

## ***Journal of Optical Society of America B (JOSA B)***

### **Review Criteria for Research Articles**

The *Journal of the Optical Society of America B* (JOSA B) is an archival-type journal that publishes peer-reviewed articles related to fundamental science of the interaction of light with matter. The journal scope encompasses theoretical and experimental aspects of fiber optics, nonlinear optics, ultrafast phenomena, atomic and molecular physics, THz phenomena, metamaterials, plasmonics, photonic crystals, quantum optics, and nanophotonics. JOSA B considers original research articles, invited reviews, tutorials, and comments on published articles.

To meet JOSA B's goal of publishing high-impact research, submitted papers are subjected to critical review according to the criteria listed below.

#### **Quality of Scientific/Technical Content**

Does the manuscript report on substantial findings related to the interaction of light and matter? Is the paper an original and significant contribution to the field? Are the conclusions supported by the data presented, and is the work placed in proper context? Is prior or related work adequately referenced? Note that papers considered to be incremental, incomplete, or lacking in scientific/technical relevance are likely to be rejected. Does the work warrant publication in an archival journal? Is it likely to be cited by others?

**Rating Options: *Very high, High, Moderate, Low, Very low***

#### **Quality of Presentation**

Is the title accurate and does it clearly identify the subject matter? Is the abstract succinct and comprehensible to a non-specialist? Is the manuscript clearly written and logically organized? Are figures and tables understandable and readable as submitted, including all captions and labels? Is the quality of English language usage and grammar appropriate for an archival journal?

**Rating Options: *Very high, High, Moderate, Low, Very low***

#### **Appropriateness for JOSA B**

Does the subject material fall within the scope of the journal? Will the paper be of interest to the optics community?

**Rating Options: *Very high, High, Moderate, Low, Very low***

#### **Overall Impact**

Reviewers are asked to rate the overall impact of submitted papers assuming appropriate revisions are made. How likely is this paper to make a major impact on the research field covered? Papers with a major impact are expected to be highly cited. Research articles can make an impact through novel results, through enabling new applications, by solving important problems, by providing new theoretical insights, or presenting clear methods, procedures, or reviews to help other researchers perform similar work.

**Rating from 1 (*very high impact*) to 9 (*very low impact*)**

#### **Appropriateness of Supplementary Material**

Visualizations (videos, 2D images, 3D images), tabular data, or citations to datasets in external repositories should be integral to understanding the article and support the results reported. Custom code and design files are acceptable to include as additional information, which is helpful to readers. A [Supplemental Document](#) (PDF) may provide expanded descriptions of materials and methods.

- Is the supplementary material openly accessible, understandable, and readable?
- Does the supplementary material contribute to presentation of the results?
- If a Supplemental Document (PDF) is included, is the information useful and worthwhile for the reader? Is the manuscript coherent without the supplemental PDF file?

**Rating Options: *High, Moderate, Low, Not Applicable***