

## INSTRUCTIONS TO AUTHORS

### PURPOSE AND EDITORIAL POLICY

The *Brazilian Journal of Geophysics – BrJG* (formerly *Revista Brasileira de Geofísica*) is a quarterly journal of the Brazilian Geophysical Society (SBGf), with arbitration and open access, devoted to the national and international dissemination of original scientific and technical articles related to research in geophysics and geophysical applications in the areas of Geological Sciences, Oceanography, Atmospheric Sciences, and Space Sciences. The topics of interest comprise ten areas:

**1. Seismic Methods**

(ex: Acquisition, processing and seismic imaging, Modeling and inversion of the seismic data, Seismic methods applications to prospecting of oil and gas, etc.)

**2. Solid Earth Geophysics**

(ex: Geodynamics, Tectonophysics, Geomagnetism, Paleomagnetism, Seismology, etc.)

**3. Potential Methods and Geothermal Studies**

(ex: Gamma spectrometry, Geothermics, Gravimetry, and Magnetometry applied to the environment, mineral resources, oil and gas and groundwater, etc.)

**4. Electrical and Electromagnetic Methods**

(ex: Direct and inverse modeling of electrical and electromagnetic methods, Electrical and electromagnetic method applications to the prospecting of mineral assets, oil and gas and groundwater, etc.)

**5. Remote Sensing**

(ex: Analysis of observation temporal series of the Earth, Geoprocessing, Image processing, Sensing applied to forest resources, agriculture, geoscience, etc.)

**6. Near-Surface Geophysics, Environmental and Forensic Geophysics**

(ex: Applications to environmental studies, archeology and forensic geophysics, etc.)

**7. Marine Geophysics and Physical Oceanography**

(ex: Coastal dynamics and physical oceanography, Coastal evolution of barrier/lagoon depositional systems, Glaciology and climatology, Hydrodynamics and transport processes in estuaries and coastal waters, etc.)

**8. Space Geophysics and Aeronomy**

(ex: Upper atmosphere, Ionosphere, Atmospheric electricity, Aeronomy, etc.)

**9. Petrophysics and Well Logging**

(ex: Petrophysics, Reservoir characterization, Application of petrophysics to problems of geoengineering and environmental geology, and Well Logging, etc.)

**10. Computational Geophysics**

(ex: mathematical modeling, simulation, data analysis, uncertainty, and high performance computing, etc.)

**11. Machine Learning**

(ex: applications in Geophysics; applications in High Performance Computing; Cloud Computing and other virtual computational environments; Digital Transformation in Geophysics; Big Data and the challenges of creating integrated Geophysics databases, etc.)

In addition to original technical and scientific articles, the journal publishes review articles from guest authors and discussions. Thematic special issues may also be dedicated to a single topic, edited by invited experts.

Editorial work is fulfilled by Divisional Associate Editors (distributed according to the areas previously specified), Editorial Board members and a group of reviewers, whose names are announced periodically.

Manuscripts submitted to *BrJG* are reviewed by at least two specialists chosen by the Editors whose names are kept anonymous. Moreover, the authorship of the article is not disclosed to the reviewers during the review phase (Blind Review).

All copyrights are reserved to authors. The reproductions of any parts of the text and non-commercial use of figures, maps and others illustrations are allowed, when due reference to the article is assigned.

Ideas, concepts, content and writing style are the sole responsibility of the authors. However, political, commercial or religious quotes will not be allowed in the article. **Only articles that receive favorable opinion of the editorial board, based on quality criteria, will be accepted for publication.**

### PREPARATION OF THE MANUSCRIPT

1. All manuscripts submitted for appraisal by the Editorial Board of the Brazilian Geophysical Journal (*BrJG*) should be sent electronically by means of the journal website ([www.brjg.sbgf.org.br](http://www.brjg.sbgf.org.br)), using the link Submission. A submission template is available for download on website journal. To start the submission process, the corresponding author should be registered in the system as “author”. The system is self-explanatory and, when the process is finished, the author will receive a message on his/her registered email confirming submission and identification number of the article.
2. Before starting the submission process, authors should check if the manuscript fully complies with the rules described in this document. The body of the manuscript should be written in one column with 1.5 spacing, using Arial font size 11, justified and presenting top, bottom and left margins of 2 cm and a 1.5 cm right margin. Authors should submit the article for appraisal using the DOC or PDF format based on template submission file.
3. The text should be written in English and contain a summary (Abstract) with approximately 200 words. These parts should not include references. The article title and the abbreviated form (running title) should be presented. **To ensure the anonymity of the authors of the manuscript in the peer review process, this document should not contain any evidence to the authorship identification.** All data related to the identification of authors must be registered in the *online* submission form, and may be sent separately as “supplementary document”.
4. In the Abstract, authors must provide three to five keywords, separated by commas. Keywords should not repeat words in the title. Use capital letters only when spelling requires.
5. Additionally, you should send a “supplementary document” that should contain the title of the article, full name of each author, their institutions and their addresses, ORCID ID, and complete mailing address, including telephone and email. Authors are encouraged to provide ORCID IDs that can be linked to manuscripts and publications in bibliographical and citation management databases.
6. Before the Abstract, the article text must provide the area corresponding to the article substance (according to 1-10 aforementioned areas).

7. During submission, the author must suggest at least four names of possible reviewers, who are able to critically assess the manuscript submitted to *BrJG*.
8. The authors should detail any potential conflict of interest related to the submitted article. The conflict may be personal, commercial, political, academic or financial. If necessary, authors may request that the manuscript not be assessed at certain institutions or reviewers, in order to avoid possible conflicts of scientific interest.
9. Tables and figures should be inserted in the text, as quoted, and followed by their respective captions. Do not put captions on the figures themselves. In the text, citations of figures, tables and equations, only when appearing between parentheses, should be referred to in abbreviated form: (Figure 1), (Figures 2 and 3), (Table 1) and (Tables 2 and 3), for example.
10. The images should be in color when the use of colors is essential for understanding the figures or considered strictly necessary in the context of the manuscript. The production of images should consider the understanding of them, even when they are printed in grayscale.
11. Attach the original picture files. The figures will be published with maximum dimensions of 16.2 cm × 22 cm, therefore, the images must be created considering possible reduction, so that the details, symbols and letters become clear after reduction. The author should take into account that the size of the characters after the final reduction may not be less than 1 mm.
12. Tables should be self-explanatory and not very extensive. The density of information in the tables should take into account possible reductions.
13. Footnotes should be indicated by Arabic numerals, superscripts in the text and described at the end of the page itself.
14. Authors should provide clear instructions on the composition of symbols in formulas or equations. Equations should be numbered by Arabic numerals in brackets and in sequence on the right side of the sheet. In the text, they shall be referred to as equations 1, 2 and 3, for example.
15. Whenever possible, the units must be used according to the International System.
16. Subtitles are positioned to the left margin and the conventional structure of scientific articles should be observed, whenever possible, in the following order (the sections titles are just a suggestion):

**INTRODUCTION**

**METHODOLOGY**

**Theoretical Revision**

**Laboratory Measurements**

**RESULTS**

**DISCUSSION**

**CONCLUSION**

**ACKNOWLEDGMENTS**

**APPENDIX**

**REFERENCES**

17. When necessary, acknowledgments and credits to the funding institutions should appear in the Acknowledgments section.
18. The appendix is an optional section that can include supplementary data and information to the main text. All appendix sections must be cited in the main text. In the appendixes, figures, tables, equations etc. should be labeled starting with “A” or “B”, e.g., Figure A1, Equation A1, etc.
19. Papers published in BrJG follows guidelines set forth in The Chicago Manual of Style, 17th edition. The references are listed in alphabetical order of first author’s surname and not numbered. When several references of the same first author appear, they should be sorted first by the date of publication in ascending order and then by the number of authors. We strongly encourage authors to add DOI information to cited papers. Examples:

Ferreira, J. C., E. P. Leite, M. A. R. Vasconcelos, and A. P. Crósta, 2019, 3D gravity modeling of impact structures in basaltic formations in Brazil: Part II – Vista Alegre, Paraná. *Brazilian Journal of Geophysics* 37(1): 69-81. DOI: 10.22564/rbgf.v37i1.980

Rosa, A. L. R, 2018, *Análise do Sinal Sísmico*: Rio de Janeiro, RJ, Brazil: SBGf, 713 pp.

Mohriak, W. U, 2003, *Bacias Sedimentares da Margem Continental Brasileira: [Sedimentary Basins of the Brazilian Continental Margin]*: In: L. A. Bizzi, C. Schobbenhaus, R. M. Vidotti, and J. H. Gonçalves, eds., *Geologia, Tectônica e Recursos Minerais do Brasil*. Brasília, DF, Brazil: CPRM. chapter III. p. 87-165.

Meneguim, T. B., S. C. Mendes, A. R. Maul, L. F. Fernandes, M. G. Farias, and G. Gonzalez, 2015, Combining seismic facies analysis and well Information to guide new interval velocity models for a Pre-Salt study, Santos Basin, Brazil. In: 14th International Congress of the Brazilian Geophysical Society & EXPOGEF, SBGf: Rio de Janeiro, RJ, Brazil, 3-6 August 2015.

Poletti, W., 2018. *Archaeomagnetic Field Intensity Evolution during the Last Two Millennia*. PhD Thesis. Universidade de São Paulo – IAG. São Paulo, SP, Brazil.

The abbreviations of the journals names can be found in the database in which the journal is indexed or in the World List of Scientific Periodicals. In the text, citations should be consistent with those in the reference list and vice versa. References will be cited as: Bott (1982); Legchenko and Valla (2002); Rolim et al. (2013); or (Bott, 1982; Legchenko & Valla, 2002; Rolim et al., 2013), for example. Articles by the same authors and presenting the same dates must be distinguished, with a lowercase letter (a, b, c ...) after the year.

20. After the article has been accepted for publication, authors will receive specific instructions for the preparation of the final version, which will also be submitted by means of the system. At this time, the article cannot be sent only in PDF format. We recommend that authors submit the final version in MS-Word or LaTeX system using the article style or some other similar format. For publication, figures should be submitted with a resolution of 300 dpi. Figures and tables that do not meet the journal standard will be returned to the author for a new submission.
21. If the corrections suggested by the reviewers are not addressed by the authors in 30 days, the reviewing process will be suspended. A new process of submission and review will be needed.

22. After accepted, an email with instructions will be sent to the corresponding author when the proofs are ready to review. All revisions must be made on the proof document. The full manuscript will be available in the *BrJG* website ([www.brjg.sbgf.org.br](http://www.brjg.sbgf.org.br)).
23. It is author's responsibility to ensure that the manuscript is an original and unpublished scientific work. It is also author's responsibility to collect the authorization for publication from all coauthors and institutions where the work was developed. Reproduction of any material already published in journals and books, resulting in implications that may involve *copyright*, is the sole responsibility of the authors.

#### **DATA AND MATERIALS AVAILABILITY**

The data used in the manuscript should be open and publicly available whenever possible.

If appropriate, BrJG encourages authors to archive data in a permanent repository. The data deposited should be cited in the reference list of the manuscript using the DOI or other persistent identifiers.

#### **Author Contributions**

It is expected that each author has made substantial contributions to the work, at least two criteria are considered for authorship: actively participate in the discussion of results; and revise and approve the final version of the manuscript. In this section, at the end of the article, the individual contribution should be clearly stated: **1st Author:...** **2nd Author:...** **3rd Author:...**

#### **Conflicts of Interest**

The authors declare no conflict of interest. The conflict may be personal, commercial, political, academic or financial. If necessary, authors may request that the manuscript not be assessed at certain institutions or reviewers, in order to avoid possible conflicts of scientific interest.

#### **Copyright and Open Access**

All copyrights are reserved to authors.

Ideas, concepts, content and writing style are the sole responsibility of the authors. However, political, commercial or religious quotes will not be allowed in the article.

The BrJG is an open access journal. All articles are published under Creative Commons CC-BY license which means that all content is freely available without charge. Users are allowed to read, download, copy, distribute, print, search, link to the full texts or to the noncommercial use of figures, maps and other illustrations, when due reference to the article is assigned.