

AUTHOR GUIDELINES

JOURNAL OF APPLIED AND PHYSICAL SCIENCES

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While submitting the manuscript for review, the author(s) must classify the manuscript as per the above-mentioned categories. For this, the author should compare his/her contribution to below-mentioned information. For JAPS contributions can be classified in the following way:

1. Primary research
2. Original contribution
3. Literature review
4. Conceptual paper

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4. The author should clearly state their conflict of interest (if any)
5. The funding information and copy of a contract with the funding organization should be provided in the case the project is funded by any organization
6. The journal's guidelines have been followed before submitting the manuscripts

Authorship

The author of the manuscript should have extensive contributions from the origination of the idea to the final drafting of the manuscript. And the order of the authorship should be decided as per the contributions made by every author. All authors should have made substantial contributions to all of the following: (1) the conception and design of the study, or acquisition of data, or analysis and interpretation of data, (2) drafting the article or revising it critically for important intellectual content, (3) final approval of the version to be submitted.

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Divide your manuscript into clearly identified sections (main headings) with roman numbering. And subsections (subheadings) should be stated "A (then B, C, D, etc.) The abstract of the contributions should not be considered in the numbering of sections or subsections. Also apply the numbering of in-text citation instead of using "the text or full author(s) names" and arrange the bibliographic information as per the numbering used in the running text. Every new heading should be placed on a separate line, and the text under the headings should be started with a new line with a single "tab".

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The introduction section should be numbered with roman numbering. The below-mentioned aspects should be discussed in the introduction section:

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5. Main contribution and implications of the study

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The material and methods sections should exhibit adequate detail about the research design, and research instruments. In case of the adoption of existing methods, the particular method should be mentioned with citation of original reference. The author should have mentioned the modification made by the author. The methods should be reproducible. The sources of the data should also be reliable.

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The results should be clear. The professional language of the field should be applied in the interpretation of the results. Just reporting statistical results is not sufficient, but the results section should be equipped with strong logical, and rational interpretation.

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The author may combine the discussion with the results section. The author should avoid extensive citation; however, only relevant citation should be made in the discussion section to compare the results of various studies.

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The conclusion section should be added after the discussion section. This section should provide a brief summary of the following aspects:

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In the case of more than one appendix, the author should separate them by A, B, etc. Similarly, the equation and formulas should be numbered: Eq. (A.1), Eq. (A.2), etc. ., and for tables and figures: Table I; Fig. 1, etc.

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The manuscript should carry brief but informative title page, covering the main idea of the research work.

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The following information is required to be reported regarding author's names and their affiliations:

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The abstract of the study should be followed by 3 to 5 index terms. The index terms should arrange as capitalized each word. Avoid using (for example, 'and', 'of') among the word used as index terms. The mentioned index terms will be considered for indexing purposes.

Use of Abbreviation

The abbreviation/s should be defined at their first mention there and ensure the consistency in abbreviation throughout the article.

Acknowledgements

The acknowledgment section should be presented at the end of the article before the end-reference list as a separate section. Add the list of individuals and organizations that render support during the research process.

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The author(s) should submit the equations and formulas in the editable form, not in image form. All formulas/equations should be presented in the normal text where applicable use the symbols (/). The equations should be numbered, and every next equation should be started with at the line.

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as shown by Brown [4], [5]; as mentioned earlier [2], [4]–[7], [9]; Smith [4] and Brown and Jones [5]; Wood et al. [7]

NOTE: Use et al. when three or more names are given for a reference cited in the text.

or as nouns:

as demonstrated in [3], according to [4] and [6]–[9].

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Examples:

- B. Klaus and P. Horn, *Robot Vision*. Cambridge, MA, USA: MIT Press, 1986.
- M. Abramowitz and I. A. Stegun, Eds., *Handbook of Mathematical Functions* (Applied Mathematics Series 55). Washington, DC, USA: NBS, 1964, pp. 32–33.
- L. Stein, “Random patterns,” in *Computers and You*, J. S. Brake, Ed. New York, NY, USA: Wiley, 1994, pp. 55–70.

- R. L. Myer, “Parametric oscillators and nonlinear materials,” in *Nonlinear Optics*, vol. 4, P. G. Harper and B. S. Wherret, Eds. San Francisco, CA, USA: Academic, 1977, pp. 47–160.

Book with Chapter Title

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- J. K. Author, “Title of chapter in the book,” in *Title of Published Book*, X. Editor, Ed., City of Publisher, State (only U.S.), Country: Abbrev. of Publisher, year, ch. x, sec. x, pp. xxx–xxx. Examples:
- T. Ogura, “Electronic government and surveillance-oriented society,” in *Theorizing Surveillance: The Panopticon and Beyond*. Cullompton, U.K.: Willan, 2006, ch. 13, pp. 270–295.
- L. Li, J. Yang, and C. Li, “Super-resolution restoration and image reconstruction for passive millimeter-wave imaging,” in *Image Restoration—Recent Advances and Applications*, A. Histace, Ed., Rijeka, Croatia: InTech, 2012, pp. 25–45.

Conference Paper (Paper Presented at a Conference)

Basic Format:

- J. K. Author, “Title of paper,” presented at the Abbreviated Name of Conf., City of Conf., Abbrev. State, Country, Month and day(s), year, Paper number.

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- D. Caratelli, M. C. Viganó, G. Toso, and P. Angeletti, “Analytical placement technique for sparse arrays,” presented at the 32nd ESA Antenna Workshop, Noordwijk, The Netherlands, Oct. 5–8, 2010.
- J. G. Kreifeldt, “An analysis of surface-detected EMG as an amplitude-modulated noise,” presented at the 1989 Int. Conf. Medicine and Biological Engineering, Chicago, IL, USA, Nov. 9–12, 1989.
- G. W. Juette and L. E. Zeffanella, “Radio noise currents on short sections on bundle conductors,” presented at the IEEE Summer Power Meeting, Dallas, TX, USA, Jun. 22–27, 1990, Paper 90 SM 690-0 PWRS.
- J. Arrillaga and B. Gessner, “Limitation of short-circuit levels by means of HVDC links,” presented at the IEEE Summer Power Meeting, Los Angeles, CA, USA, Jul. 12–17, 1990, Paper 70 CP 637.

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The general form for citing conference proceedings is to list the author and title of the paper, followed by the name of the conference in italics using standard abbreviations. Write out all the remaining words, but omit most articles and prepositions like “of the” and “on.” That is, Proceedings of the 1996 Robotics and Automation Conference becomes Proc. 1996 Robot. Automat. Conf. If an ordinal number is in the conference name, use the numerical form instead of spelling it out (e.g., “1st” instead of “First”). Include the location if given. For U.S. locations, “USA” must be included after city and state.

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- A. Amador-Perez and R. A. Rodriguez-Solis, “Analysis of a CPW-fed annular slot ring antenna using DOE,” in Proc. IEEE Antennas Propag. Soc. Int. Symp., Jul. 2006, pp. 4301–4304.
- G. R. Faulhaber, “Design of service systems with priority reservation,” in Conf. Rec. 1995 IEEE Int. Conf. Commun., pp. 3–8.

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- S. P. Bingulac, “On the compatibility of adaptive controllers,” in Proc. 4th Annu. Allerton Conf. Circuit Syst. Theory, New York, NY, USA, 1994, pp. 8–16.
- W. D. Doyle, “Magnetization reversal in films with biaxial anisotropy,” in 1987 Proc. INTERMAG Conf., pp. 2.2- 1–2.2-6.

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- E. E. Reber, R. L. Michell, and C. J. Carter, “Oxygen absorption in the earth’s atmosphere,” Aerospace Corp., Los Angeles, CA, USA, Tech. Rep. TR-0200 (4230-46)-3, Nov. 1988.
- J. H. Davis and J. R. Cogdell, “Calibration program for the 16-foot antenna,” Elect. Eng. Res. Lab., Univ. Texas, Austin, Tech. Memo. NGL-006-69-3, Nov. 15, 1987.
- R. E. Haskell and C. T. Case, “Transient signal propagation in lossless isotropic plasmas,” USAF Cambridge Res. Labs., Cambridge, MA, USA, Rep. ARCRL-66-234 (II), 1994, vol. 2.
- M. A. Brusberg and E. N. Clark, “Installation, operation, and data evaluation of an oblique-incidence ionosphere sounder system,” in “Radio Propagation Characteristics of the Washington-Honolulu Path,” Stanford Res. Inst., Stanford, CA, USA, Contract NOBSR-87615, Final Rep., Feb. 1995, vol. 1.
- P. Diament, S. L. Richert, and W. L. Lupatkin, “V-line surface-wave radiation and scanning,” Dept. Elect. Eng., Columbia Univ., New York, NY, USA, Sci. Rep. 85, Aug. 1991.

Report Online

Ensure a year is included and add the URL to the end of the reference.

Basic Format:

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Examples:

- R. J. Hijmans and J. van Etten, “Raster: Geographic analysis and modeling with raster data,” R Package Version 2.0-12, Jan. 12, 2012. [Online]. Available: <http://CRAN.R-project.org/package=raster>
- “Teralyzer,” Lytera UG, Kirchhain, Germany. Accessed: Jun. 5, 2014. [Online]. Available: http://www.lytera.de/Terahertz_THz_Spectroscopy.php?id=home

- F. Zhao, "Smartphone solutions white paper," Shenzhen, China, Huawei, White Paper, 2012. [Online]. Available: http://www.huawei.com/ilink/en/download/HW_193034
- Bureau of Meteorology, "Bureau of Meteorology: Measuring Rainfall in Australia," 2009. [Online]. Available: <http://www.bom.gov.au/climate/cdo/about/definitionsrain.shtml#meanrainfall>

M. Theses (B.S., M.S.) and Dissertations (Ph.D.)

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Examples:

- J. O. Williams, "Narrow-band analyzer," Ph.D. dissertation, Dept. Elect. Eng., Harvard Univ., Cambridge, MA, USA, 1993.
- N. Kawasaki, "Parametric study of thermal and chemical nonequilibrium nozzle flow," M.S. thesis, Dept. Electron. Eng., Osaka Univ., Osaka, Japan, 1993.
- N. M. Amer, "The effects of homogeneous magnetic fields on developments of *Tribolium confusum*," Ph.D. dissertation, Radiation Lab., Univ. California, Berkeley, Tech. Rep. 16854, 1995.

*** The state abbreviation is omitted if the name of the university includes the state name, i.e., "Univ. California, Berkeley."

*** • C. Becele, These de doctoral d'état, Univ. Grenoble, Grenoble, France, 1968.

Journals

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Examples:

- M. M. Chiampi and L. L. Zilberti, "Induction of electric field in human bodies moving near MRI: An efficient BEM computational procedure," *IEEE Trans. Biomed. Eng.*, vol. 58, pp. 2787–2793, Oct. 2011, DOI: 10.1109/TBME.2011.2158315.
- M. Ito et al., "Application of amorphous oxide TFT to electrophoretic display," *J. Non-Cryst. Solids*, vol. 354, no. 19, pp. 2777–2782, Feb. 2008.
- R. Fardel, M. Nagel, F. Nuesch, T. Lippert, and A. Wokaun, "Fabrication of organic light-emitting diode pixels by laser-assisted forward transfer," *Appl. Phys. Lett.*, vol. 91, no. 6, Aug. 2007, Art. no. 061103.
- J. Zhang and N. Tansu, "Optical gain and laser characteristics of InGaN quantum wells on ternary InGaN substrates," *IEEE Photon. J.*, vol. 5, no. 2, Apr. 2013, Art. no. 2600111.
- S. Preu, G.H.Döhler, S. Malzer, L.J. Wang, and A. C. Gossard, "Tunable continuous-wave terahertz photo mixer sources and applications," *J. Appl. Phys.*, vol. 109, Mar. 2011, Art. no. 061301.

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