

Review of: "Comments on "The roles, challenges, and merits of the p value" by Chén et al. (Patterns, 2023, 4(12), 100878)"

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The Chen et al. paper gives a substantial and sometimes pragmatic view on the concept of the p value and its role in statistical testing. Especially, table 1 summarizes some misinterpretations and misuses of the p value. Additionally, some recommendations are given on how to use the p value together with alternatives (confidence intervals, Bayes factors, etc.) carefully. It was not proposed to abandon the p value from scientific work. Huang seems to propose a more rigorous dealing with the p value. Especially, the immanent problem of n-hacking discredits the p value concept. In contrast to Chen et al., he calls for p value-based hypothesis testing to be abandoned. Instead, Huang promotes better statistical measures not depending on the sample size that he proposed in earlier papers. In our opinion, Huang only repeats arguments well-known from his former work. It is doubtful that a further publication with the known arguments is necessary.

In our opinion, Huang's definitions of effect size and p value are a little bit unusual. Details can be seen in the attached pdf file.