

# achemso — Support for submissions to American Chemical Society journals\*

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## Abstract

The `achemso` bundle provides a  $\text{\LaTeX}$  class file and  $\text{\BibTeX}$  style file in accordance with the requirements of the American Chemical Society (ACS). The files can be used for any documents, but have been carefully designed and tested to be suitable for submission to ACS journals.

The bundle also includes the `natmove` package. This package is loaded by `achemso`, and provides automatic moving of superscript citations after punctuation.

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## 1 Introduction

Support for  $\text{\BibTeX}$  bibliography following the requirements of the American Chemical Society (ACS), along with a package to make these easy to have been

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available since version one of `achemso`. The re-write from version 1 to version 2 made a number of improvements to the package, and also added a number of new features. However, neither version one nor version two of the package was targeted directly at use for submissions to ACS journals. This new release of `achemso` addresses this issue.

The bundle consists of four parts. The first is a  $\text{\LaTeX}$   $2_{\epsilon}$  class, intended for use in submissions. It is based on the standard `article` class, but makes various changes to facilitate ease of use. The second part is the  $\text{\LaTeX}$  package. The package contains the parts of the bundle which are appropriate for use with other document classes.<sup>1</sup> Thirdly, two  $\text{\BibTeX}$  style files are included. These are used by both the class and the package, but can be used directly if desired. Finally, an example document is included; this is intended to act a potential template for submission, and illustrates the use of the class file.

## 2 Installation

The package is supplied in `dtx` format and as a pre-extracted zip file, `achemso.tds.zip`. The later is most convenient for most users: simply unzip this in your local `texmf` directory and run `texhash` to update the database of file locations. If you want to unpack the `dtx` yourself, running `tex achemso.dtx` will extract the package whereas `latex achemso.dtx` will extract it and also typeset the documentation.

Typesetting the documentation requires a number of packages in addition to those needed to use the package. This is mainly because of the number of demonstration items included in the text. To compile the documentation without error, you will need the packages:

- `array`
- `booktabs`
- `hypdoc`
- `listings`
- `lmodern`
- `mathpazo`
- `microtype`

## 3 Requirements

The `achemso` class requires the following packages:

- `caption`
- `float`
- `geometry`

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<sup>1</sup>For example, when writing a thesis.

- natbib
- setspace
- xkeyval

These are normally present in the current major TeX distributions, but are also available from [The Comprehensive TeX Archive Network](#).

## 4 The class file

The class file has been designed for use in submitting journals to the ACS. It uses all of the modifications described here (those in the package as well as those in the class). The accompanying example manuscript can be used as a template for the correct use of the class file. It is intended to act as a model for submission.

When submitting communications to *J. Am. Chem. Soc.*, the class will automatically lay the document out in the publication style. This allows the author to judge the length of text submitted more accurately. Changing the manuscript in the demonstration document to `communication` will illustrate the effect.

### 4.1 Class options

- `journal` (*env.*) The class supports a limited number of options, which are specifically-targeted at submission. The class uses the keyval system for options, in the form `key=value`. The most important option is `journal`. This is an identifier for the target journal: from <https://pubs.acs.org/>, the identifier is the part of the URL after `https://pubs.acs.org/journal/`, e.g. for *J. Org. Chem.* it would be `jocceah`. If an unknown journal is specified, the package will fall-back on the `journal=jacsat` option.
- `manuscript` (*env.*) The second option is the `manuscript` option. This specifies the type of paper in the manuscript. The values here are `article`, `note`, `communication`, `review`, `letter` and `perspective`. The valid values will depend on the value of `journal`. The `manuscript` option determines whether sections and an abstract are valid. The value `suppinfo` is also available for supporting information.
- `layout` (*env.*) The `achemso` class can produce drafts in two layout styles. The standard setting for the `layout` option is `traditional`, which produces a double-spaced single column manuscript. The alternative setting `twocolumn` will use single spacing and print the text in two columns. The second option is obviously more compact. If the journal requires a particular style this option may be ignored.
- `email` (*env.*) It may be desirable to omit e-mail addresses from the front page of a manuscript. The printing of e-mail addresses can be disabled using the `email` option, which takes Boolean values only. The default is to print e-mail addresses. Notice that phone and fax numbers are only printed if e-mail addresses are printed.

Other options are provided by the package, but when used with the class these are silently ignored. If you need to override the settings chosen by the class, include the settings *after* the `\documentclass` line using `\setkeys`:

```
\documentclass[journal = jacsat]{achemso}
\setkeys{acs}{articletitle = false}
```

## 4.2 Manuscript meta-data

`\author` Inspired by REVTeX, the `achemso` class alters the method for adding author information to the manuscript. Each author should be given as a separate `\author` command. These should be followed by an `\affiliation`, which applies to the preceding authors. The `\affiliation` macro takes an optional argument, for a short version of the affiliation.<sup>2</sup> At least one author should be followed by an `\email` macro, containing contact details. All authors with an e-mail address are automatically marked with a star. The example manuscript demonstrates the use of all of these macros. Notice that `\alsoaffiliation` is used when one (or more) authors work at multiple institutions, while `\altaffiliation` is intended for previous addresses (or other notes). Only `\affiliation` applies to multiple authors: both `\alsoaffiliation` and `\altaffiliation` are set on a per author basis.

```
\author{Author Person}
\author{Second Bloke}
\email{second.bloke@some.place}
\affiliation[University of Sometown]
  {University of Somewhere, Sometown, USA}
\altaffiliation
  {Previous address: Minute University, Nowhereville, USA}
\author{Indus Trialguy}
\email{i.trialguy@sponsor.co}
\affiliation[SponsoCo]
  {Research Department, SponsorCo, BigCity, USA}
\alsoaffiliation{University of Somewhere, Sometown, USA}
```

Repeated entries for `\affiliation` and `\alsoaffiliation` will result in only one address being printed in the address list and footnotes. Repeated `\altaffiliation` entries only produce a single footnote, and can therefore be used for entries such as

```
\author{First Coworker}
\altaffiliation{Contributed equally to this work}
\author{Second Coworker}
\altaffiliation{Contributed equally to this work}
```

if required.

`\fax` The class will recognise the optional information `\fax` and `\phone`, which will be printed along with the lead authors e-mail address. Note that this information is only used for authors who have an e-mail address supplied.

```
\author{Second Bloke}
\email{second.bloke@some.place}
\phone{+xxx (0)yyy zzzzzz}
\fax{+xxx (0)yyy wwwwww}
\affiliation[University of Sometown]
  {University of Somewhere, Sometown, USA}
```

`\and` The method used for setting the meta-data means that the normal `\and` and `\thanks` macros are not appropriate in the `pkgachemso` class. Both produce a warning if used.

`\title` The `\title` macro is extended to accept an optional argument. This is

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<sup>2</sup>This will usually be the university or company name.

intended for a shortened version of the journal title suitable for running headers. Some journals require that authors supply this data: if it is needed then it will be printed in the appropriate place.

```
\title[Short running title]
      {Long title which would not fit in running headers}
```

The meta-data items should be given in the preamble to the L<sup>A</sup>T<sub>E</sub>X file, and no `\maketitle` macro is required in the document body. This is all handled by the class file directly. At least one author, affiliation and e-mail address must be specified.

### 4.3 Floats

`scheme` (*env.*) The class defines three new floating environments: `scheme`, `chart` and `graph`.  
`chart` (*env.*) These can be used as expected to include graphical content. The placement of  
`graph` (*env.*) these new floats and the standard `table` and `figure` floats is altered to be “here” if possible. The contents of all floats is automatically horizontally centred on the page.

### 4.4 Section headers

`\SectionNumbersOff` Some journals have no section numbering by default. This can be set up in  
`\SectionNumbersOn` the appropriate configuration file, but it may be that individual users need to change the decision. The macros `\SectionNumbersOff` and `\SectionNumbersOn` are therefore available: these should be given in the preamble.  
`\SectionsOff` More radically, the entire availability of sections can be turned on and of. This  
`\SectionsOn` is functionality is available to the user *via* the `\SectionsOn` and `\SectionsOff`  
`\AbstractOff` macros, which again are preamble-only. Similar functions are available for the  
`\AbstractOn` abstract: `\AbstractOff` and `\AbstractOn`.

### 4.5 Special sections

`acknowledgement` (*env.*) The sections for acknowledgements and supporting information have dedicated  
`suppinfo` (*env.*) environments available. These ensure that the section headings are generated, and that the text is sized corrected when using creating a Communication.

```
\begin{acknowledgement}
  The authors thank A.N.-Other.
\end{acknowledgement}

\begin{suppinfo}
  Full characterization data for all new compounds.
\end{suppinfo}
```

`tocentry` (*env.*) For generating an entry for the graphical table of content, required by some journals, the environment `tocentry` is available. This prints its content in an appropriately sized box on a separate page. In contrast to the rest of the manuscript, this section is intended to be “print ready” in appearance.

```
\begin{tocentry}
  \includegraphics{toc-entry-graphic}
  Some text to explain the graphic.
\end{tocentry}
```

## 4.6 Miscellaneous commands

`\latin`

The command `\latin` is provided by the class to format Latin phrases such as “et al.” Most ACS journals do not make these italic, but some (for example ACS *Nano*) do. By providing a command, the formatting is left flexible.

`\doi`

The bibliography style prints any DOI values as the argument to the command `\doi`. The default definition will allow printing of special characters but does not create hyperlinks. A more sophisticated version of the command may be set up if `hyperref` is loaded, for example

```
\begin{tocentry}
  \newcommand{\doi}[1]{\href{http://dx.doi.org/#1}{\nolinkurl{#1}}}
\end{tocentry}
```

## 5 The package file

The `achemso` package is independent of the class file, and contains parts of the bundle useful outside of submission to the ACS.

### 5.1 Package options

As with the class options, the package uses the key–value method for option set up. These are used to control the output of citations and bibliographic data. The same options are used when creating journal configurations for the class: this is a task most users will not need to undertake!

`super` (*env.*) The `super` option affects the handling of superscript reference markers. The option switches this behaviour on and off (and takes Boolean values: `super=true` and `super=false` are valid).

`articletitle` (*env.*) The `articletitle` option is a Boolean, and sets whether the title of a paper referenced appears in the bibliography. The default is `articletitle=true`.

`doi` (*env.*) The boolean `doi` option is provided to allow a DOI (Digital Object Identifier) to be included for bibliography entries even where other identification such as page numbers is available. The standard setting is `false`: setting it to `true` will cause DOI numbers to be printed if available.

`chaptertitle` (*env.*) The boolean `chaptertitle` option is provided to allow flexibility for the inclusion of chapter titles for book and related entries. The standard setting is `false`: setting it to `true` will cause chapter titles to be included.

`etalmode` (*env.*) Many journals require that long lists of authors are shortened using ‘et al.’  
`maxauthors` (*env.*) in the references section. The behaviour of the `BIBTEX` styles in this regard is controlled by two options, `etalmode` and `maxauthors`. There are two possible ways to shorten a long list of authors. Some journals require that only the first author is given, followed by ‘et al.’: for this behaviour, set `etalmode=firstonly`:

Jones, A.N. et al.

On the other hand, some journals request that the list of authors is truncated after  $n$  authors. This is set up by the `etalmode=truncate` option:

Jones, A.N.; Bloggs, F.; Nobacon, D. et al.

In both cases, the maximum number of authors permitted before introducing ‘et al.’ is governed by the `maxauthors` option. This option recognises the sentinel value 0, which indicates that no shortening should occur at all.

`biblabel` (*env.*) Redefining the formatting of the numbers used in the bibliography usually requires modifying internal L<sup>A</sup>T<sub>E</sub>X macros. The `biblabel` option makes these changes more accessible: valid values are `plain` (use the number only), `brackets` (surround the number in brackets) and `period` or `fullstop` (follow the number by a full stop/period).

`biochem` (*env.*)  
`biochemistry` (*env.*) Most ACS journals use the same bibliography style, with the only variation being the inclusion of article titles. However, a small number of journals use a rather different style; the journal *Biochemistry* is probably the most prominent. The `biochemistry` or `biochem` option uses the style of *Biochemistry* for the bibliography, rather than the normal ACS style.

## 5.2 Bibliography notes

`\bibnote` `achemso` provides the `\bibnote` macro. This is intended for addition of notes to the bibliography (references). The macro accepts a single argument, which is transferred to the bibliography by B<sub>B</sub>T<sub>E</sub>X. In analogy to `\footnote`, the macros `\bibnotemark` and `\bibnotetext` are available for dividing up the marker for a note from the text.

```
Some text \bibnote{This note text will be in the bibliography}.
Some text.1
```

The functionality for bibnotes in `achemso` is based on that in the `notes2bib` package. The `notes2bib` package can be loaded with the `achemso` package, and no clash will occur. With the class file, `notes2bib` will be ignored if requested, to prevent issues on submission to the ACS.

## 6 The BibT<sub>E</sub>X style files

`achemso` is supplied with two style files, `achemso.bst` and `biochem.bst`. The direct use of these without the `achemso` package file is not recommended, but is possible. The style files can be loaded in the usual way, with a `\bibliographystyle` command. The `natbib` package must be loaded by the L<sup>A</sup>T<sub>E</sub>X file concerned, if the `achemso` package is not in use.

The style files are designed to use the `mciteplus` package if it is available, but to work even if it is not. When `mciteplus` is present, it is possible to automatically produce references of the form

(5) (a) Arduengo, A. J., III; Dias, H. V. R.; Harlow, R. L.; Kline, M. J. *Am. Chem. Soc.* **1992**, *114*, 5530–5534; (b) Appelhans, L. N.; Zuccaccia, D.; Kovacevic, A.; Chianese, A. R.; Miecznikowski, J. R.; Macchioni, A.; Clot, E.; Eisenstein, O.; Crabtree, R. H. *J. Am. Chem. Soc.* **2005**, *127*, 16299–16311; (c) Arduengo, A. J., III; Gamper, S. F.; Calabrese, J. C.; Davidson, F. J. *Am. Chem. Soc.* **1994**, *116*, 4391–4394.

as demonstrated in the example document. When `mciteplus` is not present, this functionality is not available but the style files will work normally.

The `BibTeX` style files implement the bibliographic style specified by the ACS in *The ACS Style Guide*.<sup>2</sup> By default, article titles are not included in output using the `achemso.bst` file, but are with the `biochem.bst` file.

The style used by the ACS does not differentiate between `BibTeX` `book`, `inbook`, `collection` and `incollection` entries. As a result, the appearance of these entry types depends on the fields available. Named subdivisions of a book (for example, chapters where each has a named author) should be given in the `title` field, with the title of the book itself in the `booktitle` field. The `chapter` field should be used for a chapter number, and is printed as part of the pagination.

One frequently asked question is why some people see an empty first item in their bibliography when using the `achemso` package or class. This is usually because they have downloaded the `LaTeX` files and done a local installation without also updating the `BibTeX` style. The two must be from the same version of `achemso`: they are designed to work together.

## 7 The `natmove` package

The `natmove` package does only one job. It brings the ability to move punctuation after citations, using code borrowed from the `cite` package. Both the `achemso` class and package load `natmove` automatically.

```
Some text \cite{Coghill2006} some more text.\\
Some text ending a sentence \cite{Coghill2006}.
Some text2 some more text.
Some text ending a sentence.2
```

This is deactivated for other citation types.

```
Some text \citeyear{Coghill2006}.\\
Some text \citeauthor{Coghill2006}.\\
Some text \citenum{Coghill2006}.
Some text 2006.
Some text Coghill and Garson.
Some text 2.
```

The package does nothing if the `super` option has not been given to `natbib`. This means that the source can be written without needing to decide where citations will to appear, with the `super` option for `natbib` controlling the result.

`\natmovechars` One user macro is provided: `\natmovechars`. This contains the characters which are moved before superscript punctuation. The default contents is `,;:.` and can be set using `\renewcommand*`:

```
\renewcommand*\natmovechars{.,}
Some text2, more text.2
Some text \cite{Coghill2006},
more text \cite{Coghill2006}.
```

## 8 Implementation

A lot of the work done by the package is also needed by the class. Loading the package and the class makes load-order awkward. Instead, the two parts are done in one place. Sandwiching the common code are two slices of dedicated



material for the class and the package. Some of this is needed “early”, before the common material, whilst the rest is “late”.

## 8.1 Early class-only code

So that there is no confusion, the base class is loaded early.

```
1 <*class>
2 \ProvidesClass{achemso}
3 [2022-09-28 v3.13d Submission to ACS journals]
4 \LoadClass[12pt,letter]{article}
```

`\acs@warning` The code for a warning is created so that it works for the package too.

```
5 \newcommand*\acs@warning{\ClassWarning{achemso}}
6 </class>
```

## 8.2 Early package-only code

The package and the class should not both be loaded, as the two use the same internal macro names. On the other hand, if the class is not in use a reminder is printed to use it if possible.

```
7 <*package>
8 \ProvidesPackage{achemso}
9 [2022-09-28 v3.13d Support for ACS journals]
10 \ifclassloaded{achemso}{%
11   \PackageInfo{achemso}{%
12     You have already loaded the ‘achemso’ class:\MessageBreak
13     loading the package will abort%
14   }%
15   \endinput
16 }{%
17   \PackageInfo{achemso}{%
18     When writing a submission to an ACS journal, please\MessageBreak
19     use the achemso document class%
20   }%
21 }
```

`\acs@warning` The code for a warning is created so that it works for the class too.

```
22 \newcommand*\acs@warning{\PackageWarning{achemso}}
23 </package>
```

## 8.3 Common code

`\acs@ifundefined` A non-expandable test for defined macros: does not add to the hash table.

```
24 <*package | class>
25 \newcommand*\acs@ifundefined[1]{%
26   \begingroup\expandafter\expandafter\expandafter\endgroup
27   \expandafter\ifx\csname #1\endcsname\relax
28     \expandafter\@firstoftwo
29   \else
30     \expandafter\@secondoftwo
31   \fi
32 }
```

The first stage needed is to read the package options given. Although xkeyval was perhaps not the best choice, changing this now would be rather risky.

```
33 \RequirePackage{xkeyval}
```

`\acs@keyval@bool` A support macro for making Boolean options: the xkeyval version is only available in newer releases.

```
34 \newcommand*\acs@keyval@bool[2]{%
35   \acs@ifundefined{acs@#1#2}{%
36     \acs@warning{Unknown option ‘#2’ for key #1}%
37   }{%
38     \@nameuse{acs@#1#2}%
39   }%
40 }
```

`\ifacs@abbreviations` These are all very trivial definitions: to avoid issues with older versions of xkeyval each definition is done directly.

```
\ifacs@articletitle
\ifacs@biochem 41 \newif\ifacs@abbreviations
\ifacs@chaptertitle 42 \newif\ifacs@articletitle
\ifacs@doi 43 \newif\ifacs@biochem
\ifacs@email 44 \newif\ifacs@doi
\ifacs@hyperref 45 \newif\ifacs@chaptertitle
\ifacs@keywords 46 \newif\ifacs@email
\ifacs@super 47 \newif\ifacs@hyperref
48 \newif\ifacs@keywords
49 \newif\ifacs@super
50 \define@key{acs}{abbreviations}[true]{%
51   \acs@keyval@bool{abbreviations}{#1}%
52 }
53 \define@key{acs}{articletitle}[true]{%
54   \acs@keyval@bool{articletitle}{#1}%
55 }
56 \define@key{acs}{biochem}[true]{%
57   \acs@keyval@bool{biochem}{#1}%
58 }
59 \define@key{acs}{doi}[true]{%
60   \acs@keyval@bool{doi}{#1}%
61 }
62 \define@key{acs}{chaptertitle}[true]{%
63   \acs@keyval@bool{chaptertitle}{#1}%
64 }
65 \define@key{acs}{email}[true]{%
66   \acs@keyval@bool{email}{#1}%
67 }
68 \define@key{acs}{hyperref}[true]{%
69   \acs@keyval@bool{hyperref}{#1}%
70 }
71 \define@key{acs}{keywords}[true]{%
72   \acs@keyval@bool{keywords}{#1}%
73 }
74 \define@key{acs}{super}[true]{%
75   \acs@keyval@bool{super}{#1}%
76 }
77 \define@key{acs}{usetitle}[true]{%
```

```

78 \acs@keyval@bool{articletitle}{#1}%
79 }

```

\acs@journal Trivial again: done without using xkeyval for the same reasons as before.

```

\acs@layout 80 \newcommand*\acs@journal{jacsat}
\acs@manuscript 81 \newcommand*\acs@layout{traditional}
\acs@maxauthors 82 \newcommand*\acs@manuscript{article}
83 \newcommand*\acs@maxauthors{15}
84 \define@key{acs}{journal}{%
85 \def\acs@journal{#1}%
86 }
87 \define@key{acs}{layout}{%
88 \def\acs@layout{#1}%
89 }
90 \define@key{acs}{manuscript}{%
91 \def\acs@manuscript{#1}%
92 }
93 \define@key{acs}{maxauthors}{%
94 \def\acs@maxauthors{#1}%
95 }

```

\ifacs@etal@truncate The setup for the etalmode option is quite simple: just look for the appropriate macros.

```

\acs@etal@truncate 96 \newif\ifacs@etal@truncate
97 \define@key{acs}{etalmode}{%
98 \acs@ifundefined{acs@etal@#1}{%
99 \acs@warning{%
100 Unknown value ‘#1’ for\MessageBreak etalmode option%
101 }%
102 }{%
103 \@nameuse{acs@etal@#1}%
104 }%
105 }
106 \newcommand*\acs@etal@firstonly{\acs@etal@truncatefalse}
107 \newcommand*\acs@etal@truncate{\acs@etal@truncatetrue}

```

\acs@activate@biblabel The biochemistry option is an alias for biochem. The biblabel option is a choice, which is implemented using a csname search. The group here prevents hash table pollution, whilst the xkeyval method is avoided as it is more complex than it is worth!

```

108 \define@key{acs}{biochemistry}{%
109 \setkeys{acs}{biochem = #1}%
110 }
111 \define@key{acs}{biblabel}{%
112 \acs@ifundefined{acs@biblabel@#1}{%
113 \acs@warning{%
114 Unknown value ‘#1’ for\MessageBreak biblabel option%
115 }%
116 }{%
117 \acs@activate@biblabel{\@nameuse{acs@biblabel@#1}}%
118 }%
119 }
120 \newcommand*\acs@activate@biblabel{}

```

```

121 \*class)
122 \let\acs@activate@biblabel\AtEndOfClass
123 \AtEndOfClass{\let\acs@activate@biblabel\@firstofone}
124 \*class)
125 \*package)
126 \let\acs@activate@biblabel\AtEndOfPackage
127 \AtEndOfPackage{\let\acs@activate@biblabel\@firstofone}
128 \*package)

```

\acs@biblabel@brackets The macros to implement the idea above for biblabels.

```

\acs@biblabel@fullstop 129 \newcommand*\acs@biblabel@brackets{\def\bibnumfmt##1{##1}}
\acs@biblabel@period 130 \newcommand*\acs@biblabel@fullstop{\def\bibnumfmt##1{##1.}}
\acs@biblabel@plain 131 \newcommand*\acs@biblabel@period{\def\bibnumfmt##1{##1.}}
132 \newcommand*\acs@biblabel@plain{\def\bibnumfmt##1{##1}}

```

Set up some defaults.

```

133 \setkeys{acs}{
134   email = true,
135   super = true
136 }

```

Loading some other packages depends on the options chosen, so they are processed now.

```

137 \ProcessOptionsX*

```

\acs@manuscript@communication For text comparisons.

```

\acs@manuscript@letter 138 \newcommand*\acs@manuscript@communication{communication}
\acs@manuscript@note 139 \newcommand*\acs@manuscript@letter{letter}
\acs@manuscript@review 140 \newcommand*\acs@manuscript@note{note}
\acs@manuscript@suppinfo 141 \newcommand*\acs@manuscript@review{review}
142 \newcommand*\acs@manuscript@suppinfo{suppinfo}

```

\acs@niib@create To avoid needing to load the notes2bib package, especially as the plan is to move  
 bibnote that package to L<sup>A</sup>T<sub>E</sub>X<sub>3</sub> internal syntax, achemso provides a minimal version  
 \thebibnote here. The first step is to create macros which will need a guard against notes2bib  
 \bibnote already having been loaded. To allow the package and class to behave differently  
 \bibnotemark these are actually applied later.

```

\bibnotetext 143 \newcommand*\acs@niib@create{%
\printbibnotes 144   \@namedef{ver@notes2bib.sty}{%
145     2009/04/20 v1.6a Integrating notes into the bibliography (achemso
146     version)
147   }%
148   \@ifundefined{c@bibnote}{\newcounter{bibnote}}{}
149   \def\thebibnote{%
150     Note-\the\value{bibnote}%
151   }%
152   \DeclareRobustCommand*\bibnote[1][\thebibnote]{%
153     \stepcounter{bibnote}%
154     \def\acs@niib@after@text{\cite{##1}}%
155     \acs@niib@text{##1}%
156   }%
157   \DeclareRobustCommand*\bibnotemark[1][\thebibnote]{%
158     \stepcounter{bibnote}%
159     \cite{##1}%

```

```

160 }%
161 \DeclareRobustCommand*\bibnotetext}[1][\thebibnote]{%
162   \let\acs@niib@after@text\relax
163   \acs@niib@text{##1}%
164 }%
165 \newcommand*\printbibnotes{%
166   \ifnum\the\value{bibnote}>\z@ \relax
167   \nocite{achemso-control}%
168   \acs@bibliography{acs-\jobname}%
169   \fi
170 }%
171 }

```

`\acs@niib@after@text` After the text.

```

172 \newcommand*\acs@niib@after@text{}

```

`\acs@niib@text` The `\acs@niib@text` macro is the outer part of the writing system. It does not absorb the text of note, as without  $\epsilon$ -TeX this is bad news. The same file is used for notes and the control entry for the bibliography style.

```

173 \newcommand*\acs@niib@text{%
174   \@bsphack
175   \if@filesw
176     \expandafter\acs@niib@write
177   \else
178     \expandafter\acs@niib@no@write
179   \fi
180 }

```

`\acs@niib@write` Writing verbatim without  $\epsilon$ -TeX.

```

\acs@niib@write@aux@i 181 \newcommand*\acs@niib@write[1]{%
\acs@niib@write@aux@ii 182   \begingroup
183     \let\do\@makeother
184     \dospecials
185     \catcode'\{ 1\relax
186     \catcode'\} 2\relax
187     \acs@niib@write@aux@i{#1}%
188   }
189 \newcommand*\acs@niib@write@aux@i[1]{%
190   \long\def\@tempa##1{%
191     \def\@tempa{##1}%
192     \@onelevel@sanitize\@tempa
193     \expandafter\endgroup
194     \expandafter\def\expandafter\@tempa\expandafter{\@tempa}%
195     \acs@niib@write@aux@ii{#1}%
196   }%
197   \catcode'\^^M 10\relax
198   \@tempa
199 }
200 \newcommand*\acs@niib@write@aux@ii[1]{%
201   \immediate\write\acs@bib@file{%
202     @Misc\string{#1,^^J%
203     \space\space note = \string{\@tempa\string},^^J%
204     \string}^^J%
205   }%

```

```

206 \@esphack
207 \acs@niib@after@text
208 }

```

\acs@niib@no@write If no files are to be written, a bit of tidying up.

```

209 \newcommand\acs@niib@no@write[2]{%
210 \@esphack
211 \acs@niib@after@text
212 }

```

\nmv@natbib@detect The functionality of notes2bib is combined with the standard \cite macro, to  
\acs@nmv@activate give automatic note-like data in the bibliography.

```

\acs@autonote 213 \AtBeginDocument{
214 \def\nmv@natbib@detect{%
215 \ifNAT@super
216 \expandafter\acs@nmv@activate
217 \else
218 \expandafter\acs@autonote
219 \fi
220 }
221 }
222 \newcommand*\acs@nmv@activate{%
223 \let\nmv@citex@nat\@citex
224 \let\@citex\nmv@citex
225 \let\nmv@cite\cite
226 \renewcommand*\cite}[2][{}]{%
227 \nmv@ifmtarg{##1}{%
228 \nmv@citetrue
229 \nmv@cite{##2}%
230 }{%
231 \nocite{##2}%
232 \bibnote{Ref.~\citenum{##2}, ##1}%
233 }%
234 }%
235 }
236 \newcommand*\acs@autonote{%
237 \let\nmv@cite\cite
238 \renewcommand*\cite}[2][{}]{%
239 \nmv@ifmtarg{##1}{%
240 \nmv@cite{##2}%
241 }{%
242 \nocite{##2}%
243 \bibnote{Ref.~\citenum{##2}, ##1}%
244 }%
245 }%
246 }

```

Ensure bibentry works

```

247 \AtBeginDocument{
248 \@ifpackageloaded{bibentry}
249 {%
250 \patchcmd{\BR@nobib}{thebibliography}{mcitethebibliography}
251 {}{}%
252 }

```

```

253     {}%
254 }

\acs@bib@file Some information or creating the control file for BibTEX is set up.
\acs@bib@message 255 \newwrite\acs@bib@file
\acs@bib@name 256 \newcommand*\acs@bib@message{%
257   This is an auxiliary file used by the ‘achemso’ bundle.^^J%
258   This file may safely be deleted. It will be recreated as required.^^J
259 }
260 \newcommand*\acs@bib@name{acs-\jobname.bib}

\acs@bib@write The control information for BibTEX needs to be written to a special file. The main
\acs@bib@write@aux writing macro is quite simple. Actually writing the information is left to the code
for \bibliography, so that this only happens if needed.
261 \newcommand*\acs@bib@write{%
262   \if@filesw
263     \expandafter\acs@bib@write@aux
264   \fi
265 }
266 \AtBeginDocument{\acs@bib@write}
267 \newcommand*\acs@bib@write@aux{%
268   \immediate\openout\acs@bib@file\acs@bib@name\relax
269   \immediate\write\acs@bib@file{\acs@bib@message}%
270   \edef\@tempa##1##2{%
271     \space\space##1\space = "##2",^^J%
272   }%
273   \immediate\write\acs@bib@file{%
274     @Control\string{%
275       achemso-control,^^J%
276       \@tempa{ctrl-article-title\space}{%
277         \ifacs@articletitle yes\else no\fi
278       }%
279       \@tempa{ctrl-chapter-title\space}{%
280         \ifacs@chaptertitle yes\else no\fi
281       }%
282       \@tempa{ctrl-doi\space\space\space\space\space\space\space\space
283         \space\space\space\space}{%
284         \ifacs@doi yes\else no\fi
285       }%
286       \@tempa{ctrl-etal-number\space\space\space}{\acs@maxauthors}%
287       \@tempa{ctrl-etal-firstonly}{%
288         \ifacs@etal@truncate no\else yes\fi
289       }%
290       \string}^^J%
291     }%
292     \immediate\write\@auxout{%
293       \string\citation\string{achemso-control\string}%
294     }%
295     \AtEndDocument{%
296       \immediate\closeout\acs@bib@file\relax
297     }%
298 }

\acs@bibliography The \bibliography macro is now patched so that everything works correctly.
\bibliography

```

```

299 \AtBeginDocument{%
300   \let\acs@bibliography\ bibliography
301   \def\ bibliography#1{%
302     \acs@bibliography{acs-\jobname,#1}%
303   }%
304 }

```

`\latin` The journal *ACS Nano* formats Latin phrases differently from every other ACS journal: we provide a `\latin` command to cover this.

```

305 \AtBeginDocument{
306   \providecommand{\latin}[1]{#1}
307 }
308 </package | class>

```

## 8.4 Late class-only code

Most of the power of the class is now created. First, a few options are reset so that any given by the user are effectively ignored.

```

309 < *class>
310 \setkeys{acs}{
311   abbreviations = false,
312   articletitle  = true,
313   biblabel      = brackets,
314   biochem       = false,
315   doi           = false,
316   etalmode      = firstonly,
317   keywords      = false,
318   maxauthors    = 15,
319   super         = true
320 }

```

When using the class, `notes2bib` is always emulated. Other standard support packages can now be loaded.

```

321 \acs@niib@create
322 \RequirePackage[margin=2.54cm]{geometry}
323 \RequirePackage{
324   caption,
325   etoolbox,
326   float,
327   graphicx,
328   setspace,
329   url
330 }
331 \ifacs@hyperref
332   \expandafter\RequirePackage
333 \else
334   \expandafter\@gobble
335 \fi
336 {hyperref}
337 \AtBeginDocument{\doublespacing}

```

`\title` For the meta-data, the REVTeX bundle provides a good model for the commands `\@title` to give the author. `\gdef` is used here to avoid any odd grouping issues.

`\acs@title@short`



```

338 \renewcommand*{\title}[2][]{%
339   \gdef\acs@title@short{#1}%
340   \gdef\@title{#2}%
341   \ifx\acs@title@short\@empty
342     \global\let\acs@title@short\@title
343   \fi
344 }
345 \@onlypreamble\title

\acs@author@cnt achemso tracks the number authors, affiliations and alternative affiliations.
\acs@affil@cnt
\acs@affil@alt@cnt
346 \newcount\acs@author@cnt
347 \newcount\acs@affil@cnt
348 \newcount\acs@affil@alt@cnt

\acs@footnote@cnt Two counts for getting affiliation footnotes correct.
\acs@affil@marker@cnt
349 \newcount\acs@footnote@cnt
350 \newcount\acs@affil@marker@cnt

\author The author macro stores the current author details and sets the affiliation of the
author to the current one. Everything is \global so that there is no possibility of
begin trapped inside a group. The affiliation counter is always one behind, and
so it is locally incremented to keep the logic of the code clear elsewhere.
351 \def\author#1{%
352   \global\advance\acs@author@cnt\@ne\relax
353   \expandafter\gdef\csname @author@\@roman\acs@author@cnt\endcsname{#1}%
354   \begingroup
355     \advance\acs@affil@cnt\@ne
356     \expandafter\xdef\csname @author@affil@\@roman
357       \acs@author@cnt\endcsname
358       {\the\acs@affil@cnt}%
359   \endgroup
360 }
361 \@onlypreamble\author

\and Neither \and nor \thanks are used by the document class.
\thanks
362 \def\and{%
363   \acs@warning{%
364     \string\and\space not used by the achemso class: please see
365     the\MessageBreak package documentation for details%
366   }%
367 }
368 \def\thanks{%
369   \acs@warning{%
370     \string\thanks\space not used by the achemso class: please see
371     the\MessageBreak the package documentation for details%
372   }%
373 }

\affiliation As with \author, everything is \global just in case. The system insists that
affiliations come after authors. Before anything is committed, a check is made
that the affiliation has not already been seen.
374 \newcommand*\affiliation[2][\relax]{%
375   \ifnum\acs@author@cnt>\z@\relax

```

```

376 \acs@affil@ifdup{#2}{%
377 \acs@affil@swap{#2}%
378 }{%
379 \global\advance\acs@affil@cnt\@ne\relax
380 \expandafter\gdef\csname @address@\@roman\acs@affil@cnt\endcsname
381 {#2}%
382 \ifx\relax#1\relax
383 \expandafter\gdef\csname @affil@\@roman\acs@affil@cnt\endcsname
384 {#2}%
385 \else
386 \expandafter\gdef\csname @affil@\@roman\acs@affil@cnt\endcsname
387 {#1}%
388 \fi
389 }%
390 \else
391 \acs@warning{Affiliation with no author}%
392 \fi
393 }
394 \@onlypreamble\affiliation

```

\acs@affil@ifdup A short test for two addresses being identical.  
\acs@affil@ifdup@aux

```

395 \newcommand*\acs@affil@ifdup[1]{%
396 \begingroup
397 \def\@tempa{#1}%
398 \@tempswafalse
399 \@tempcnta\z@\relax
400 \acs@affil@ifdup@aux
401 \if@tempswa
402 \aftergroup\@firstoftwo
403 \else
404 \aftergroup\@secondoftwo
405 \fi
406 \endgroup
407 }
408 \newcommand*\acs@affil@ifdup@aux{%
409 \advance\@tempcnta\@ne\relax
410 \expandafter\expandafter\expandafter\def\expandafter\expandafter
411 \expandafter\@tempb\expandafter\expandafter\expandafter\expandafter
412 {\csname @address@\@roman\@tempcnta\endcsname}%
413 \ifx\@tempa\@tempb
414 \expandafter\@tempswatrue
415 \else
416 \ifnum\@tempcnta<\acs@affil@cnt\relax
417 \expandafter\expandafter\expandafter\acs@affil@ifdup@aux
418 \fi
419 \fi
420 }

```

\acs@affil@swap If the affiliation has already been given, then all of the authors need to be checked  
\acs@affil@swap@aux to make sure that the correct affiliation is used. First, the loop from above is used  
to find the correct number for the duplicate.

```

421 \newcommand*\acs@affil@swap[1]{%
422 \begingroup
423 \def\@tempa{#1}%

```

```

424 \tempcnta\z@\relax
425 \tempcntb\z@\relax
426 \acs@affil@ifdup@aux
427 \advance\acs@affil@cnt\@ne\relax
428 \acs@affil@swap@aux
429 \endgroup
430 }
431 \newcommand*\acs@affil@swap@aux{%
432 \advance\tempcntb\@ne\relax
433 \expandafter\ifnum\csname @author@affil@\@roman\tempcntb\endcsname
434 = \acs@affil@cnt\relax
435 \expandafter\xdef\csname @author@affil@\@roman\tempcntb\endcsname{%
436 \the\tempcnta
437 }%
438 \fi
439 \ifnum\tempcntb<\acs@author@cnt\relax
440 \expandafter\acs@affil@swap@aux
441 \fi
442 }

```

`\alsoaffiliation` To allow complex affiliations , two commands are needed. The first deals with `\acs@alsoaffil@find` affiliations that are in some way shared by several authors. This is tracked on a per author basis.

```

443 \newcommand*\alsoaffiliation[2][\relax]{%
444 \ifnum\acs@author@cnt>\z@\relax
445 \acs@affil@ifdup{#2}{%
446 \acs@alsoaffil@find{#2}%
447 }{%
448 \global\advance\acs@affil@cnt\@ne\relax
449 \tempcnta\acs@affil@cnt\relax
450 \expandafter\gdef\csname @address@\@roman\acs@affil@cnt\endcsname
451 {#2}%
452 \ifx\relax#1\relax
453 \expandafter\gdef\csname @affil@\@roman\acs@affil@cnt\endcsname
454 {#2}%
455 \else
456 \expandafter\gdef\csname @affil@\@roman\acs@affil@cnt\endcsname
457 {#1}%
458 \fi
459 }%
460 \ifundefined{@author@alsoaffil@\@roman\acs@author@cnt}{%
461 \expandafter\xdef\csname @author@alsoaffil@\@roman\acs@author@cnt
462 \endcsname{\the\tempcnta}%
463 }{%
464 \expandafter\xdef\csname @author@alsoaffil@\@roman\acs@author@cnt
465 \endcsname{%
466 \csname @author@alsoaffil@\@roman\acs@author@cnt\endcsname
467 ,\the\tempcnta
468 }%
469 }%
470 \else
471 \acs@warning{Affiliation with no author}%
472 \fi
473 }

```

```

474 \newcommand*\acs@alsoaffil@find[1]{%
475   \begingroup
476   \def\@tempa{#1}%
477   \@tempcnta\z@\relax
478   \@tempcntb\z@\relax
479   \acs@affil@ifdup@aux
480 \expandafter\endgroup
481 \expandafter\@tempcnta\the\@tempcnta\relax
482 }

```

`\altaffiliation` For the alternative affiliation, a second count is kept, and the affiliation is “attached” to the author. The way these are stored means that the appropriate affiliation number can be recovered later, and so printed correctly when things get complex.

```

483 \newcommand*\altaffiliation[1]{%
484   \ifnum\acs@author@cnt>\z@\relax
485   \begingroup
486     \acs@altaffil@ifdup{#1}{%
487       \expandafter\xdef\csname @author@altaffil@\@roman\acs@author@cnt
488         \endcsname{\the\@tempcnta}%
489     }{%
490       \global\advance\acs@affil@alt@cnt\@ne\relax
491       \expandafter\gdef\csname @altaffil@\@roman\acs@affil@alt@cnt
492         \endcsname{#1}%
493       \expandafter\xdef\csname @author@altaffil@\@roman\acs@author@cnt
494         \endcsname{\the\acs@affil@alt@cnt}%
495     }%
496   \endgroup
497 \else
498   \acs@warning{Affiliation with no author}%
499 \fi
500 }
501 \@onlypreamble\altaffiliation

```

`\acs@altaffil@ifdup` This is very similar to the same routine for normal affiliations but with the appropriate name changes.

```

502 \newcommand*\acs@altaffil@ifdup[1]{%
503   \def\@tempa{#1}%
504   \@tempswafalse
505   \@tempcnta\z@\relax
506   \ifnum\acs@affil@alt@cnt>\z@\relax
507     \expandafter\acs@altaffil@ifdup@aux
508   \fi
509   \if@tempswa
510     \expandafter\@firstoftwo
511   \else
512     \expandafter\@secondoftwo
513   \fi
514 }
515 \newcommand*\acs@altaffil@ifdup@aux{%
516   \advance\@tempcnta\@ne\relax
517   \expandafter\expandafter\expandafter\def\expandafter\expandafter
518     \expandafter\@tempb\expandafter\expandafter\expandafter
519     {\csname @altaffil@\@roman\@tempcnta\endcsname}%

```

```

520 \ifx\@tempa\@tempb
521 \expandafter\@tempswatrue
522 \else
523 \ifnum\@tempcnta<\acs@affil@alt@cnt\relax
524 \expandafter\expandafter\expandafter\acs@altaffil@ifdup@aux
525 \fi
526 \fi
527 }

```

\email E-mail addresses are attached to authors as well.

```

528 \newcommand*\email[1]{%
529 \ifnum\acs@author@cnt>\z@ \relax
530 \expandafter\gdef\csname @email@\@roman\acs@author@cnt\endcsname
531 {#1}%
532 \else
533 \acs@warning{E-mail with no author}%
534 \fi
535 }
536 \@onlypreamble\email

```

\fax Fax and phone numbers are similar.

```

\phone 537 \newcommand*\fax[1]{%
538 \ifnum\acs@author@cnt>\z@ \relax
539 \expandafter\gdef\csname @fax@\@roman\acs@author@cnt\endcsname
540 {#1}%
541 \else
542 \acs@warning{Fax number with no author}%
543 \fi
544 }
545 \@onlypreamble\fax
546 \newcommand*\phone[1]{%
547 \ifnum\acs@author@cnt>\z@ \relax
548 \expandafter\gdef\csname @phone@\@roman\acs@author@cnt\endcsname
549 {#1}%
550 \else
551 \acs@warning{Phone number with no author}%
552 \fi
553 }
554 \@onlypreamble\phone

```

\abbreviations Some journals use these.

```

\@abbreviations 555 \newcommand*\abbreviations[1]{%
\keywords 556 \gdef\@abbreviations{#1}%
\@keywords 557 }
558 \newcommand*\@abbreviations{}
559 \@onlypreamble\abbreviations
560 \newcommand*\keywords[1]{%
561 \gdef\@keywords{#1}%
562 }
563 \newcommand*\@keywords{}
564 \@onlypreamble\keywords

```

\acs@abbreviations@print For printing the key simple meta-data.

```

\acs@keywords@print 565 \newcommand*\acs@abbreviations@print{%
\acs@title@short@print

```

```

566 \ifx\@abbreviations\@empty\else
567 \section*{Abbreviations}
568 \@abbreviations
569 \par
570 \fi
571 }
572 \newcommand*\acs@keywords@print{%
573 \ifx\@keywords\@empty\else
574 \section*{Keywords}
575 \@keywords
576 \par
577 \fi
578 }
579 \newcommand*\acs@title@short@print{%
580 \section*{Running header}
581 \acs@title@short
582 \par
583 }

```

```

\acs@space@pre@title Lengths for \@maketitle.
\acs@space@post@title 584 \newlength\acs@space@pre@title
\acs@space@post@author 585 \setlength\acs@space@pre@title{2em}
\acs@space@post@address 586 \newlength\acs@space@post@title
\acs@space@post@email 587 \setlength\acs@space@post@title{1.5em}
\acs@maketitle@width 588 \newlength\acs@space@post@author
589 \setlength\acs@space@post@author{1em}
590 \newlength\acs@space@post@address
591 \setlength\acs@space@post@address{1em}
592 \newlength\acs@space@post@email
593 \setlength\acs@space@post@email{1.5em}
594 \newlength\acs@maketitle@width
595 \setlength\acs@maketitle@width{\textwidth}

```

```

\affilsize Some simple size commands.
\authorsize 596 \newcommand*\affilsize{\normalsize}
\emailsize 597 \newcommand*\authorsize{\large}
\titlesize 598 \newcommand*\emailsize{\normalsize}
599 \newcommand*\titlesize{\LARGE}

```

```

\authorfont Font settings for \@maketitle.
\authorfont 600 \newcommand*\affilfont{\itshape}
\emailfont 601 \newcommand*\authorfont{\sffamily}
\titlefont 602 \newcommand*\emailfont{}
603 \newcommand*\titlefont{\bfseries\sffamily}

```

```

\ps@acs A shortcut to make page styles.
604 \newcommand*\ps@acs{}
605 \let\ps@acs\ps@plain

```

```

\@maketitle With the changes outlined above in place, a new \@maketitle macro is needed.
\@maketitle@title@hook This is partially a copy of the existing, but rather heavily modified.
606 \def\@maketitle{%
607 \pagestyle{acs}%

```

```

608 \ifnum\acs@author@cnt<\z@\relax
609   \acs@warning{No authors defined: At least one author is required}%
610 \fi
611 \newpage
612 \null
613 \vspace*{\acs@space@pre@title}%
614 \begin{center}
615   \begin{minipage}{\acs@maketitle@width}
616     \begin{center}
617       {%
618         \titlefont
619         \titlesize
620         \let\@fnsymbol\acs@author@fnsymbol
621         \let\footnote\acs@title@footnote
622         \acs@maketitle@suppinfo \@title
623         \acs@title@footnote@check
624         \global\acs@footnote@cnt\c@footnote
625         \@maketitle@title@hook
626       \par
627     }%
628     \vspace*{\acs@space@post@title}%
629     {%
630       \authorsize
631       \authorfont
632       \frenchspacing
633       \acs@author@list
634     \par
635   }%
636   \vspace*{\acs@space@post@author}%
637   {%
638     \affilsize
639     \affilfont
640     \acs@address@list
641   \par
642 }%
643 \vspace*{\acs@space@post@address}%
644 {%
645   \emailsize
646   \emailfont
647   \ifacs@email
648     \expandafter\acs@contact@details
649   \fi
650 }%
651 \vspace*{\acs@space@post@email}%
652 \end{center}
653 \end{minipage}
654 \end{center}%
655 }
656 \newcommand*\@maketitle@title@hook{}

```

\acs@maketitle@suppinfo This is spun out so that it can be avoided if necessary: this is done on the sly.

```

657 \newcommand*\acs@maketitle@suppinfo{%
658   \ifx\acs@manuscript\acs@manuscript@suppinfo
659     Supporting Information:\\

```

```

660 \fi
661 }

```

`\acs@title@footnote` Footnotes need to be created so that they appear correctly.

```

\acs@title@footnote@check 662 \newcommand*\acs@title@footnote[1]{%
663   \footnotemark
664   \g@addto@macro\@thanks{\footnotetext{#1}}%
665 }
666 \newcommand\acs@title@footnote@check{%
667   \ifx\@thanks\@empty
668   \else
669     \begingroup
670     \toks@=\expandafter{\@thanks}%
671     \xdef\@thanks{%
672       \begingroup
673       \let\noexpand\@fnsymbol\noexpand\acs@author@fnsymbol
674       \the\toks@
675     \endgroup
676   }%
677   \endgroup
678   \fi
679 }

```

`\acs@contact@details` A general contact details macro.

```

680 \newcommand*\acs@contact@details{%
681   { \sffamily E-mail: \acs@email@list }%
682   \acs@number@list
683 }

```

`\@thanks` The `\@thanks` macro is used as a hook to generate the footnotes if needed.

```

684 \let\@thanks\@empty

```

`\acs@author@list` Printing the author list needs to do several things. The appropriate separators between authors are created and the author names themselves are printed.

```

685 \newcommand*\acs@author@list{%
686   \@tempcnta\z@\relax
687   \ifnum\acs@author@cnt=\z@\relax\else
688     \expandafter\acs@author@list@main
689   \fi
690 }

```

`\acs@author@footnotes` The main control macro for producing the author list iterates over each author on the list. The result is stored as `\acs@author@listing`.

```

\acs@author@list@main 691 \newcommand*\acs@author@footnotes{}
692 \newcommand*\acs@author@list@main{%
693   \advance\@tempcnta\@ne\relax
694   \def\acs@author@footnotes{}%
695   \acs@author@list@and
696   \space
697   \@nameuse{\@author@\@roman\@tempcnta}%
698   \acs@author@list@comma
699   \acs@author@star
700   \acs@author@affil

```



```

701 \acs@author@affil@also
702 \acs@author@affil@alt
703 \ifx\@empty\acs@author@footnotes\else
704 \textsuperscript{\acs@author@footnotes}%
705 \fi
706 \ifnum\@tempcnta<\acs@author@cnt\relax
707 \expandafter\acs@author@list@main
708 \fi
709 }

```

\acs@author@list@and Simple checks to add an “and” and a comma.

```

\acs@author@list@comma 710 \newcommand*\acs@author@list@and{%
711 \ifnum\acs@author@cnt=\@ne\relax\else
712 \ifnum\@tempcnta=\acs@author@cnt\relax
713 \space and%
714 \fi
715 \fi
716 }
717 \newcommand*\acs@author@list@comma{%
718 \ifnum\acs@author@cnt>\tw@\relax
719 \ifnum\@tempcnta<\acs@author@cnt\relax
720 ,%
721 \fi
722 \fi
723 }

```

\acs@author@star A check for an e-mail for an author: if so, add a star.

```

\acs@author@star@aux 724 \newcommand*\acs@author@star{%
725 \acs@ifundefined{@email@\@roman\@tempcnta}\@{}%
726 \acs@author@star@aux
727 }%
728 }
729 \newcommand*\acs@author@star@aux{%
730 \protected@edef\acs@author@footnotes{%
731 \acs@author@fnsymbol{\z@}%
732 \ifnum\acs@affil@cnt>\@ne\relax
733 ,%
734 \else
735 \ifnum\acs@affil@alt@cnt>\z@\relax
736 ,%
737 \fi
738 \fi
739 }%
740 }

```

\acs@author@affil The main affiliation of the author is checked for, and assuming one is found the appropriate symbol is added to the list.

```

741 \newcommand*\acs@author@affil{%
742 \acs@ifundefined{%
743 @affil@\@roman\csname @author@affil@\@roman\@tempcnta\endcsname
744 }{%
745 \acs@warning{%
746 No affiliation given for author\MessageBreak
747 \@nameuse{@author@\@roman\@tempcnta}%

```

```

748 }%
749 }{%
750 \acs@author@affil@aux
751 }%
752 }
753 \newcommand*\acs@author@affil@aux{%
754 \ifnum\acs@affil@cnt>\@ne\relax
755 \expandafter\acs@affil@marker@cnt\csname @author@affil@\@roman
756 \@tempcnta\endcsname\relax
757 \advance\acs@affil@marker@cnt\acs@footnote@cnt\relax
758 \protected@edef\acs@author@footnotes{%
759 \acs@author@footnotes
760 \acs@author@fnsymbol{\acs@affil@marker@cnt}}%
761 }%
762 \else
763 \ifnum\acs@affil@alt@cnt>\z\relax
764 \acs@affil@marker@cnt\@ne\relax
765 \advance\acs@affil@marker@cnt\acs@footnote@cnt\relax
766 \protected@edef\acs@author@footnotes{%
767 \acs@author@footnotes
768 \acs@author@fnsymbol{\acs@affil@marker@cnt}}%
769 }%
770 \fi
771 \fi
772 }

```

\acs@author@affil@also The “also” affiliations are generated by a loop as there may be more than one.

```

\acs@author@affil@also@aux 773 \newcommand*\acs@author@affil@also{%
774 \acs@ifundefined{@author@alsoaffil@\@roman\@tempcnta}{-}{%
775 \acs@author@affil@also@aux
776 }%
777 }
778 \newcommand*\acs@author@affil@also@aux{%
779 \expandafter\@for\expandafter\@tempa\expandafter:\expandafter
780 =\csname @author@alsoaffil@\@roman\@tempcnta\endcsname\do{%
781 \acs@affil@marker@cnt\@tempa\relax
782 \advance\acs@affil@marker@cnt\acs@footnote@cnt\relax
783 \protected@edef\acs@author@footnotes{%
784 \acs@author@footnotes
785 ,%
786 \acs@author@fnsymbol{\acs@affil@marker@cnt}}%
787 }%
788 }%
789 }

```

\acs@author@affil@alt Alternative affiliations get the correct affiliation number back out from the stored data. There are then two corrections: one for the total number of main affiliations and a second in case there is a footnote to the title.

```

790 \newcommand*\acs@author@affil@alt{%
791 \acs@ifundefined{@author@altaffil@\@roman\@tempcnta}{-}{%
792 \acs@author@affil@alt@aux
793 }%
794 }
795 \newcommand*\acs@author@affil@alt@aux{%

```

```

796 \expandafter\acs@affil@marker@cnt
797 \csname @author@altaffil@\@roman\@tempcnta\endcsname\relax
798 \advance\acs@affil@marker@cnt\acs@affil@cnt\relax
799 \advance\acs@affil@marker@cnt\acs@footnote@cnt\relax
800 \protected@edef\acs@author@footnotes{%
801   \acs@author@footnotes
802   ,%
803   \acs@author@fnsymbol{\acs@affil@marker@cnt}%
804 }%
805 }

```

```

\acs@author@fnsymbol The ACS have an extended list of symbols. The star appears at the special position
\acs@author@fnsymbol@aux zero.
\acs@author@fnsymbol@loop
\acs@author@fnsymbol@loop@aux@i
\acs@author@fnsymbol@loop@aux@ii
\acs@author@fnsymbol@loop@aux@m
\acs@author@fnsymbol@loop@aux@Q
\acs@author@fnsymbol@symbol
806 \newcommand*{\acs@author@fnsymbol}[1]{%
807   \ensuremath{%
808     \expandafter\acs@author@fnsymbol@aux\expandafter{\number#1 }%
809   }%
810 }
811 \newcommand*{\acs@author@fnsymbol@aux}[1]{%
812   \ifnum#1>10 %
813     \expandafter\acs@author@fnsymbol@loop
814   \else
815     \expandafter\acs@author@fnsymbol@symbol
816   \fi
817   {#1}%
818 }
819 \newcommand*{\acs@author@fnsymbol@loop}[1]{%
820   \acs@author@fnsymbol@loop@aux@i#1%
821 }
822 \newcommand*{\acs@author@fnsymbol@loop@aux@i}[2]{%
823   \acs@author@fnsymbol@symbol{\ifnum#2=0 10\else #2\fi}%
824   \expandafter\acs@author@fnsymbol@loop@aux@ii\romannumeral #1000Q{}%
825   {\acs@author@fnsymbol@symbol{\ifnum#2=0 10\else #2\fi}}%
826 }
827 \newcommand*{\acs@author@fnsymbol@loop@aux@ii}[1]{%
828   \@nameuse{\acs@author@fnsymbol@loop@aux@#1}%
829 }
830 \def\acs@author@fnsymbol@loop@aux@m#1Q#2#3{%
831   \acs@author@fnsymbol@loop@aux@ii#1Q{#2#3}{#3}%
832 }
833 \newcommand*{\acs@author@fnsymbol@loop@aux@Q}[2]{#1}
834 \newcommand*{\acs@author@fnsymbol@symbol}[1]{%
835   \ifcase #1 *\or
836     \dagger\or
837     \ddagger\or
838     \P\or
839     \S\or
840     \|\or
841     \bot\or
842     \#\or
843     @\or
844     \triangle\or
845     \nabla
846   \fi

```

847 }

\acs@address@list Loop over the addresses and any extra affiliations and print them all: if there  
 \acs@address@list@auxi is only one, omit the marker entirely. There is also a need to watch out for any  
 \acs@address@list@auxii footnotes from the title.

```

848 \newcommand*\acs@address@list{%
849   \ifnum\acs@affil@cnt>\z@
850     \expandafter\acs@address@list@auxi
851   \else
852     \acs@warning{No affiliations: at least one affiliation is needed}%
853   \fi
854 }
855 \newcommand*\acs@address@list@auxi{%
856   \ifnum0%
857     \ifnum\acs@affil@cnt>\@ne 1\fi
858     \ifnum\acs@affil@alt@cnt>\z@ 1\fi
859     >\z@
860     \expandafter\acs@address@list@auxii
861   \else
862     \@address@i\par
863   \fi
864 }
865 \newcommand*\acs@address@list@auxii{%
866   \@tempcnta\z@
867   \acs@affil@marker@cnt\acs@footnote@cnt
868   \loop\ifnum\@tempcnta<\acs@affil@cnt
869     \advance\@tempcnta\@ne
870     \advance\acs@affil@marker@cnt\@ne
871     \acs@author@fnsymbol{\acs@affil@marker@cnt}%
872     \@nameuse{@address@\@roman\@tempcnta}\par
873   \repeat
874   \@tempcnta\z@
875   \loop\ifnum\@tempcnta<\acs@affil@cnt
876     \advance\@tempcnta\@ne
877     \advance\acs@affil@marker@cnt\@ne
878     \acs@ifundefined{@altaffil@\@roman\@tempcnta}
879     {}
880     {%
881       \acs@author@fnsymbol{\acs@affil@marker@cnt}%
882       \@nameuse{@altaffil@\@roman\@tempcnta}\par
883     }%
884   \repeat
885 }
```

\acs@fnsymbol@org Footnotes are done in two stages. First the main affiliation is handled, then the  
 \acs@affil@list possible alternative. There is a need to check for the possibility that there is only  
 \acs@affil@list@aux one main affiliation but one or more alternative ones.

```

886 \newcommand*\acs@fnsymbol@org{}
887 \newcommand*\acs@affil@list{%
888   \let\acs@fnsymbol@org\@fnsymbol
889   \let\@fnsymbol\acs@author@fnsymbol
890   \@tempcnta\z@\relax
891   \@tempcntb\z@\relax
892   \ifnum\acs@affil@cnt>\@ne\relax
```

```

893 \expandafter\acs@affil@list@aux
894 \else
895 \ifnum\acs@affil@alt@cnt>\z@ \relax
896 \acs@affil@marker@cnt\@ne \relax
897 \advance\acs@affil@marker@cnt\acs@footnote@cnt \relax
898 \footnotetext[\acs@affil@marker@cnt]{\@affil@i}%
899 \@tempcnta\@ne \relax
900 \fi
901 \fi
902 \ifnum\acs@affil@alt@cnt>\z@ \relax
903 \expandafter\acs@affil@alt@list
904 \fi
905 \let\@fnsymbol\acs@fnsymbol@org
906 }
907 \newcommand*\acs@affil@list@aux{%
908 \advance\@tempcnta\@ne \relax
909 \acs@affil@marker@cnt\@tempcnta \relax
910 \advance\acs@affil@marker@cnt\acs@footnote@cnt \relax
911 \footnotetext[\acs@affil@marker@cnt]{%
912 \@nameuse{\@affil@\@roman\@tempcnta}%
913 }%
914 \ifnum\@tempcnta<\acs@affil@cnt \relax
915 \expandafter\acs@affil@list@aux
916 \fi
917 }

```

\acs@affil@alt@list The secondary loop for alternative affiliations is similar.  
\acs@affil@alt@list@aux

```

918 \newcommand*\acs@affil@alt@list{%
919 \advance\@tempcntb\@ne \relax
920 \acs@ifundefined{\@altaffil@\@roman\@tempcntb}{\@}%
921 \acs@altaffil@foot@aux
922 }
923 \ifnum\@tempcntb<\acs@author@cnt \relax
924 \expandafter\acs@affil@alt@list
925 \fi
926 }
927 \newcommand*\acs@altaffil@foot@aux{%
928 \advance\@tempcnta\@ne \relax
929 \acs@affil@marker@cnt\@tempcnta \relax
930 \advance\acs@affil@marker@cnt\acs@footnote@cnt \relax
931 \footnotetext[\acs@affil@marker@cnt]{%
932 \@nameuse{\@altaffil@\@roman\@tempcntb}%
933 }%
934 }

```

\acs@email@list@font The final piece of meta-data to print is the e-mail address list. The total number  
\acs@email@list of e-mail addresses given it counted in \@tempcntb, which means a warning  
\acs@email@list@aux can be given if there are none. The group is used so that \UrlFont can be set  
correctly.

```

935 \newcommand*\acs@email@list@font{\sf}
936 \newcommand*\acs@email@list{%
937 \begingroup
938 \def\UrlFont{\acs@email@list@font}%
939 \@tempcnta\z@ \relax

```

```

940 \@tempcntb\z@\relax
941 \acs@email@list@aux
942 \ifnum\@tempcntb=\z@\relax
943 \acs@warning{%
944     No e-mail given:\MessageBreak
945     at least one author must have a contact e-mail%
946 }%
947 \fi
948 \endgroup
949 }
950 \newcommand*\acs@email@list@aux{%
951 \advance\@tempcnta\@ne\relax
952 \ifnum\@tempcnta>\acs@author@cnt\relax\else
953 \acs@ifundefined{@email@\@roman\@tempcnta}{-}{%
954 \advance\@tempcntb\@ne\relax
955 \ifnum\@tempcntb>\@ne\relax
956 ;
957 \fi
958 \expandafter\expandafter\expandafter\url\expandafter
959 \expandafter\expandafter{%
960 \csname @email@\@roman\@tempcnta\endcsname
961 }%
962 }%
963 \expandafter\acs@email@list@aux
964 \fi
965 }

```

\acs@number@list Listing phone and fax numbers is easier as they don't have to be given. Everything  
 \acs@number@list@aux@i is done in one block so that it is possible to know whether to add a new line and  
 \acs@number@list@aux@ii also to keep everything together.

```

966 \newcommand*\acs@number@list{%
967 \begingroup
968 \acs@number@list@aux@i{phone}%
969 \let\@tempb\@tempa
970 \acs@number@list@aux@i{fax}%
971 \ifx\@tempa\@empty
972 \let\@tempa\@tempb
973 \else
974 \ifx\@tempb\@empty\else
975 \protected@edef\@tempa{%
976 \@tempb.\space\@tempa
977 }%
978 \fi
979 \fi
980 \ifx\@tempa\@empty\else
981 \par
982 \@tempa
983 \fi
984 \endgroup
985 }
986 \newcommand*\acs@number@list@aux@i[1]{%
987 \def\@tempa{}%
988 \@tempcnta\z@\relax
989 \def\acs@number@list@aux@ii{%

```

```

990 \advance\@tempcnta\@ne\relax
991 \ifnum\@tempcnta>\acs@author@cnt\relax\else
992 \acs@ifundefined{@#1@\@roman\@tempcnta}{\}%
993 \acs@ifundefined{@email@\@roman\@tempcnta}{\}%
994 \ifx\@tempa\@empty
995 \edef\@tempa{%
996 \nameuse{@#1@\@roman\@tempcnta}%
997 }%
998 \else
999 \edef\@tempa{%
1000 \@tempa
1001 ;
1002 \nameuse{@#1@\@roman\@tempcnta}%
1003 }%
1004 \fi
1005 }%
1006 }%
1007 \expandafter\acs@number@list@aux@ii
1008 \fi
1009 }%
1010 \acs@number@list@aux@ii
1011 \ifx\@tempa\@empty\else
1012 \protected@edef\@tempa{%
1013 \MakeUppercase#1: \@tempa
1014 }%
1015 \fi
1016 }
1017 \newcommand*\acs@number@list@aux@iii{

```

\endabstract

```

\acs@abstract@extras 1018 \g@addto@macro\endabstract{%
1019 \aftergroup\acs@abstract@extras
1020 }
1021 \newcommand*\acs@abstract@extras{%
1022 \ifacs@abbreviations
1023 \acs@abbreviations@print
1024 \par
1025 \fi
1026 \ifacs@keywords
1027 \acs@keywords@print
1028 \par
1029 \fi
1030 }

```

\acs@maketitle@extras A couple of things might need to be added to \maketitle.

```

\acs@maketitle@extras@hook 1031 \newcommand*\acs@maketitle@extras{%
1032 \acs@maketitle@extras@hook
1033 }
1034 \newcommand*\acs@maketitle@extras@hook{
1035 \g@addto@macro{\maketitle}{\acs@maketitle@extras}

```

\maketitle is required by the document class, and must start the document. No variation is allowed, and so it is done automatically.

```

1036 \g@addto@macro{\document}{\maketitle}

```

`scheme (env.)` Three new float types are provided, `scheme`, `chart` and `graph`. These are the most obvious types; for graphs, a slight problem arises with the file extension.

`graph (env.)`

```

1037 \newfloat{scheme}{htbp}{los}
1038 \floatname{scheme}{Scheme}
1039 \newfloat{chart}{htbp}{loc}
1040 \floatname{chart}{Chart}
1041 \newfloat{graph}{htbp}{loh}
1042 \floatname{graph}{Graph}

```

`\schemename` Naming is set up in the same way as the kernel floats.

```

\chartname 1043 \newcommand*\schemename{Scheme}
\graphname 1044 \newcommand*\chartname{Chart}
           1045 \newcommand*\graphname{Graph}

```

The standard floats should appear “here” by default.

```

1046 \floatplacement{table}{htbp}
1047 \floatplacement{figure}{htbp}
1048 \floatstyle{plaintop}
1049 \restylefloat{table}

```

`\acs@floatboxreset` Floats are all centred.

```

1050 \let\acs@floatboxreset\@floatboxreset
1051 \def\@floatboxreset{%
1052   \centering
1053   \acs@floatboxreset
1054 }

```

`\plainref` For legacy support.

```

\ref 1055 \newcommand*\plainref{}
      1056 \AtBeginDocument{\let\plainref\ref}

```

`\acs@section` Both the numbering and existence of section headers may need to be altered.

`\acs@subsection` Some generic functions are therefore provided to deal with this cleanly. First,

`\acs@subsubsection` some original definitions are saved.

```

\acs@startsection@orig 1057 \newcommand*\acs@section{}
                       1058 \let\acs@section\section
                       1059 \newcommand*\acs@subsection{}
                       1060 \let\acs@subsection\subsection
                       1061 \newcommand*\acs@subsubsection{}
                       1062 \let\acs@subsubsection\subsubsection
                       1063 \newcommand*\acs@startsection@orig{}
                       1064 \let\acs@startsection@orig\@startsection

```

`\acs@startsection` A version of `\@startsection` which adds unnumbered sections to the TOC: modelled on `amsart`. This is active as standard.

```

1065 \newcommand\acs@startsection[6]{%
1066   \if@noskipsec \leavevmode \fi
1067   \par \@tempskipa #4\relax
1068   \@afterindenttrue
1069   \ifdim \@tempskipa <\z@ \@tempskipa -\@tempskipa \@afterindentfalse\fi
1070   \if@nobreak \everypar{}\else
1071     \addpenalty\@secpenalty\addvspace\@tempskipa\fi
1072   \@ifstar{\@dblarg{\@sect{#1}{\@m}{#3}{#4}{#5}{#6}}}%

```



```

1073      {\@dblarg{\@sect{#1}{#2}{#3}{#4}{#5}{#6}}}%
1074 }
1075 \let\@startsection\acs@startsection

```

`\acs@startsection@alt` An alternative version of `\@startsection` which never adds numbers.

```

1076 \newcommand*\acs@startsection@alt[6]{%
1077   \if@noskipsec \leavevmode \fi
1078   \par \@tempkipa #4\relax
1079   \@afterindenttrue
1080   \ifdim \@tempkipa <\z@ \@tempkipa -\@tempkipa \@afterindentfalse\fi
1081   \if@nobreak \everypar{}\else
1082     \addpenalty\@secpenalty\addvspace\@tempkipa\fi
1083   \@ifstar{\@ssect{#3}{#4}{#5}{#6}}
1084     {\@ssect{#3}{#4}{#5}{#6}}%
1085 }

```

`\acs@sections@none` When removing sections entirely, a gobble macro is needed.

```

\acs@sections@none@aux 1086 \newcommand*\acs@sections@none{%
1087   \@ifstar{%
1088     \acs@sections@none@aux
1089   }{%
1090     \acs@sections@none@aux
1091   }%
1092 }
1093 \newcommand*\acs@sections@none@aux[2] []{%
1094   \acs@warning{%
1095     (Sub)section ‘#2’ ignored%
1096   }%
1097 }

```

`\SectionNumbersOff` To macros to add or remove the section numbers. The standard setting for the class has them on, but some configurations will turn them off. The names of these functions are both in design space so that users can change the decision easily.

```

1098 \newcommand*\SectionNumbersOff{%
1099   \let\@startsection\acs@startsection@alt
1100 }
1101 \@onlypreamble\SectionNumbersOff
1102 \newcommand*\SectionNumbersOn{%
1103   \let\@startsection\acs@startsection
1104 }
1105 \@onlypreamble\SectionNumbersOn

```

`\SectionsOff` Quite similar for entire sections.

```

\SectionsOn 1106 \newcommand*\SectionsOff{%
1107   \let\section\acs@sections@none
1108   \let\subsection\acs@sections@none
1109   \let\subsubsection\acs@sections@none
1110 }
1111 \@onlypreamble\SectionsOff
1112 \newcommand*\SectionsOn{%
1113   \let\section\acs@section
1114   \let\subsection\acs@subsection

```

```

1115 \let\subsubsection\acs@subsubsection
1116 }
1117 \@onlypreamble\SectionsOn

\tableofcontents Never print TOC in itself.

1118 \begingroup
1119 \toks@=\expandafter{\tableofcontents}
1120 \xdef\tableofcontents{%
1121   \begingroup
1122     \let\noexpand\@startsection\noexpand\acs@startsection@orig
1123     \the\toks@
1124   \endgroup
1125 }
1126 \endgroup

acknowledgement (env.) Simple named sections.
  suppinfo (env.)
1127 \newenvironment{acknowledgement}{%
1128   \acs@section*{\acknowledgementname}%
1129 }{}
1130 \newenvironment{suppinfo}{%
1131   \acs@section*{\suppinfoname}%
1132 }{}

\acknowledgementname A few macros need to get around the changes.
  \bibsection
  \suppinfoname
1133 \newcommand*\acknowledgementname{Acknowledgement}
1134 \AtEndOfClass{%
1135   \def\bibsection{%
1136     \acs@section*{\refname}%
1137   }%
1138 }
1139 \newcommand*\suppinfoname{Supporting Information Available}

\acs@abstract Removing the abstract, if necessary, is done using a trick from the comment
\acs@endabstract package. However, it code is copied here to keep requirements down.
\acs@abstract@start
\acs@abstract@end
\acs@abstract@iffalse
1140 \newcommand*\acs@abstract{}
1141 \let\acs@abstract\abstract
1142 \newcommand*\acs@endabstract{}
1143 \let\acs@endabstract\endabstract
1144 \begingroup
1145 \catcode'\active
1146 \catcode'\relax
1147 \catcode'\relax
1148 \catcode'\relax
1149 \gdef\acs@abstract@start{%
1150   \acs@warning(%
1151     Abstract not allowed for this\MessageBreak
1152     manuscript type
1153   )%
1154   \@bsphack
1155   \catcode'\active
1156   \catcode'\relax
1157   \let\end\fi
1158   \let{\acs@abstract@end% }
1159   \iffalse

```

```

1160 )%{
1161 \gdef\acs@abstract@end#1}{%
1162   \def\@tempa(#1)%
1163   \ifx\@tempa\@currenvir
1164     \@Esphack\endgroup
1165     \if@ignore
1166       \global\@ignorefalse
1167       \ignorespaces
1168     \fi
1169   \else
1170     \expandafter\acs@abstract@iffalse
1171   \fi
1172 }
1173 \endgroup
1174 \newcommand*\acs@iffalse{\iffalse}

```

`\AbstractOff` A very similar pattern to before.

```

\AbstractOn 1175 \newcommand*\AbstractOff{%
1176   \let\abstract\acs@abstract@start
1177   \let\endabstract\acs@abstract@end
1178 }
1179 \@onlypreamble\AbstractOff
1180 \newcommand*\AbstractOn{%
1181   \let\abstract\acs@abstract
1182   \let\endabstract\acs@endabstract
1183 }
1184 \@onlypreamble\AbstractOn

```

`\acs@collect@toks` The content of the graphic TOC entry is processed using a method from `amsmath`  
`\acs@collect@content` *via* `environ`. The entire environment is gathered for typesetting in a box. First,  
`\acs@collect@content` some storage is needed.

```

1185 \newtoks\acs@collect@toks
1186 \newtoks\acs@collect@empty@toks
1187 \newcommand*\acs@collect@begins{}
1188 \newcommand*\acs@collect@content{}

```

`\acs@collect` This is a `\long` version of `\collect@body`.

```

\acs@collect@aux 1189 \newcommand\acs@collect[1]{%
\acs@collect@begins@ 1190   \acs@collect@toks{%
\acs@collect@body 1191     \expandafter#1\expandafter{\the\acs@collect@toks}%
1192   }%
1193   \edef\acs@collect@content{%
1194     \the\acs@collect@toks
1195     \noexpand\end{\@currenvir}%
1196   }%
1197   \acs@collect@toks\acs@collect@empty@toks
1198   \def\acs@collect@begins{b}%
1199   \begingroup
1200     \expandafter\let\csname\@currenvir\endcsname\acs@collect@aux
1201     \edef\acs@collect@content{%
1202       \expandafter\noexpand\csname\@currenvir\endcsname
1203     }%
1204     \acs@collect@content
1205 }

```

```

1206 \newcommand*\acs@collect@aux{}
1207 \long\def\acs@collect@aux#1\end#2{%
1208   \edef\acs@collect@begins{%
1209     \acs@collect@begins@#1\begin\end
1210     \expandafter\@gobble\acs@collect@begins
1211   }%
1212   \ifx\@empty\acs@collect@begins
1213     \endgroup
1214     \@checkend{#2}%
1215     \acs@collect@body{#1}%
1216   \else
1217     \acs@collect@body{#1\end{#2}}%
1218   \fi
1219   \acs@collect@content
1220 }
1221 \newcommand*\acs@collect@begins@{}
1222 \long\def\acs@collect@begins@#1\begin#2{%
1223   \ifx\end#2\else
1224     b\expandafter\acs@collect@begins@
1225   \fi
1226 }
1227 \newcommand\acs@collect@body[1]{%
1228   \global\acs@collect@toks\expandafter{\the\acs@collect@toks#1}%
1229 }

```

\acs@abstract@print Delayed abstract printing works in a similar way, but with some formatting 'built-in'.

```

1230 \newcommand\acs@abstract@print[1]{%
1231   \global\long\def\acs@abstract@text{%
1232     \if@twocolumn
1233       \@restonecoltrue\onecolumn
1234     \else
1235       \@restonecolfalse\newpage
1236     \fi
1237     \acs@section*{Abstract}%
1238     #1%
1239     \if@restonecol
1240       \twocolumn
1241     \else
1242       \newpage
1243     \fi
1244   }%
1245   \AtEndDocument{\acs@abstract@text}%
1246 }

```

\acs@tocentry@print The same approach is taken for the graphical table of content printing. This is done in a box so that everything has a frame around it.

```

\acs@tocentry@print@aux
\acs@tocentry@text
1247 \newcommand{\acs@tocentry@print}[1]{%
1248   \gdef\acs@tocentry@text{\normalsize#1}%
1249   \AtEndDocument{%
1250     \if@twocolumn
1251       \@restonecoltrue\onecolumn
1252     \else
1253       \@restonecolfalse\newpage

```

```

1254 \fi
1255 \acs@tocentry@print@aux
1256 \if@restonecol
1257 \twocolumn
1258 \else
1259 \newpage
1260 \fi
1261 }%
1262 }
1263 \newcommand*\acs@tocentry@print@aux{%
1264 \begingroup
1265 \let\@startsection\acs@startsection@orig
1266 \acs@section*\@tocentryname}%
1267 \tocsize
1268 \sffamily
1269 \singlespacing
1270 \begin{center}
1271 \fbox
1272 {%
1273 \begin{minipage}{\acs@tocentry@width}
1274 \vbox to \acs@tocentry@height{\acs@tocentry@text}%
1275 \end{minipage}%
1276 }%
1277 \end{center}%
1278 \endgroup
1279 }
1280 \newcommand*\acs@tocentry@text{TOC ENTRY REQUIRED}
1281 \newlength{\acs@tocentry@height}
1282 \newlength{\acs@tocentry@width}
1283 \setlength{\acs@tocentry@height}{1.75in}
1284 \setlength{\acs@tocentry@width}{3.25in}

```

`tocentry` (*env.*) Actually creating the entry is pretty easy.

```

1285 \newenvironment{tocentry}{\acs@collect\acs@tocentry@print}{}

```

`\tocentryname` A simple name macro.

```

1286 \newcommand*\tocentryname{TOC Graphic}

```

`\tocsize` The font size for printing the TOC entry.

```

1287 \newcommand*\tocsize{%
1288 \setfontsize\tocsize\@viiipt\@ixpt
1289 }

```

`\acs@type@list` Different journals allow different types of article. A list is set up here: different journals can then alter it. A check function is also provided along with a default.

```

\acs@type@check 1290 \newcommand*\acs@type@list{article,communication,supinfo}
1291 \newcommand*\acs@type@default{article}
1292 \newcommand*\acs@type@check{%
1293 \@tempswafalse
1294 \@for\@tempa:=\acs@type@list\do{%
1295 \ifx\@tempa\acs@manuscript
1296 \expandafter\@tempswatrue
1297 \fi
1298 }%

```

```

1299 \if@tempwa\else
1300 \acs@warning{%
1301     Invalid manuscript type \acs@manuscript:\MessageBreak
1302     changed to default type \acs@type@default
1303 }%
1304 \let\acs@manuscript\acs@type@default
1305 \fi
1306 }

```

A few bits for older versions.

```

1307 \newcommand*\acs@setkeys{\setkeys{acs}}
1308 \let\acs@killabstract\AbstractOff
1309 \let\acs@killsecs\SectionsOff
1310 \newcommand*\acs@validtype[2][article]{%
1311     \def\acs@type@default{#1}%
1312     \def\acs@type@list{#2}%
1313 }

```

\acs@par A saved paragraph.

```

1314 \newcommand*\acs@par{}
1315 \let\acs@par\par

```

\acs@layout@shared Some code is used generally when setting up “press ready” layouts. There is acknowledgement (*env.*) quite a bit here, mainly layout related.

```

suppinfo (env.) 1316 \newcommand*\acs@layout@shared{%
1317     \AtBeginDocument{\singlespacing}%
1318     \twocolumn
1319     \tolerance=2000\relax
1320     \emergencystretch=10pt\relax
1321     \geometry{
1322         letterpaper,
1323         top    = 12.7mm,
1324         bottom = 16.8mm,
1325         left   = 19.3mm,
1326         right  = 19.3mm
1327     }%
1328     \setlength{\columnsep}{8.1mm}%
1329     \setlength{\parindent}{3.3mm}%
1330     \renewenvironment{acknowledgement}{%
1331         \def\@tempa{acknowledgement}%
1332         \ifx\@currenvir\@tempa
1333             \let\par\relax
1334             \acksizes
1335             \vspace{6pt}%
1336             \textbf{\acknowledgementname}%
1337         \else
1338             \acs@section*\acknowledgementname}%
1339         \fi
1340     }{%
1341         \acs@par
1342     }%
1343 }

```

\acksizes More sizes.

\suppsizes

```

1344 \newcommand*\acksizes{\normalsize}
1345 \newcommand*\suppsizes{\normalsize}

```

\acs@layout@nine The class loads twelve point text. To reset it for print layouts, it is easiest to do things directly.

```

\acs@layout@ten 1346 \newcommand*\acs@layout@nine{%
1347   \def\xipt{11}%
1348   \long\def\normalsize{%
1349     \setfontsize\normalsize\ixpt\xipt
1350   }%
1351   \normalsize
1352   \let\@listi\@listI
1353   \abovedisplayskip 5\p@ \@plus2\p@ \@minus 5\p@\relax
1354   \abovedisplayshortskip \z@ \@plus3\p@\relax
1355   \belowdisplayshortskip 3\p@ \@plus3\p@ \@minus 3\p@\relax
1356   \belowdisplayskip\abovedisplayskip\relax
1357   \abovecaptionskip 5\p@\relax
1358   \intextsep 7\p@ \@plus 2\p@ \@minus 2\p@\relax
1359 }
1360 \newcommand*\acs@layout@ten{%
1361   \long\def\normalsize{%
1362     \setfontsize\normalsize\xpt\xiip
1363   }%
1364   \normalsize
1365   \setfontsize\normalsize\xpt\xiip
1366   \let\@listi\@listI
1367   \abovedisplayskip 10\p@ \@plus2\p@ \@minus5\p@\relax
1368   \abovedisplayshortskip \z@ \@plus3\p@\relax
1369   \belowdisplayshortskip 6\p@ \@plus3\p@ \@minus3\p@\relax
1370   \belowdisplayskip \abovedisplayskip\relax
1371 }

```

With all of the standard settings done, the journal configuration can be loaded.

```

1372 \InputIfFileExists{achemso-\acs@journal.cfg}{\}%
1373 \acs@warning{%
1374   Unknown journal '\acs@journal':\MessageBreak
1375   using default configuration JACSAT%
1376 }%
1377 \input{achemso-jacsat.cfg}%
1378 }

```

\thepage Some changes that can always be applied if the manuscript type is appropriate: this saves some repetition in the configuration files.

```

1379 \acs@type@check
1380 \ifx\acs@manuscript\acs@manuscript@note
1381   \SectionsOff
1382 \fi
1383 \ifx\acs@manuscript\acs@manuscript@review
1384   \SectionsOn
1385   \SectionNumbersOn
1386 \fi
1387 \ifx\acs@manuscript\acs@manuscript@suppinfo
1388   \setkeys{acs}{maxauthors = 0}
1389   \def\thepage{S-\arabic{page}}

```

```

1390 \renewcommand*\thefigure{S\@arabic\c@figure}
1391 \renewcommand*\thescheme{S\@arabic\c@scheme}
1392 \renewcommand*\thetable{S\@arabic\c@table}
1393 \AtBeginDocument
1394   {%
1395     \renewcommand*\citenumfont[1]{S#1}%
1396     \renewcommand*\bibnumfmt[1]{(S#1)}%
1397   }
1398 \fi

```

Set up two column layout.

```

1399 \begingroup
1400   \def\@tempa{twocolumn}
1401   \ifx\acs@layout\@tempa
1402     \aftergroup\acs@layout@shared
1403   \fi
1404   \def\@tempa{two-column}
1405   \ifx\acs@layout\@tempa
1406     \aftergroup\acs@layout@shared
1407   \fi
1408 \endgroup
1409 \endclass

```

## 8.5 Late shared code

`\citenumfont` Changes to citations can now be made. The citation styles supplied here require `natbib`, which is loaded with the appropriate options. This part applies to the package as well as the class: it is here so that the load order is correct.

```

1410 \ifclass|package
1411 \ifacs@super
1412   \RequirePackage[sort&compress,numbers,super]{natbib}
1413 \else
1414   \RequirePackage[sort&compress,numbers,round]{natbib}
1415   \def\citenumfont{\textit}
1416 \fi
1417 \define@key{acs}{super}[true]{%
1418   \def\@tempa{#1}%
1419   \def\@tempb{true}%
1420   \ifx\@tempa\@tempb
1421     \setcitestyle{super,open={},close={}}%
1422     \renewcommand*\citenumfont{}%
1423   \else
1424     \setcitestyle{round}%
1425     \renewcommand*\citenumfont{\textit}
1426   \fi
1427 }
1428 \RequirePackage{natmove}

```

The `mciteplus` package allows the construction of lists of references with sub-letters. However, it might not be available, and so it is only loaded if available: the `.bst` files should work either way. There is also a patch to get cross-references correct with the modified `\ref` macro used here. The reason for ensuring that



`\@mciteNatbibCiteCmdList` is defined is that it allows for the case where people prevent `mciteplus` being loaded using `\ver@mciteplus.sty`.

```

1429 \IfFileExists{mciteplus.sty}{%
1430   \RequirePackage{mciteplus}
1431   \providecommand*\@mciteNatbibCiteCmdList}{}%
1432   \edef\@tempa{\noexpand\in@{citenum}\@mciteNatbibCiteCmdList}}%
1433   \@tempa
1434   \ifin@
1435   \else
1436     \edef\@mciteNatbibCiteCmdList{\@mciteNatbibCiteCmdList,citenum}%
1437   \fi
1438 \<!*package>
1439   \def\@mciteSubRef[##1]##2{\plainref{\@mcitereflabelprefix:##1:##2}}
1440 \</!package>
1441 }{}

```

`\acs@bibstyle` The next step is to sort out bibliography formatting. With both the package and the class, the bibliography style is determined without user intervention. The style is stored as it may need to be altered later.

```

1442 \newcommand*\acs@bibstyle{achemso}
1443 \ifacs@biochem
1444   \def\acs@bibstyle{biochem}
1445   \bibliographystyle{biochem}
1446 \else
1447   \bibliographystyle{achemso}
1448 \fi

```

`\acs@bibliographystyle` The original `\bibliographystyle` macro is now disabled: the underlying command is repeated otherwise problems cop up with `chapterbib`.

```

\<bibliographystyle
\bibliographystyle
1449 \newcommand*\acs@bibliographystyle{}
1450 \let\acs@bibliographystyle\bibliographystyle
1451 \def\bibliographystyle#1{%
1452   \acs@warning{\string\bibliographystyle\space ignored}%
1453   \expandafter\acs@bibliographystyle\expandafter{\acs@bibstyle}%
1454 }
1455 \</class | package>

```

## 8.6 Late package-only code

The `notes2bib` code may or may not be activated.

```

1456 \<!*package>
1457 \AtBeginDocument{%
1458   \@ifpackageloaded{notes2bib}{-}{%
1459     \acs@niib@create
1460   }%
1461 }
1462 \</package>

```

## 8.7 Moving citations with `natbib`

The code for moving citations is created as a separate package, as the code needed is the same in both cases.

```

1463 \*natmove)
1464 \ProvidesPackage{natmove}
1465 [2010/01/15 v1.1a Automatic citation moving with natbib]
1466 \RequirePackage{natbib}

```

`\nmv@ifmtarg` To keep down dependence on other packages, the very short code block from `\nmv@ifmtarg` is copied here with an internal name.

```

1467 \newcommand*\nmv@ifmtarg{}
1468 \newcommand*\nmv@ifmtarg{}
1469 \begingroup
1470 \catcode'\Q 3\relax
1471 \long\gdef\nmv@ifmtarg#1{%
1472 \nmv@ifmtarg#1QQ\@secondoftwo\@firstoftwo\@nil
1473 }
1474 \long\gdef\nmv@ifmtarg#1#2Q#3#4#5\@nil{#4}
1475 \endgroup

```

`\ifnmv@cite` A flag is need to watch whether `\cite` or another macro is in use.

```

1476 \newif\ifnmv@cite

```

`\nmv@citex` Using the flag, either the new internal macro, or the natbib original, can be called.

```

1477 \newcommand*\nmv@citex{%
1478 \ifnmv@cite
1479 \expandafter\nmv@citex@moving
1480 \else
1481 \expandafter\nmv@citex@nat
1482 \fi
1483 }

```

`\nmv@after` Later, the argument for `\cite` will need to be saved.

```

1484 \newcommand*\nmv@after{}

```

`\nmv@citex@moving` The new version of `\@citex` is needed that looks ahead of the citation using `\futurelet`. There are three arguments to `\@citex` when using natbib. Other than that, the trick used here is similar to that in `\cite`.

```

1485 \newcommand*\nmv@citex@moving{}
1486 \def\nmv@citex@moving[#1][#2]#3{%
1487 \leavevmode
1488 \skip@\lastskip\relax
1489 \unskip
1490 \begingroup
1491 \def\nmv@after{\nmv@citex@nat[#1][#2]{#3}}%
1492 \global\nmv@citefalse
1493 \nmv@citex@get@next\relax
1494 }

```

`\nmv@citex@end` To get things right at the end.

```

1495 \newcommand*\nmv@citex@end{%
1496 \nmv@after
1497 \endgroup
1498 }

```

`\nmv@citex@get@next` The next token on the input stack is saved into `\nmv@citex@next`, after gobbling up one token.

```

1499 \newcommand*\nmv@citex@get@next[1]{%
1500   \futurelet\nmv@citex@next\nmv@citex@punct
1501 }

```

`\nmv@citex@punct` The working macro for moving the punctuation. This is very much like `\@citey` in the cite package. The initial assumption is that the loop will terminate, and so the recursion call will simply do the finalisation.

```

1502 \newcommand*\nmv@citex@punct{%
1503   \let\nmv@citex@loop\nmv@citex@end
1504   \ifx\nmv@citex@next.\relax
1505     \ifnum\spacefactor<\nmv@citex@sfac\else
1506       \expandafter\expandafter\expandafter\nmv@citex@punct@undouble
1507     \fi
1508   \fi
1509   \expandafter\nmv@citex@punct@aux\natmovechars\@nil
1510   \nmv@citex@loop
1511 }
1512 \newcommand*\nmv@citex@punct@undouble{%
1513   \let\nmv@citex@next\relax
1514   \let\nmv@citex@loop\nmv@citex@get@next
1515 }
1516 \newcommand*\nmv@citex@loop{}

```

`\nmv@citex@punct@aux` The final part of the punctuation moving system.

```

1517 \newcommand*\nmv@citex@punct@aux[1]{%
1518   \ifx\nmv@citex@next#1\@empty
1519     #1%
1520     \let\nmv@citex@loop\nmv@citex@get@next
1521   \fi
1522   \ifx#1\@nil\else
1523     \expandafter\nmv@citex@punct@aux
1524   \fi
1525 }

```

`\nmv@citex@sfac` The value of the spacing factor after a full stop is used to signal doubled punctuation. For French spacing, a bit of patching is needed.

```

1526 \mathchardef\nmv@citex@sfac3000\relax
1527 \expandafter\def\expandafter\frenchspacing\expandafter{%
1528   \frenchspacing
1529   \mathchardef\nmv@citex@sfac1001\relax
1530   \sfcode'\.\nmv@citex@sfac
1531   \sfcode'\?\nmv@citex@sfac
1532   \sfcode'\!\nmv@citex@sfac
1533 }
1534 \ifnum\sfcode'\.=\@m
1535   \frenchspacing
1536 \fi

```

`\nmv@citex@nat` The swap has to be done at the beginning of the document. The internal flag `\nmv@activate` from natbib is used, but under the circumstances we should be safe. `\cite` is also patched to make the system active.

```

\cite

```

```

1537 \newcommand*\nmv@citex@nat{}
1538 \newcommand*\nmv@activate{%
1539   \let\nmv@citex@nat\@citex
1540   \let\@citex\nmv@citex
1541   \let\nmv@cite\cite
1542   \renewcommand*\cite}[2] [] {%
1543     \nmv@ifmtarg{##1}{%
1544       \nmv@citetrue
1545       \nmv@cite{##2}%
1546     }{%
1547       \nmv@citefalse
1548       \nmv@cite[##1]{##2}}%
1549   }%
1550 }

```

`\nmv@natbib@detect` So that natbib options can be set without worrying about load order, natmove doesn't require natbib. So a test is needed to see if it is actually loaded. This is done as a macro so that the effect can be changed by achemso.

```

1551 \newcommand*\nmv@natbib@detect{%
1552   \@ifpackageloaded{natbib}{%
1553     \ifNAT@super
1554       \expandafter\nmv@activate
1555     \fi
1556   }{%
1557     \PackageInfo{natmove}{%
1558       The natbib package is not loaded.\MessageBreak
1559       Loading natmove will do nothing
1560     }%
1561   }%
1562 }
1563 \AtBeginDocument{\nmv@natbib@detect}

```

`\natmovechars` A user macro is needed for moving characters.

```

1564 \newcommand*\natmovechars{.,;:}
1565 \natmove

```

## 8.8 The configuration files

The configuration files for different journals are not very complex. Keeping everything separate simply helps with maintenance.

```

1566 \abmcb8
1567 \ProvidesFile{achemso-abmcb8.cfg}
1568 [2022-09-28 v3.13d achemso configuration: ACS Bio. Med. Chem. Au]
1569 \def\acs@type@list{article,review,letter,perspective,supinfo}
1570 \setkeys{acs}{keywords = true}
1571 \abmcb8
1572 \aeacb3
1573 \ProvidesFile{achemso-aeacb3.cfg}
1574 [2022-09-28 v3.13d achemso configuration: ACS Eng. Au]
1575 \def\acs@type@list{article,review,letter,perspective,supinfo}
1576 \setkeys{acs}{keywords = true}
1577 \aeacb3
1578 \aeacc4

```

```

1579 \ProvidesFile{achemso-aeacc4.cfg}
1580 [2022-09-28 v3.13d achemso configuration: ACS Env. Au]
1581 \def\acs@type@list{article,review,letter,perspective,supinfo}
1582 \setkeys{acs}{keywords = true}
1583 \aeacc4
1584 *amacgu
1585 \ProvidesFile{achemso-amacgu.cfg}
1586 [2022-09-28 v3.13d achemso configuration: ACS Mater. Au]
1587 \def\acs@type@list{article,review,letter,perspective,supinfo}
1588 \setkeys{acs}{keywords = true}
1589 \amacgu
1590 *amachv
1591 \ProvidesFile{achemso-amachv.cfg}
1592 [2022-09-28 v3.13d achemso configuration: ACS Meas. Au]
1593 \def\acs@type@list{article,review,letter,perspective,supinfo}
1594 \setkeys{acs}{keywords = true}
1595 \amachv
1596 *anaccx
1597 \ProvidesFile{achemso-anaccx.cfg}
1598 [2022-09-28 v3.13d achemso configuration: ACS Nanosci. Au]
1599 \def\acs@type@list{article,review,letter,perspective,supinfo}
1600 \setkeys{acs}{keywords = true}
1601 \anaccx
1602 *abmcb8
1603 \ProvidesFile{achemso-abmcb8.cfg}
1604 [2022-09-28 v3.13d achemso configuration: ACS Bio. Med. Chem. Au]
1605 \def\acs@type@list{article,review,letter,perspective,supinfo}
1606 \setkeys{acs}{keywords = true}
1607 \abmcb8
1608 *aoiab5
1609 \ProvidesFile{achemso-aoiab5.cfg}
1610 [2022-09-28 v3.13d achemso configuration: ACS Org. Inorg. Au]
1611 \def\acs@type@list{article,review,letter,perspective,supinfo}
1612 \setkeys{acs}{keywords = true}
1613 \aoiab5
1614 *apcach
1615 \ProvidesFile{achemso-apcach.cfg}
1616 [2022-09-28 v3.13d achemso configuration: ACS Phys. Bio. Med. Chem. Au]
1617 \def\acs@type@list{article,review,letter,perspective,supinfo}
1618 \setkeys{acs}{keywords = true}
1619 \apcach
1620 *appccd
1621 \ProvidesFile{achemso-appccd.cfg}
1622 [2022-09-28 v3.13d achemso configuration: ACS Polym. Au]
1623 \def\acs@type@list{article,review,letter,perspective,supinfo}
1624 \setkeys{acs}{keywords = true}
1625 \appccd
1626 *achre4
1627 \ProvidesFile{achemso-achre4.cfg}
1628 [2022-09-28 v3.13d achemso configuration: Acc. Chem. Res.]
1629 \setkeys{acs}{biblabel = plain}
1630 \def\acs@type@list{article,supinfo}
1631 \def\abstractname{Conspectus}
1632 \achre4

```

```

1633 <*aaembp>
1634 \ProvidesFile{achemso-aaembp.cfg}
1635 [2022-09-28 v3.13d achemso configuration: ACS Appl. Electron. Mater.]
1636 \def\acs@type@list{article,letter,supinfo}
1637 \setkeys{acs}{keywords = true}
1638 </aaembp>
1639 <*aaemcq>
1640 \ProvidesFile{achemso-aaemcq.cfg}
1641 [2022-09-28 v3.13d achemso configuration: ACS Appl. Energy Mater.]
1642 \def\acs@type@list{article,letter,supinfo}
1643 \setkeys{acs}{keywords = true}
1644 </aaemcq>
1645 <*aamick>
1646 \ProvidesFile{achemso-aamick.cfg}
1647 [2022-09-28 v3.13d achemso configuration: ACS Appl. Mater. Interfaces]
1648 \def\acs@type@list{article,letter,supinfo}
1649 \setkeys{acs}{keywords = true}
1650 </aamick>
1651 <*aanmf6>
1652 \ProvidesFile{achemso-aanmf6.cfg}
1653 [2022-09-28 v3.13d achemso configuration: ACS Appl. Nano Mater.]
1654 \def\acs@type@list{article,letter,supinfo}
1655 \setkeys{acs}{keywords = true}
1656 </aanmf6>
1657 <*aapmcd>
1658 \ProvidesFile{achemso-aapmcd.cfg}
1659 [2022-09-28 v3.13d achemso configuration: ACS Appl. Polym. Mater.]
1660 \def\acs@type@list{article,letter,supinfo}
1661 \setkeys{acs}{keywords = true}
1662 </aapmcd>
1663 <*aastgj>
1664 \ProvidesFile{achemso-aastgj.cfg}
1665 [2022-09-28 v3.13d achemso configuration: ACS Agri. Sci. Tech.]
1666 \def\acs@type@list{account,article,letter,retraction,review,viewpoint,supinfo}
1667 \setkeys{acs}{keywords = true}
1668 </aastgj>
1669 <*abseba>
1670 \ProvidesFile{achemso-abseba.cfg}
1671 [2022-09-28 v3.13d achemso configuration: ACS Biomater. Sci. Eng.]
1672 \setkeys{acs}{keywords = true}
1673 \def\acs@type@list{article,review,supinfo}
1674 </abseba>
1675 <*accacs>
1676 \ProvidesFile{achemso-accacs.cfg}
1677 [2022-09-28 v3.13d achemso configuration: ACS Catal.]
1678 \setkeys{acs}{keywords = true}
1679 \def\acs@type@list{article,letter,perspective,review,viewpoints,supinfo}
1680 \SectionNumbersOff
1681 </accacs>
1682 <*acscii>
1683 \ProvidesFile{achemso-acscii.cfg}
1684 [2022-09-28 v3.13d achemso configuration: ACS Central Sci.]
1685 \def\acs@type@list{article,review,supinfo}
1686 \setkeys{acs}{doi = true}

```

```

1687 \SectionNumbersOff
1688 \acscii
1689 \*acbcct
1690 \ProvidesFile{achemso-acbcct.cfg}
1691 [2022-09-28 v3.13d achemso configuration: ACS Chem. Biol.]
1692 \setkeys{acs}{
1693   biblabel = fullstop,
1694   biochem  = true,
1695   super    = false
1696 }
1697 \def\acs@type@list{article,letter,review,supinfo}
1698 \SectionNumbersOff
1699 \acncdm
1700 \*acncdm
1701 \ProvidesFile{achemso-acncdm.cfg}
1702 [2022-09-28 v3.13d achemso configuration: ACS Chem. Neurosci.]
1703 \def\acs@type@list{article,review,letter,supinfo,viewpoint}
1704 \setkeys{acs}{
1705   biblabel = fullstop,
1706   biochem  = true,
1707   keywords = true,
1708   super    = false
1709 }
1710 \acncdm
1711 \*acsccl
1712 \ProvidesFile{achemso-acsccl.cfg}
1713 [2022-09-28 v3.13d achemso configuration: ACS Combinatorial Sci.]
1714 \def\acs@type@list{article,letter,review,perspective,account,note,supinfo}
1715 \setkeys{acs}{keywords = true}
1716 \SectionNumbersOff
1717 \acsccl
1718 \*aesccq
1719 \ProvidesFile{achemso-aesccq.cfg}
1720 [2022-09-28 v3.13d achemso configuration: ACS Earth Space Chem.]
1721 \def\acs@type@list{article,supinfo}
1722 \setkeys{acs}{keywords = true}
1723 \aesccq
1724 \*aelccp
1725 \ProvidesFile{achemso-aelccp.cfg}
1726 [2022-09-28 v3.13d achemso configuration: ACS Energy Lett.]
1727 \def\acs@type@list{letter,perspective,review,viewpoint,focus}
1728 \SectionsOff
1729 \aelccp
1730 \*aeecco
1731 \ProvidesFile{achemso-aeecco.cfg}
1732 [2022-09-28 v3.13d achemso configuration: ACS ES&T Eng.]
1733 \def\acs@type@list{article,feature,perspective,review,viewpoint}
1734 \setkeys{acs}{keywords = true}
1735 \aeecco
1736 \*aewcaa
1737 \ProvidesFile{achemso-aewcaa.cfg}
1738 [2022-09-28 v3.13d achemso configuration: ACS ES&T Water]
1739 \def\acs@type@list{article,feature,perspective,review,viewpoint}
1740 \setkeys{acs}{keywords = true}

```

```

1741 </aewcaa>
1742 <*afsth>
1743 \ProvidesFile{achemso-afsth1.cfg}
1744 [2022-09-28 v3.13d achemso configuration: ACS Food Sci. Tech.]
1745 \def\acs@type@list{account,article,perspective,retraction,review,viewpoint}
1746 \setkeys{acs}{keywords = true}
1747 </afsth>
1748 <*ascefj>
1749 \ProvidesFile{achemso-ascefj.cfg}
1750 [2022-09-28 v3.13d achemso configuration: ACS Infect. Dis.]
1751 \def\acs@type@list{article,letter,perspective,review,viewpoint,supinfo}
1752 \setkeys{acs}{keywords = true}
1753 \SectionsOff
1754 </ascefj>
1755 <*amlccd>
1756 \ProvidesFile{achemso-amlccd.cfg}
1757 [2022-09-28 v3.13d achemso configuration: ACS Macro Lett.]
1758 \def\acs@type@list{letter,supinfo}
1759 \SectionsOff
1760 \setlength{\acs@tocentry@height}{4cm}
1761 \setlength{\acs@tocentry@width}{8cm}
1762 </amlccd>
1763 <*amlcef>
1764 \ProvidesFile{achemso-amlcef.cfg}
1765 [2022-09-28 v3.13d achemso configuration: ACS Mater. Lett.]
1766 \def\acs@type@list{letter,perspective,review,viewpoint,focus}
1767 \SectionsOff
1768 </amlcef>
1769 <*amclct>
1770 \ProvidesFile{achemso-amclct.cfg}
1771 [2022-09-28 v3.13d achemso configuration: ACS Med. Chem. Lett.]
1772 \def\acs@type@list{article,letter,perspective,supinfo}
1773 \SectionNumbersOff
1774 </amclct>
1775 <*amrcda>
1776 \ProvidesFile{achemso-amrcda.cfg}
1777 [2022-09-28 v3.13d achemso configuration: Acc. Mater. Res.]
1778 \def\acs@type@list{account,article,editorial,retraction,supinfo}
1779 </amrcda>
1780 <*ancac3>
1781 \ProvidesFile{achemso-ancac3.cfg}
1782 [2022-09-28 v3.13d achemso configuration: ACS Nano]
1783 \setkeys{acs}{
1784   abbreviations = true,
1785   biblabel      = fullstop,
1786   etalmode      = truncate,
1787   maxauthors    = 20,
1788   keywords      = true
1789 }
1790 \def\acs@type@list{article,perspective,supinfo}
1791 \newcommand*{\latin}[1]{\emph{#1}}
1792 \SectionNumbersOff
1793 </ancac3>
1794 <*acsodf>

```



```

1795 \ProvidesFile{achemso-acsofd.cfg}
1796 [2022-09-28 v3.13d achemso configuration: ACS Omega.]
1797 \def\acs@type@list{article}
1798 \</acsofd>
1799 \*apchd5>
1800 \ProvidesFile{achemso-apchd5.cfg}
1801 [2022-09-28 v3.13d achemso configuration: ACS Photon.]
1802 \def\acs@type@list{article,letter,perspective,review,suppinfo}
1803 \setkeys{acs}{keywords = true}
1804 \ifx\acs@manuscript\acs@manuscript@letter
1805 \SectionNumbersOff
1806 \fi
1807 \</apchd5>
1808 \*aidcbc>
1809 \ProvidesFile{achemso-aidcbc.cfg}
1810 [2022-09-28 v3.13d achemso configuration: ACS Sensors]
1811 \def\acs@type@list{article,letter,perspective,review,suppinfo}
1812 \setkeys{acs}{keywords = true}
1813 \SectionNumbersOff
1814 \</aidcbc>
1815 \*ascecg>
1816 \ProvidesFile{achemso-ascecg.cfg}
1817 [2022-09-28 v3.13d achemso configuration: ACS Sustainable Chem Eng.]
1818 \setkeys{acs}{
1819 biblabel = fullstop,
1820 keywords = true
1821 }
1822 \SectionNumbersOff
1823 \def\acs@type@list{article,feature,letter,perspective,review,suppinfo}
1824 \</ascecg>
1825 \*asbcd6>
1826 \ProvidesFile{achemso-asbcd6.cfg}
1827 [2022-09-28 v3.13d achemso configuration: ACS Synth. Biol.]
1828 \setkeys{acs}{
1829 abbreviations = true,
1830 biblabel = fullstop,
1831 biochem = true,
1832 keywords = true,
1833 super = false
1834 }
1835 \def\acs@type@list{article,letter,note,tutorial,review,suppinfo}
1836 \</asbcd6>
1837 \*ancham>
1838 \ProvidesFile{achemso-ancham.cfg}
1839 [2022-09-28 v3.13d achemso configuration: Anal. Chem.]
1840 \def\acs@type@list{article,note,suppinfo}
1841 \SectionNumbersOff
1842 \</ancham>
1843 \*bichaw>
1844 \ProvidesFile{achemso-bichaw.cfg}
1845 [2022-09-28 v3.13d achemso configuration: Biochemistry]
1846 \setkeys{acs}{
1847 abbreviations = true,
1848 biblabel = brackets,

```

```

1849   biochem      = true,
1850 }
1851 \SectionNumbersOff
1852 \def\acs@maketitle@extras@hook{%
1853   \par
1854   \acs@title@short@print
1855 }
1856 \g@addto@macro{\maketitle}{\newpage}

```

\acs@author@fnsymbol Some changes to do with footnotes: symbols are different and symbol number one can only be used for the title.

```

1857 \def\acs@author@fnsymbol#1{%
1858   \ensuremath{%
1859     \ifcase #1 * \or
1860     \dagger \or
1861     \ddagger \or
1862     \S \or
1863     \parallel \or
1864     \perp \or
1865     \P \or
1866     \parallel \or
1867     \bot \or
1868     \# \or
1869     @ \or
1870     \triangle \or
1871     \nabla \or
1872     #1 %
1873   \fi
1874 }%
1875 }
1876 \def\@maketitle@title@hook{%
1877   \ifnum\acs@footnote@cnt>\@ne
1878   \else
1879     \global\acs@footnote@cnt\@ne
1880   \fi
1881 }

1882 </bichaw>
1883 <*bcches>
1884 \ProvidesFile{achemso-bcches.cfg}
1885 [2022-09-28 v3.13d achemso configuration: Bioconjugate Chem.]
1886 \setkeys{acs}{
1887   biochem = true,
1888   super   = false
1889 }
1890 \SectionNumbersOff
1891 </bcches>
1892 <*bomaf6>
1893 \ProvidesFile{achemso-bomaf6.cfg}
1894 [2022-09-28 v3.13d achemso configuration: Biomacromolecules]
1895 \def\acs@type@list{article,comment,communication,note,review,supinfo}
1896 \SectionNumbersOff
1897 \AtEndOfClass{\SectionsOn}
1898 </bomaf6>

```

```

1899 <*crtoec>
1900 \ProvidesFile{achemso-crtoec.cfg}
1901 [2022-09-28 v3.13d achemso configuration: Chem. Res. Toxicol.]
1902 \setkeys{acs}{
1903   abbreviations = true,
1904   biochem       = true,
1905   keywords      = true
1906 }
1907 \def\acs@maketitle@extras@hook{%
1908   \par
1909   \acs@title@short@print
1910 }
1911 \def\acs@type@list{%
1912   article,perspective,profile,review,suppinfo%
1913 }
1914 \SectionNumbersOff
1915 </crtoec>
1916 <*chreay>
1917 \ProvidesFile{achemso-chreay.cfg}
1918 [2022-09-28 v3.13d achemso configuration: Chem. Rev.]
1919 \def\acs@type@default{review}
1920 \def\acs@type@list{review}

```

The references section is numbered in *Chem. Rev.*

```

1921 \def\bibsection{\acs@section{\refname}}
1922 </chreay>
1923 <*cmatex>
1924 % \begin{macrocode}
1925 \ProvidesFile{achemso-cmatex.cfg}
1926 [2022-09-28 v3.13d achemso configuration: Chem. Mater.]
1927 \setkeys{acs}{keywords = true}
1928 \SectionNumbersOff
1929 \ifx\acs@manuscript\acs@manuscript@communication
1930   \AbstractOff
1931   \SectionsOff
1932 \fi
1933 </cmatex>
1934 <*cgdefu>
1935 \ProvidesFile{achemso-cgdefu.cfg}
1936 [2022-09-28 v3.13d achemso configuration: Cryst. Growth Des.]
1937 \def\acs@type@list{%
1938   article,communication,perspective,suppinfo%
1939 }
1940 \SectionNumbersOff
1941 \ifx\acs@manuscript\acs@manuscript@communication
1942   \SectionsOff
1943 \fi
1944 \setlength{\acs@tocentry@height}{8.9 cm}
1945 \setlength{\acs@tocentry@width}{4.6 cm}
1946 </cgdefu>
1947 <*enfuem>
1948 \ProvidesFile{achemso-enfuem.cfg}
1949 [2022-09-28 v3.13d achemso configuration: Energy Fuels]
1950 \def\acs@type@list{article,review,suppinfo}

```

```

1951 \SectionNumbersOff
1952 </enfuem>
1953 <*esthag>
1954 \ProvidesFile{achemso-esthag.cfg}
1955 [2022-09-28 v3.13d achemso configuration: Environ. Sci. Technol.]
1956 \def\acs@type@list{article,feature,perspective,review,supinfo}
1957 \SectionNumbersOff
1958 </esthag>
1959 <*estlcu>
1960 \ProvidesFile{achemso-estlcu.cfg}
1961 [2022-09-28 v3.13d achemso configuration: Environ. Sci. Technol. Lett.]
1962 \def\acs@type@list{letter,review,supinfo}
1963 \SectionNumbersOff
1964 </estlcu>
1965 <*iecred>
1966 \ProvidesFile{achemso-iecred.cfg}
1967 [2022-09-28 v3.13d achemso configuration: Ind. Eng. Chem. Res.]
1968 \setkeys{acs}{biblabel = brackets}
1969 \SectionNumbersOff
1970 </iecred>
1971 <*inoraj>
1972 \ProvidesFile{achemso-inoraj.cfg}
1973 [2022-09-28 v3.13d achemso configuration: Inorg. Chem.]
1974 \SectionNumbersOff
1975 \ifx\acs@manuscript\acs@manuscript@communication
1976 \AbstractOff
1977 \SectionsOff
1978 \fi
1979 \setkeys{acs}{doi = true}
1980 </inoraj>
1981 <*jaaucr>
1982 \ProvidesFile{achemso-jaaucr.cfg}
1983 [2022-09-28 v3.13d achemso configuration: JACS Au]
1984 \def\acs@type@list{spotlight,account,article,communication,letter,perspective,supinfo}
1985 </jaaucr>
1986 <*jafcau>
1987 \ProvidesFile{achemso-jafcau.cfg}
1988 [2022-09-28 v3.13d achemso configuration: J. Agric. Food Chem.]
1989 \setkeys{acs}{keywords = true}
1990 \def\acs@type@list{article,supinfo}
1991 \SectionNumbersOff
1992 </jafcau>
1993 <*jceda8>
1994 \ProvidesFile{achemso-jceda8.cfg}
1995 [2022-09-28 v3.13d achemso configuration: J. Chem. Ed.]
1996 \setkeys{acs}{keywords = true}
1997 \SectionNumbersOff
1998 \def\acs@type@list{article,supinfo}
1999 \SectionNumbersOff
2000 </jceda8>
2001 <*jceaax>
2002 \ProvidesFile{achemso-jceaax.cfg}
2003 [2022-09-28 v3.13d achemso configuration: J. Chem. Eng. Data]
2004 \def\acs@type@list{article,supinfo}

```

```

2005 \def\refname{Literature Cited}
2006 \SectionNumbersOff
2007 </jceaax>
2008 <*jcisd8>
2009 \ProvidesFile{achemso-jcisd8.cfg}
2010 [2022-09-28 v3.13d achemso configuration: J. Chem. Inf. Model.]
2011 \def\acs@type@list{article,supinfo}
2012 \SectionNumbersOff
2013 </jcisd8>
2014 <*jctcce>
2015 \ProvidesFile{achemso-jctcce.cfg}
2016 [2022-09-28 v3.13d achemso configuration: J. Chem. Theory Comput.]
2017 \def\acs@type@list{article,supinfo}
2018 \setkeys{acs}{maxauthors = 0}
2019 </jctcce>
2020 <*jmcmr>
2021 \ProvidesFile{achemso-jmcmr.cfg}
2022 [2022-09-28 v3.13d achemso configuration: J. Med. Chem.]
2023 \def\acs@type@list{article,letter,perspective,supinfo}
2024 \SectionNumbersOff
2025 \setlength{\acs@tocentry@height}{5.5cm}
2026 \setlength{\acs@tocentry@width}{21cm}
2027 </jmcmr>
2028 <*jnprdf>
2029 \ProvidesFile{achemso-jnprdf.cfg}
2030 [2022-09-28 v3.13d achemso configuration: J. Nat. Prod.]
2031 \renewcommand*{\abstractname}{ABSTRACT}
2032 \renewcommand*{\acknowledgementname}{ACKNOWLEDGEMENT}
2033 \renewcommand*{\suppinfofname}{ASSOCIATED CONTENT}
2034 \SectionNumbersOff
2035 \renewcommand*{\acs@abstract}{%
2036 \quotation
2037 \textbf{\abstractname :}%
2038 }
2039 \AbstractOn
2040 \ifx\acs@manuscript\acs@manuscript@communication
2041 \AbstractOff
2042 \SectionsOff
2043 \fi
2044 \def\refname{REFERENCES}
2045 \captionsetup{
2046 labelfont = bf,
2047 labelsep = period
2048 }
2049 </jnprdf>
2050 <*joceah>
2051 \ProvidesFile{achemso-joceah.cfg}
2052 [2022-09-28 v3.13d achemso configuration: J. Org. Chem.]
2053 \ifx\acs@manuscript\acs@manuscript@communication
2054 \AbstractOff
2055 \SectionsOff
2056 \fi
2057 \floatstyle{plaintop}
2058 \restylefloat{scheme}

```

```

2059 \floatstyle{plain}
2060 \renewcommand*{\acs@type@list{article,communication,note,perspective,review,suppinfo}
2061 </joceah>

2062 <*jpcafh>
2063 \ProvidesFile{achemso-jpcafh.cfg}
2064 [2022-09-28 v3.13d achemso configuration: J. Phys. Chem. A]
2065 \def\acs@type@list{article,suppinfo}
2066 \setkeys{acs}{
2067   etalmode      = truncate,
2068   maxauthors    = 10
2069 }
2070 \SectionNumbersOff
2071 \captionsetup[table]{labelfont=bf,textfont=bf}

Title

2072 \g@addto@macro{\maketitle}{\newpage}
2073 </jpcafh>
2074 <*jpcbfk>
2075 \ProvidesFile{achemso-jpcbfk.cfg}
2076 [2022-09-28 v3.13d achemso configuration: J. Phys. Chem. B]
2077 \def\acs@type@list{article,suppinfo}
2078 \setkeys{acs}{
2079   etalmode      = truncate,
2080   maxauthors    = 10
2081 }
2082 \SectionNumbersOff
2083 \captionsetup[table]{labelfont=bf,textfont=bf}
2084 \g@addto@macro{\maketitle}{\newpage}
2085 </jpcbfk>
2086 <*jpccck>
2087 \ProvidesFile{achemso-jpccck.cfg}
2088 [2022-09-28 v3.13d achemso configuration: J. Phys. Chem. C]
2089 \def\acs@type@list{article,suppinfo}
2090 \setkeys{acs}{
2091   etalmode      = truncate,
2092   maxauthors    = 10
2093 }
2094 \SectionNumbersOff
2095 \captionsetup[table]{labelfont=bf,textfont=bf}
2096 \g@addto@macro{\maketitle}{\newpage}
2097 </jpccck>

2098 <*jpclcd>
2099 \ProvidesFile{achemso-jpclcd.cfg}
2100 [2022-09-28 v3.13d achemso configuration: J. Phys. Chem. Lett.]
2101 \setkeys{acs}{
2102   etalmode      = truncate,
2103   maxauthors    = 10
2104 }
2105 \def\acs@type@default{letter}
2106 \def\acs@type@list{letter}
2107 \SectionNumbersOff
2108 \captionsetup[table]{labelfont=bf,textfont=bf}
2109 \g@addto@macro{\maketitle}{\newpage}
2110 \renewcommand{\acs@tocentry@print}[1]{%

```

```

2111 \gdef\acs@tocentry@text{#1}%
2112 }
2113 \renewcommand*{\acs@abstract@extras}{%
2114   \begingroup
2115     \acs@tocentry@print@aux
2116   \endgroup
2117   \acs@keywords@print
2118   \newpage
2119 }
2120 \setlength\acs@tocentry@height{2in}
2121 \setlength\acs@tocentry@width{2in}
2122 </jpcld>
2123 <*/jprobs>
2124 \ProvidesFile{achemso-jprobs.cfg}
2125 [2022-09-28 v3.13d achemso configuration: J. Proteome Res.]
2126 \setkeys{acs}{keywords = true}
2127 \def\acs@type@list{article,review,suppinfo}
2128 \SectionNumbersOff
2129 </jprobs>

```

The *J. Am. Chem. Soc.* configuration is rather more complicated as there is the need to construct a “galley-like” layout for communications.

```

2130 <*/jacsat>
2131 \ProvidesFile{achemso-jacsat.cfg}
2132 [2022-09-28 v3.13d achemso configuration: J. Am. Chem. Soc.]
2133 \SectionNumbersOff
2134 \ifx\acs@manuscript\acs@manuscript@communication\else
2135   \expandafter\endinput
2136 \fi

```

Everything from here onward applies only to communications. Some adjustments are now made using the existing tools.

```

2137 \setkeys{acs}{
2138   email = true,
2139   layout = twocolumn
2140 }
2141 \SectionsOff
2142 \acs@layout@nine

```

**abstract (env.)** The abstract appears at the start of the document, with lines around it.s

```

2143 \renewenvironment{abstract}{%
2144   \hrule
2145   \vspace{2 mm}%
2146   \sffamily
2147   \noindent
2148   \emph{\textbf{Abstract:}}}%
2149 }{%
2150   \vspace{2 mm}%
2151   \hrule
2152   \vspace{6 mm}%
2153 }

```

\acksize To keep things logical, the size macros are given names related to their function.  
 \affilsize Some of these are new, some are defined in the class.  
 \authorsize  
 \emailsize  
 \capsize  
 \refsize  
 \suppsize  
 \titlesize

```

2154 \def\affilsize{%
2155   \@setfontsize\affilsize\@ixpt\@xpt
2156 }
2157 \def\acksize{%
2158   \@setfontsize\acksize\@ixpt\@xipt
2159 }
2160 \def\authorsize{%
2161   \@setfontsize\authorsize{10.5}{12.5}%
2162 }
2163 \newcommand*\capsize{%
2164   \@setfontsize\capsize\@viipt\@ixpt
2165 }
2166 \def\emailsize{%
2167   \@setfontsize\emailsize\@viipt{15}%
2168 }
2169 \newcommand*\refsize{%
2170   \@setfontsize\refsize{7.5}{7.5}%
2171 }
2172 \def\suppsize{%
2173   \@setfontsize\suppsize{8.5}{10.5}%
2174 }
2175 \def\titlesize{%
2176   \@setfontsize\titlesize\@xipt{13}%
2177 }
2178 \let\footnotesize\refsize
2179 \let\captionfont\capsize

```

\emailfont A slight font change.

```

2180 \def\emailfont{\sffamily}

```

\ps@plain The header styles are done the hard way, to keep down the number of packages  
\ps@jacs loaded.

```

2181 \def\ps@plain{%
2182   \let\@mkboth\@gobbletwo
2183   \let\@oddhead\@empty
2184   \def\@oddfoot{%
2185     \reset@font
2186     \sffamily
2187     \textbf{\thepage}%
2188     \hfil
2189   }%
2190   \let\@evenhead\@empty
2191   \let\@evenfoot\@oddfoot
2192 }
2193 \def\ps@acs{%
2194   \def\@oddfoot{%
2195     \reset@font
2196     \sffamily
2197     \textbf{\thepage}%
2198     \hfil
2199   }%
2200   \def\@evenfoot{%
2201     \reset@font
2202     \hfil

```



```

2203     \sffamily
2204     \textbf{\thepage}%
2205   }%
2206   \def\@oddhead{}%
2207   \let\@evenhead\@oddhead
2208 }
2209 \pagestyle{acs}

\acs@space@pre@title Length adjustments for the title.
\acs@space@post@title 2210 \setlength\acs@space@pre@title{16mm}
\acs@space@post@author 2211 \setlength\acs@space@post@title{0mm}
\acs@space@post@address 2212 \setlength\acs@space@post@author{0mm}
\acs@space@post@email 2213 \setlength\acs@space@post@address{0mm}
2214 \setlength\acs@space@post@email{-1mm}
2215 \setlength\acs@maketitle@width{152.4mm}

\acs@contact@details Contact details are different here.
2216 \def\acs@contact@details{%
2217   Received \today; E-mail: \acs@email@list
2218 }

\acs@maketitle@extras No keywords or abbreviations for J. Am. Chem. Soc..
2219 \let\acs@maketitle@extras\relax

```

Getting the floats correct is a difficult task “by hand”; using the caption package makes this a lot easier.

```

2220 \floatstyle{plaintop}
2221 \restylefloat{scheme}
2222 \floatstyle{plain}
2223 \DeclareCaptionLabelSeparator{perquad}{.\quad}
2224 \captionsetup{
2225   singlelinecheck = off,
2226   labelfont       = {bf,it,sf},
2227   textfont        = sf,
2228   labelsep        = perquad
2229 }
2230 \captionsetup[figure]{textfont=rm}

\acs@table A patch or \table.
\table 2231 \newcommand*\acs@table{}
2232 \let\acs@table\table
2233 \def\table{%
2234   \capsize
2235   \acs@table
2236 }

```

The bibliography has to be adjusted.

```

2237 \AtBeginDocument{%
2238   \def\bibsection{%
2239     \@startsection
2240       {section}
2241       {1}
2242       {\z@}{\z@}{2.5mm}%

```

```

2243     {\normalfont\acksize\bfseries}
2244     {\hrule\nobreak\vspace{1.2mm}\noindent\refname}%
2245   }%
2246   \let\bibfont\refsize
2247   \setlength{\bibhang}{0.61cm}%
2248   \setlength{\bibsep}{0mm}%
2249 }
2250 </jacsat>
2251 <*\langd5>
2252 \ProvidesFile{achemso-langd5.cfg}
2253 [2022-09-28 v3.13d achemso configuration: Langmuir]
2254 \def\acs@type@list{article,letter,supinfo}
2255 \SectionNumbersOff
2256 </langd5>
2257 <*\mamobx>
2258 \ProvidesFile{achemso-mamobx.cfg}
2259 [2022-09-28 v3.13d achemso configuration: Macromolecules]
2260 \SectionNumbersOff
2261 \setkeys{acs}{doi = true}
2262 </mamobx>
2263 <*\mpohbp>
2264 \ProvidesFile{achemso-mpohbp.cfg}
2265 [2022-09-28 v3.13d achemso configuration: Mol. Pharm.]
2266 \setkeys{acs}{keywords = true}
2267 \def\acs@type@list{article,supinfo}
2268 \SectionNumbersOff
2269 </mpohbp>
2270 <*\nalefd>
2271 \ProvidesFile{achemso-nalefd.cfg}
2272 [2022-09-28 v3.13d achemso configuration: Nano Lett.]
2273 \setkeys{acs}{keywords = true}
2274 \def\acs@type@default{letter}
2275 \def\acs@type@list{letter}
2276 \SectionNumbersOff
2277 </nalefd>
2278 <*\orlef7>
2279 \ProvidesFile{achemso-orlef7.cfg}
2280 [2022-09-28 v3.13d achemso configuration: Org. Lett.]
2281 \def\acs@type@default{communication}
2282 \def\acs@type@list{communication}
2283 \SectionNumbersOff
2284 \setkeys{acs}{layout = twocolumn}
2285 \RequirePackage{xcolor}
2286 \definecolor{orglett}{RGB}{128,0,0}
2287 </orlef7>
2288 <*\oprdfk>
2289 \ProvidesFile{achemso-oprdfk.cfg}
2290 [2022-09-28 v3.13d achemso configuration: Org. Proc. Res. Dev.]
2291 \def\acs@type@list{article,highlight,review,supinfo}
2292 \SectionNumbersOff
2293 </oprdfk>
2294 <*\orgnd7>
2295 \ProvidesFile{achemso-orgnd7.cfg}
2296 [2022-09-28 v3.13d achemso configuration: Organometallics]

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2297 \SectionNumbersOff  
2298 \orgnd7

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