



Bachelor thesis opponent's review

Master thesis: Photocatalytic degradation of organic pollutants

Author: Rubin Hao

Thesis supervisor: David Rutherford, Ph.D.

Thesis opponent: doc. Dr. Ing. Jan Kyncl

Rating (1 – 5)
(1 = best; 5 = worst):

1. Fulfillment of assignment requirements:	<input type="text" value="1"/>
2. Systematic solutions of individual tasks:	<input type="text" value="1"/>
3. Ability to apply knowledge and to use literature:	<input type="text" value="1"/>
4. Thesis formal and language level:	<input type="text" value="2"/>
5. Thesis readability and structuring:	<input type="text" value="1"/>
6. Thesis professional level:	<input type="text" value="2"/>
7. Conclusions and their formulation:	<input type="text" value="2"/>
8. Final mark evaluation (A, B, C, D, E, F):	<input type="text" value="C"/>
verbal:	good

Brief summary evaluation of the thesis (compulsory):

I consider the topic of the bachelor's thesis to be very current and the use of visible light can help the future expansion of the relevant technologies.

I have the following comments about the bachelor's thesis:

- In the graph Fig.1.3, the description of the vertical axis is missing, and it is misleading to consider a negative reflectance value.
- The equations on page 15 would deserve a more detailed explanation, such as why equation (5) is the same as equation (8).
- Interpolation of the measured points on the graph Fig. 3.2 by a straight line is unsuitable, in other graphs it would be appropriate to use more measured values.

Questions:

In your opinion, what is the main reason why Beer's law applies more accurately at lower concentrations?

Date: 30. 1. 2023

Signature: