

Response to reviewer 2 comments

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Title: Electropolishing parametric optimization of surface quality for fabrication of titanium microchannel using Taguchi method

Reviewer #2:

I am happy with the efforts the authors have put in response of the comments. I think the manuscript is in a great shape now. It can be accepted as is. I just have one minor comment -

1. I asked the authors to show the calculations for numbers obtained in figure 4 and 5. And I am happy that the authors addressed that. However, I feel that showing just one equation (with numbers and symbols) is enough in each case. Thus, authors can retain line 266 and 267, but get rid of 268 through 283 and similarly retain line 295 and 296, but get rid of 297 through 313, if it makes sense to them too. After getting rid of repeated equations, they can mention that "similarly, $\bar{A2}$ through $\bar{C3}$ (with a bar on top) were calculated using the values in Table 7" and "similarly, $\bar{A2}$ through $\bar{C3}$ are also summation of the respective S/N ratios in Table 7".

Reply: We have revised the calculation for Figure 4 and 5. Revision as follows:

The average S/N ratio of the levels (1, 2 and 3) for each factor (A, B and C), as shown in Table 8 and Figure 4, was obtained based on the calculation below:

Average S/N ratio A1:

$$\bar{A1} = \frac{\sum A1}{3} = \frac{(7.53 + 8.84 + 8.68)}{3} = 8.35$$

Similarly, $\bar{A2}$ through $\bar{C3}$ were calculated using the values in Table 7.

The sum of factors A, B, and C for levels 1, 2 and 3, as presented in Figure 5, was acquired from the calculation below:

Sum of factor level A1:

$$A1 = 7.53 + 8.84 + 8.68 = 25.04$$

Similarly, $\bar{A2}$ through $\bar{C3}$ are also summation of the respective S/N ratios in Table 7.