

osa.bst Sample Application

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This article demonstrates the output generated with the BibTeX style
osa.bst of 2003/07/24 in a LaTeX environment started with

```
\documentclass[12pt]{article}
```

```
\usepackage{osajnl}
```

```
\bibliographystyle{osa}
```

See also <http://www.osa.org/pubs/authors/style/> and
<http://aolp.osa.org/submit/templates/default.cfm>. © 2004 Optical
Society of America

OCIS codes: 010.7340,260.2030,260.3060

1. Rendering of article

Generic articles like these¹⁻¹⁰ have BibTeX entries like

```
@article{Livengood,
```

```
author={T. A. Livengood and K. E. Fast and T. Kostiuik and F. Espenak and D. Buhl  
and J. J. Goldstein and T. Hewagama and K. H. Ro},
```

```
title={Refraction by Earth's Atmosphere near 12 Microns},
```

```
journal={Publ.\ Astr.\ Soc.\ Pacific},
```

```
volume=111,
```

number=758,

pages={512--521},

year=1999}

@article{Lay1,

author={O. P. Lay},

title={The temporal power spectrum of atmospheric fluctuations due to water vapor},

journal={Astron.\ Astrophys.\ Suppl.\ Ser.\},

year=1997,

volume=122,

number=3,

pages={535--545}

}

@article{Matsumoto82,

author={H. Matsumoto},

journal={Metrologia},

title={The refractive index of moist air in the 3- μ m region},

volume=18,

pages={49--52},

year=1982}

@article{Matsumoto84,

author={H. Matsumoto},
journal={Opt.\ Comm.},
title={The refractivities of water vapour for CO₂ laser lines},
volume=50,
pages={356--358},
year=1984}

@article{Chan2,
author={W. F. Chan and G. Cooper and X. Guo and G. R. Burton and C. E. Brion},
title={Absolute optical oscillator strengths for the electronic excitation of atoms at high resolution. {III.} The photoabsorption of argon, krypton, and xenon},
journal={Phys.\ Rev.\ A},
volume= 46,
number= 1,
pages={149--171},
year=1992}

@article{Birch2,
author={K. P. Birch and M. J. Downs},
title={The result of a comparison between calculated and measured values of the refractive index of air},
journal={J. Phys.\ E},
volume=21,

number=7,

pages={694--695},

year=1988}

@article{Centeno,

author = {Melchor {Centeno V.}},

title = {The Refractive Index of Liquid Water in the Near Infra-Red Spectrum},

journal = {J.\ Opt.\ Soc.\ Am.},

volume = {31},

number = {3},

year = {1941},

pages = {244--247}}

@article{Djuris,

author={Aleksandra B. Djuri\v{s}i\'c and Bo\vzidar V. Stani\'c},

title = {Modeling the Wavelength Dependence of the Index of Refraction of Water
in the range of 200 nm to 200 μm },

journal = {Appl.\ Opt.},

volume={37},

pages={2696--2698},

year={1998}}

@article{Carleer,

author={M. Carleer and A. Jenouvrier and A.-C. Vandaele and P. F. Bernath
and M. F. M\’erienne and R. Colin and N. F. Zobov and O. L. Polyansky and J. T
ennyson and V. A. Savin},
title={The near infrared, visible and near ultraviolet overtone spectrum of wate
r},
journal={J. Chem.\ Phys.},
volume=111,
pages={2444--2450},
url={http://www.aip.org/pubservs/pas.html},
year=1999}

@article{Mignerone,
author={R. Mignerone and J. S. Levinger},
title={Index of Refraction and Sum Rules for Helium},
journal={Phys.\ Rev.},
volume= 139,
number= {3A},
pages={646--648},
year=1965}

First author names are abbreviated as initials, volume numbers printed in boldface,
page numbers printed including the ranges, issue numbers are omitted. Author lists

are printed in full, titles added in quotes.

2. Rendering of proceedings and books

The editors in proceedings entries like these ones are ill-formatted^{11,12} with this version of `osa.bst` and need manual re-editing:

```
@proceedings{ESA539,  
  series={ESA Special Publications},  
  editor={Malcom Fridlund and Thomas Henning},  
  publisher={European Space Agency},  
  organization={Max-Planck Institut f\"ur Astronomie},  
  title={Towards Other Earths---DARWIN/TPF and the Search for Extrasolar Terrestri  
al Planets},  
  volume=539,  
  month=apr,  
  year= 2003}
```

```
@book{AS,  
  editor = {Milton Abramowitz and Irene A. Stegun},  
  title = {Handbook of Mathematical Functions},  
  edition = {9th},  
  publisher = {Dover Publications},  
  year = {1972},  
  address = {New York}}
```

3. Rendering of inproceedings

A. *Generic*

This is an example of a proceedings article:¹³

```
@inproceedings{Allard,  
  
  author={France Allard and Isabelle Baraffe and Gilles Chabrier and Travis Barman  
},  
  
  title={Atmospheres of Extrasolar Giant Planets and Brown Dwarfs},  
  
  series={ESA Special Publications},  
  
  editor={Malcom Fridlund and Thomas Henning},  
  
  publisher={European Space Agency},  
  
  booktitle={Towards Other Earths---DARWIN/TPF and the Search for Extrasolar Terrestrial  
},  
  
  volume=539,  
  
  pages={247--252},  
  
  month=oct,  
  
  year= 2003}
```

B. *Special*

If a `series` entry like these¹⁴⁻¹⁶ here contains the string SPIE, OSA or IEEE, it is rendered similar to an article:

```
@inproceedings{Meisner,  
  
  author={Jeffrey A. Meisner and Rudolf S. {Le Poole}},  
  
  editor={Wesley A. Traub},
```

publisher={Int.\ Soc.\ Optical Engineering},
 title={Dispersion affecting the {VLTI} and 10 micron interferometry using {MIDI}
 },
 series={Proc.\ SPIE},
 booktitle={Interferometry for Optical Astronomy {II}},
 volume=4838,
 pages={609--624},
 year=2003}

@inproceedings{Hogenhuis,
 author={Harm Hogenhuis and Martijn Visser and Gustav Ruwiel and Frans Hommes and
 Arno Wielders and Arjan Couwenberg},
 title={Test results of the {VLTI} Delay line verification program},
 series={Proc.\ SPIE},
 editor={Pierre J. Lena and Andreas Quirrenbach},
 publisher={Int.\ Soc.\ Optical Engineering},
 booktitle={Interferometry in Optical Astronomy},
 volume=4006,
 pages={198--206},
 year= 2000}

@inproceedings{Vaillant,
 author={Jerome Vaillant and \\'Eric Thi\'ebaut and Michel Tallon},


```

title={{ELPOA}: Data processing of chromatic differences of the tilt measured
with a polychromatic laser guide star},
series={Proc.\ SPIE},
publisher={Int.\ Soc.\ Optical Engineering},
editor={Peter L. Wizinowich},
booktitle={Adaptive Optical Systems Technology},
volume=4007,
pages={308--315},
year=2000}

```

4. Rendering of phdthesis

A Phd thesis¹⁷ entry is here:

```

@phdthesis{Heidmann,
author = {Paul Scott Heidmann},
title = {The performance of the epsilon and theta convergence acceleration algorithms},
school = {North Dakota State University of Agriculture and Applied Science},
year = 1992}

```

5. Rendering of inbook

The entry for a book article¹⁸ would look like

```

@inbook{Fugate,
author={R.\ Q.\ Fugate},

```

```

title={Adaptive Optics},
booktitle={Handbook of Optics},
volume={III},
publisher={McGraw-Hill},
address={New York},
year=2001,
pages={1.3--1.52}}

```

6. Rendering of techreport

Technical reports^{19,20} would be

```

@techreport{Paranal,
author={Marc Sarazin},
institution={European Southern Observatory},
title={Astroclimatology of Paranal},
year=1999,
url={http://www.eso.org/gen-fac/pubs/astclim/paranal}
}

```

```

@techreport{ParanalICD,
author={G. Jander and B. Koehler and Ph. Gitton},
institution={European Southern Observatory},
title={Functional Description of the {VLTI}},
number={VLT-ICD-ESO-15000-1918, issue 1.0},

```

```
year=1999,  
month=nov,  
pages=40}
```

7. Rendering of unpublished

An unpublished²¹ entry might look as follows:

```
@unpublished{Hase,  
author={Frank Hase},  
year=2003,  
howpublished={priv.\ commun},  
note={{F}orschungszentrum Karlsruhe, Institut f\"ur Meteorologie und Klimaforschung}  
}
```

References

1. T. A. Livengood, K. E. Fast, T. Kostiuik, F. Espenak, D. Buhl, J. J. Goldstein, T. Hewagama, and K. H. Ro, "Refraction by Earth's Atmosphere near 12 Microns," Publ. Astr. Soc. Pacific **111**, 512–521 (1999).
2. O. P. Lay, "The temporal power spectrum of atmospheric fluctuations due to water vapor," Astron. Astrophys. Suppl. Ser. **122**, 535–545 (1997).
3. H. Matsumoto, "The refractive index of moist air in the 3- μ m region," Metrologia **18**, 49–52 (1982).
4. H. Matsumoto, "The refractivities of water vapour for CO₂ laser lines," Opt. Comm. **50**, 356–358 (1984).

5. W. F. Chan, G. Cooper, X. Guo, G. R. Burton, and C. E. Brion, “Absolute optical oscillator strengths for the electronic excitation of atoms at high resolution. III. The photoabsorption of argon, krypton, and xenon,” *Phys. Rev. A* **46**, 149–171 (1992).
6. K. P. Birch and M. J. Downs, “The result of a comparison between calculated and measured values of the refractive index of air,” *J. Phys. E* **21**, 694–695 (1988).
7. M. Centeno V., “The Refractive Index of Liquid Water in the Near Infra-Red Spectrum,” *J. Opt. Soc. Am.* **31**, 244–247 (1941).
8. A. B. Djurišić and B. V. Stanić, “Modeling the Wavelength Dependence of the Index of Refraction of Water in the range of 200 nm to 200 μm ,” *Appl. Opt.* **37**, 2696–2698 (1998).
9. M. Carleer, A. Jenouvrier, A.-C. Vandaele, P. F. Bernath, M. F. Mérienne, R. Colin, N. F. Zobov, O. L. Polyansky, J. Tennyson, and V. A. Savin, “The near infrared, visible and near ultraviolet overtone spectrum of water,” *J. Chem. Phys.* **111**, 2444–2450 (1999).
<http://www.aip.org/pubservs/pas.html>
10. R. Migneron and J. S. Levinger, “Index of Refraction and Sum Rules for Helium,” *Phys. Rev.* **139**, 646–648 (1965).
11. M. Fridlund and T. Henningeds., *Towards Other Earths—DARWIN/TPF and the Search for Extrasolar Terrestrial Planets*, Vol. 539 of ESA Special Publications, Max-Planck Institut für Astronomie (European Space Agency, 2003).
12. M. Abramowitz and I. A. Steguneds., *Handbook of Mathematical Functions*

(Dover Publications, New York, 1972), 9th edn.

13. F. Allard, I. Baraffe, G. Chabrier, and T. Barman, “Atmospheres of Extrasolar Giant Planets and Brown Dwarfs,” in *Towards Other Earths—DARWIN/TPF and the Search for Extrasolar Terrestrial Planets*, M. Fridlund and T. Henning, eds. (European Space Agency, 2003), pp. 247–252.
14. J. A. Meisner and R. S. Le Poole, “Dispersion affecting the VLTI and 10 micron interferometry using MIDI,” in *Interferometry for Optical Astronomy II*, W. A. Traub, ed., Proc. SPIE **4838**, 609–624 (2003).
15. H. Hogenhuis, M. Visser, G. Ruwiel, F. Hommes, A. Wielders, and A. Couwenberg, “Test results of the VLTI Delay line verification program,” in *Interferometry in Optical Astronomy*, P. J. Lena and A. Quirrenbach, eds., Proc. SPIE **4006**, 198–206 (2000).
16. J. Vaillant, E. Thiébaud, and M. Tallon, “ELPOA: Data processing of chromatic differences of the tilt measured with a polychromatic laser guide star,” in *Adaptive Optical Systems Technology*, P. L. Wizinowich, ed., Proc. SPIE **4007**, 308–315 (2000).
17. P. S. Heidmann, *The performance of the epsilon and theta convergence acceleration algorithms*, Ph.D. thesis, North Dakota State University of Agriculture and Applied Science (1992).
18. R. Q. Fugate, *Adaptive Optics* (McGraw-Hill, New York, 2001), Vol. III, pp. 1.3–1.52.
19. M. Sarazin, “Astroclimatology of Paranal,” Tech. rep., European Southern Ob-

servatory (1999).

<http://www.eso.org/gen-fac/pubs/astclim/paranal>

20. G. Jander, B. Koehler, and P. Gitton, “Functional Description of the VLTI,” Tech. Rep. VLT-ICD-ESO-15000-1918, issue 1.0, European Southern Observatory (1999).
21. F. Hase (2003), Forschungszentrum Karlsruhe, Institut für Meteorologie und Klimaforschung.