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| Book Name: | [Geography, Earth Science and Environment: Research Highlights](https://www.bookpi.org/bookstore/product/geography-earth-science-and-environment-research-highlights-vol-1/) |
| Manuscript Number: | **Ms\_BPR\_4443** |
| Title of the Manuscript: | **THE WATER PENETRATION AND REPELLENCY OF FEATHERS REVISITED** |
| Type of the Article | **BOOK CHAPTER** |

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| **PART 1: Comments** |
|  | **Reviewer’s comment****Artificial Intelligence (AI) generated or assisted review comments are strictly prohibited during peer review.** | **Author’s Feedback** *(Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)* |
| **Please write a few sentences regarding the importance of this manuscript for the scientific community. A minimum of 3-4 sentences may be required for this part.** | **Superhydrophobic surfaces are widely used in many different applications such as medicine. These surfaces are inspired of nature. Bird’s skins or plants like lotus leaf have superhydrophobicity properties. This manuscript wants to speak about different aspects of water droplet behaviour on the bird’s skins.****Although its information are for the past and even the references are for the past, it can have some positive points for scientists for superhydrophobic surfaces fabrication.** |  |
| **Is the title of the article suitable?****(If not please suggest an alternative title)** | **Yes** |  |
| **Is the abstract of the article comprehensive? Do you suggest the addition (or deletion) of some points in this section? Please write your suggestions here.** | **Yes** |  |
| **Is the manuscript scientifically, correct? Please write here.** | **There are different parameters influencing water contact angle and water repellency calculation such as morphology, which are not mentioned in the manuscript. Surface morphology and roughness should be mentioned separately. Both of them are very important in water reppelency.****Many of bird’s skins are superhydrophobic. The authors should write more about the superhydrophobicity. Hierarchical structures are the main factor of superhydrophobicity.** |  |
| **Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.****-** | **Yes** |  |
| **Is the language/English quality of the article suitable for scholarly communications?** | Yes |  |
| **Optional/General** comments | For each statement which mentioned the bird’s morphology or roughness, picture is needed. All the mentioned parameters contributed to different birds, should have images and the parameters should be determined in the images. The lack of sufficient images in the manuscript, leaves the reader confused. |  |

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| **PART 2:**  |
|  | **Reviewer’s comment** | **Author’s comment** *(if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)* |
| **Are there ethical issues in this manuscript?**  | *(If yes, Kindly please write down the ethical issues here in details)* |  |

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| **Reviewer Details:** |
| Name: | **Sahar Sohrabi** |
| Department, University & Country | **Iran University of Science and Technology, Iran** |