Electronic Supporting Information

Development of $SrTiO_3$ photocatalysts with visible light response using amino acids as dopant sources for the degradation of organic pollutants in aqueous systems

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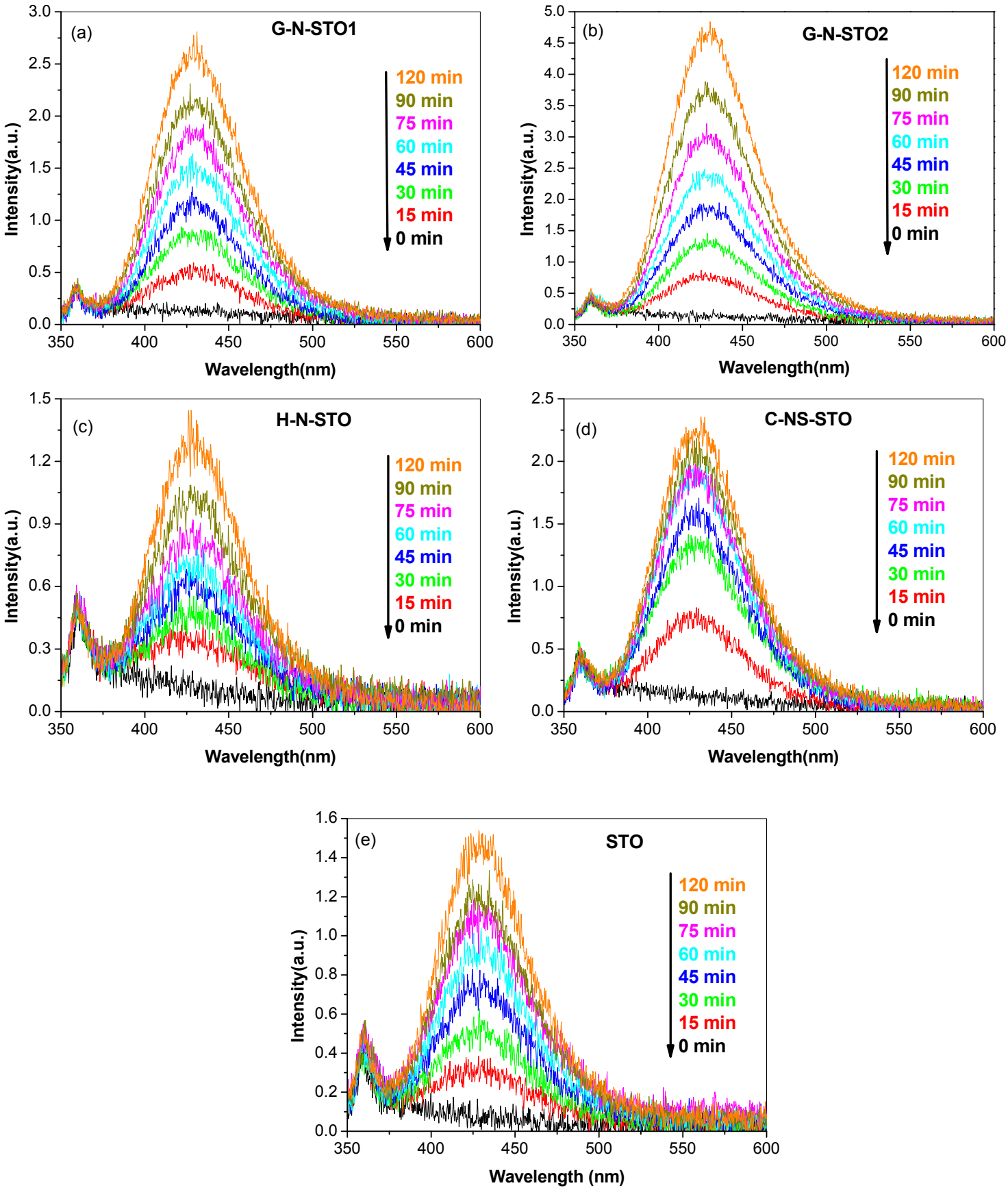
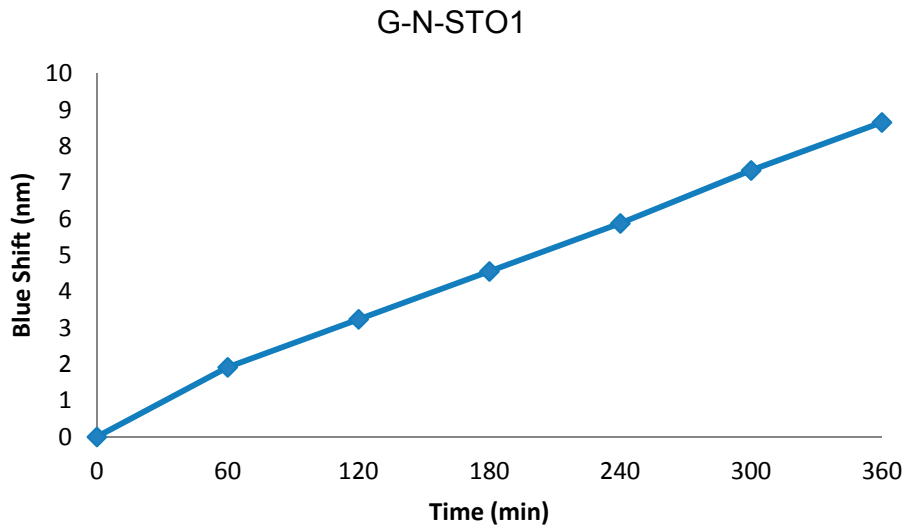
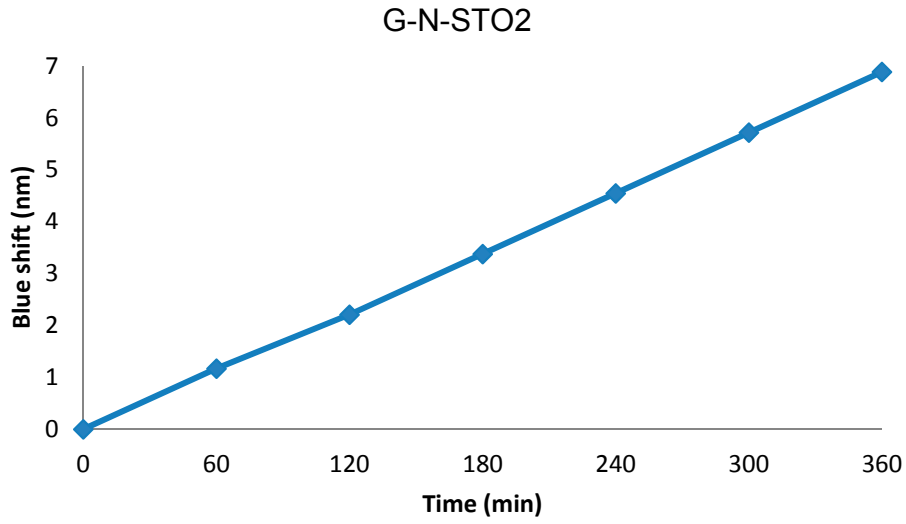
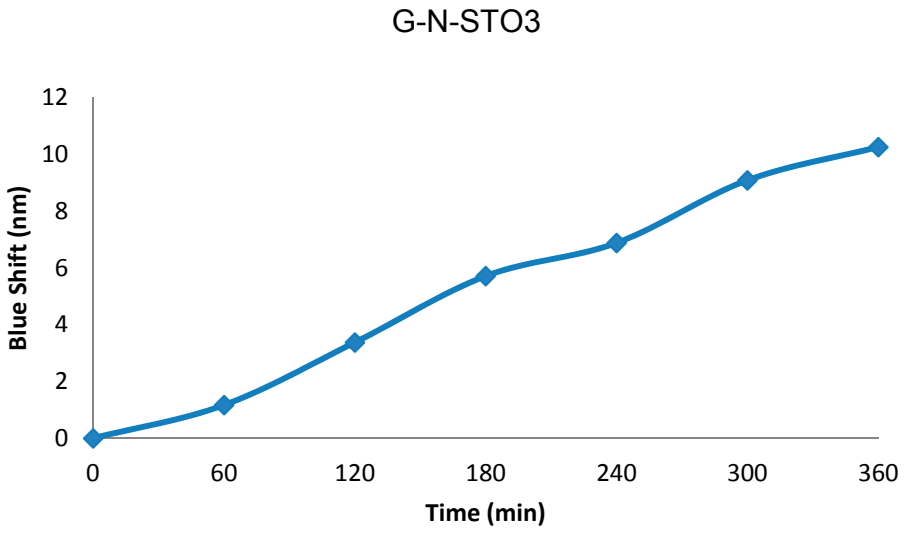
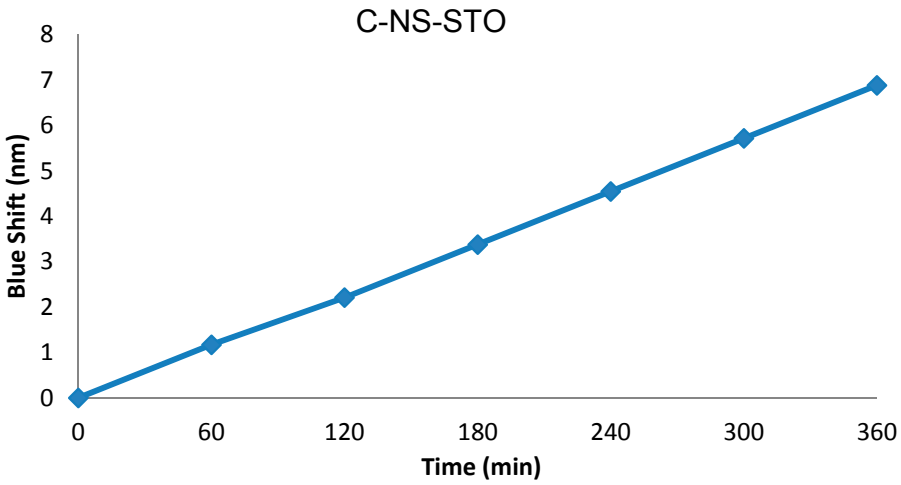


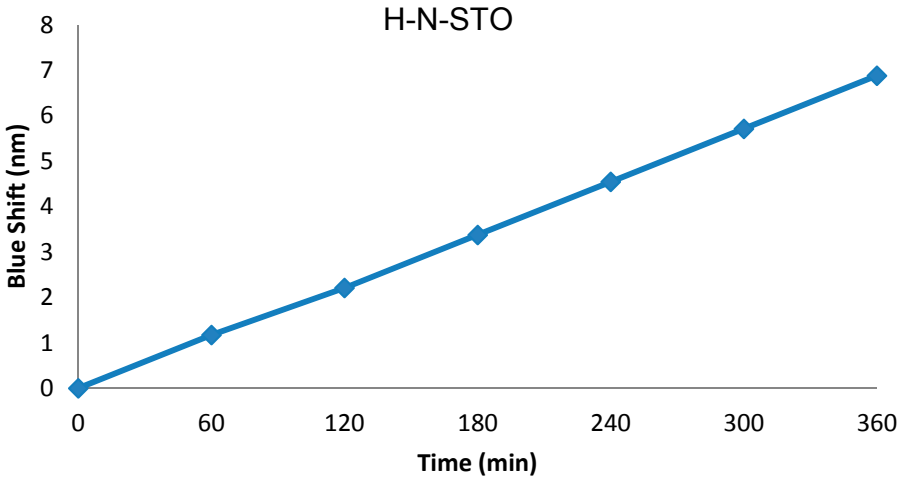
Figure S1. Fluorescence spectra after 120 min of irradiation of (a) G-N-STO1, (b) G-N-STO2, (c) H-N-STO, (d) C-NS-STO, (e) STO


G-N-STO1
Blue Shift (nm)
10
9
8
7
6
5
4
3
2
1
0
0
60
120
180
240
300
360
Time (min)


G-N-STO2
Blue shift (nm)
7
6
5
4
3
2
1
0
0
60
120
180
240
300
360
Time (min)


G-N-STO3
Blue Shift (nm)
12
10
8
6
4
2
0
0
60
120
180
240
300
360
Time (min)


C-NS-STO
Blue Shift (nm)
0
1
2
3
4
5
6
7
8
0
60
120
180
240
300
360
Time (min)


H-N-STO
Blue Shift (nm)
0
1
2
3
4
5
6
7
8
0
60
120
180
240
300
360
Time (min)

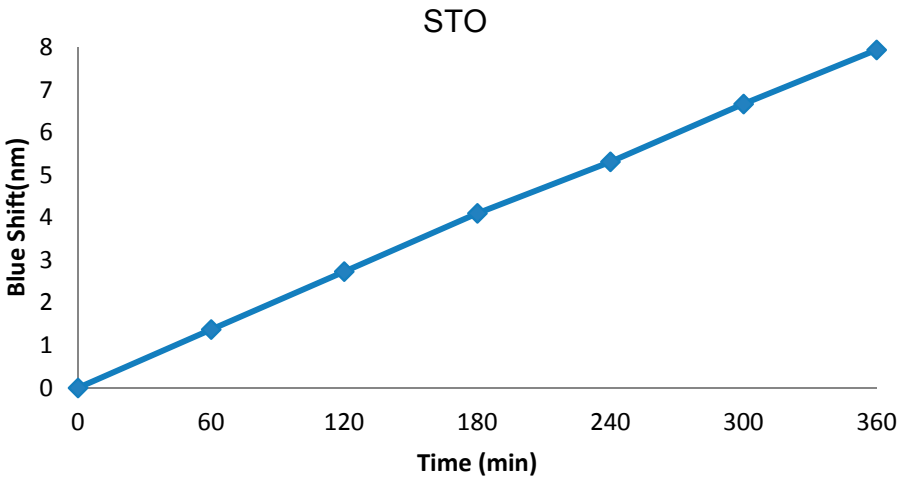
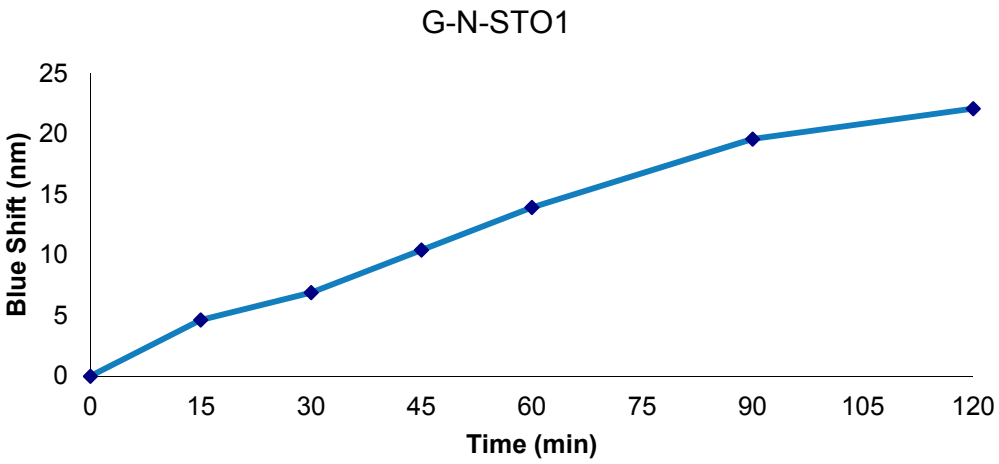
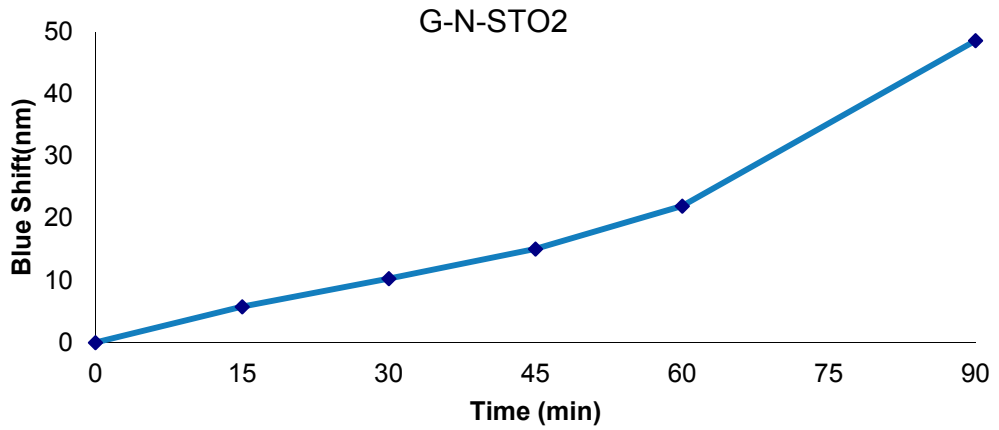
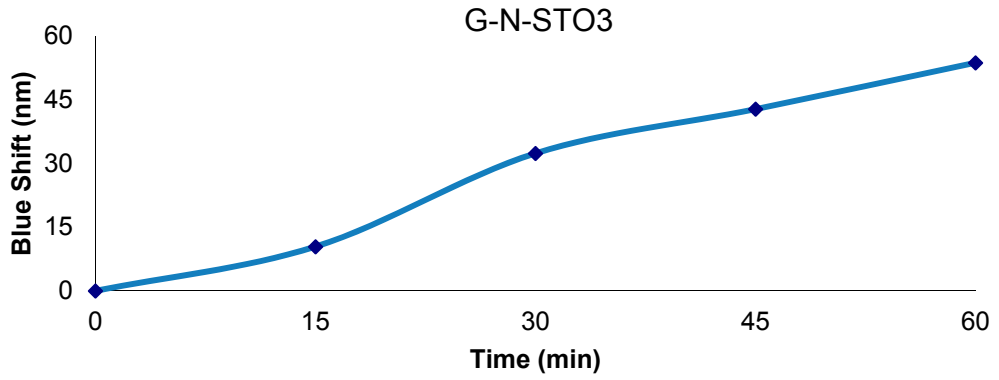


Figure S2. Blue shift in MB spectra during the photocatalytic degradation in the presence of the prepared photocatalysts under visible light irradiation.


G-N-STO1
Blue Shift (nm)
25
20
15
10
5
0
0
15
30
45
60
75
90
105
120
Time (min)


G-N-STO2
Blue Shift(nm)
50
40
30
20
10
0
0
15
30
45
60
75
90
Time (min)


G-N-STO3
Blue Shift (nm)
60
45
30
15
0
0
15
30
45
60
Time (min)

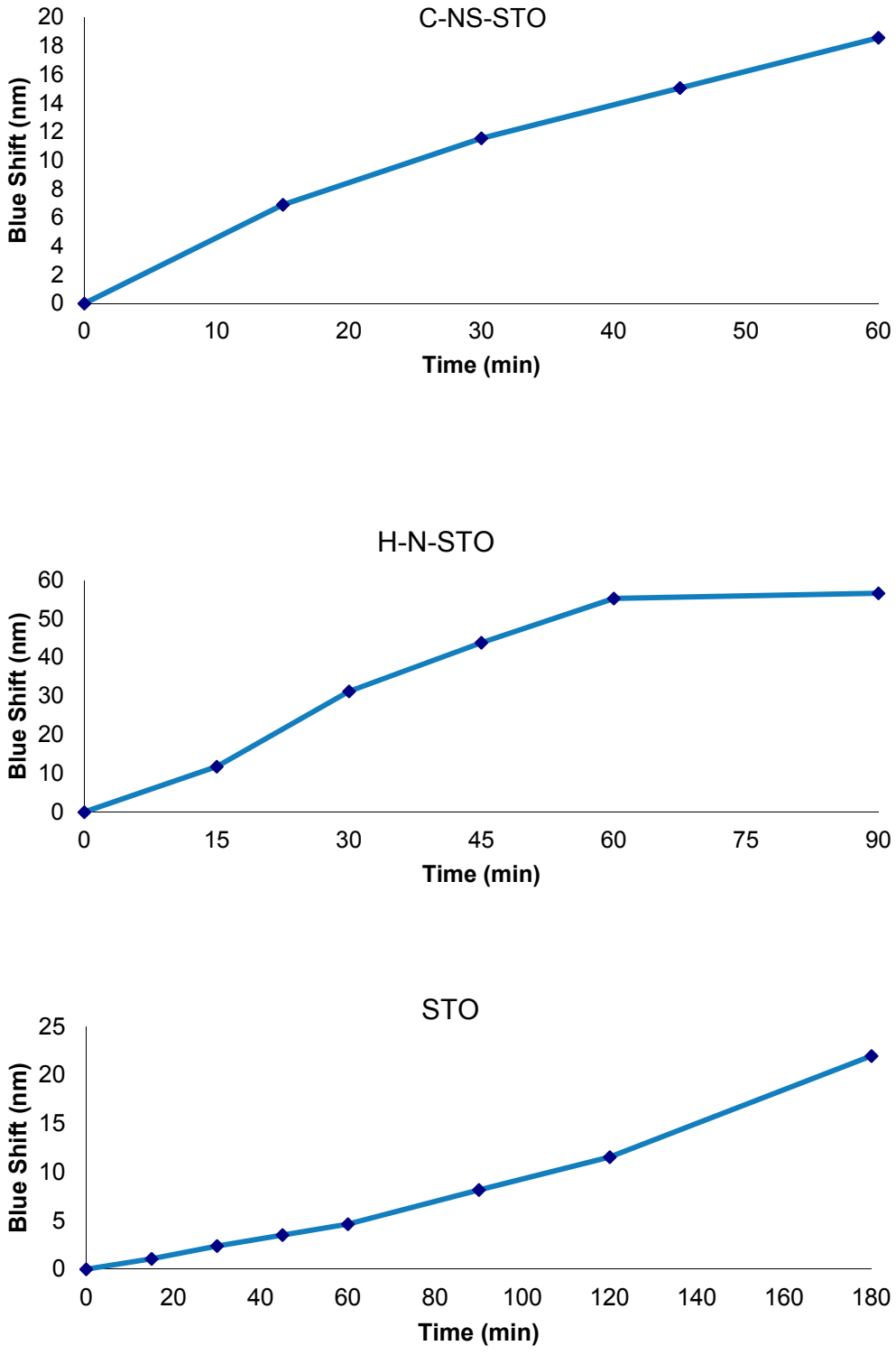


Figure S3. Blue shift in MB spectra during the photocatalytic degradation in the presence of the prepared photocatalysts under UV-Vis light irradiation.