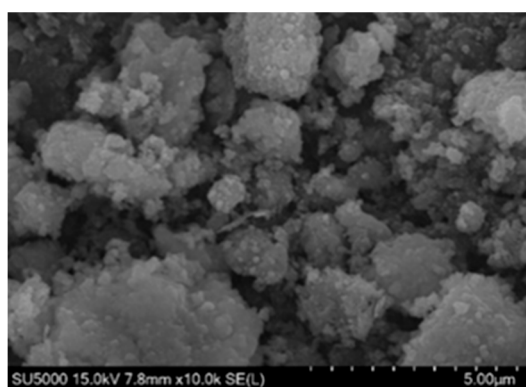


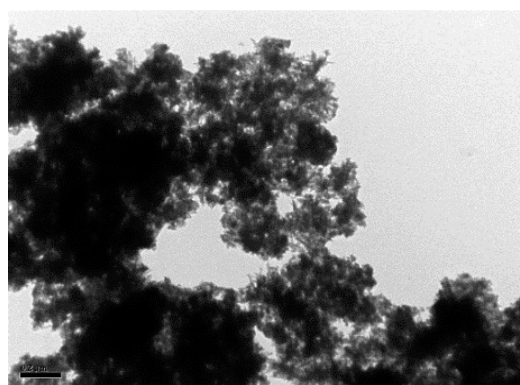
Supporting Information

Table S1. Variation of solution pH in the process of PCA degradation by PDS catalyzed with MnFe_2O_4

t (min)	0	30	60	90	120	180	240
pH = 3	3.00	3.72±0.01	3.81±0.01	3.88±0.01	3.91±0.01	3.94±0.01	3.93±0.01
pH = 5	5.00	3.94±0.01	3.95±0.01	4.00±0.01	4.04±0.01	4.08±0.01	4.13±0.01
pH = 7	7.00	4.00±0.01	3.99±0.01	4.04±0.01	4.08±0.01	4.15±0.01	4.16±0.01
pH = 9	9.00	3.99±0.01	3.97±0.01	3.99±0.01	4.03±0.01	4.13±0.01	4.14±0.01
pH = 11	11.00	10.42±0.01	10.38±0.01	10.40±0.01	10.35±0.01	10.32±0.10	10.25±0.01



(a)



(b)

Figure S1. SEM image (a) and TEM image (b) of MnFe_2O_4 material

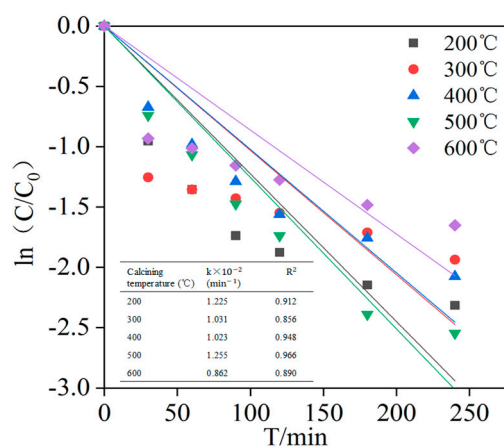


Figure S2. The quasi-first-order dynamic model of PCA removal at different calcination temperature in the $\text{MnFe}_2\text{O}_4/\text{PDS}$ systems

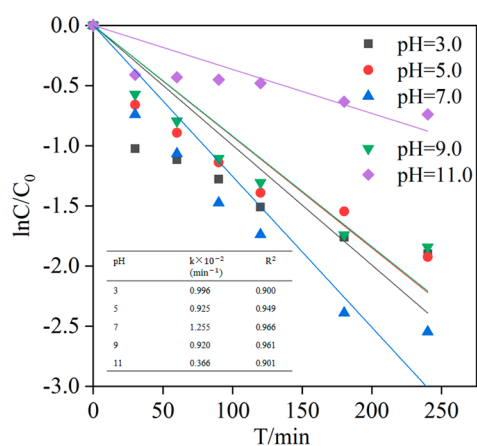


Figure S3. The quasi-first-order dynamic model of PCA removal at different pH in the $\text{MnFe}_2\text{O}_4/\text{PDS}$ systems

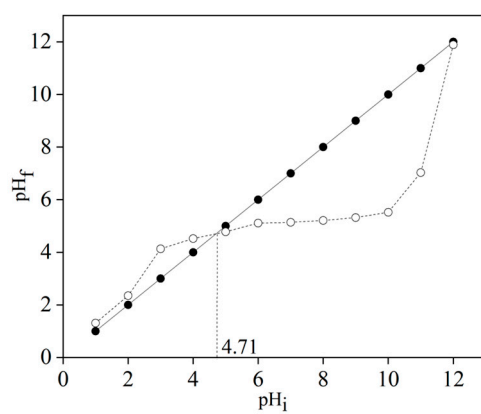


Figure S4. pH_{pzc} of MnFe_2O_4 , 500°C

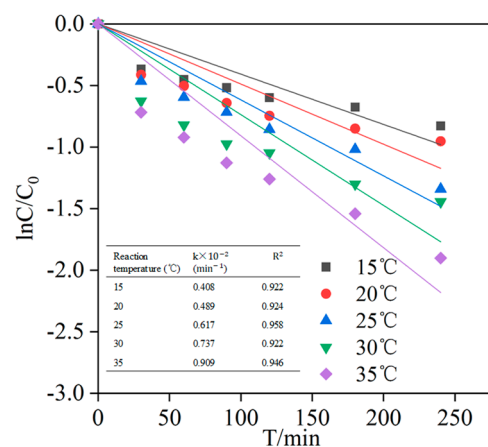


Figure S5. The quasi-first-order dynamic model of PCA removal at different temperature in the $\text{MnFe}_2\text{O}_4/\text{PDS}$ systems

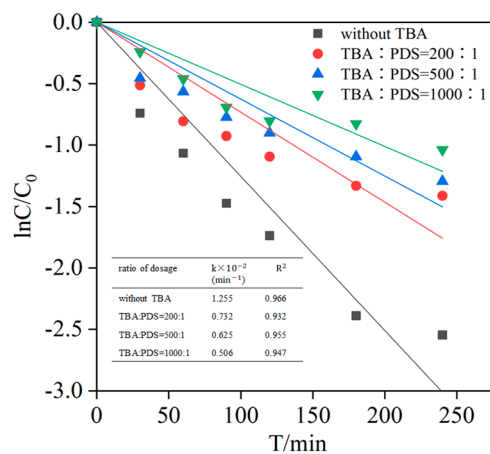


Figure S6. The quasi-first-order dynamic model of PCA removal by adding TBA in the $\text{MnFe}_2\text{O}_4/\text{PDS}$ systems

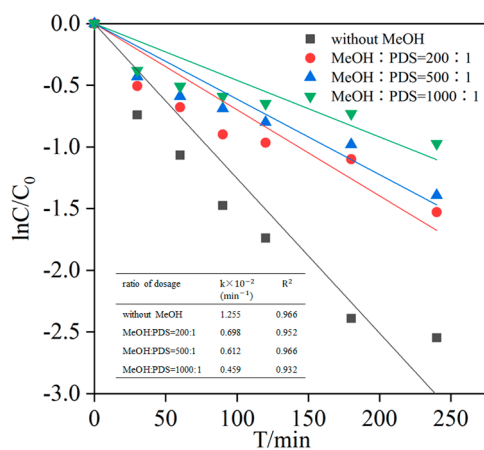


Figure.S7. The quasi-first-order dynamic model of PCA removal at by adding MeOH in the $\text{MnFe}_2\text{O}_4/\text{PDS}$ systems

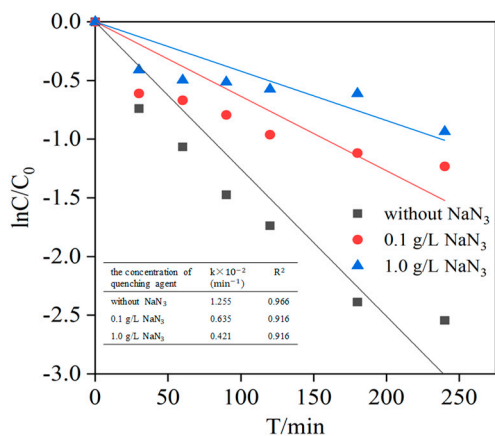


Figure.S8. The quasi-first-order dynamic model of PCA removal by adding NaN_3 in the $\text{MnFe}_2\text{O}_4/\text{PDS}$ systems