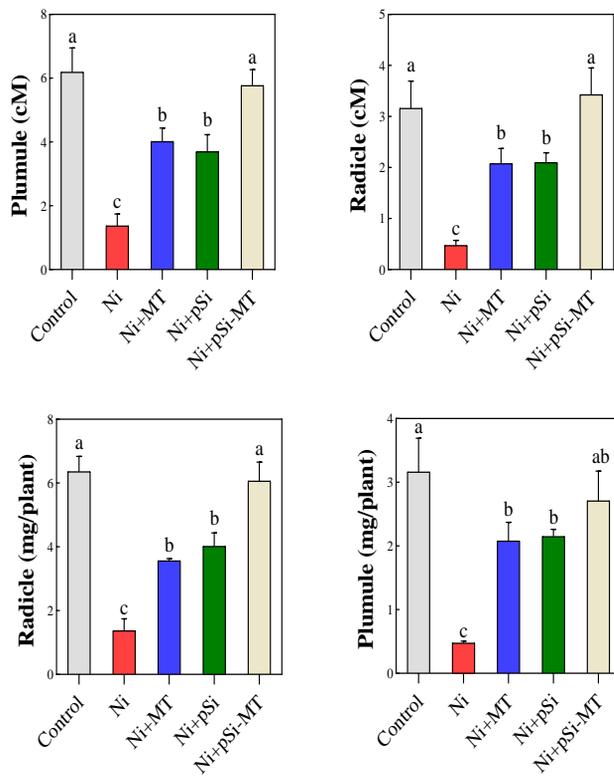


**Figure S1** Detection of the optimal concentrations for porous silicon (pSi)-melatonin (MT) treatments on germination performance under nickel stress. (a) Effects of different concentrations of MT on the germination rates under Ni stress. (b) Effects of different concentrations of MT combined with pSi on the germination rates under Ni stress.



**Figure S2** Effects of nanocomposites of porous silicon (pSi)-melatonin (MT) treatments on germination performance under nickel stress. Radicle and plumule length, dry weights of radicles and plumules, were examined at 7 days after imbibition (DAI) under Ni stress.