

Review of: "Toward the Realization of Nanogate Capacitors: In Search of Practical Advice"

Masoud Salavati-Niasari¹

¹ University of Kashan

Potential competing interests: No potential competing interests to declare.

The manuscript entitled "**Toward the Realization of Nanogate Capacitors: In Search of Practical Advice**" was reviewed. The paper proposes a new energy autarkeia system extracting the full power of a quickly charging capacitor. I recommend its publication after applying the following revisions (**major revision**).

1. The title is informative and relevant, but it could be more specific.
2. English grammar errors should be eliminated throughout the manuscript. A thorough check from a native English writer would be a good idea.
3. The whole generalization for this paper should be given in the first section.
4. Write the novelty of the work clearly in the introduction section.
5. In the literature review, please use more recent works.
6. Discuss the shortcomings of previous work and the gaps and how this work intends to fill those gaps. Related references should be cited: - Journal of Alloys and Compounds, 924 (2022) 166564. - Journal of Energy Storage, 74 (2023) 109395. Materials Research Bulletin 48 (4) (2013) 1660-1667; Ultrasonics Sonochemistry 72 (2021), 105420; International Journal of Hydrogen Energy 42 (39) (2017) 24846-24860; Polyhedron 28 (14) (2009) 3005-3009; Journal of Molecular Liquids 242 (2017) 447-455; Journal of Alloys and Compounds 617 (2014) 627-632; Diamond and Related Materials 79 (2017) 133-144
7. Explain the effective parameters that increase the yield of reactions?