

**Supplementary data:**

**A mechanism study for the photocatalytic activity of AgI-WO<sub>3</sub> in an  
experimental designed methylene blue photocatalysis**

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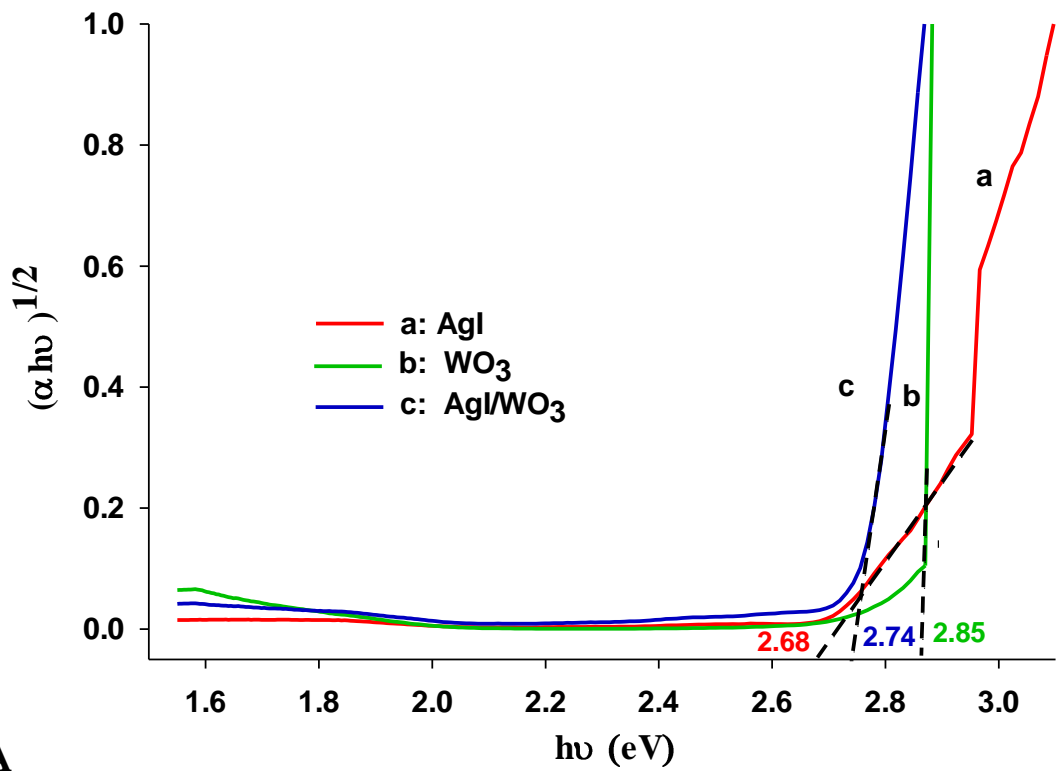
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Nezamzadeh-Ejhieh), [Sh.ghatavi@iauf.ac.ir](mailto:Sh.ghatavi@iauf.ac.ir) (SH. Ghattavi).

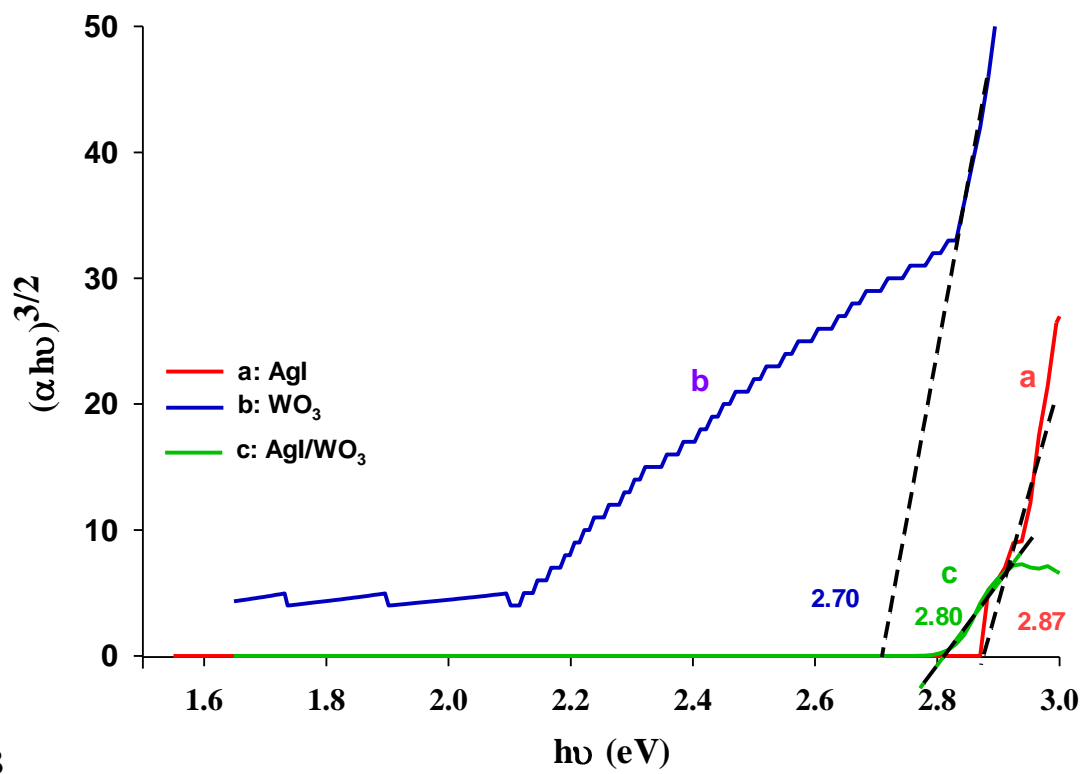
**Tables:**

**SDT1.** Suggest RSM run's conditions in study of MB photodegradation by AgI/WO<sub>3</sub> catalyst.

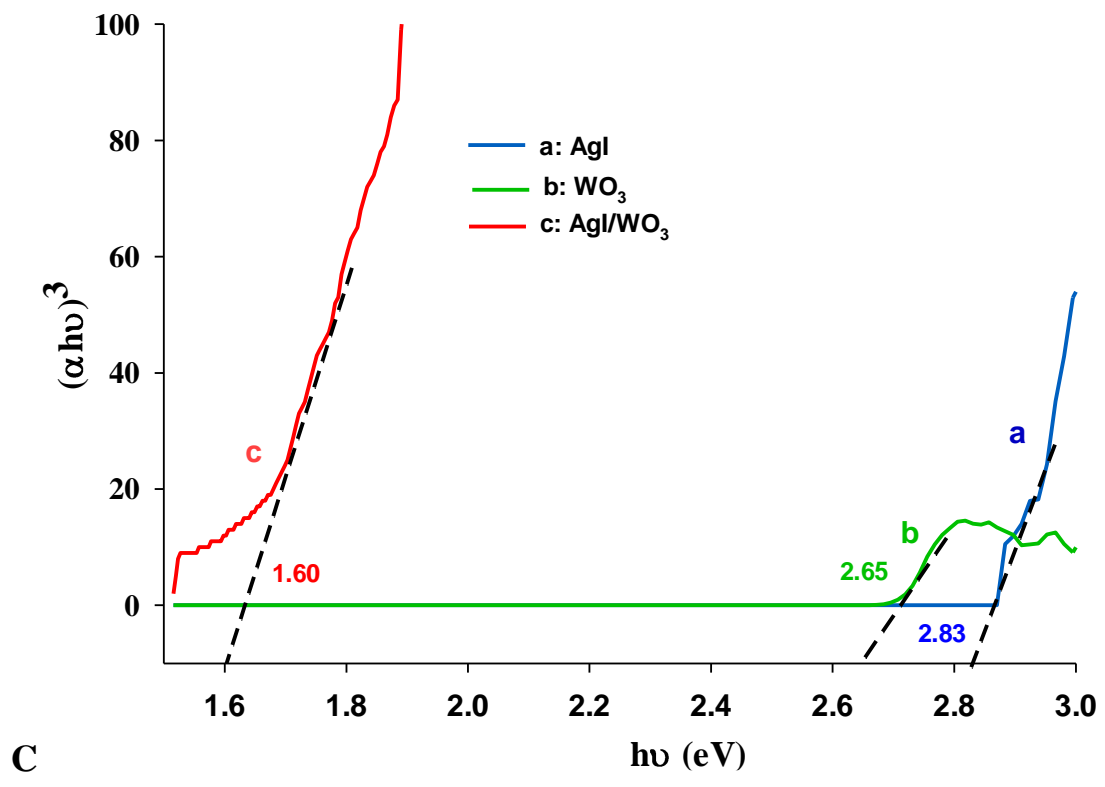
<b>Std</b>	<b>Run</b>	<b>A:pH</b>	<b>B:MB Dose</b>	<b>C:Cat dose</b>	<b>D:time</b>	<b>R1</b>
			<b>ppm</b>	<b>mg/10 mL</b>	<b>min</b>	<b>Deg.%</b>
12	1	8	7.75	5.75	25	72
10	2	8	3.25	5.75	25	78
9	3	4	3.25	5.75	25	91
11	4	4	7.75	5.75	25	92
16	5	8	7.75	15.25	25	91
13	6	4	3.25	15.25	25	99
5	7	4	3.25	15.25	15	95
20	8	6	5.5	10.5	20	92
6	9	8	3.25	15.25	15	94
7	10	4	7.75	15.25	15	97
18	11	6	5.5	10.5	20	92
3	12	4	7.75	5.75	15	97
14	13	8	3.25	15.25	25	97
4	14	8	7.75	5.75	15	82
8	15	8	7.75	15.25	15	92
2	16	8	3.25	5.75	15	91
15	17	4	7.75	15.25	25	97
19	18	6	5.5	10.5	20	91
17	19	6	5.5	10.5	20	91
1	20	4	3.25	5.75	15	94
27	21	6	5.5	10.5	10	90
26	22	6	5.5	20	20	91
30	23	6	5.5	10.5	20	92
23	24	6	1	10.5	20	86
22	25	10	5.5	10.5	20	87
25	26	6	5.5	1	20	69
29	27	6	5.5	10.5	20	88
24	28	6	10	10.5	20	72
28	29	6	5.5	10.5	30	90
21	30	2	5.5	10.5	20	95



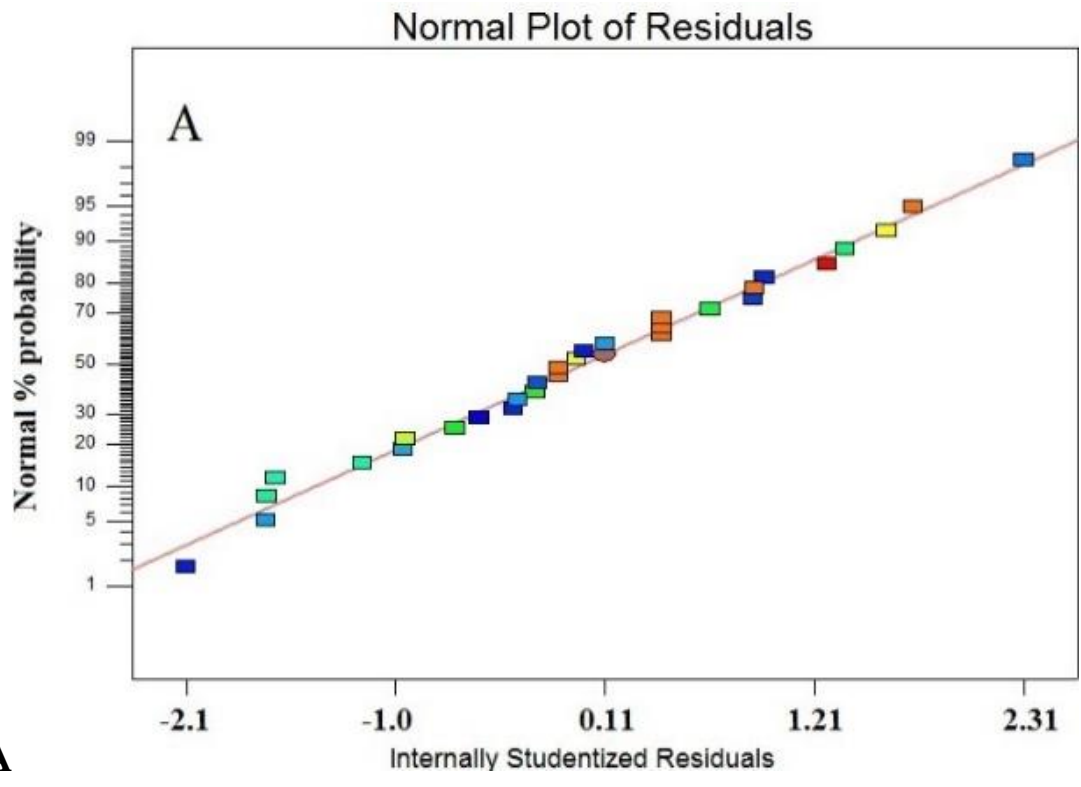
**A**



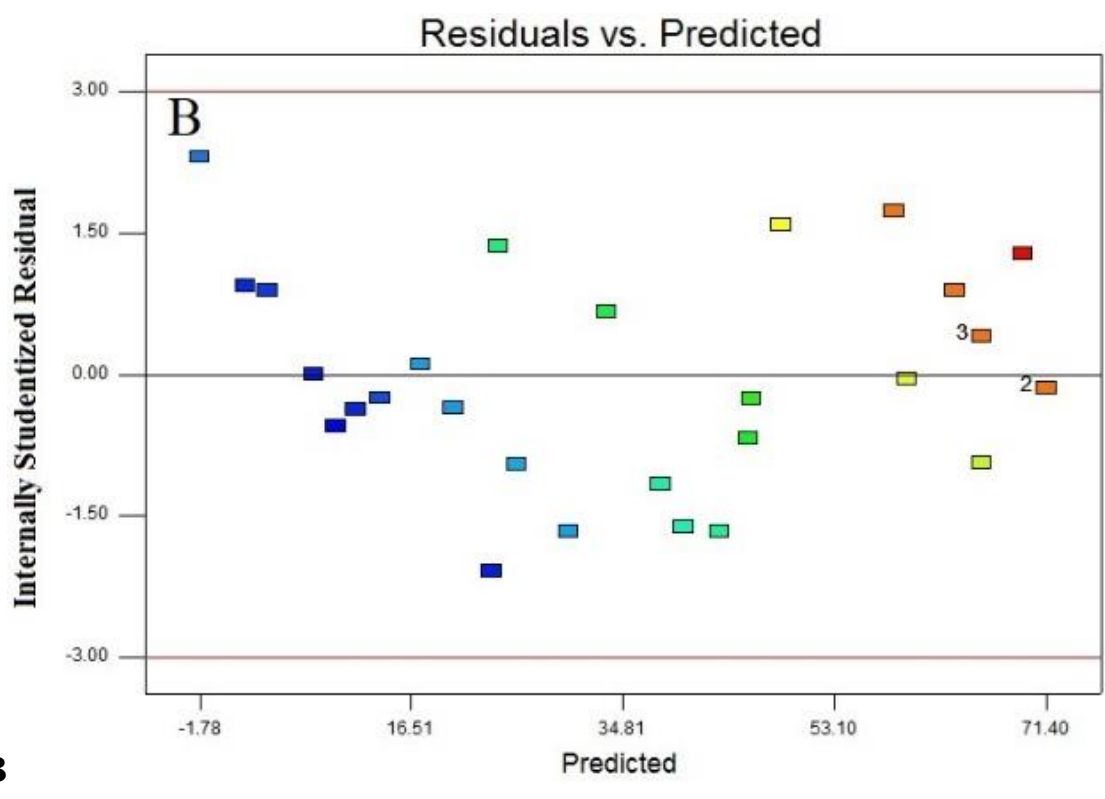
**B**



**SDF1.** Other Tauc plots for as-prepared samples.

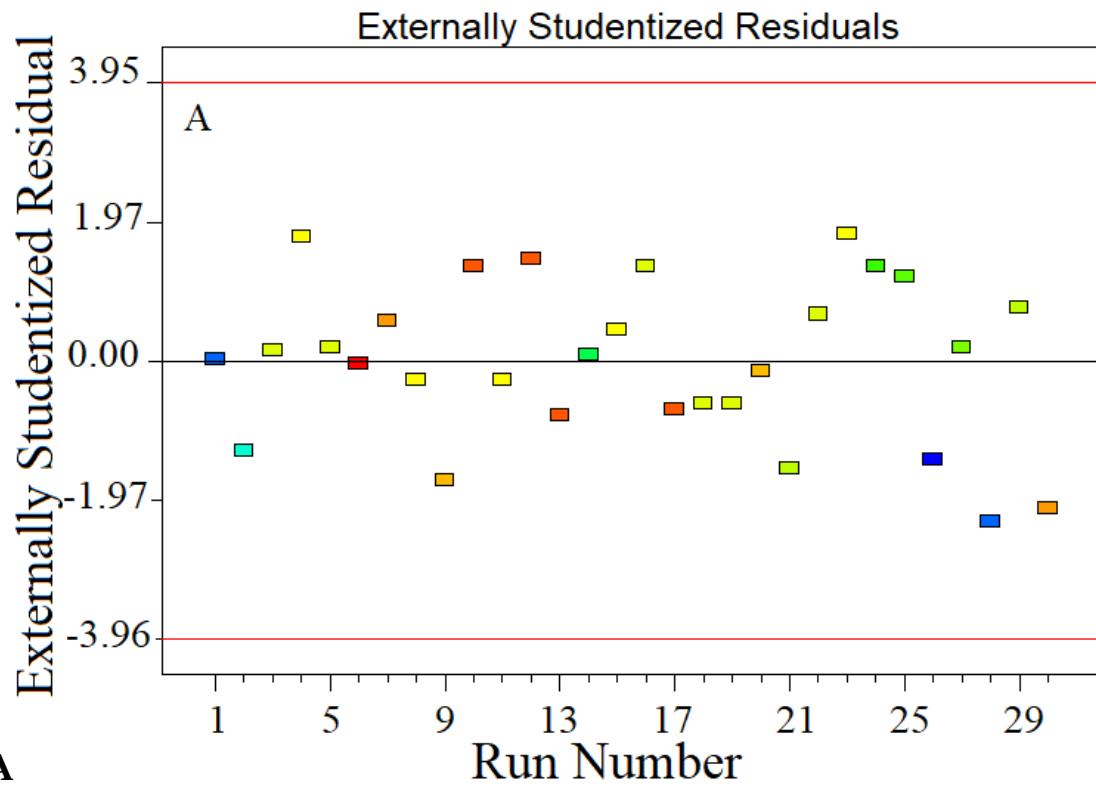


**A**

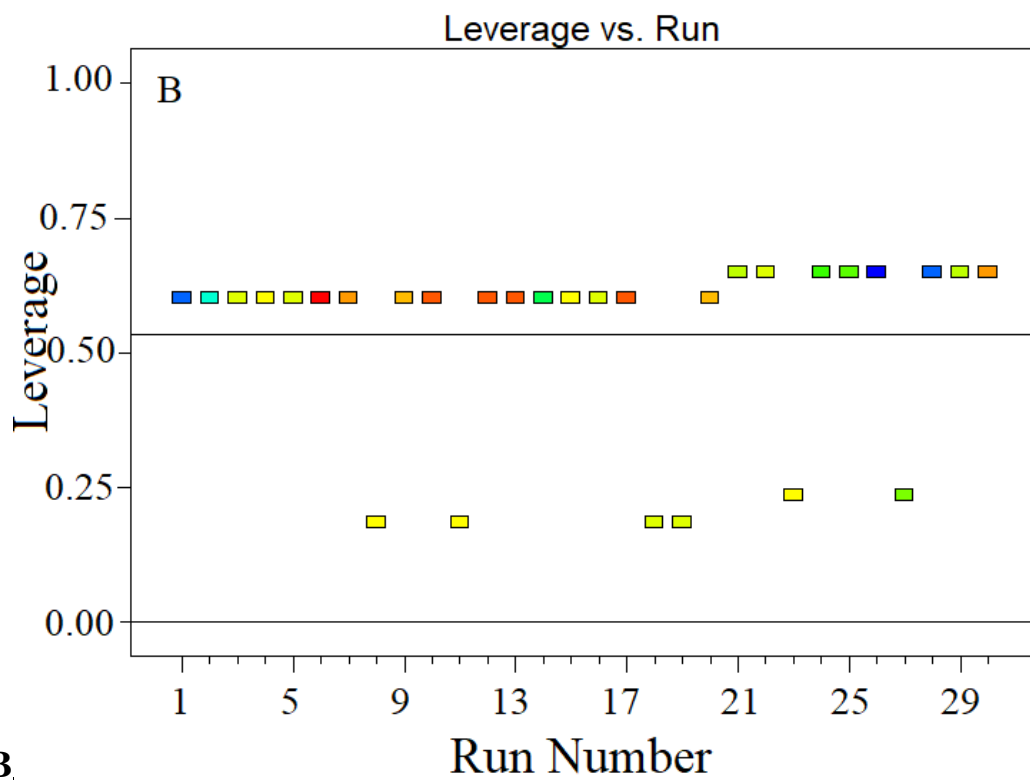


**B**

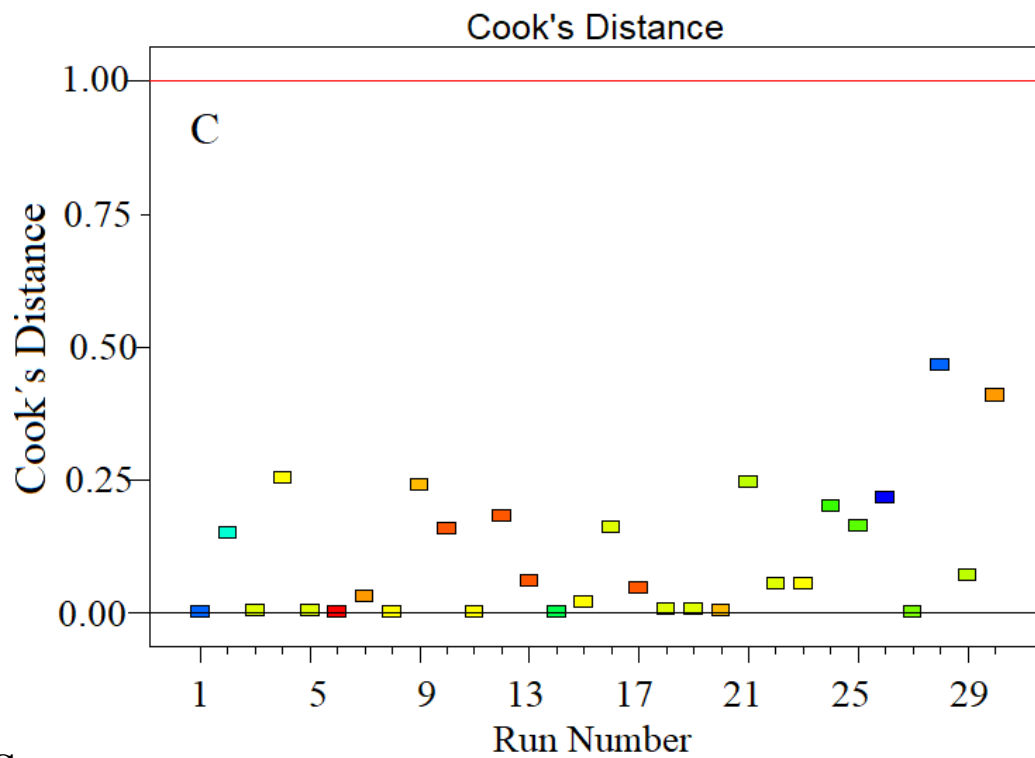




**A**



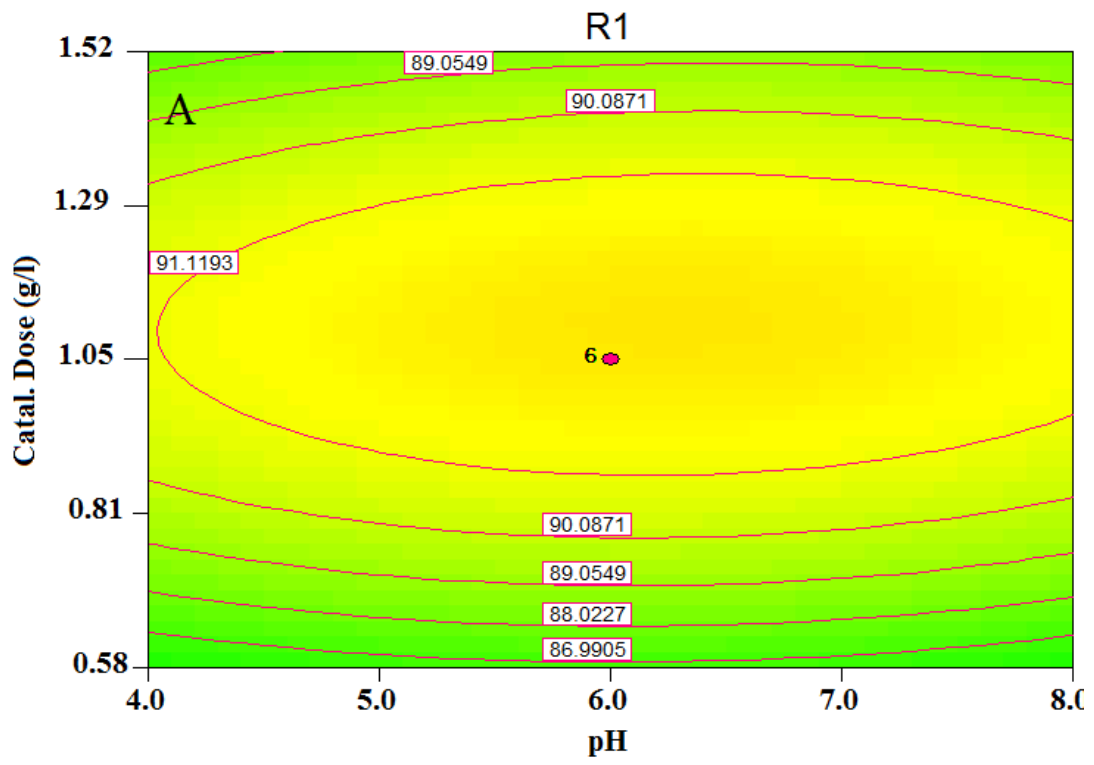
**B**



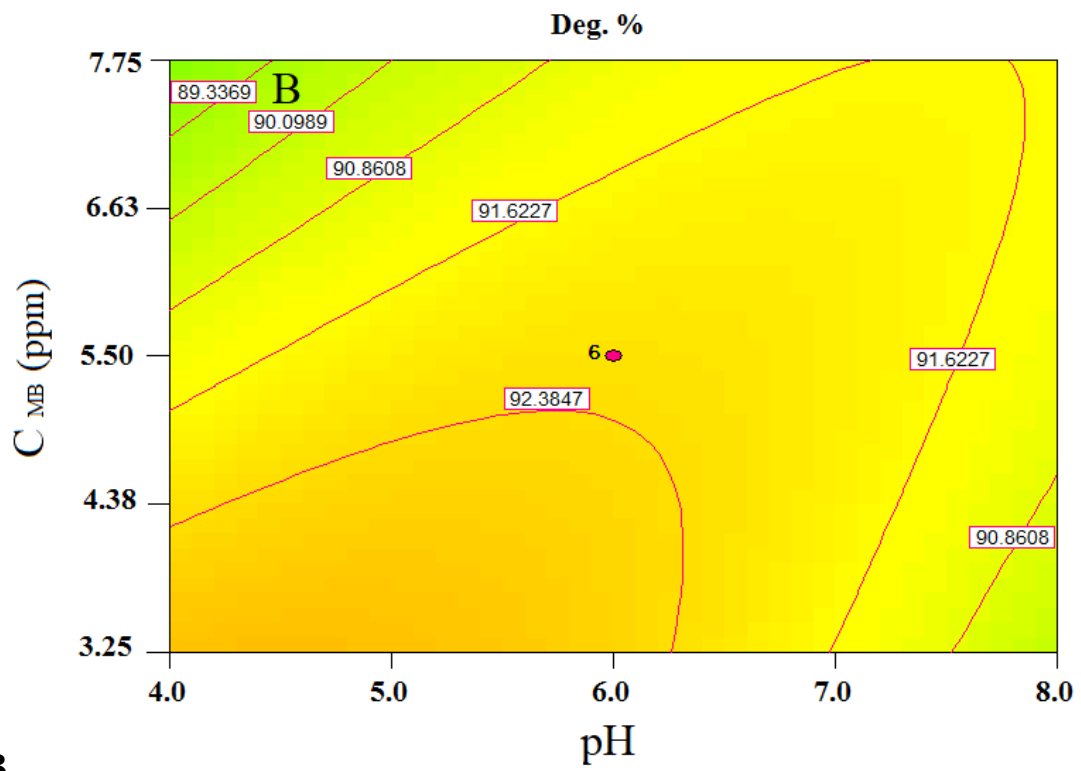
C

**SDF3.** Some influencing plots for the RSM study of MB photodegradation by AgI/WO<sub>3</sub> binary catalyst.

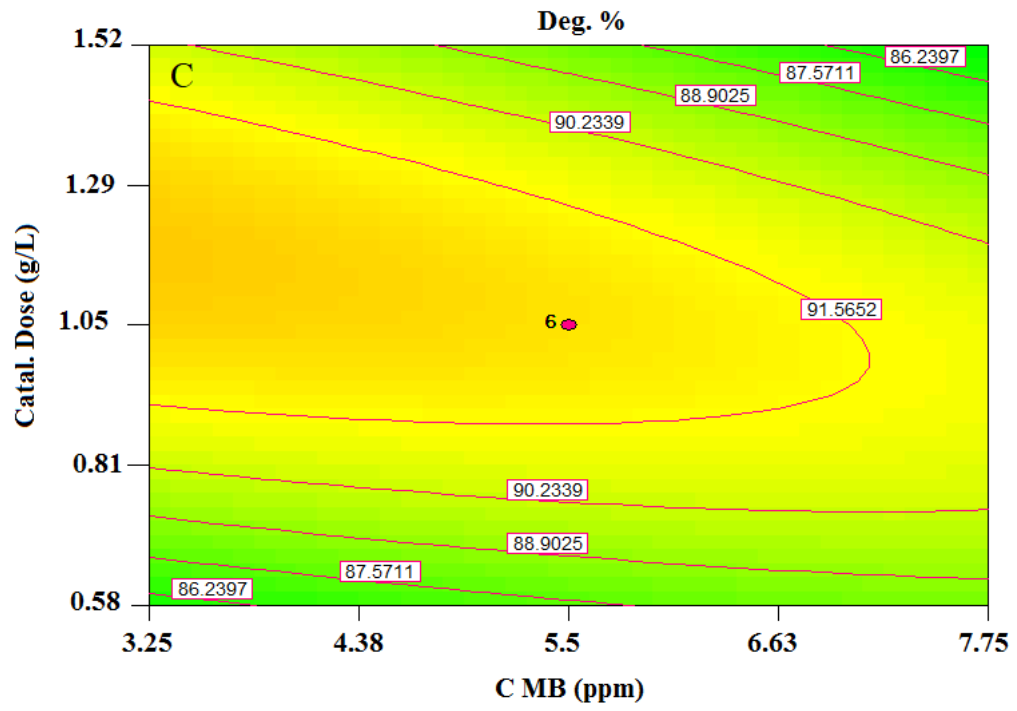




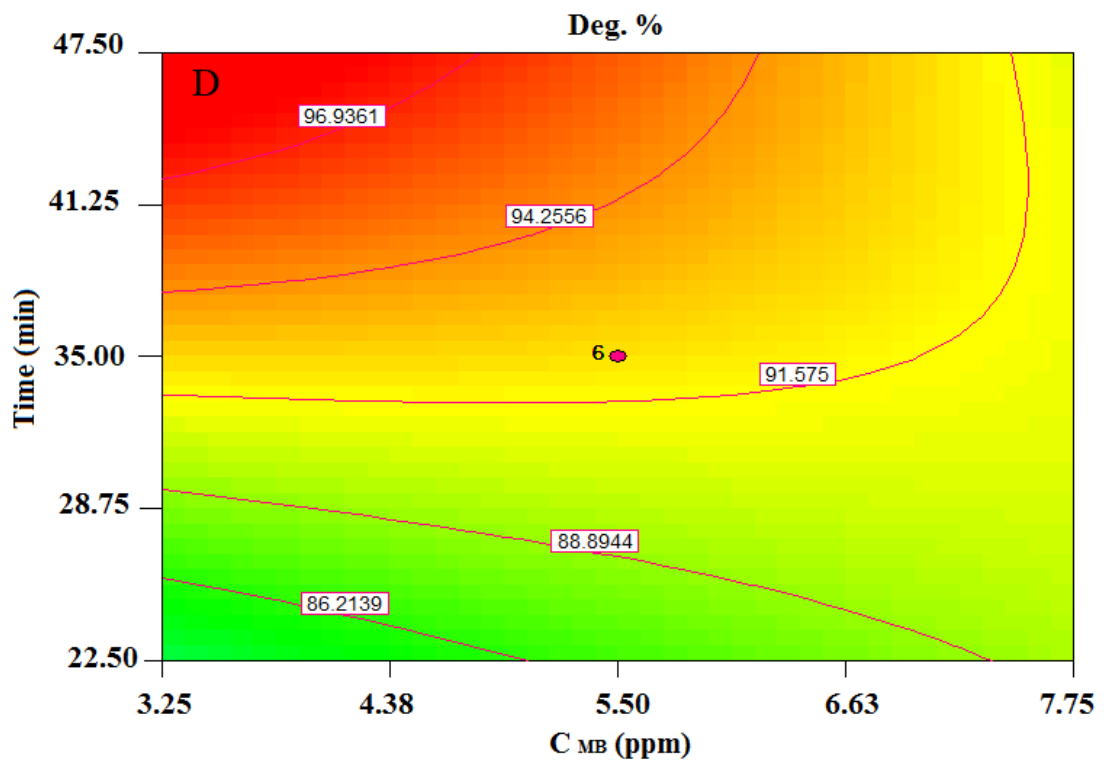
**A**



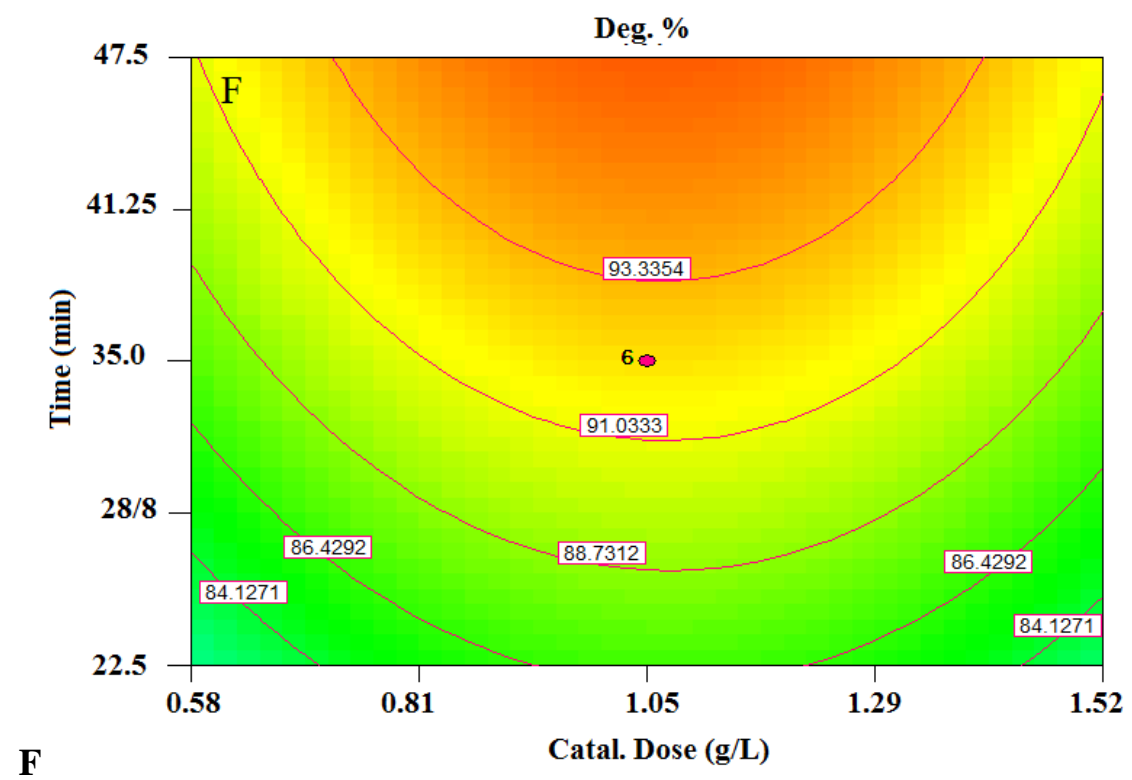
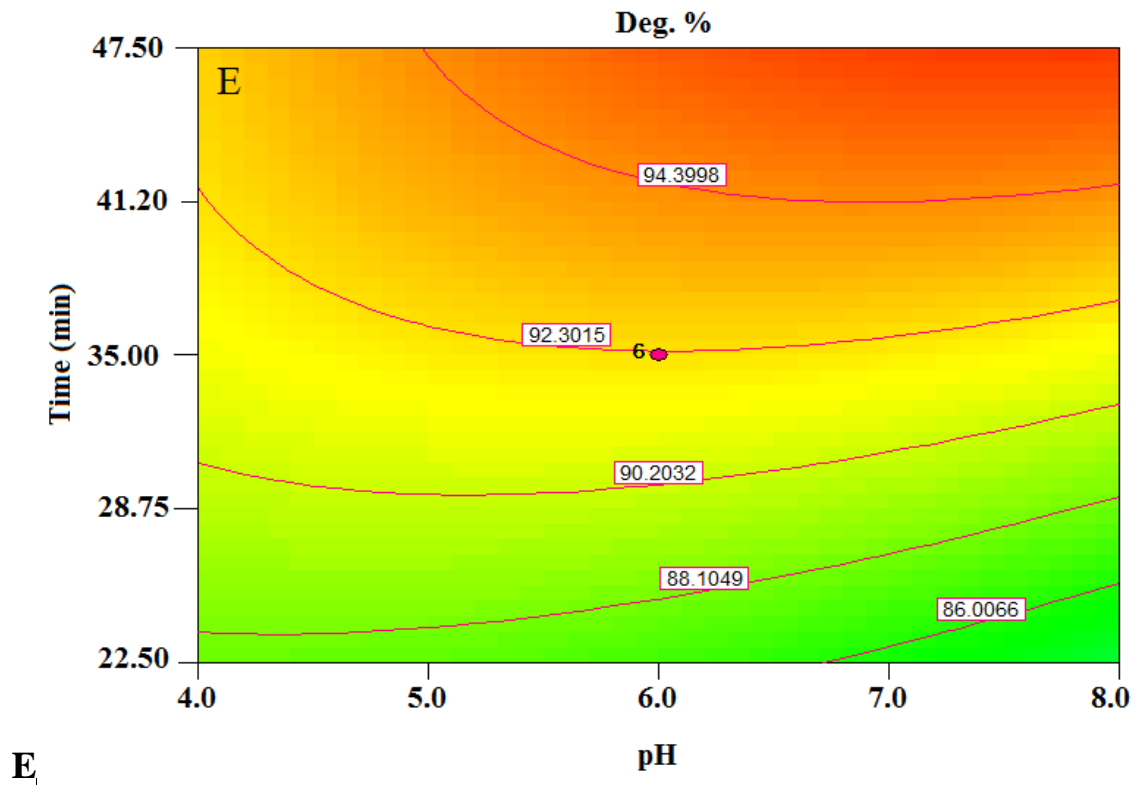
**B**



C



D



**SDF4.** 2D counter plots obtained in the RSM study of MB photodegradation by AgI/WO<sub>3</sub> binary catalyst.