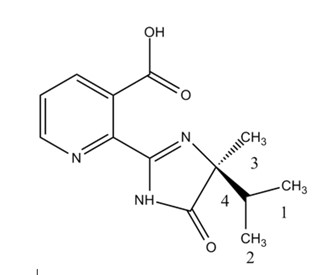
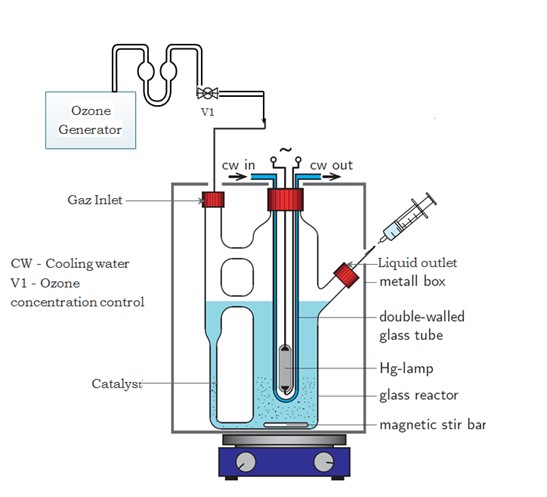
**Factors influencing Imazapyr herbicide removal from wastewater using photocatalytic ozonation**

Figures and table



**Figure 1:** Chemical structure of imazapyr herbicide



**Figure 2**: Scheme of photocatalytic ozonation reactor used for imazapyr degradation.

C:\Users\Salma\Desktop\JMS\10.tif

**Figure 3:** Removal rate of imazapyr under variation of TiO2 concentration. C(Imazapyr)= 5 μΜ ; stirring speed = 1000 min-1, aqueous suspension 1: 3 acetone/ Milli-Q water.

C:\Users\Salma\Desktop\JMS\Image4.tif

**Figure 4:** Removal efficiency of imazapyr as a function of imazapyr concentration, mcatalyst=100 mg; stirring speed = 1000 min-1, aqueous suspension 1: 3 acetone/ Milli-Q water.

C:\Users\Salma\Desktop\JMS\Image3.tif

**Figure 5:** Concentration of imazapyr as a function of time for different pH, C(Imazapyr)= 5 μΜ ); stirring speed = 1000 min-1, m TiO2= 100 mg).aqueous suspension 1: 3 acetone/ Milli-Q water.

**Table 1:** Rate constant of imazapyr degradation with photocatalytic ozonation for different pH.

|  |  |  |  |
| --- | --- | --- | --- |
| pH | Photocatalytic ozonation | |  |
| Rate constant K | R2 | Standard Deviation |
| 3 | 0.107 (min-1) | 0.997 | 0.0012 |
| 7 | 0.247 (min-1) | 0.997 | 0.0009 |
| 10 | 0.134 (min-1) | 0.995 | 0.0015 |