic	Cationic
λ_{max} (nm)	465	664

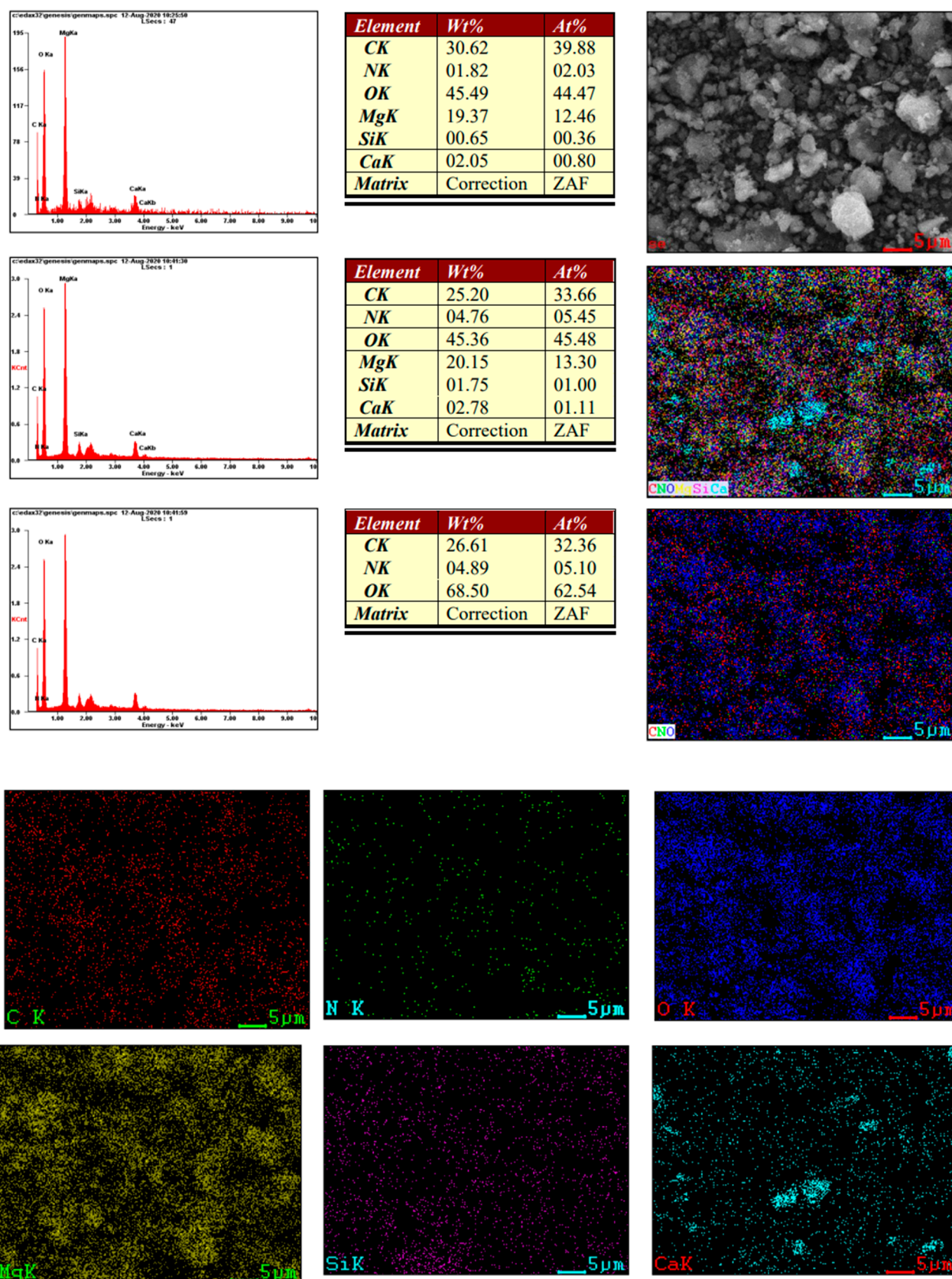
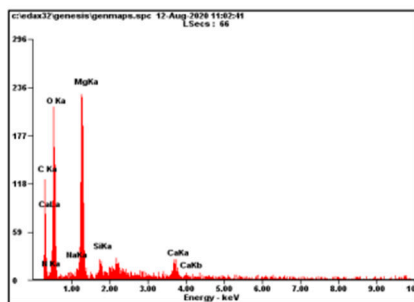
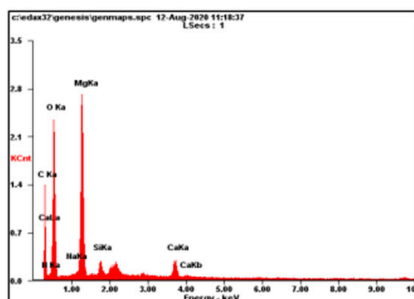
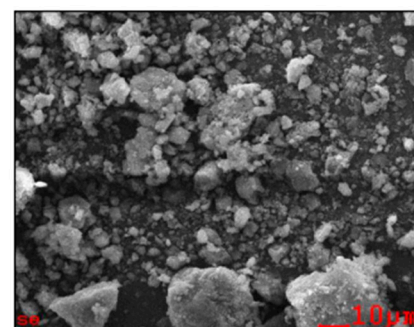


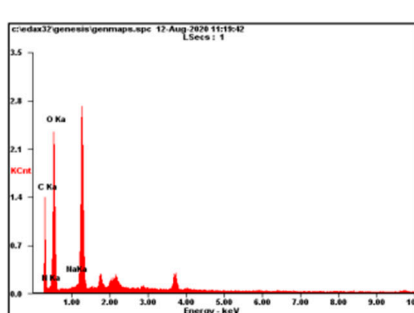
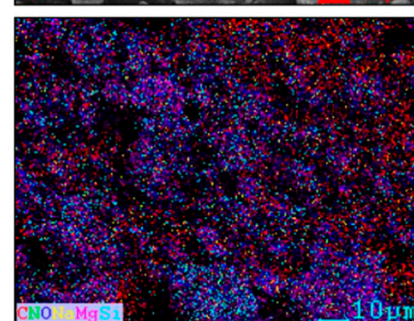
Figure S1: Element mapping by SEM/EDX of Tetra-Alg.



Element	Wt%	At%
CK	21.78	29.89
NK	01.90	02.23
OK	48.38	49.85
NaK	00.55	00.40
MgK	22.59	15.32
SiK	01.91	01.12
CaK	02.88	01.19
Matrix	Correction	ZAF



Element	Wt%	At%
CK	24.42	33.34
NK	01.07	01.25
OK	46.13	47.28
NaK	01.05	00.75
MgK	21.87	14.75
SiK	02.22	01.30
CaK	03.24	01.32
Matrix	Correction	ZAF



Element	Wt%	At%
CK	31.47	37.81
NK	06.54	06.74
OK	60.35	54.42
NaK	01.64	01.03
Matrix	Correction	ZAF

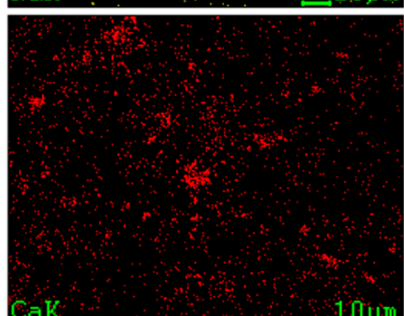
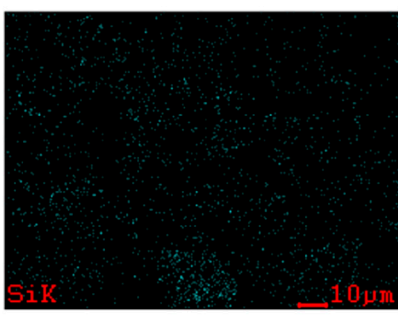
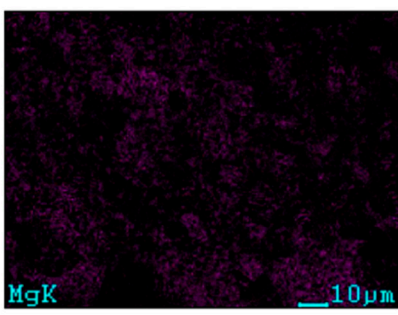
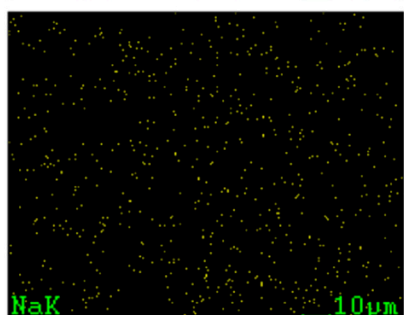
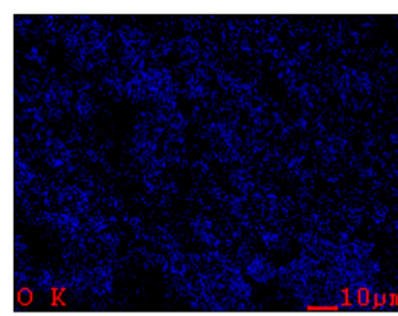
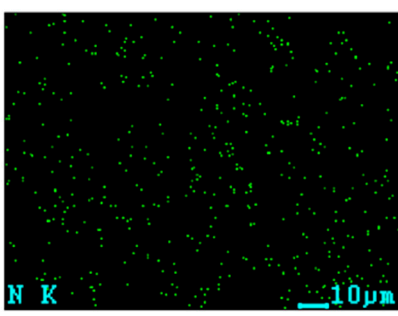
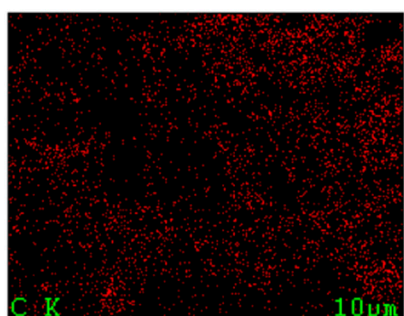
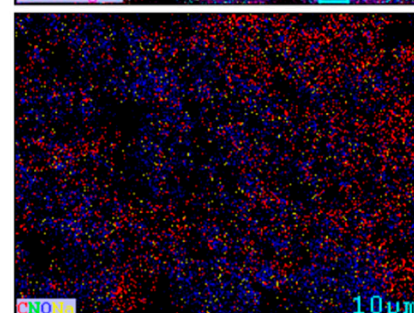
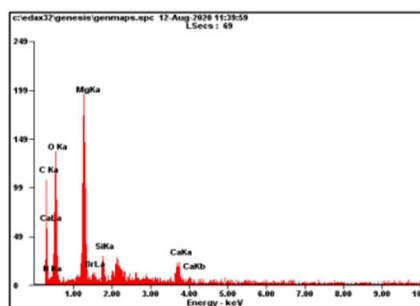
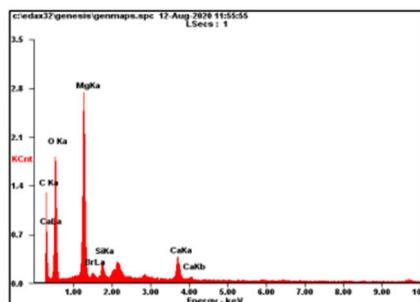
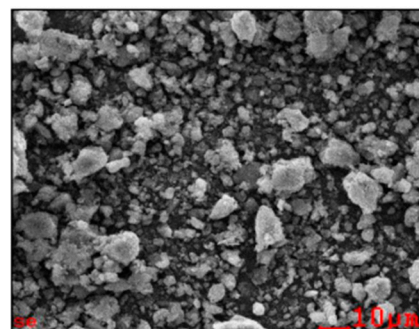


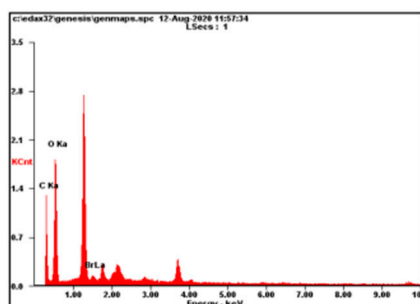
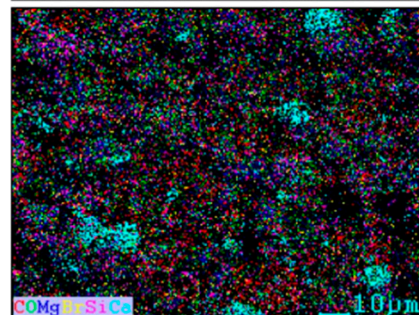
Figure S2: Element mapping by SEM/EDX of Tetra-Alg-Na



Element	Wt%	At%
CK	28.86	39.22
NK	00.00	00.00
OK	42.38	43.24
MgK	21.69	14.56
BrL	01.47	00.30
SiK	02.29	01.33
CaK	03.31	01.35
Matrix	Correction	ZAF



Element	Wt%	At%
CK	25.63	35.90
OK	42.81	45.01
MgK	22.05	15.26
BrL	02.95	00.62
SiK	02.58	01.54
CaK	03.99	01.68
Matrix	Correction	ZAF



Element	Wt%	At%
CK	38.79	46.86
OK	57.94	52.55
BrL	03.26	00.59
Matrix	Correction	ZAF

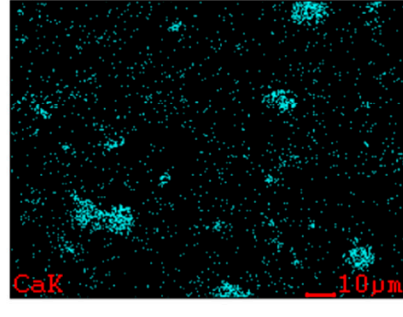
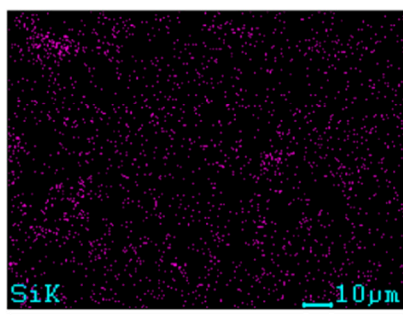
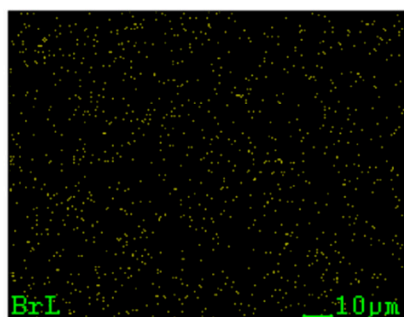
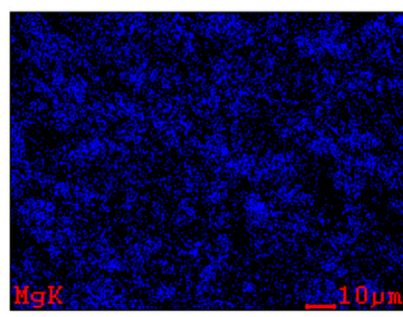
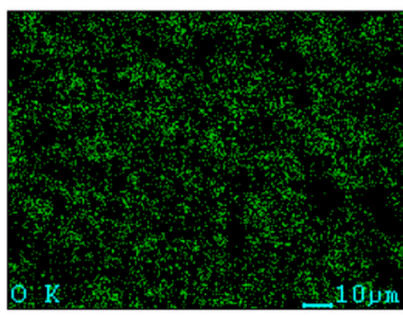
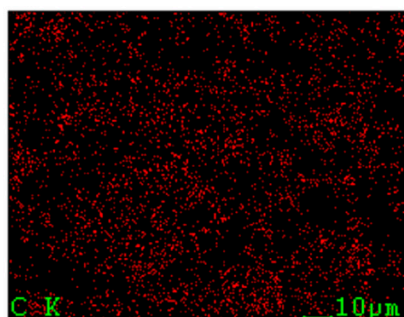
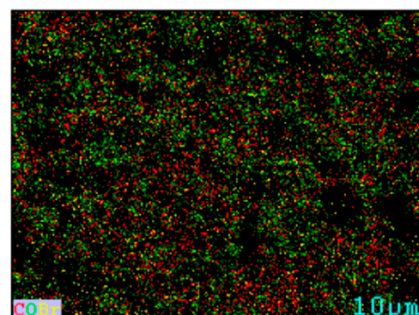


Figure S3: Element mapping by SEM/EDX of Tetra-Alg-CTAB.