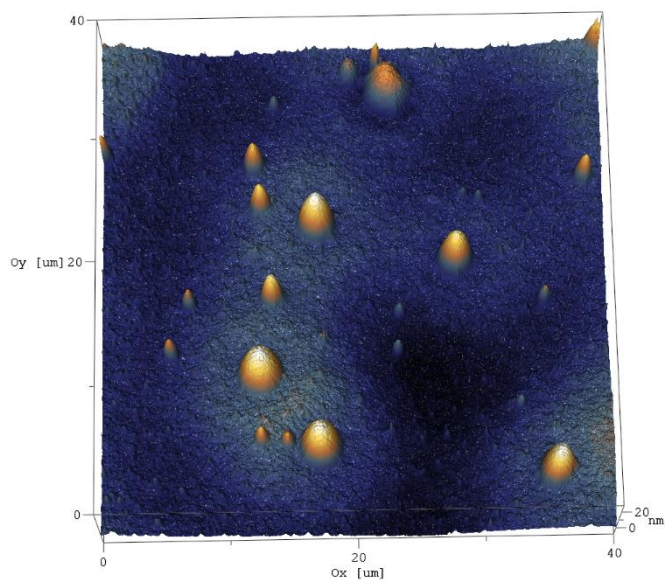
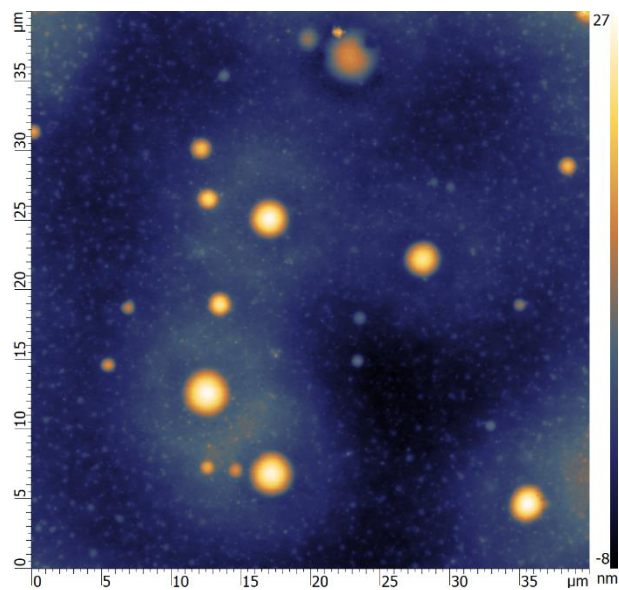
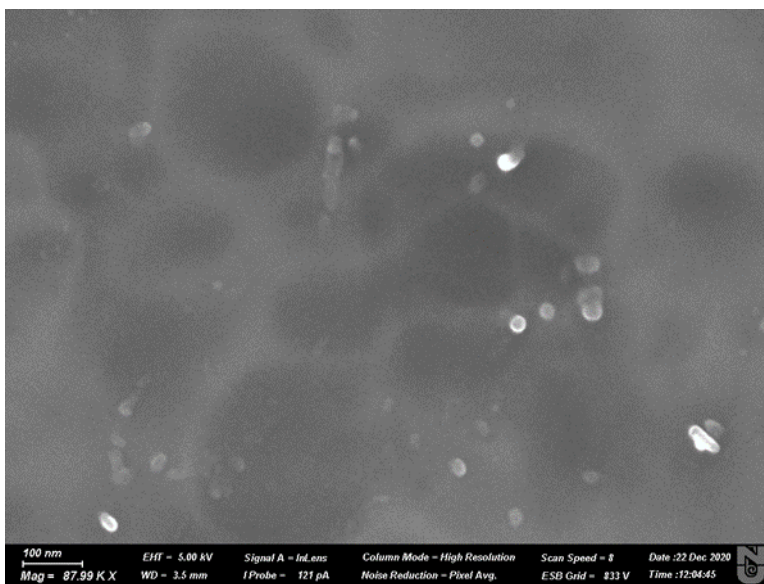


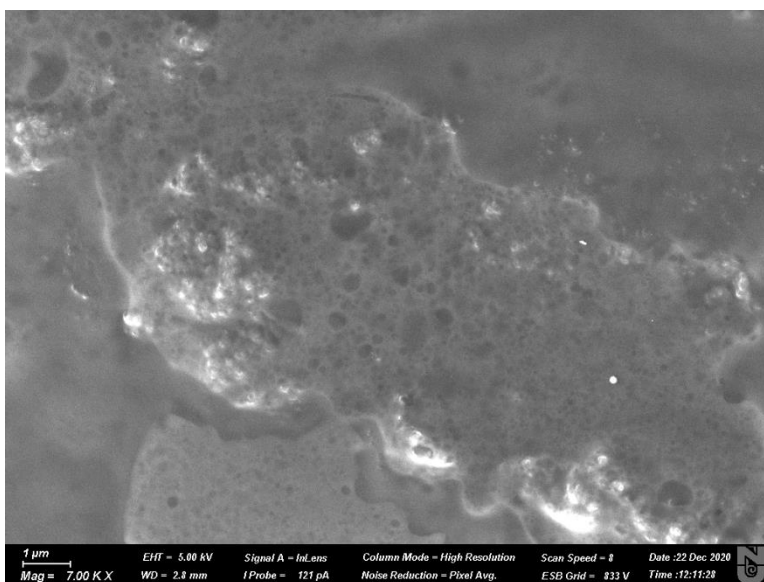
Element	Line	Mass%	Atom%
C	K	44.52 ± 0.03	52.19 ± 0.04
O	K	53.24 ± 0.08	46.85 ± 0.07
Na	K	0.11 ± 0.01	0.07 ± 0.00
Mg	K	0.10 ± 0.00	0.06 ± 0.00
Al	K	0.33 ± 0.01	0.17 ± 0.00
Si	K	0.14 ± 0.00	0.07 ± 0.00
P	K	0.15 ± 0.00	0.07 ± 0.00
S	K	0.16 ± 0.00	0.07 ± 0.00
Cl	K	0.25 ± 0.00	0.10 ± 0.00
K	K	0.77 ± 0.01	0.28 ± 0.00
Ca	K	0.23 ± 0.00	0.08 ± 0.00
Total		100.00	100.00
Map_001_wholespectrum		Fitting ratio 0.0057	



AFM images for fresh RP

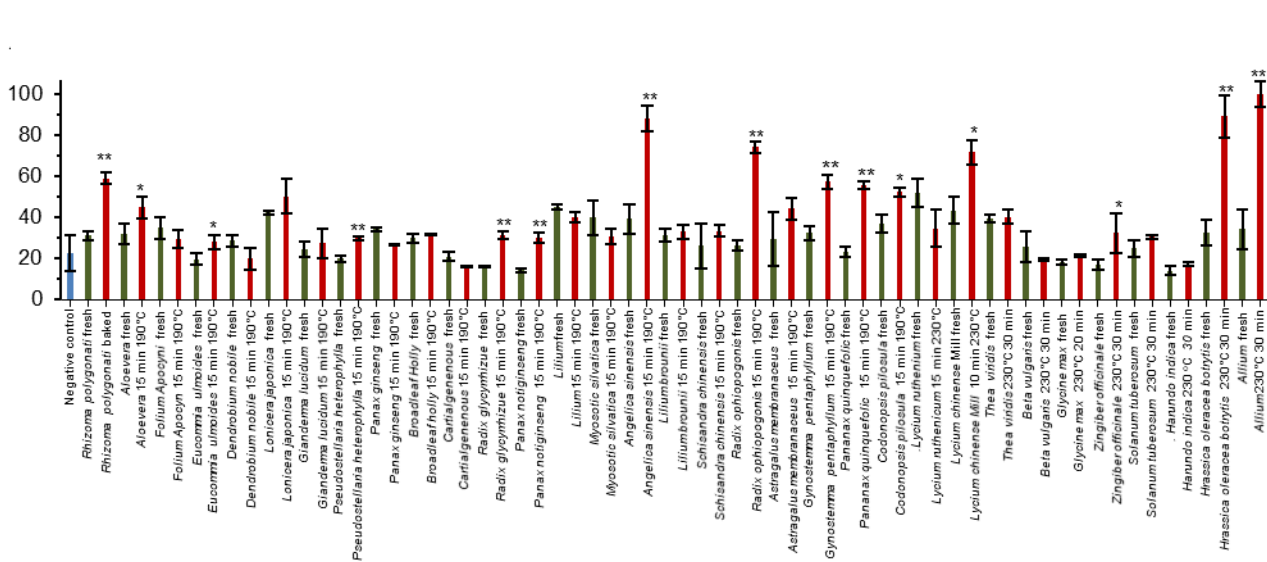


a. SEM image of RP nano

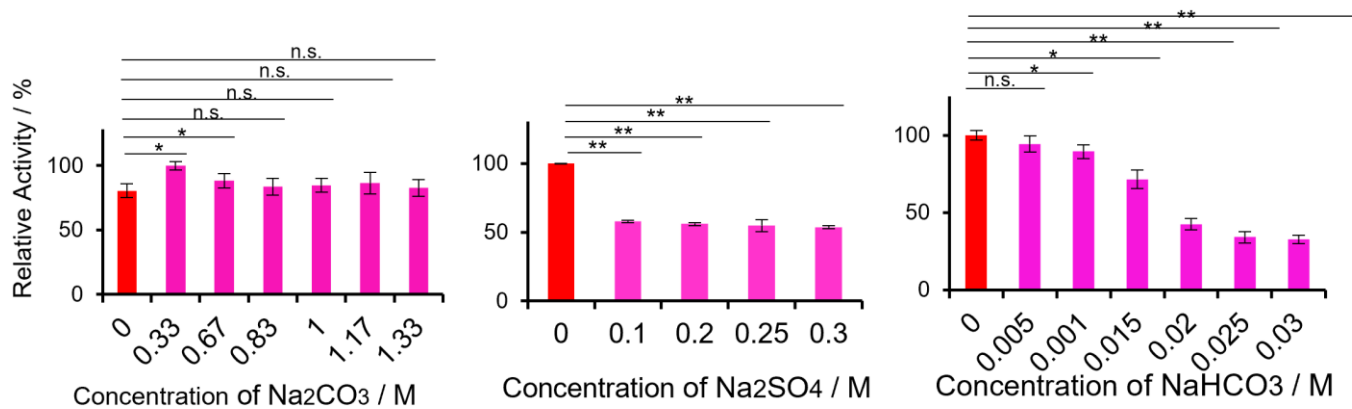


b. SEM image of RP micro

Relative activity / %

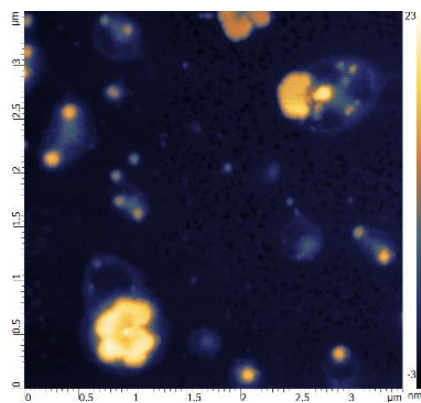


PL activity tests of 33 herbal species with NBT/BCIP substrate at pH 13 (the concentration of herbs: 2.5 mg/mL);



Chemical effect on RP phosphatase activity

RP binds DNA



Images of RP binds DNA, supplementary to Fig. 6c.