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Fwd: Decision on submission to Coordination Chemistry Reviews

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1 March 2021 at 05:38

Начало переадресованного сообщения:

От: Coordination Chemistry Reviews <em@editorialmanager.com>
Дата: 1 марта 2021 г. в 00:19:27 GMT+3
Кому: Dmitry Yakhvarov <yakhvar@iopc.ru>
Тема: Decision on submission to Coordination Chemistry Reviews
Ответ-Кому: Coordination Chemistry Reviews <ccr.journal@elsevier.com>

Manuscript Number: CCR-D-21-00004

Article Title: Electrochemical methods for synthesis of organometallic compounds

Dear Prof Yakhvarov ,

Thank you for submitting your manuscript to Coordination Chemistry Reviews.

I have completed my evaluation of your manuscript. The reviewers recommend reconsideration of your manuscript following major revision. I invite you to resubmit your manuscript after addressing the comments below. Please resubmit your revised manuscript by 14 April 2021.

When revising your manuscript, please consider all issues mentioned in the reviewers' comments carefully: please outline every change made in response to their comments and provide suitable rebuttals for any comments not addressed. Please note that your revised submission may need to be re-reviewed.

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Coordination Chemistry Reviews values your contribution and I look forward to receiving your revised manuscript.

Kind regards,
Peter Junk
Associate Editor

Coordination Chemistry Reviews

Editor and Reviewer comments:

Reviewer #1: This review reports on an appealing topic from the point of view of the application of electrochemical methods and of the synthesis of organometallic compounds. The examples reported are updated and plenty of interesting suggestions for researchers that works in these fields. Nevertheless, some issues need to be addressed by the Authors. First of all, the use of English language is often inaccurate and not correct, verbs are used with a wrong construction of subject/object, or in the singular instead of the plural form (or vice-versa). Just some examples are reported in my notes, but a careful revision is required. Moreover, there are some conceptual inaccuracies in the text. Therefore, in my opinion the paper can be accepted after major revision.

1. Introduction:

- a) "...divided or undivided electrochemical cells..." must be changed in "...undivided or divided electrochemical cells..." according to figure 1, where A is undivided and B is divided.
- b) "...immersed IN the reaction mixture..." instead of "...immersed TO..."
- c) The description of figure 1 is quite confusing, mainly in the detail of fig. 1C. I understand the choice to distinguish WE-process from CE-process, but both of them are referred to a specific case (1, or 2, or 3, or 4), therefore is better use only one mode for each case. Furthermore, case 1 is detailed in the text, whereas 2-4 do not. So, Authors must modify the description of figure 1, doing it clearer and more detailed.
- d) Page 5, line 4: "Though, there are several reviews devoted to the organic and inorganic synthetic electrochemical methods are known...", delete "there are".
- e) Page 5, line 9: delete "whereas" from the beginning of the sentence, it is out of context.
- f) Page 5, line 13, "...usually based on the ecologically...", delete "the".
2. Page 6, "...derives metallocenes and its derivatives...", change its to their.
3. Page 11, "...under potentiostatic conditions at -1.4 or -1.9 V...": It is quite ambiguous, it seems that using a potential value of -1.4 V or -1.9 V gives the same complex: it is quite weird. Authors should better explain the difference, and modify also the caption of figure 6.
4. Page 18, "...the electrode, ligates the corresponding...": ligates is not adequate to a chemical language.
5. Page 26, "...cyclic voltammetry method.": cyclic voltammetry is not a method, it is a technique.
6. Page 29, "The counter electrode process represented by oxidation of the initially added trimethylamine.": what does it mean? The sentence is incomplete.
7. Page 41, "...by adding an internal reference compound such as ferrocene": What happens if ferrocene cannot be used as internal reference? It is a quite inaccurate concept.
8. Page 41 (and other points in the text): what do the Author mean when they use the term "fixation"? in chemistry this word has a specific meaning, not suitable to what happens in a CV experiment.

Reviewer #2: In this review, Yakhvarov and coworkers overviewed the current electrochemical method for the synthesis of organometallic compounds. The review is systematically summarized, as guided by several categories that are depicted in the abstract. The overall writing is also in a good quality. In summary, I would recommend the acceptance of this work for publication, after the following points be considered.

- 1) The title is a little bit misleading, since the authors also embrace transition metal-catalyzed reactions via electrolysis, not solely focus on organometallic species synthesis.
- 2) The authors should comment more on "why the electrochemical method is better than conventional methods" when describing the detail examples, such as the synthesis of Cyano Cu(I) in 2.2.1; why using e-chem for x-coupling reactions are out compete the current reports? etc.
- 3) Please directly input the reference information in the Figures, where multiple reaction equations are displayed, such as Figure 14, 17, 19, etc;
- 4) Please consider to include the cathode/anode/electrolyte/etc in the schemes where it applies. For example, it will be very valuable to list this information in Table 2.

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