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**Table:** Tabulation of experimental results is encouraged whenever it provides greater clarity or more economical use of space. Tables must be oriented portrait style on the page and must fit within the margins of a single page. **Larger tables will be published as Supplementary Material**. Tables should be numbered consecutively with Arabic numerals and constructed in table format. Do NOT use ChemDraw or Isis Draw to create tables. **Tables created in ChemDraw/Isis Draw will be returned to the author for proper formatting.** Each Table should be provided with a descriptive heading, which, together with the individual column headings, should make the Table, as far as possible, self-explanatory. Do not use cell borders. Tables should be inserted in the text close to the point where they are discussed. **When inserting tables, do not use the float over text option.**

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This section should describe the experimental methods used in the work in sufficient detail to allow repetition of the work by others. Authors are encouraged to include detailed experimental data such as experimental procedures and characterization data as Additional Material rather than as an extensive experimental section.

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This should clearly state the main conclusions of the research and give a clear explanation of their importance and relevance.

**Supporting Information**

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**Author Contributions**

Provide at minimum one contribution for each author in the submission system. Use the [CRediT taxonomy](https://casrai.org/credit/) to describe each contribution. Contributions will be published with the final article, and they should accurately reflect contributions to the work.

**References and Notes**

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[1] Xxxxx (last name), Y.; Axxxx (last name), T. U.; Bxxx, A. H. *Journal name* **year**, *vol*., first page. DOI or Link:

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[1] Constantino, M. G.; Oliveira, K. T.; Beatriz, A.; da Silva, G. V. J. *Tetrahedron Lett.* **2003**, *44*, 2641. DOI: <http://dx.doi.org/10.1016/S0040-4039(03)00377-0>

[2] Copini, S.; Micheletti, A. C.; de Souza, A. M.; Gomes, R. S.; de Lima, D. P.; Beatriz, A. *J. Braz. Chem. Soc*. **2020**, *31*, 2569. DOI: <https://dx.doi.org/10.21577/0103-5053.20200136>

**For books:**

[3] Iwasita, T.; Câmara, G. A. In: In-situ spectroscopic studies of adsorption at the electrode and electrocatalysis. Sun S-G.; Christensen, P. A.; Wieckowski, A., eds. Amsterdam: Elsevier, 2007, chapter 2.

[4] Polo, A. S.; Frin, K. P. M. In: Química Supramolecular e Nanotecnologia. Alves, W. A., ed. São Paulo: Atheneu, 2014, p. 379-398.

[5] Cotton, F. A.: Wilkinson, G.; Advanced inorganic chemistry, 5th ed. New York: Wiley, 1988.

[6] Constantino, M. G.; da Silva, G. V. Fundamentos de Química, 1st ed. São Paulo: Atheneu, 2014, p. 121.

**For electronic material:**

[7] Available from: <http://www.orbital.ufms.br/>. Access October 2007.

**For theses and dissertations:**

[8] Ito, F. M. I. Síntese, biotransformação e avaliação biológica de substâncias policíclicas cage-like derivadas do aduto de Diels-Alder triciclo [6.2.1.02,7]undeca-4,9-dien-3,6-diona. [Master’s thesis.] Campo Grande, Brazil: Instituto de Química, Universidade Federal de Mato Grosso do Sul, 2007. Link: <http://www.orbital.ufms.br/index.php/Chemistry/thesis/view/1>

**For conference material:**

[9] Ito, F. M.; Beatriz, A.; Lima, D. P.; Mariano, V. G.; Petroni, J. M.; Marques, M. R.; Pessoa, C.; Moraes, M. O.; Lotufo, L. V. C.; Magalhães, H. I. Abstract of the 3rd Brazilian Symposium on Medicinal Chemistry - Recent Advances in Drug Discovery and Development, São Pedro, Brazil, 2006.

**For patents:**

[10] Hashiba, I.; Ando, Y.; Kawakami, I.; Sakota, R.; Nagano, K.; Mori, T.; Japan patent Kokai Tokkyo Koho 79 73,771. 1979. (CA 91: P193174v).

[11] Kadin, S. B.; United States patent US 4,730,004. 1988. (CA 110: P23729y).

[12] Beatriz, A.; de Lima, D. P.; de Arruda, J. E.; Paiva, D. R.; Cossa, T. M. Brazil patent BR 102014030002-3 B1. 2021.