

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

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## Abstract

The achemso bundle provides a L<sup>A</sup>T<sub>E</sub>X class file and B<sub>I</sub>B<sub>T</sub>E<sub>X</sub> 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 B<sub>I</sub>B<sub>T</sub>E<sub>X</sub> 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` 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 the name of the target journal for the publication. The package is designed such that the choice of journal will set up the correct bibliography style and so on. The journals currently recognised by the package are summarised in Table 1. If an unknown journal is specified, the package will fall-back on the `journal=jacsat` option.

`manuscript` 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` 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` 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}
```

<i>Journal</i>	<i>Setting</i>	<i>Journal</i>	<i>Setting</i>
<i>Acc. Chem. Res.</i>	<i>achre4</i>	<i>Chem. Res. Toxicol.</i>	<i>crtoec</i>
<i>ACS Appl. Energy Mater.</i>	<i>aaemcq</i>	<i>Chem. Rev.</i>	<i>chreay</i>
<i>ACS Appl. Electron. Mater.</i>	<i>aaembp</i>	<i>Cryst. Growth Des.</i>	<i>cgdefu</i>
<i>ACS Appl. Mater. Interfaces</i>	<i>aamick</i>	<i>Energy Fuels</i>	<i>enfuem</i>
<i>ACS Appl. Nano Mater.</i>	<i>aanmf6</i>	<i>Environ. Sci. Technol.</i>	<i>esthag</i>
<i>ACS Appl. Polym. Mater.</i>	<i>aapmcd</i>	<i>Environ. Sci. Technol. Lett.</i>	<i>estlcu</i>
<i>ACS Biomater. Sci. Eng.</i>	<i>abseba</i>	<i>Ind. Eng. Chem. Res.</i>	<i>iecred</i>
<i>ACS Catal.</i>	<i>accacs</i>	<i>Inorg. Chem.</i>	<i>inoraj</i>
<i>ACS Central Sci.</i>	<i>acscii</i>	<i>J. Agric. Food Chem.</i>	<i>jafcau</i>
<i>ACS Chem. Biol.</i>	<i>acbctt</i>	<i>J. Chem. Ed.</i>	<i>jceda8</i>
<i>ACS Chem. Neurosci.</i>	<i>acnctdm</i>	<i>J. Chem. Eng. Data</i>	<i>jceaax</i>
<i>ACS Combinatorial Sci.</i>	<i>acsccc</i>	<i>J. Chem. Inf. Model.</i>	<i>jcisd8</i>
<i>ACS Earth Space Chem.</i>	<i>aesccq</i>	<i>J. Chem. Theory Comput.</i>	<i>jctcce</i>
<i>ACS Energy Lett.</i>	<i>aelccp</i>	<i>J. Med. Chem.</i>	<i>jmcmar</i>
<i>ACS Infect. Dis.</i>	<i>ascefj</i>	<i>J. Nat. Prod.</i>	<i>jnprdf</i>
<i>ACS Macro Lett.</i>	<i>amlccd</i>	<i>J. Org. Chem.</i>	<i>joceah</i>
<i>ACS Mater. Lett.</i>	<i>amlcef</i>		
<i>J. Phys. Chem. A</i>	<i>jpcafh</i>		
<i>ACS Med. Chem. Lett.</i>	<i>amclct</i>	<i>J. Phys. Chem. B</i>	<i>jpcbdk</i>
<i>ACS Nano</i>	<i>ancac3</i>	<i>J. Phys. Chem. C</i>	<i>jpccck</i>
<i>ACS Omega</i>	<i>acsodf</i>	<i>J. Phys. Chem. Lett.</i>	<i>jpclcd</i>
<i>ACS Photon.</i>	<i>apchd5</i>	<i>J. Proteome Res.</i>	<i>jprobs</i>
<i>ACS Sensors</i>	<i>ascefj</i>	<i>J. Am. Chem. Soc.</i>	<i>jacsat</i>
<i>ACS Sustainable Chem. Eng.</i>	<i>ascecg</i>	<i>Langmuir</i>	<i>langd5</i>
<i>ACS Synth. Biol.</i>	<i>asbcd6</i>	<i>Macromolecules</i>	<i>mamobx</i>
<i>Anal. Chem.</i>	<i>ancham</i>	<i>Mol. Pharm.</i>	<i>mpohbp</i>
<i>Biochemistry</i>	<i>bichaw</i>	<i>Nano Lett.</i>	<i>nalefd</i>
<i>Bioconjugate Chem.</i>	<i>bcches</i>	<i>Org. Lett.</i>	<i>orlef7</i>
<i>Biomacromolecules</i>	<i>bomaf6</i>	<i>Organometallics</i>	<i>orgnd7</i>
<i>Chem. Mater.</i>	<i>cmatex</i>		

Table 1: Values for journal option

## 4.2 Manuscript meta-data

\author  
\affiliation  
\alsoaffiliation  
\altaffiliation  
\email

Inspired by REV<sub>T</sub>E<sub>X</sub>, 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  
\phone

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 wwwww}
\affiliation[University of Sometown]
    {University of Somewhere, Sometown, USA}
```

\and  
\thanks

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 chart graph	The class defines three new floating environments: scheme, chart and graph. These can be used as expected to include graphical content. The placement of 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 \SectionNumbersOn  \SectionsOff \SectionsOn \AbstractOff \AbstractOn	Some journals have no section numbering by default. This can be set up in 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.  More radically, the entire availability of sections can be turned on and off. This functionality is available to the user <i>via</i> the \SectionsOn and \SectionsOff macros, which again are preamble-only. Similar functions are available for the abstract: \AbstractOff and \AbstractOn.
---	--

### 4.5 Special sections

acknowledgement suppinfo	The sections for acknowledgements and supporting information have dedicated environments available. These ensure that the section headings are generated, and that the text is sized correctly 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	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

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

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

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

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

maxauthors

Many journals require that long lists of authors are shortened using 'et al.' 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=firstronly`:

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` 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`  
`biochemistry` 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`  
`\bibnotemark`  
`\bibnotetext` `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 BIBT<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.?
```

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 BibTEX 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 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>7</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 L<sup>A</sup>T<sub>E</sub>X 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 text? some more text.
Some text ending a sentence.?
```

This is deactivated for other citation types.

```
Some text \citemodeyear{Coghill2006}.\\
Some text \citemodeauthor{Coghill2006}.\\
Some text \citemodeenum{Coghill2006}.\.
Some text ?.
Some text ?.
Some text ?.
```

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 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 text?, more text?
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 [2019-02-14 v3.12a 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 [2019-02-14 v3.12a 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
\ifacs@chaptertitle
\ifacs@doi
\ifacs@email
\ifacs@hyperref
\ifacs@keywords
\ifacs@super

41 \newif\ifacs@abbreviations
42 \newif\ifacs@articletitle
43 \newif\ifacs@biochem
44 \newif\ifacs@doi
45 \newif\ifacs@chaptertitle
46 \newif\ifacs@email
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
\acs@manuscript
\acs@maxauthors
80 \newcommand*\acs@journal{jacsat}
81 \newcommand*\acs@layout{traditional}
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
\acs@etal@firstonly 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 
```

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

```

125 (*package)
126 \let\acs@activate@biblabel\AtEndOfPackage
127 \AtEndOfPackage{\let\acs@activate@biblabel\@firstofone}
128 
```

\acs@biblabel@fullstop \acs@biblabel@period \acs@biblabel@plain Set up some defaults.

```

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

\acs@manuscript@communication Loading some other packages depends on the options chosen, so they are processed now.

```

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

\acs@manuscript@letter \acs@manuscript@note \acs@manuscript@review \acs@manuscript@suppinfo For text comparisons.

```

137 \ProcessOptionsX*{acs}
```

\acs@niib@create \thebibnote \bibnotemark \bibnotetext \printbibnotes To avoid needing to load the notes2bib package, especially as the plan is to move that package to L<sup>A</sup>T<sub>E</sub>X3 internal syntax, achemso provides a minimal version here. The first step is to create macros which will need a guard against notes2bib already having been loaded. To allow the package and class to behave differently these are actually applied later.

```

138 \newcommand*\acs@niib@create{%
139   \c@namedef{ver@notes2bib.sty}{%
140     2009/04/20 v1.6a Integrating notes into the bibliography (achemso
141     version)
142   }%
143   \c@ifundefined{c@bibnote}{\newcounter{bibnote}}{%
144     \def\thebibnote{%
145       Note-\the\value{bibnote}%
146     }%
147   }%
148   \c@DeclareRobustCommand*{\bibnote}[1][\thebibnote]{%
149     \stepcounter{bibnote}%
150     \def\acs@niib@after@text{\cite{##1}}%
151     \acs@niib@text{##1}%
152   }%
153   \c@DeclareRobustCommand*{\bibnotemark}[1][\thebibnote]{%
154     \stepcounter{bibnote}%
155     \cite{##1}%
156   }%
157 }
```

```

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  $\varepsilon$ - $\text{\TeX}$  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  $\varepsilon$ - $\text{\TeX}$ .
\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 }

\acs@bib@file Some information or creating the control file for BIBTEX is set up.
\acs@bib@message
\acs@bib@name
247 \newwrite\acs@bib@file
248 \newcommand*\acs@bib@message{%
249   This is an auxiliary file used by the ‘achemso’ bundle.^^J%
250   This file may safely be deleted. It will be recreated as required.^^J%
251 }
252 \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 writing macro is quite simple. Actually writing the information is left to the code for `\bibliography`, so that this only happens if needed.

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

```
\bibliography 291 \AtBeginDocument{%
292   \let\acs@bibliography\bibliography
293   \def\bibliography#1{%
294     \acs@bibliography{\acs-\jobname ,#1}%
295   }%
296 }
```

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

297 \AtBeginDocument{

```

298 \providecommand{\latin}[1]{\#1}
299 }
300 </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.

```

301 {*class}
302 \setkeys{acs}{
303   abbreviations = false,
304   articletitle = true,
305   biblabel = brackets,
306   biochem = false,
307   doi = false,
308   etalmode = firstonly,
309   keywords = false,
310   maxauthors = 15,
311   super = true
312 }

```

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

```

313 \acs@niib@create
314 \RequirePackage[margin=2.54cm]{geometry}
315 \RequirePackage{
316   caption,
317   float,
318   graphicx,
319   setspace,
320   url
321 }
322 \ifacs@hyperref
323   \expandafter\RequirePackage
324 \else
325   \expandafter\gobble
326 \fi
327 {hyperref}
328 \AtBeginDocument{\doublespacing}

```

\title \@title \acs@title@short \acs@author@cnt \acs@affil@cnt \acs@affil@alt@cnt	For the meta-data, the REV <sub>T</sub> E <sub>X</sub> bundle provides a good model for the commands to give the author. \gdef is used here to avoid any odd grouping issues.  329 \renewcommand*{\title}[2][]{% 330   \gdef\acs@title@short{\#1}% 331   \gdef\@title{\#2}% 332   \ifx\acs@title@short\@empty 333     \global\let\acs@title@short\@title 334   \fi 335 } 336 \onlypreamble\title
	\acs@author@cnt tracks the number authors, affiliations and alternative affiliations. 337 \newcount\acs@author@cnt

	338 \newcount\acs@affil@cnt 339 \newcount\acs@affil@alt@cnt
\acs@footnote@cnt	Two counts for getting affiliation footnotes correct. 340 \newcount\acs@footnote@cnt 341 \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. 342 \def\author#1{%  343   \global\advance\acs@author@cnt\@ne\relax  344   \expandafter\gdef\csname @author@\@roman\acs@author@cnt\endcsname{#1}%  345   \begingroup  346     \advance\acs@affil@cnt\@ne  347     \expandafter\xdef\csname @author@affil@\@roman  348       \acs@author@cnt\endcsname  349       {\the\acs@affil@cnt}%  350   \endgroup  351 }  352 \onlypreamble\author
\and \thanks	Neither \and nor \thanks are used by the document class. 353 \def\and{%  354   \acs@warning{%  355     \string\and\space not used by the achemso class: please see  356     the\MessageBreak package documentation for details%  357   }%  358 }  359 \def\thanks{%  360   \acs@warning{%  361     \string\thanks\space not used by the achemso class: please see  362     the\MessageBreak the package documentation for details%  363   }%  364 }
\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. 365 \newcommand*\affiliation[2] [\relax]{%  366   \ifnum\acs@author@cnt>\z@\relax  367     \acs@affil@ifdup{#2}{%  368       \acs@affil@swap{#2}%  369     }{%  370       \global\advance\acs@affil@cnt\@ne\relax  371       \expandafter\gdef\csname @address@\@roman\acs@affil@cnt\endcsname  372         {#2}%  373       \ifx\relax#1\relax  374         \expandafter\gdef\csname @affil@\@roman\acs@affil@cnt\endcsname  375           {#2}%  376       \else  377         \expandafter\gdef\csname @affil@\@roman\acs@affil@cnt\endcsname

```

378          {#1}%
379          \fi
380      }%
381      \else
382          \acs@warning{Affiliation with no author}%
383      \fi
384 }
385 \onlypreamble\affiliation

\acs@affil@ifdup A short test for two addresses being identical.
\acs@affil@ifdup@aux
386 \newcommand*\acs@affil@ifdup[1]{%
387     \begingroup
388         \def\@tempa{#1}%
389         \tempswafalse
390         \tempcnta\z@\relax
391         \acs@affil@ifdup@aux
392         \if@tempswa
393             \aftergroup\@firstoftwo
394         \else
395             \aftergroup\@secondoftwo
396         \fi
397     \endgroup
398 }
399 \newcommand*\acs@affil@ifdup@aux{%
400     \advance\tempcnta\one\relax
401     \expandafter\expandafter\expandafter\def\expandafter\expandafter\expandafter
402         \expandafter\tempb\expandafter\expandafter\expandafter\expandafter
403         {\csname @address\@roman\tempcnta\endcsname}%
404         \ifx\@tempa\tempb
405             \expandafter\@tempswatrue
406         \else
407             \ifnum\tempcnta<\acs@affil@cnt\relax
408                 \expandafter\expandafter\expandafter\acs@affil@ifdup@aux
409             \fi
410         \fi
411 }

\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.
412 \newcommand*\acs@affil@swap[1]{%
413     \begingroup
414         \def\@tempa{#1}%
415         \tempcnta\z@\relax
416         \tempcntb\z@\relax
417         \acs@affil@ifdup@aux
418         \advance\acs@affil@cnt\one\relax
419         \acs@affil@swap@aux
420     \endgroup
421 }
422 \newcommand*\acs@affil@swap@aux{%
423     \advance\tempcntb\one\relax
424     \expandafter\ifnum\csname @author@affil\@roman\tempcntb\endcsname
425         = \acs@affil@cnt\relax

```

```

426     \expandafter\xdef\csname @author@affil@\@roman\@tempcntb\endcsname{%
427         \the\@tempcpta
428     }%
429     \fi
430     \ifnum\@tempcntb<\acs@author@cnt\relax
431         \expandafter\acs@affil@swap@aux
432     \fi
433 }

```

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

```

434 \newcommand*\alsoaffiliation[2][\relax]{%
435     \ifnum\acs@author@cnt>\z@\relax
436         \acs@affil@ifdup{\#2}{%
437             \acs@alsoaffil@find{\#2}%
438         }{%
439             \global\advance\acs@affil@cnt\@ne\relax
440             \atempcpta\acs@affil@cnt\relax
441             \expandafter\gdef\csname @address@\@roman\acs@affil@cnt\endcsname
442                 {\#2}%
443             \ifx\relax#1\relax
444                 \expandafter\gdef\csname @affil@\@roman\acs@affil@cnt\endcsname
445                     {\#2}%
446             \else
447                 \expandafter\gdef\csname @affil@\@roman\acs@affil@cnt\endcsname
448                     {\#1}%
449             \fi
450         }%
451         \@ifundefined{@author@alsoaffil@\@roman\acs@author@cnt}{%
452             \expandafter\xdef\csname @author@alsoaffil@\@roman\acs@author@cnt\endcsname{%
453                 \the\@tempcpta}%
454         }{%
455             \expandafter\xdef\csname @author@alsoaffil@\@roman\acs@author@cnt\endcsname{%
456                 \csname @author@alsoaffil@\@roman\acs@author@cnt\endcsname
457                 ,\the\@tempcpta
458             }%
459         }%
460     }%
461     \else
462         \acs@warning{Affiliation with no author}%
463     \fi
464 }
465 \newcommand*\acs@alsoaffil@find[1]{%
466     \begingroup
467         \def\@tempa{\#1}%
468         \atempcpta\z@\relax
469         \atempcntb\z@\relax
470         \acs@affil@ifdup@aux
471         \expandafter\endgroup
472         \expandafter\atempcpta\the\@tempcpta\relax
473 }

```

\altaffiliation For the alternative affiliation, a second count is kept, and the affiliation is “at-

tached" 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.

```

474 \newcommand*\altaffiliation[1]{%
475   \ifnum\acs@author@cnt>\z@\relax
476     \begingroup
477       \acs@altaffil@ifdup{\#1}{%
478         \expandafter\xdef\csname @author@altaffil@\@roman\acs@author@cnt
479           \endcsname{\the\@tempcnta}%
480     }{%
481       \global\advance\acs@affil@alt@cnt\@ne\relax
482       \expandafter\gdef\csname @altaffil@\@roman\acs@affil@alt@cnt
483         \endcsname{\#1}%
484       \expandafter\xdef\csname @author@altaffil@\@roman\acs@author@cnt
485         \endcsname{\the\acs@affil@alt@cnt}%
486     }%
487   \endgroup
488 \else
489   \acs@warning{Affiliation with no author}%
490 \fi
491 }
492 \onlypreamble\altaffiliation

```

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

```

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

```

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

```

519 \newcommand*\email[1]{%
520   \ifnum\acs@author@cnt>\z@\relax
521     \expandafter\gdef\csname@email@roman\acs@author@cnt\endcsname
522       {#1}%
523   \else
524     \acs@warning{E-mail with no author}%
525   \fi
526 }
527 \onlypreamble@email

\fax Fax and phone numbers are similar.
\phone
528 \newcommand*\fax[1]{%
529   \ifnum\acs@author@cnt>\z@\relax
530     \expandafter\gdef\csname@fax@roman\acs@author@cnt\endcsname
531       {#1}%
532   \else
533     \acs@warning{Fax number with no author}%
534   \fi
535 }
536 \onlypreamble@fax
537 \newcommand*\phone[1]{%
538   \ifnum\acs@author@cnt>\z@\relax
539     \expandafter\gdef\csname@phone@roman\acs@author@cnt\endcsname
540       {#1}%
541   \else
542     \acs@warning{Phone number with no author}%
543   \fi
544 }
545 \onlypreamble@phone

\abbreviations Some journals use these.
@abbreviations
  \keywords
    \@keywords
546 \newcommand*\abbreviations[1]{%
547   \gdef\@abbreviations{#1}%
548 }
549 \newcommand*\@abbreviations{}%
550 \onlypreamble@abbreviations
551 \newcommand*\keywords[1]{%
552   \gdef\@keywords{#1}%
553 }
554 \newcommand*\@keywords{}%
555 \onlypreamble@keywords

\acs@abbreviations@print For printing the key simple meta-data.
\acs@keywords@print
\acs@title@short@print
556 \newcommand*\acs@abbreviations@print{%
557   \ifx\@abbreviations\empty\else
558     \section*[Abbreviations]
559     \@abbreviations
560     \par
561   \fi
562 }
563 \newcommand*\acs@keywords@print{%
564   \ifx\@keywords\empty\else
565     \section*[Keywords]
566     \@keywords

```

```

567     \par
568   \fi
569 }
570 \newcommand*\acs@title@short@print{%
571   \section*{Running header}
572   \acs@title@short
573   \par
574 }

\acs@space@pre@title Lengths for \@maketitle.
\acs@space@post@title 575 \newlength\acs@space@pre@title
\acs@space@post@author 576 \setlength\acs@space@pre@title{2em}
\acs@space@post@address 577 \newlength\acs@space@post@title
\acs@space@post@email 578 \setlength\acs@space@post@title{1.5em}
\acs@maketitle@width 579 \newlength\acs@space@post@author
580 \setlength\acs@space@post@author{1em}
581 \newlength\acs@space@post@address
582 \setlength\acs@space@post@address{1em}
583 \newlength\acs@space@post@email
584 \setlength\acs@space@post@email{1.5em}
585 \newlength\acs@maketitle@width
586 \setlength\acs@maketitle@width{\textwidth}

\affilsize Some simple size commands.
\authorsize 587 \newcommand*\affilsize{\normalsize}
\emailsize 588 \newcommand*\authorsize{\large}
\titlesize 589 \newcommand*\emailsize{\normalsize}
590 \newcommand*\titlesize{\LARGE}

\authorfont Font settings for \@maketitle.
\authorfont 591 \newcommand*\affilfont{\itshape}
\emailfont 592 \newcommand*\authorfont{\sffamily}
\titlefont 593 \newcommand*\emailfont{}
594 \newcommand*\titlefont{\bfseries\sffamily}

\ps@acs A shortcut to make page styles.
595 \newcommand*\ps@acs(){}
596 \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.

597 \def{@maketitle}{%
598   \pagestyle{acs}%
599   \ifnum\acs@author@cnt<\z@\relax
600     \acs@warning{No authors defined: At least one author is required}%
601   \fi
602   \newpage
603   \null
604   \vspace*{\acs@space@pre@title}%
605   \begin{center}
606     \begin{minipage}{\acs@maketitle@width}
607       \begin{center}
608         {%

```

```

609      \titlefont
610      \titlesize
611      \let\@fnsymbol\acs@author\fnsymbol
612      \let\footnote\acs@title@footnote
613      \acs@maketitle@suppinfo \@title
614      \acs@title@footnote@check
615      \global\acs@footnote@cnt\c@footnote
616      \@maketitle@title@hook
617      \par
618  }%
619  \vspace*{\acs@space@post@title}%
620  {%
621      \authorsize
622      \authorfont
623      \frenchspacing
624      \acs@author@list
625      \par
626  }%
627  \vspace*{\acs@space@post@author}%
628  {%
629      \affilsize
630      \affilfont
631      \acs@address@list
632      \par
633  }%
634  \vspace*{\acs@space@post@address}%
635  {%
636      \emailsize
637      \emailfont
638      \ifacs@email
639          \expandafter\acs@contact@details
640          \fi
641      }%
642      \vspace*{\acs@space@post@email}%
643      \end{center}
644      \end{minipage}
645      \end{center}%
646 }
647 \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.

```

648 \newcommand*\acs@maketitle@suppinfo{%
649   \ifx\acs@manuscript\acs@manuscript@suppinfo
650     Supporting Information:\\
651   \fi
652 }

```

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

```

653 \newcommand*\acs@title@footnote[1]{%
654   \footnotemark
655   \g@addto@macro\@thanks{\footnotetext{\#1}}%
656 }
657 \newcommand\acs@title@footnote@check{%
658   \ifx\@thanks\empty

```

```

659 \else
660   \begingroup
661   \toks@=\expandafter{\@thanks}%
662   \xdef\@thanks{%
663     \begingroup
664       \let\noexpand\@fnsymbol\noexpand\acs@author@fnsymbol
665       \the\toks@
666     \endgroup
667   }%
668   \endgroup
669 \fi
670 }

```

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

```

671 \newcommand*\acs@contact@details{%
672   { \sffamily E-mail: \acs@email@list }%
673   \acs@number@list
674 }

```

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

```
675 \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.

```

676 \newcommand*\acs@author@list{%
677   \tempcnta\z@\relax
678   \ifnum\acs@author@cnt=\z@\relax\else
679     \expandafter\acs@author@list@main
680   \fi
681 }

```

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

```

682 \newcommand*\acs@author@footnotes{}
683 \newcommand*\acs@author@list@main{%
684   \advance\tempcnta\@ne\relax
685   \def\acs@author@footnotes{}%
686   \acs@author@list@and
687   \space
688   \nameuse{\acs@author}{\roman\tempcnta}%
689   \acs@author@list@comma
690   \acs@author@star
691   \acs@author@affil
692   \acs@author@affil@also
693   \acs@author@affil@alt
694   \ifx\@empty\acs@author@footnotes\else
695     \textsuperscript{\acs@author@footnotes}%
696   \fi
697   \ifnum\tempcnta<\acs@author@cnt\relax
698     \expandafter\acs@author@list@main
699   \fi
700 }

```

\acs@author@list@and  
\acs@author@list@comma

```

701 \newcommand*\acs@author@list@and{%
702   \ifnum\acs@author@cnt=\@ne\relax\else
703     \ifnum\@tempcpta=\acs@author@cnt\relax
704       \space and%
705     \fi
706   \fi
707 }
708 \newcommand*\acs@author@list@comma{%
709   \ifnum\acs@author@cnt>\tw@\relax
710     \ifnum\@tempcpta<\acs@author@cnt\relax
711       ,
712     \fi
713   \fi
714 }
```

\acs@author@star  
\acs@author@star@aux

```

715 \newcommand*\acs@author@star{%
716   \acs@ifundefined{@email@\@roman{\@tempcpta}}{}{%
717     \acs@author@star@aux
718   }%
719 }
720 \newcommand*\acs@author@star@aux{%
721   \protected@edef\acs@author@footnotes{%
722     \acs@author@fnsymbol{\z@}%
723     \ifnum\acs@affil@cnt>\@ne\relax
724       ,
725     \else
726       \ifnum\acs@affil@alt@cnt>\z@\relax
727         ,
728       \fi
729     \fi
730   }%
731 }
```

\acs@author@affil  
\acs@author@affil@aux

```

732 \newcommand*\acs@author@affil{%
733   \acs@ifundefined{%
734     @affil@\@roman\csname @author@affil@\@roman\@tempcpta\endcsname
735   }{%
736     \acs@warning{%
737       No affiliation given for author\MessageBreak
738       @nameuse{@author@\@roman{\@tempcpta}}%
739     }%
740   }{%
741     \acs@author@affil@aux
742   }%
743 }
744 \newcommand*\acs@author@affil@aux{%
745   \ifnum\acs@affil@cnt>\@ne\relax
746     \expandafter\acs@affil@marker@cnt\csname @author@affil@\@roman
747       \@tempcpta\endcsname\relax
748     \advance\acs@affil@marker@cnt\acs@footnote@cnt\relax

```

```

749     \protected@edef\acs@author@footnotes{%
750         \acs@author@footnotes
751         \acs@author@fnsymbol{\acs@affil@marker@cnt}%
752     }%
753 \else
754     \ifnum\acs@affil@alt@cnt>\z@\relax
755         \acs@affil@marker@cnt\@ne\relax
756         \advance\acs@affil@marker@cnt\acs@footnote@cnt\relax
757         \protected@edef\acs@author@footnotes{%
758             \acs@author@footnotes
759             \acs@author@fnsymbol{\acs@affil@marker@cnt}%
760         }%
761     \fi
762 \fi
763 }

```

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

```

764 \newcommand*\acs@author@affil@also{%
765     \acs@ifundefined{@author@alsoaffil@\roman{@tempcpta}}{%
766         \acs@author@affil@also@aux
767     }%
768 }%
769 \newcommand*\acs@author@affil@also@aux{%
770     \expandafter\@for\expandafter\@tempa\expandafter:\expandafter
771     =\csname @author@alsoaffil@\roman{@tempcpta}\endcsname\do{%
772         \acs@affil@marker@cnt\@tempa\relax
773         \advance\acs@affil@marker@cnt\acs@footnote@cnt\relax
774         \protected@edef\acs@author@footnotes{%
775             \acs@author@footnotes
776             ,%
777             \acs@author@fnsymbol{\acs@affil@marker@cnt}%
778         }%
779     }%
780 }

```

\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.

```

781 \newcommand*\acs@author@affil@alt{%
782     \acs@ifundefined{@author@altaffil@\roman{@tempcpta}}{%
783         \acs@author@affil@alt@aux
784     }%
785 }%
786 \newcommand*\acs@author@affil@alt@aux{%
787     \expandafter\acs@affil@marker@cnt
788     \csname @author@altaffil@\roman{@tempcpta}\endcsname\relax
789     \advance\acs@affil@marker@cnt\acs@affil@cnt\relax
790     \advance\acs@affil@marker@cnt\acs@footnote@cnt\relax
791     \protected@edef\acs@author@footnotes{%
792         \acs@author@footnotes
793         ,%
794         \acs@author@fnsymbol{\acs@affil@marker@cnt}%
795     }%
796 }

```

`\acs@author@fnsymbol` The ACS have an extended list of symbols. The star appears at the special position zero.  
`\acs@author@fnsymbol@aux`  
`\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`

```

797 \newcommand*{\acs@author@fnsymbol}[1]{%
798   \ensuremath{%
799     \expandafter\acs@author@fnsymbol@aux\expandafter{\number#1 }%
800   }%
801 }%
802 \newcommand*{\acs@author@fnsymbol@aux}[1]{%
803   \ifnum#1>10 %
804     \expandafter\acs@author@fnsymbol@loop
805   \else
806     \expandafter\acs@author@fnsymbol@symbol
807   \fi
808   {#1}%
809 }%
810 \newcommand*{\acs@author@fnsymbol@loop}[1]{%
811   \acs@author@fnsymbol@loop@aux@i#1%
812 }%
813 \newcommand*{\acs@author@fnsymbol@loop@aux@i}[2]{%
814   \acs@author@fnsymbol@symbol{\ifnum#2=0 10\else #2\fi}%
815   \expandafter\acs@author@fnsymbol@loop@aux@ii\romannumerals{#1000Q}%
816   {\acs@author@fnsymbol@symbol{\ifnum#2=0 10\else #2\fi}}%
817 }%
818 \newcommand*{\acs@author@fnsymbol@loop@aux@ii}[1]{%
819   \nameuse{\acs@author@fnsymbol@loop@aux@#1}%
820 }%
821 \def\acs@author@fnsymbol@loop@aux@m#1Q#2#3{%
822   \acs@author@fnsymbol@loop@aux@ii#1Q{#2#3}{#3}%
823 }%
824 \newcommand*{\acs@author@fnsymbol@loop@aux@Q}[2]{#1}%
825 \newcommand*{\acs@author@fnsymbol@symbol}[1]{%
826   \ifcase #1 *\or
827     \dagger\or
828     \ddagger\or
829     \P\or
830     \S\or
831     \|\or
832     \bot\or
833     \#\or
834     @\or
835     \triangle\or
836     \nabla
837   \fi
838 }%

```

`\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.

```

839 \newcommand*\acs@address@list{%
840   \ifnum\acs@affil@cnt>z@
841     \expandafter\acs@address@list@auxi
842   \else
843     \acs@warning{No affiliations: at least one affiliation is needed}%
844   \fi

```

```

845 }
846 \newcommand*\acs@address@list@auxi{%
847   \ifnum0%
848     \ifnum\acs@affil@cnt>\@ne    1\fi
849     \ifnum\acs@affil@alt@cnt>\z@ 1\fi
850     >\z@
851     \expandafter\acs@address@list@auxii
852   \else
853     \@address@i\par
854   \fi
855 }
856 \newcommand*\acs@address@list@auxii{%
857   \tempcpta\z@
858   \acs@affil@marker@cnt\acs@footnote@cnt
859   \loop\ifnum\tempcpta<\acs@affil@cnt
860     \advance\tempcpta\@ne
861     \advance\acs@affil@marker@cnt\@ne
862     \acs@author@fnssymbol{\acs@affil@marker@cnt}%
863     \nameuse{\@address@i\@roman\tempcpta}\par
864   \repeat
865   \tempcpta\z@
866   \loop\ifnum\tempcpta<\acs@affil@cnt
867     \advance\tempcpta\@ne
868     \advance\acs@affil@marker@cnt\@ne
869     \acs@ifundefined{\altaffil@\@roman\tempcpta}
870     {}
871     {%
872       \acs@author@fnssymbol{\acs@affil@marker@cnt}%
873       \nameuse{\altaffil@\@roman\tempcpta}\par
874     }%
875   \repeat
876 }

```

\acs@fnssymbol@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.

```

877 \newcommand*\acs@fnssymbol@org(){}
878 \newcommand*\acs@affil@list{%
879   \let\acs@fnssymbol@org\@fnssymbol
880   \let\@fnssymbol\acs@author@fnssymbol
881   \tempcpta\z@\relax
882   \tempcpta\z@\relax
883   \ifnum\acs@affil@cnt>\@ne\relax
884     \expandafter\acs@affil@list@aux
885   \else
886     \ifnum\acs@affil@alt@cnt>\z@\relax
887       \acs@affil@marker@cnt\@ne\relax
888       \advance\acs@affil@marker@cnt\acs@footnote@cnt\relax
889       \footnotetext[\acs@affil@marker@cnt]{\@affil@i}%
890       \tempcpta\@ne\relax
891     \fi
892   \fi
893   \ifnum\acs@affil@alt@cnt>\z@\relax
894     \expandafter\acs@affil@alt@list

```

```

895   \fi
896   \let\@fnsymbol\acs@fnsymbol@org
897 }
898 \newcommand*\acs@affil@list@aux{%
899   \advance\@tempcnta\@ne\relax
900   \acs@affil@marker@cnt\@tempcnta\relax
901   \advance\acs@affil@marker@cnt\acs@footnote@cnt\relax
902   \footnotetext[\acs@affil@marker@cnt]{%
903     \nameuse{@affil@\roman{\@tempcnta}}%
904   }%
905   \ifnum\@tempcnta<\acs@affil@cnt\relax
906     \expandafter\acs@affil@list@aux
907   \fi
908 }

```

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

```

\acs@affil@alt@list@aux
909 \newcommand*\acs@affil@alt@list{%
910   \advance\@tempcntb\@ne\relax
911   \acs@ifundefined{@altaffil@\roman{\@tempcntb}}{}{%
912     \acs@altaffil@foot@aux
913   }%
914   \ifnum\@tempcntb<\acs@author@cnt\relax
915     \expandafter\acs@affil@alt@list
916   \fi
917 }
918 \newcommand*\acs@altaffil@foot@aux{%
919   \advance\@tempcnta\@ne\relax
920   \acs@affil@marker@cnt\@tempcnta\relax
921   \advance\acs@affil@marker@cnt\acs@footnote@cnt\relax
922   \footnotetext[\acs@affil@marker@cnt]{%
923     \nameuse{@altaffil@\roman{\@tempcntb}}%
924   }%
925 }

```

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

```

926 \newcommand*\acs@email@list@font{\sf}
927 \newcommand*\acs@email@list{%
928   \begingroup
929     \def\UrlFont{\acs@email@list@font}%
930     \@tempcnta\z@\relax
931     \@tempcntb\z@\relax
932     \acs@email@list@aux
933     \ifnum\@tempcntb=\z@\relax
934       \acs@warning{%
935         No e-mail given:\MessageBreak
936         at least one author must have a contact e-mail%
937       }%
938     \fi
939   \endgroup
940 }
941 \newcommand*\acs@email@list@aux{%

```

```

942 \advance\@tempcnta\@ne\relax
943 \ifnum\@tempcnta>\acs@author@cnt\relax\else
944   \acs@ifundefined{@email@\@roman\@tempcnta}{}{%
945     \advance\@tempcntb\@ne\relax
946     \ifnum\@tempcntb>\@ne\relax
947       ;
948     \fi
949     \expandafter\expandafter\expandafter\url\expandafter
950       \expandafter\expandafter{\%
951         \csname @email@\@roman\@tempcnta\endcsname
952       }%
953     }%
954     \expandafter\acs@email@list@aux
955   \fi
956 }

```

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

```

957 \newcommand*\acs@number@list{%
958   \begingroup
959     \acs@number@list@aux@i{phone}%
960     \let\@tempb\@tempa
961     \acs@number@list@aux@i{fax}%
962     \ifx\@tempa\@empty
963       \let\@tempa\@tempb
964     \else
965       \ifx\@tempb\@empty\else
966         \protected@edef\@tempa{%
967           \@tempb.\space\@tempa
968         }%
969       \fi
970     \fi
971     \ifx\@tempa\@empty\else
972       \par
973       \@tempa
974     \fi
975   \endgroup
976 }
977 \newcommand*\acs@number@list@aux@i[1]{%
978   \def\@tempa{}%
979   \@tempcnta\z@\relax
980   \def\acs@number@list@aux@ii{%
981     \advance\@tempcnta\@ne\relax
982     \ifnum\@tempcnta>\acs@author@cnt\relax\else
983       \acs@ifundefined{@#1@\@roman\@tempcnta}{}{%
984         \acs@ifundefined{@email@\@roman\@tempcnta}{}{%
985           \ifx\@tempa\@empty
986             \edef\@tempa{%
987               \nameuse{@#1@\@roman\@tempcnta}%
988             }%
989           \else
990             \edef\@tempa{%
991               \@tempa

```

```

992           ;
993           \nameuse{@#1@roman@tempcpta}%
994       }%
995       \fi
996   }%
997 }%
998 \expandafter\acs@number@list@aux@ii
999 \fi
1000 }%
1001 \acs@number@list@aux@ii
1002 \ifx@\tempa\empty\else
1003   \protected@edef\tempa{%
1004     \MakeUppercase#1: \tempa
1005   }%
1006 \fi
1007 }
1008 \newcommand*\acs@number@list@aux@ii{}

\endabstract
\acs@abstract@extras 1009 \g@addto@macro\endabstract{%
1010   \aftergroup\acs@abstract@extras
1011 }
1012 \newcommand*\acs@abstract@extras{%
1013   \ifacs@abbreviations
1014     \acs@abbreviations@print
1015     \par
1016   \fi
1017   \ifacs@keywords
1018     \acs@keywords@print
1019     \par
1020   \fi
1021 }

\acs@maketitle@extras  A couple of things might need to be added to \maketitle.
\acs@maketitle@extras@hook 1022 \newcommand*\acs@maketitle@extras{%
1023   \acs@maketitle@extras@hook
1024 }
1025 \newcommand*\acs@maketitle@extras@hook{}
1026 \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.
1027 \g@addto@macro{\document}{\maketitle}

scheme  Three new float types are provided, scheme, chart and graph. These are the
chart    most obvious types; for graphs, a slight problem arises with the file extension.
graph   1028 \newfloat{scheme}{htbp}{los}
1029 \floatname{scheme}{Scheme}
1030 \newfloat{chart}{htbp}{loc}
1031 \floatname{chart}{Chart}
1032 \newfloat{graph}{htbp}{loh}
1033 \floatname{graph}{Graph}

```

\schemename	Naming is set up in the same way as the kernel floats.
\chartname	1034 \newcommand*\schemename{Scheme}
\graphname	1035 \newcommand*\chartname{Chart}
	1036 \newcommand*\graphname{Graph}
	The standard floats should appear “here” by default.
	1037 \floatplacement{table}{htbp}
	1038 \floatplacement{figure}{htbp}
	1039 \floatstyle{plaintop}
	1040 \restylefloat{table}
\acs@floatboxreset	Flosts are all centred.
	1041 \let\acs@floatboxreset\@floatboxreset
	1042 \def\@floatboxreset{%
	1043 \centering
	1044 \acs@floatboxreset
	1045 }
\plainref	For legacy support.
\ref	1046 \newcommand*\plainref{} 1047 \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, some original definitions are saved.
\acs@subsubsection	
\acs@startsection@orig	1048 \newcommand*\acs@section{} 1049 \let\acs@section\section 1050 \newcommand*\acs@subsection{} 1051 \let\acs@subsection\subsection 1052 \newcommand*\acs@subsubsection{} 1053 \let\acs@subsubsection\subsubsection 1054 \newcommand*\acs@startsection@orig{} 1055 \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.
	1056 \newcommand\acs@startsection[6]{% 1057 \if@noskipsec \leavevmode \fi 1058 \par \tempskipa #4\relax 1059 \afterindenttrue 1060 \ifdim \tempskipa < \z@ \tempskipa -\tempskipa \afterindentfalse\fi 1061 \if@nobreak \everypar{}\else 1062 \addpenalty\secpenalty\addvspace\tempskipa\fi 1063 \ifstar{\dblarg{\sect{\#1}{\@m}{\#3}{\#4}{\#5}{\#6}}}% 1064 {\dblarg{\sect{\#1}{\#2}{\#3}{\#4}{\#5}{\#6}}} % 1065 } 1066 \let\@startsection\acs@startsection
\acs@startsection@alt	An alternative version of \@startsection which never adds numbers.
	1067 \newcommand*\acs@startsection@alt[6]{% 1068 \if@noskipsec \leavevmode \fi 1069 \par \tempskipa #4\relax 1070 \afterindenttrue

```

1071 \ifdim \c@tempskipa < \z@ \c@tempskipa -\c@tempskipa \c@afterindentfalse\fi
1072 \if@nobreak \everypar{}\else
1073     \addpenalty\secpenalty\addvspace\c@tempskipa\fi
1074 \c@ifstar{\c@ssect{#3}{#4}{#5}{#6}}
1075     {\c@ssect{#3}{#4}{#5}{#6}}%
1076 }

```

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

```

\acs@sections@none@aux 1077 \newcommand*\acs@sections@none{%
1078     \c@ifstar{%
1079         \acs@sections@none@aux
1080     }%
1081     \acs@sections@none@aux
1082 }%
1083 }
1084 \newcommand*\acs@sections@none@aux[2] []{%
1085     \acs@warning{%
1086         (Sub)section '#2' ignored%
1087 }%
1088 }

```

\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.

```

1089 \newcommand*\SectionNumbersOff{%
1090     \let\c@startsection\acs@startsection@alt
1091 }
1092 \c@onlypreamble\SectionNumbersOff
1093 \newcommand*\SectionNumbersOn{%
1094     \let\c@startsection\acs@startsection
1095 }
1096 \c@onlypreamble\SectionNumbersOn

```

\SectionsOff Quite similar for entire sections.

```

\SectionsOn 1097 \newcommand*\SectionsOff{%
1098     \let\c@section\acs@sections@none
1099     \let\c@subsection\acs@sections@none
1100     \let\c@subsubsection\acs@sections@none
1101 }
1102 \c@onlypreamble\SectionsOff
1103 \newcommand*\SectionsOn{%
1104     \let\c@section\acs@section
1105     \let\c@subsection\acs@subsection
1106     \let\c@subsubsection\acs@subsubsection
1107 }
1108 \c@onlypreamble\SectionsOn

```

\tableofcontents Never print TOC in itself.

```

1109 \begingroup
1110   \toks@=\expandafter{\tableofcontents}
1111   \xdef\tableofcontents{%
1112     \begingroup

```

```

1113      \let\noexpand\@startsection\noexpand\acs@startsection@orig
1114      \the\toks@
1115      \endgroup
1116  }
1117 \endgroup

acknowledgement Simple named sections.
suppinfo 1118 \newenvironment{acknowledgement}{%
1119   \acs@section*\{\!acknowledgementname\}%
1120 }{%
1121 \newenvironment{suppinfo}{%
1122   \acs@section*\{\!suppinfo\}%
1123 }{%
1124 }{%
1125 \newcommand*\!acknowledgementname{Acknowledgement}%
1126 \AtEndOfClass{%
1127   \def\bibsection{%
1128     \acs@section*\{\!refname\}%
1129   }%
1130 \newcommand*\!suppinfo\!name{Supporting Information Available}%
1131 \newcommand*\!acs@abstract{}%
1132 \let\acs@abstract\abstract%
1133 \newcommand*\!acs@endabstract{}%
1134 \let\acs@endabstract\endabstract%
1135 \begingroup%
1136   \catcode`{ \active
1137   \catcode`} 12\relax
1138   \catcode`( 1\relax
1139   \catcode`) 2\relax
1140   \gdef\acs@abstract@start{%
1141     \acs@warning{%
1142       Abstract not allowed for this\MessageBreak
1143       manuscript type
1144     }%
1145     \bsphack
1146     \catcode`{ \active
1147     \catcode`} 12\relax
1148     \let\end\fi
1149     \let{\acs@abstract@end% }%
1150     \iffalse
1151   )%{%
1152   \gdef\acs@abstract@end#1}{%
1153     \def\@tempa{#1}%
1154     \ifx\@tempa\currenvir
1155       \EspHack\endgroup
1156     \if@ignore
1157       \global\@ignorefalse
1158       \ignorespaces
1159     \fi

```

```

1160      \else
1161          \expandafter\acs@abstract@iffalse
1162      \fi
1163  )
1164 \endgroup
1165 \newcommand*\acs@iffalse{\iffalse}

\AbstractOff A very similar pattern to before.
\AbstractOn
1166 \newcommand*\AbstractOff{%
1167   \let\abstract\acs@abstract@start
1168   \let\endabstract\acs@abstract@end
1169 }
1170 \onlypreamble\AbstractOff
1171 \newcommand*\AbstractOn{%
1172   \let\abstract\acs@abstract
1173   \let\endabstract\acs@endabstract
1174 }
1175 \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.
1176 \newtoks\acs@collect@toks
1177 \newtoks\acs@collect@empty@toks
1178 \newcommand*\acs@collect@begins{}%
1179 \newcommand*\acs@collect@content{}%

\acs@collect This is a \long version of \collect@body.
\acs@collect@aux
1180 \newcommand\acs@collect[1]{%
1181   \acs@collect@toks{%
1182     \expandafter#\!\expandafter{\the\acs@collect@toks}%
1183   }%
1184   \edef\acs@collect@content{%
1185     \the\acs@collect@toks
1186     \noexpand\end{\currenvir}%
1187   }%
1188   \acs@collect@toks\acs@collect@empty@toks
1189   \def\acs@collect@begins{b}%
1190   \begingroup
1191     \expandafter\let\csname\currenvir\endcsname\acs@collect@aux
1192     \edef\acs@collect@content{%
1193       \expandafter\noexpand\csname\currenvir\endcsname
1194     }%
1195   \acs@collect@content
1196 }%
1197 \newcommand*\acs@collect@aux{}%
1198 \long\def\acs@collect@aux#1\end#2{%
1199   \edef\acs@collect@begins{%
1200     \acs@collect@begins@#1\begin\end
1201     \expandafter\gobble\acs@collect@begins
1202   }%
1203   \ifx\empty\acs@collect@begins
1204     \endgroup
1205   \checkend{#2}%

```

```

1206      \acs@collect@body{#1}%
1207  \else
1208      \acs@collect@body{#1\end{#2}}%
1209  \fi
1210  \acs@collect@content
1211 }
1212 \newcommand*\acs@collect@begins@{}
1213 \long\def\acs@collect@begins@#1\begin{#2}{%
1214     \ifx\end{#2}\else
1215         b\expandafter\acs@collect@begins@
1216     \fi
1217 }
1218 \newcommand\acs@collect@body[1]{%
1219     \global\acs@collect@toks\expandafter{\the\acs@collect@toks#1}%
1220 }

```

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

```

1221 \newcommand\acs@abstract@print[1]{%
1222     \global\long\def\acs@abstract@text{%
1223         \if@twocolumn
1224             @restonecoltrue\onecolumn
1225         \else
1226             @restonecolfalse\newpage
1227         \fi
1228     \acs@section*{Abstract}%
1229     #1%
1230     \if@restonecol
1231         \twocolumn
1232     \else
1233         \newpage
1234     \fi
1235 }
1236 \AtEndDocument{\acs@abstract@text}%
1237 }

```

\acs@tocentry@print \acs@tocentry@print@aux 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@text
1238 \newcommand{\acs@tocentry@print}[1]{%
1239     \gdef\acs@tocentry@text{\normalsize#1}%
1240 \AtEndDocument{%
1241     \if@twocolumn
1242         @restonecoltrue\onecolumn
1243     \else
1244         @restonecolfalse\newpage
1245     \fi
1246     \acs@tocentry@print@aux
1247     \if@restonecol
1248         \twocolumn
1249     \else
1250         \newpage
1251     \fi
1252 }
1253 }

```

```

1254 \newcommand*{\acs@tocentry@print@aux}{%
1255   \begingroup
1256     \let\@startsection\acs@startsection@orig
1257     \acs@section*{\tocentryname}%
1258     \tocsizes
1259     \sffamily
1260     \singlspacing
1261     \begin{center}
1262       \fbox
1263       {%
1264         \begin{minipage}{\acs@tocentry@height}
1265           \vbox to \acs@tocentry@width{\acs@tocentry@text}%
1266         \end{minipage}%
1267       }%
1268     \end{center}%
1269   \endgroup
1270 }
1271 \newcommand*\acs@tocentry@text{TOC ENTRY REQUIRED}
1272 \newlength{\acs@tocentry@height}
1273 \newlength{\acs@tocentry@width}
1274 \setlength{\acs@tocentry@height}{9 cm}
1275 \setlength{\acs@tocentry@width}{3.5 cm}

```

**tocentry** Actually creating the entry is pretty easy.

```
1276 \newenvironment{tocentry}{\acs@collect\acs@tocentry@print}{}%
```

**\tocentryname** A simple name macro.

```
1277 \newcommand*{\tocentryname}{Graphical TOC Entry}
```

**\tocsizes** The font size for printing the TOC entry.

```

1278 \newcommand*\tocsizes{%
1279   \setfontsize\tocsizes\@viiipt\@ixpt
1280 }
```

**\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@default
\acs@type@check
1281 \newcommand*\acs@type@list{article,communication,suppinfo}
1282 \newcommand*\acs@type@default{article}
1283 \newcommand*\acs@type@check{%
1284   \tempswafalse
1285   \for\@tempa:=\acs@type@list\do{%
1286     \ifx\@tempa\acs@manuscript
1287       \expandafter\@tempswatrue
1288     \fi
1289   }%
1290   \if@tempswa\else
1291     \acs@warning{%
1292       Invalid manuscript type \acs@manuscript:\MessageBreak
1293       changed to default type \acs@type@default
1294     }%
1295   \let\acs@manuscript\acs@type@default
1296   \fi
1297 }
```

A few bits for older versions.

```

1298 \newcommand*\acs@setkeys{\setkeys{acs}}
1299 \let\acs@killabstract\AbstractOff
1300 \let\acs@killsecs\SectionsOff
1301 \newcommand*\acs@validtype[2]{%
1302   \def\acs@type@default{#1}%
1303   \def\acs@type@list{#2}%
1304 }

```

\acs@par A saved paragraph.

```

1305 \newcommand*\acs@par{}%
1306 \let\acs@par\par

```

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

```

suppinfo 1307 \newcommand*\acs@layout@shared{%
1308   \AtBeginDocument{\singespacing}%
1309   \twocolumn
1310   \tolerance=2000\relax
1311   \emergencystretch=10pt\relax
1312   \geometry{%
1313     letterpaper,
1314     top    = 12.7mm,
1315     bottom = 16.8mm,
1316     left   = 19.3mm,
1317     right  = 19.3mm
1318   }%
1319   \setlength{\columnsep}{8.1mm}%
1320   \setlength{\parindent}{3.3mm}%
1321   \renewenvironment{acknowledgement}{%
1322     \def\@tempa{acknowledgement}%
1323     \ifx\@currenvir\@tempa
1324       \let\par\relax
1325       \acksizesize
1326       \vspace{6pt}%
1327       \textbf{\ acknowledgementname}%
1328     \else
1329       \acs@section*\{ acknowledgementname}%
1330     \fi
1331   }%
1332   \acs@par
1333 }%
1334 }

```

\acksize More sizes.

```

\suppsize 1335 \newcommand*\acksize{\normalsize}%
1336 \newcommand*\suppsize{\normalsize}

```

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

```

\acs@layout@ten 1337 \newcommand*\acs@layout@nine{%
1338   \def\@xipt{11}%
1339   \long\def\normalsize{%

```

```

1340     \@setfontsize\normalsize\@ixpt\@xipt
1341   }%
1342   \normalsize
1343   \let\@listi\@listI
1344   \abovedisplayskip 5\p@ \oplus2\p@ \minus 5\p@\relax
1345   \abovedisplayshortskip \z@ \oplus3\p@\relax
1346   \belowdisplayshortskip 3\p@ \oplus3\p@ \minus 3\p@\relax
1347   \belowdisplayskip\abovedisplayskip\relax
1348   \abovecaptionskip 5\p@\relax
1349   \intextsep 7\p@ \plus 2\p@ \minus 2\p@\relax
1350 }
1351 \newcommand*\acs@layout@ten{%
1352   \long\def\normalsize{%
1353     \@setfontsize\normalsize\@xpt\@xipt
1354   }%
1355   \normalsize
1356   \@setfontsize\normalsize\@xpt\@xipt
1357   \let\@listi\@listI
1358   \abovedisplayskip 10\p@ \oplus2\p@ \minus 5\p@\relax
1359   \abovedisplayshortskip \z@ \oplus3\p@\relax
1360   \belowdisplayshortskip 6\p@ \oplus3\p@ \minus 3\p@\relax
1361   \belowdisplayskip \abovedisplayskip\relax
1362 }

```

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

```

1363 \InputIfFileExists{achemso-\acs@journal.cfg}{}{%
1364   \acs@warning{%
1365     Unknown journal '\acs@journal':\MessageBreak
1366     using default configuration JACSAT%
1367   }%
1368   \input{achemso-jacsat.cfg}%
1369 }

```

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

```

1370 \acs@type@check
1371 \ifx\acs@manuscript\acs@manuscript@note
1372   \SectionsOff
1373 \fi
1374 \ifx\acs@manuscript\acs@manuscript@review
1375   \SectionsOn
1376   \SectionNumbersOn
1377 \fi
1378 \ifx\acs@manuscript\acs@manuscript@suppinfo
1379   \setkeys{acs}{maxauthors = 0}
1380   \def\thepage{S-\arabic{page}}
1381   \renewcommand*\thefigure{S\@arabic\c@figure}
1382   \renewcommand*\thescheme{S\@arabic\c@scheme}
1383   \renewcommand*\thetable{S\@arabic\c@table}
1384   \AtBeginDocument
1385   {%
1386     \renewcommand*\citemumfont[1]{S#1}%
1387     \renewcommand*\bibnumfmt[1]{{(S#1)}%}
1388   }

```

```

1389 \fi

    Set up two column layout.

1390 \begingroup
1391   \def\@tempa{twocolumn}
1392   \ifx\acs@layout\@tempa
1393     \aftergroup\acs@layout@shared
1394   \fi
1395   \def\@tempa{two-column}
1396   \ifx\acs@layout\@tempa
1397     \aftergroup\acs@layout@shared
1398   \fi
1399 \endgroup
1400 </class>

```

## 8.5 Late shared code

\citemenumfont 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.

```

1401 <*class | package>
1402 \ifacs@super
1403   \RequirePackage[sort&compress,numbers,super]{natbib}
1404 \else
1405   \RequirePackage[sort&compress,numbers,round]{natbib}
1406   \def\citemenumfont{\textit}
1407 \fi
1408 \define@key{acs}{super}[true]{%
1409   \def\@tempa{\#1}%
1410   \def\@tempb{true}%
1411   \ifx\@tempa\@tempb
1412     \setcitestyle{super,open={},close={}}%
1413     \renewcommand*\citemenumfont{}%
1414   \else
1415     \setcitestyle{round}%
1416     \renewcommand*\citemenumfont{\textit}%
1417   \fi
1418 }
1419 \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.

```

1420 \IfFileExists{mciteplus.sty}{%
1421   \RequirePackage{mciteplus}
1422   \providecommand*\@mciteNatbibCiteCmdList{}%
1423   \edef\@tempa{\noexpand\in@\citemenum{\@mciteNatbibCiteCmdList}}%
1424   \@tempa
1425   \ifin@
1426   \else

```

```

1427     \edef\@mciteNatbibCiteCmdList{\@mciteNatbibCiteCmdList,citemum}%
1428   \fi
1429 (*!package)
1430   \def\@mciteSubRef[##1]##2{\plainref{\@mcitereflabelprefix:##1:##2}}
1431 (/!package)
1432 }{}
```

- \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.

```

1433 \newcommand*\acs@bibstyle{achemso}
1434 \ifacs@biochem
1435   \def\acs@bibstyle{biochem}
1436   \bibliographystyle{biochem}
1437 \else
1438   \bibliographystyle{achemso}
1439 \fi
```

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

```

1440 \newcommand*\acs@bibliographystyle{}
1441 \let\acs@bibliographystyle\bibliographystyle
1442 \def\bibliographystyle#1{%
1443   \acs@warning{\string\bibliographystyle\space ignored}%
1444   \expandafter\acs@bibliographystyle\expandafter{\acs@bibstyle}%
1445 }
1446 </class | package>
```

## 8.6 Late package-only code

The notes2bib code may or may not be activated.

```

1447 (*package)
1448 \AtBeginDocument{%
1449   \@ifpackageloaded{notes2bib}{}{%
1450     \acs@niib@create
1451   }%
1452 }
1453 </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.

```

1454 (*natmove)
1455 \ProvidesPackage{natmove}
1456 [2010/01/15 v1.1a Automatic citation moving with natbib]
1457 \RequirePackage{natbib}
```

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

```

1458 \newcommand*\nmv@ifmtarg{}
1459 \newcommand*\nmv@xifmtarg{}
```

```

1460 \begingroup
1461   \catcode`\Q 3\relax
1462   \long\gdef\nmv@ifmtarg#1{%
1463     \nmv@xifmtarg#1QQ\@secondoftwo\@firstoftwo\@nil
1464   }
1465   \long\gdef\nmv@xifmtarg#1#2Q#3#4#5\@nil{#4}
1466 \endgroup

\ifnmv@cite A flag is need to watch whether \cite or another macro is in use.
1467 \newif\ifnmv@cite

\nmv@citex Using the flag, either the new internal macro, or the natbib original, can be called.
1468 \newcommand*\nmv@citex{%
1469   \ifnmv@cite
1470     \expandafter\nmv@citex@moving
1471   \else
1472     \expandafter\nmv@citex@nat
1473   \fi
1474 }

\nmv@after Later, the argument for \cite will need to be saved.
1475 \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.
1476 \newcommand*\nmv@citex@moving{}
1477 \def\nmv@citex@moving[#1] [#2] #3{%
1478   \leavevmode
1479   \skip@\lastskip\relax
1480   \unskip
1481   \begingroup
1482     \def\nmv@after{\nmv@citex@nat[#1] [#2] {#3}}%
1483     \global\nmv@citefalse
1484     \nmv@citex@get@next\relax
1485 }

\nmv@citex@end To get things right at the end.
1486 \newcommand*\nmv@citex@end{%
1487   \nmv@after
1488   \endgroup
1489 }

\nmv@citex@get@next The next token on the input stack is saved into \nmv@citex@next, after gobbling up one token.
1490 \newcommand*\nmv@citex@get@next[1]{%
1491   \futurelet\nmv@citex@next\nmv@citex@punct
1492 }

\nmv@citex@punct \nmv@citex@punct@undouble
\nmv@citex@loop 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.
1493 \newcommand*\nmv@citex@punct{%

```

```

1494 \let\nmv@citex@loop\nmv@citex@end
1495 \ifx\nmv@citex@next.\relax
1496   \ifnum\spacefactor<\nmv@citex@sfac\else
1497     \expandafter\expandafter\expandafter\nmv@citex@punct@undouble
1498   \fi
1499 \fi
1500 \expandafter\nmv@citex@punct@aux\natmovechars@nil
1501 \nmv@citex@loop
1502 }
1503 \newcommand*\nmv@citex@punct@undouble{%
1504   \let\nmv@citex@next\relax
1505   \let\nmv@citex@loop\nmv@citex@get@next
1506 }
1507 \newcommand*\nmv@citex@loop{}}

```

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

```

1508 \newcommand*\nmv@citex@punct@aux[1]{%
1509   \ifx\nmv@citex@next#1\empty
1510     #1%
1511     \let\nmv@citex@loop\nmv@citex@get@next
1512   \fi
1513   \ifx#1\@nil\else
1514     \expandafter\nmv@citex@punct@aux
1515   \fi
1516 }

```

\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.

```

1517 \mathchardef\nmv@citex@sfac3000\relax
1518 \expandafter\def\expandafter\frenchspacing\expandafter{%
1519   \frenchspacing
1520   \mathchardef\nmv@citex@sfac1001\relax
1521   \sfcode`.\nmv@citex@sfac
1522   \sfcode`\?\nmv@citex@sfac
1523   \sfcode`\!\nmv@citex@sfac
1524 }
1525 \ifnum\sfcode`.=\@m
1526   \frenchspacing
1527 \fi

```

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

```

1528 \newcommand*\nmv@citex@nat{}
1529 \newcommand*\nmv@activate{%
1530   \let\nmv@citex@nat@\citex
1531   \let@\citex\nmv@citex
1532   \let\nmv@cite\cite
1533   \renewcommand*{\cite}[2][]{%
1534     \nmv@ifmtarg{##1}{%
1535       \nmv@citetrue
1536       \nmv@cite{##2}%
1537     }{%
1538       \nmv@citefalse

```

```

1539      \nmv@cite[##1]{##2}%
1540  }%
1541 }

\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.
1542 \newcommand*\nmv@natbib@detect{%
1543   \@ifpackageloaded{natbib}{%
1544     \ifNAT@super
1545       \expandafter\nmv@activate
1546     \fi
1547   }%
1548   \PackageInfo{natmove}{%
1549     The natbib package is not loaded.\MessageBreak
1550     Loading natmove will do nothing
1551   }%
1552 }%
1553 }
1554 \AtBeginDocument{\nmv@natbib@detect}

\natmovechars A user macro is needed for moving characters.
1555 \newcommand*\natmovechars{.,;:}
1556 </natmove>

```

## 8.8 The configuration files

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

```

1557 {*achre4}
1558 \ProvidesFile{achemso-achre4.cfg}
1559 [2019-02-14 v3.12a achemso configuration: Acc. Chem. Res.]
1560 \setkeys{acs}{biblabel = plain}
1561 \def\acs@type@list{article,suppinfo}
1562 \def\abstractname{Conspectus}
1563 </achre4>
1564 {*aaembp}
1565 \ProvidesFile{achemso-aaembp.cfg}
1566 [2019-02-14 v3.12a achemso configuration: ACS Appl. Electron. Mater.]
1567 \def\acs@type@list{article,letter,suppinfo}
1568 \setkeys{acs}{keywords = true}
1569 </aaembp>
1570 {*aaemcq}
1571 \ProvidesFile{achemso-aaemcq.cfg}
1572 [2019-02-14 v3.12a achemso configuration: ACS Appl. Energy Mater.]
1573 \def\acs@type@list{article,letter,suppinfo}
1574 \setkeys{acs}{keywords = true}
1575 </aaemcq>
1576 {*aamick}
1577 \ProvidesFile{achemso-aamick.cfg}
1578 [2019-02-14 v3.12a achemso configuration: ACS Appl. Mater. Interfaces]
1579 \def\acs@type@list{article,letter,suppinfo}
1580 \setkeys{acs}{keywords = true}

```

```

1581 </aamick>
1582 (*aanmf6)
1583 \ProvidesFile{achemso-aanmf6.cfg}
1584 [2019-02-14 v3.12a achemso configuration: ACS Appl. Nano Mater.]
1585 \def\acs@type@list{article,letter,suppinfo}
1586 \setkeys{acs}{keywords = true}
1587 </aanmf6>
1588 (*aapmcd)
1589 \ProvidesFile{achemso-aapmcd.cfg}
1590 [2019-02-14 v3.12a achemso configuration: ACS Appl. Polym. Mater.]
1591 \def\acs@type@list{article,letter,suppinfo}
1592 \setkeys{acs}{keywords = true}
1593 </aapmcd>
1594 (*abseba)
1595 \ProvidesFile{achemso-abseba.cfg}
1596 [2019-02-14 v3.12a achemso configuration: ACS Biomater. Sci. Eng.]
1597 \setkeys{acs}{keywords = true}
1598 \def\acs@type@list{article,review,suppinfo}
1599 </abseba>
1600 (*accacs)
1601 \ProvidesFile{achemso-accacs.cfg}
1602 [2019-02-14 v3.12a achemso configuration: ACS Catal.]
1603 \setkeys{acs}{keywords = true}
1604 \def\acs@type@list{article,letter,perspective,review,viewpoints,suppinfo}
1605 \SectionNumbersOff
1606 </accacs>
1607 (*acscii)
1608 \ProvidesFile{achemso-acscii.cfg}
1609 [2019-02-14 v3.12a achemso configuration: ACS Central Sci.]
1610 \def\acs@type@list{article,review,suppinfo}
1611 \setkeys{acs}{doi = true}
1612 \SectionNumbersOff
1613 </acscii>
1614 (*acbct)
1615 \ProvidesFile{achemso-acbct.cfg}
1616 [2019-02-14 v3.12a achemso configuration: ACS Chem. Biol.]
1617 \setkeys{acs}{%
1618   biblabel = fullstop,
1619   biochem = true,
1620   super = false
1621 }
1622 \def\acs@type@list{article,letter,review,suppinfo}
1623 \SectionNumbersOff
1624 </acbct>
1625 (*acncdm)
1626 \ProvidesFile{achemso-acncdm.cfg}
1627 [2019-02-14 v3.12a achemso configuration: ACS Chem. Neurosci.]
1628 \def\acs@type@list{article,review,letter,suppinfo,viewpoint}
1629 \setkeys{acs}{%
1630   biblabel = fullstop,
1631   biochem = true,
1632   keywords = true,
1633   super = false
1634 }

```

```

1635 </acncdm>
1636 {*acsccc}
1637 \ProvidesFile{achemso-acscce.cfg}
1638 [2019-02-14 v3.12a achemso configuration: ACS Combinatorial Sci.]
1639 \def\acs@type@list{article,letter,review,perspective,account,note,suppinfo}
1640 \setkeys{acs}{keywords = true}
1641 \SectionNumbersOff
1642 </acscce>
1643 {*aesccq}
1644 \ProvidesFile{achemso-aesccq.cfg}
1645 [2019-02-14 v3.12a achemso configuration: ACS Earth Space Chem.]
1646 \def\acs@type@list{article,suppinfo}
1647 \setkeys{acs}{keywords = true}
1648 </aesccq>
1649 {*aelccp}
1650 \ProvidesFile{achemso-aelccp.cfg}
1651 [2019-02-14 v3.12a achemso configuration: ACS Energy Lett.]
1652 \def\acs@type@list{letter,perspective,review,viewpoint,focus}
1653 \SectionsOff
1654 </aelccp>
1655 {*ascefj}
1656 \ProvidesFile{achemso-ascefj.cfg}
1657 [2019-02-14 v3.12a achemso configuration: ACS Infect. Dis.]
1658 \def\acs@type@list{article,letter,perspective,review,viewpoint,suppinfo}
1659 \setkeys{acs}{keywords = true}
1660 \SectionsOff
1661 </ascefj>
1662 {*amlccd}
1663 \ProvidesFile{achemso-amlccd.cfg}
1664 [2019-02-14 v3.12a achemso configuration: ACS Macro Lett.]
1665 \def\acs@type@list{letter,suppinfo}
1666 \SectionsOff
1667 \setlength{\acs@tocentry@height}{8 cm}
1668 \setlength{\acs@tocentry@width}{4 cm}
1669 </amlccd>
1670 % \changes{v3.12a}{2019-02-14}{New \texttt{amlcef} configuration}
1671 {*amlcef}
1672 \ProvidesFile{achemso-amlcef.cfg}
1673 [2019-02-14 v3.12a achemso configuration: ACS Mater. Lett.]
1674 \def\acs@type@list{letter,perspective,review,viewpoint,focus}
1675 \SectionsOff
1676 </amlcef>
1677 {*amclct}
1678 \ProvidesFile{achemso-amclct.cfg}
1679 [2019-02-14 v3.12a achemso configuration: ACS Med. Chem. Lett.]
1680 \def\acs@type@list{article,letter,perspective,suppinfo}
1681 \SectionNumbersOff
1682 </amclct>
1683 % \changes{v3.8n}{2015/01/13}{\emph{ACS Nano} want abbreviations}
1684 % \changes{v3.11}{2018/04/02}{Change \emph{ACS Nano} truncation}
1685 {*ancac3}
1686 \ProvidesFile{achemso-ancac3.cfg}
1687 [2019-02-14 v3.12a achemso configuration: ACS Nano]
1688 \setkeys{acs}{}

```

```

1689   abbreviations = true,
1690   biblabel      = fullstop,
1691   etalmode      = truncate,
1692   maxauthors    = 20,
1693   keywords      = true
1694 }
1695 \def\acs@type@list{article,perspective,suppinfo}
1696 \newcommand*\latin[1]{\emph{#1}}
1697 \SectionNumbersOff
1698 </ancac3>
1699 (*acsodf)
1700 \ProvidesFile{achemso-acsodf.cfg}
1701 [2019-02-14 v3.12a achemso configuration: ACS Omega.]
1702 \def\acs@type@list{article}
1703 </acsodf>
1704 (*apchd5)
1705 \ProvidesFile{achemso-apchd5.cfg}
1706 [2019-02-14 v3.12a achemso configuration: ACS Photon.]
1707 \def\acs@type@list{article,letter,perspective,review,suppinfo}
1708 \setkeys{acs}{keywords = true}
1709 \ifx\acs@manuscript\acs@manuscript@letter
1710   \SectionNumbersOff
1711 \fi
1712 </apchd5>
1713 (*aidcbc)
1714 \ProvidesFile{achemso-aidcbc.cfg}
1715 [2019-02-14 v3.12a achemso configuration: ACS Sensors]
1716 \def\acs@type@list{article,letter,perspective,review,suppinfo}
1717 \setkeys{acs}{keywords = true}
1718 \SectionNumbersOff
1719 </aidcbc>
1720 (*ascecg)
1721 \ProvidesFile{achemso-ascecg.cfg}
1722 [2019-02-14 v3.12a achemso configuration: ACS Sustainable Chem Eng.]
1723 \setkeys{acs}{}
1724   biblabel = fullstop,
1725   keywords = true
1726 }
1727 \SectionNumbersOff
1728 \def\acs@type@list{article,feature,letter,perspective,review,suppinfo}
1729 </ascecg>
1730 (*asbcd6)
1731 \ProvidesFile{achemso-asbcd6.cfg}
1732 [2019-02-14 v3.12a achemso configuration: ACS Synth. Biol.]
1733 \setkeys{acs}{}
1734   abbreviations = true,
1735   biblabel      = fullstop,
1736   biochem       = true,
1737   keywords      = true,
1738   super         = false
1739 }
1740 \def\acs@type@list{article,letter,note,tutorial,review,suppinfo}
1741 </asbcd6>
1742 (*ancham)

```

```

1743 \ProvidesFile{achemso-ancham.cfg}
1744 [2019-02-14 v3.12a achemso configuration: Anal. Chem.]
1745 \def\acs@type@list{article,note,suppinfo}
1746 \SectionNumbersOff
1747 </ancham>
1748 {*bichaw}
1749 \ProvidesFile{achemso-bichaw.cfg}
1750 [2019-02-14 v3.12a achemso configuration: Biochemistry]
1751 \setkeys{acs}{%
1752   abbreviations = true,
1753   biblabel      = brackets,
1754   biochem        = true,
1755 }
1756 \SectionNumbersOff
1757 \def\acs@maketitle@extras@hook{%
1758   \par
1759   \acs@title@short@print
1760 }
1761 \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.

```

1762 \def\acs@author@fnsymbol#1{%
1763   \ensuremath{%
1764     \ifcase #1 *\or
1765       \dagger\or
1766       \ddagger\or
1767       \S\or
1768       \parallel\or
1769       \perp\or
1770       \P\or
1771       \|\or
1772       \bot\or
1773       \#\or
1774       @\or
1775       \triangle\or
1776       \nabla\else
1777       #1%
1778   \fi
1779 }%
1780 }
1781 \def\@maketitle@title@hook{%
1782   \ifnum\acs@footnote@cnt>\@ne
1783   \else
1784     \global\acs@footnote@cnt\@ne
1785   \fi
1786 }

1787 </bichaw>
1788 {*bcches}
1789 \ProvidesFile{achemso-bcches.cfg}
1790 [2019-02-14 v3.12a achemso configuration: Bioconjugate Chem.]
1791 \setkeys{acs}{%
1792   biochem = true,

```

```

1793     super    = false
1794 }
1795 \SectionNumbersOff
1796 (/bcches)
1797 (*bomaf6)
1798 \ProvidesFile{achemso-bomaf6.cfg}
1799 [2019-02-14 v3.12a achemso configuration: Biomacromolecules]
1800 \def\acs@type@list{article,comment,communication,note,review,suppinfo}
1801 \SectionNumbersOff
1802 \AtEndOfClass{\SectionsOn}
1803 (/bomaf6)
1804 (*crtoec)
1805 \ProvidesFile{achemso-crtoec.cfg}
1806 [2019-02-14 v3.12a achemso configuration: Chem. Res. Toxicol.]
1807 \setkeys{acs}{
1808   abbreviations = true,
1809   biochem       = true,
1810   keywords      = true
1811 }
1812 \def\acs@maketitle@extras@hook{%
1813   \par
1814   \acs@title@short@print
1815 }
1816 \def\acs@type@list{%
1817   article,perspective,profile,review,suppinfo%
1818 }
1819 \SectionNumbersOff
1820 (/crtoec)
1821 (*chreay)
1822 \ProvidesFile{achemso-chreay.cfg}
1823 [2019-02-14 v3.12a achemso configuration: Chem. Rev.]
1824 \def\acs@type@default{review}
1825 \def\acs@type@list{review}

```

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

```

1826 \def\bibsection{\acs@section{\refname}}
1827 (/chreay)
1828 (*cmatex)
1829 % \begin{macrocode}
1830 \ProvidesFile{achemso-cmatex.cfg}
1831 [2019-02-14 v3.12a achemso configuration: Chem. Mater.]
1832 \setkeys{acs}{keywords = true}
1833 \SectionNumbersOff
1834 \ifx\acs@manuscript\acs@manuscript@communication
1835   \AbstractOff
1836   \SectionsOff
1837 \fi
1838 (/cmatex)
1839 (*cgdefu)
1840 \ProvidesFile{achemso-cgdefu.cfg}
1841 [2019-02-14 v3.12a achemso configuration: Cryst. Growth Des.]
1842 \def\acs@type@list{%
1843   article,communication,perspective,suppinfo%
1844 }

```

```

1845 \SectionNumbersOff
1846 \ifx\acs@manuscript\acs@manuscript@communication
1847   \SectionsOff
1848 \fi
1849 \setlength{\acs@tocentry@height}{8.9 cm}
1850 \setlength{\acs@tocentry@width}{4.6 cm}
1851 </cgdefu>
1852 <*enfuem>
1853 \ProvidesFile{achemso-enfuem.cfg}
1854 [2019-02-14 v3.12a achemso configuration: Energy Fuels]
1855 \def\acs@type@list{article,review,suppinfo}
1856 \SectionNumbersOff
1857 </enfuem>
1858 <*esthag>
1859 \ProvidesFile{achemso-esthag.cfg}
1860 [2019-02-14 v3.12a achemso configuration: Environ. Sci. Technol.]
1861 \def\acs@type@list{article,suppinfo}
1862 \SectionNumbersOff
1863 </esthag>
1864 <*estlcu>
1865 \ProvidesFile{achemso-estlcu.cfg}
1866 [2019-02-14 v3.12a achemso configuration: Environ. Sci. Technol. Lett.]
1867 \def\acs@type@list{letter,suppinfo}
1868 \SectionNumbersOff
1869 </estlcu>
1870 % \changes{v3.8m}{2014/11/24}{Fixes for \emph{Ind.\ Eng.\ Chem.\ Res.}\ style}
1871 <*icred>
1872 \ProvidesFile{achemso-icred.cfg}
1873 [2019-02-14 v3.12a achemso configuration: Ind. Eng. Chem. Res.]
1874 \setkeys{acs}{biblabel = brackets}
1875 \SectionNumbersOff
1876 </icred>
1877 <*inoraj>
1878 \ProvidesFile{achemso-inoraj.cfg}
1879 [2019-02-14 v3.12a achemso configuration: Inorg. Chem.]
1880 \SectionNumbersOff
1881 \ifx\acs@manuscript\acs@manuscript@communication
1882   \AbstractOff
1883   \SectionsOff
1884 \fi
1885 \setkeys{acs}{doi = true}
1886 </inoraj>
1887 <*jafcau>
1888 \ProvidesFile{achemso-jafcau.cfg}
1889 [2019-02-14 v3.12a achemso configuration: J. Agric. Food Chem.]
1890 \setkeys{acs}{keywords = true}
1891 \def\acs@type@list{article,suppinfo}
1892 \SectionNumbersOff
1893 </jafcau>
1894 <*jceda8>
1895 \ProvidesFile{achemso-jceda8.cfg}
1896 [2019-02-14 v3.12a achemso configuration: J. Chem. Ed.]
1897 \setkeys{acs}{keywords = true}
1898 \SectionNumbersOff

```

```

1899 \def\acs@type@list{article,suppinfo}
1900 \SectionNumbersOff
1901 </jceda8>
1902 <*jceaax>
1903 \ProvidesFile{achemso-jceaax.cfg}
1904 [2019-02-14 v3.12a achemso configuration: J. Chem. Eng. Data]
1905 \def\acs@type@list{article,suppinfo}
1906 \def\refname{Literature Cited}
1907 \SectionNumbersOff
1908 </jceaax>
1909 <*jcisd8>
1910 \ProvidesFile{achemso-jcisd8.cfg}
1911 [2019-02-14 v3.12a achemso configuration: J. Chem. Inf. Model.]
1912 \def\acs@type@list{article,suppinfo}
1913 \SectionNumbersOff
1914 </jcisd8>
1915 <*jtcce>
1916 \ProvidesFile{achemso-jtcce.cfg}
1917 [2019-02-14 v3.12a achemso configuration: J. Chem. Theory Comput.]
1918 \def\acs@type@list{article,suppinfo}
1919 \setkeys{acs}{maxauthors = 0}
1920 </jtcce>
1921 <*jmcmar>
1922 \ProvidesFile{achemso-jmcmar.cfg}
1923 [2019-02-14 v3.12a achemso configuration: J. Med. Chem.]
1924 \def\acs@type@list{article,letter,perspective,suppinfo}
1925 \SectionNumbersOff
1926 \setlength{\acs@tocentry@height}{5.5cm}
1927 \setlength{\acs@tocentry@width}{21cm}
1928 </jmcmar>
1929 <*jnprdf>
1930 \ProvidesFile{achemso-jnprdf.cfg}
1931 [2019-02-14 v3.12a achemso configuration: J. Nat. Prod.]
1932 \renewcommand*{\abstractname}{ABSTRACT}
1933 \renewcommand*{\acknowledgementname}{ACKNOWLEDGEMENT}
1934 \renewcommand*{\suppinfo}{ASSOCIATED CONTENT}
1935 \SectionNumbersOff
1936 \renewcommand*{\acs@abstract}{%
1937   \quotation
1938   \textbf{\abstractname} : }%
1939 }
1940 \AbstractOn
1941 \ifx\acs@manuscript\acs@manuscript@communication
1942   \AbstractOff
1943   \SectionsOff
1944 \fi
1945 \def\refname{REFERENCES}
1946 \captionsetup{
1947   labelfont = bf,
1948   labelsep = period
1949 }
1950 </jnprdf>
1951 <*joceah>
1952 \ProvidesFile{achemso-joceah.cfg}

```

```

1953 [2019-02-14 v3.12a achemso configuration: J. Org. Chem.]
1954 \ifx\acs@manuscript\acs@manuscript@communication
1955 \AbstractOff
1956 \SectionsOff
1957 \fi
1958 \floatstyle{plaintop}
1959 \restylefloat{scheme}
1960 \floatstyle{plain}
1961 \renewcommand*\acs@type@list{article,communication,note,perspective,review,suppinfo}
1962 ⟨/joceah⟩

1963 ⟨*jpcfh⟩
1964 \ProvidesFile{achemso-jpcfh.cfg}
1965 [2019-02-14 v3.12a achemso configuration: J. Phys. Chem. A]
1966 \def\acs@type@list{article,suppinfo}
1967 \setkeys{acs}{%
1968   etalmode      = truncate,
1969   maxauthors    = 10
1970 }
1971 \SectionNumbersOff
1972 \captionsetup[table]{labelfont=bf, textfont=bf}

Title

1973 \g@addto@macro{\maketitle}{\newpage}
1974 ⟨/jpcfh⟩
1975 ⟨*jpckf⟩
1976 \ProvidesFile{achemso-jpckf.cfg}
1977 [2019-02-14 v3.12a achemso configuration: J. Phys. Chem. B]
1978 \def\acs@type@list{article,suppinfo}
1979 \setkeys{acs}{%
1980   etalmode      = truncate,
1981   maxauthors    = 10
1982 }
1983 \SectionNumbersOff
1984 \captionsetup[table]{labelfont=bf, textfont=bf}
1985 \g@addto@macro{\maketitle}{\newpage}
1986 ⟨/jpckf⟩
1987 ⟨*jpccck⟩
1988 \ProvidesFile{achemso-jpccck.cfg}
1989 [2019-02-14 v3.12a achemso configuration: J. Phys. Chem. C]
1990 \def\acs@type@list{article,suppinfo}
1991 \setkeys{acs}{%
1992   etalmode      = truncate,
1993   maxauthors    = 10
1994 }
1995 \SectionNumbersOff
1996 \captionsetup[table]{labelfont=bf, textfont=bf}
1997 \g@addto@macro{\maketitle}{\newpage}
1998 ⟨/jpccck⟩

1999 ⟨*jpclcd⟩
2000 \ProvidesFile{achemso-jpclcd.cfg}
2001 [2019-02-14 v3.12a achemso configuration: J. Phys. Chem. Lett.]
2002 \setkeys{acs}{%
2003   etalmode      = truncate,

```

```

2004   maxauthors = 10
2005 }
2006 \def\acs@type@default{letter}
2007 \def\acs@type@list{letter}
2008 \SectionNumbersOff
2009 \captionsetup[table]{labelfont=bf, textfont=bf}
2010 \g@addto@macro{\maketitle}{\newpage}
2011 \renewcommand{\acs@tocentry@print}[1]{%
2012   \gdef\acs@tocentry@text{\#1}%
2013 }
2014 \renewcommand*{\acs@abstract@extras}{%
2015   \begingroup
2016     \acs@tocentry@print@aux
2017   \endgroup
2018   \acs@keywords@print
2019   \newpage
2020 }
2021 \setlength{\acs@tocentry@height}{2in}
2022 \setlength{\acs@tocentry@width}{2in}
2023 </jpclcd>
2024 <*jprobs>
2025 \ProvidesFile{achemso-jprobs.cfg}
2026 [2019-02-14 v3.12a achemso configuration: J. Proteome Res.]
2027 \setkeys{acs}{keywords = true}
2028 \def\acs@type@list{article, review, suppinfo}
2029 \SectionNumbersOff
2030 </jprobs>

```

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

```

2031 <*jacsat>
2032 \ProvidesFile{achemso-jacsat.cfg}
2033 [2019-02-14 v3.12a achemso configuration: J. Am. Chem. Soc.]
2034 \SectionNumbersOff
2035 \ifx\acs@manuscript\acs@manuscript@communication\else
2036   \expandafter\endinput
2037 \fi
2038 \setkeys{acs}{articletitle = true}

```

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

```

2039 \setkeys{acs}{%
2040   email = true,
2041   layout = twocolumn
2042 }
2043 \SectionsOff
2044 \acs@layout@nine

```

**abstract** The abstract appears at the start of the document, with lines around its

```

2045 \renewenvironment{abstract}{%
2046   \hrule
2047   \vspace{2 mm}%
2048   \sffamily
2049   \noindent

```

```

2050   \emph{\textbf{Abstract}}\%
2051 }{%
2052   \vspace{2 mm}%
2053   \hrule
2054   \vspace{6 mm}%
2055 }

\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 2056 \def\affilsize{%
\emailsize 2057   \setfontsize\affilsize\@ixpt\@xpt
\capsize 2058 }
\refsize 2059 \def\acksize{%
\suppsize 2060   \setfontsize\acksize\@ixpt\@xipt
\titlesize 2061 }
2062 \def\authorsize{%
2063   \setfontsize\authorsize{10.5}{12.5}%
2064 }
2065 \newcommand*\capsize{%
2066   \setfontsize\capsize\@viiipt\@ixpt
2067 }
2068 \def\emailsize{%
2069   \setfontsize\emailsize\@viiipt{15}%
2070 }
2071 \newcommand*\refsize{%
2072   \setfontsize\refsize{7.5}{7.5}%
2073 }
2074 \def\suppsize{%
2075   \setfontsize\suppsize{8.5}{10.5}%
2076 }
2077 \def\titlesize{%
2078   \setfontsize\titlesize\@xiipt{13}%
2079 }
2080 \let\footnotesize\refsize
2081 \let\captionfont\capsize

@emailfont A slight font change.
2082 \def@emailfont{\sffamily}

\ps@plain The header styles are done the hard way, to keep down the number of packages
\ps@jacs loaded.
2083 \def\ps@plain{%
2084   \let\@mkboth\@gobbletwo
2085   \let\@oddhead\@empty
2086   \def\@oddfoot{%
2087     \reset@font
2088     \sffamily
2089     \textbf{\thepage}%
2090     \hfil
2091   }%
2092   \let\@evenhead\@empty
2093   \let\@evenfoot\@oddfoot
2094 }
2095 \def\ps@acs{%

```

```

2096 \def\@oddfoot{%
2097   \reset@font
2098   \sffamily
2099   \textbf{\thepage}%
2100   \hfil
2101 }%
2102 \def\@evenfoot{%
2103   \reset@font
2104   \hfil
2105   \sffamily
2106   \textbf{\thepage}%
2107 }%
2108 \def\@oddhead{%
2109   \let\@evenhead\@oddhead
2110 }
2111 \pagestyle{acs}

\acs@space@pre@title Length adjustments for the title.
\acs@space@post@title 2112 \setlength\acs@space@pre@title{16mm}
\acs@space@post@author 2113 \setlength\acs@space@post@title{0mm}
\acs@space@post@address 2114 \setlength\acs@space@post@author{0mm}
\acs@space@post@email 2115 \setlength\acs@space@post@address{0mm}
2116 \setlength\acs@space@post@email{-1mm}
2117 \setlength\acs@maketitle@width{152.4mm}

\acs@contact@details Contact details are different here.
2118 \def\acs@contact@details{%
2119   Received \today; E-mail: \acs@email@list
2120 }

\acs@maketitle@extras No keywords or abbreviations for J. Am. Chem. Soc..
2121 \let\acs@maketitle@extras\relax

Getting the floats correct is a difficult task “by hand”; using the caption package
makes this a lot easier.
2122 \floatstyle{plaintop}
2123 \restylefloat{scheme}
2124 \floatstyle{plain}
2125 \DeclareCaptionLabelSeparator{perquad}{.\quad}
2126 \captionsetup{
2127   singlelinecheck = off,
2128   labelfont      = {bf,it,sf},
2129   textfont       = sf,
2130   labelsep       = perquad
2131 }
2132 \captionsetup[figure]{textfont=rm}

\acs@table A patch or \table.
\table 2133 \newcommand*\acs@table{}
2134 \let\acs@table\table
2135 \def\table{%
2136   \capsize
2137   \acs@table
2138 }

```

The bibliography has to be adjusted.

```
2139 \AtBeginDocument{%
2140   \def\bibsection{%
2141     \@startsection
2142       {section}
2143       {1}
2144       {\z@{\z@{2.5mm}}%
2145         {\normalfont\large\bfseries}%
2146         {\hrule\nobreak\vspace{1.2mm}\noindent\refname}%
2147       }%
2148     \let\bibfont\refsize
2149     \setlength{\bibhang}{0.61cm}%
2150     \setlength{\bibsep}{0mm}%
2151   }
2152 
```

/jacsat

```
2153 (*langd5)
2154 \ProvidesFile{achemso-langd5.cfg}
2155 [2019-02-14 v3.12a achemso configuration: Langmuir]
2156 \def\acs@type@list{article,letter,suppinfo}
2157 \SectionNumbersOff
2158 
```

/langd5

```
2159 (*mamobx)
2160 \ProvidesFile{achemso-mamobx.cfg}
2161 [2019-02-14 v3.12a achemso configuration: Macromolecules]
2162 \SectionNumbersOff
2163 \setkeys{acs}{doi = true}
2164 
```

/mamobx

```
2165 (*mpohbp)
2166 \ProvidesFile{achemso-mpohbp.cfg}
2167 [2019-02-14 v3.12a achemso configuration: Mol. Pharm.]
2168 \setkeys{acs}{keywords = true}
2169 \def\acs@type@list{article,suppinfo}
2170 \SectionNumbersOff
2171 
```

/mpohbp

```
2172 (*nalefd)
2173 \ProvidesFile{achemso-nalefd.cfg}
2174 [2019-02-14 v3.12a achemso configuration: Nano Lett.]
2175 \setkeys{acs}{keywords = true}
2176 \def\acs@type@default{letter}
2177 \def\acs@type@list{letter}
2178 \SectionNumbersOff
2179 
```

/nalefd

```
2180 (*orlef7)
2181 \ProvidesFile{achemso-orlef7.cfg}
2182 [2019-02-14 v3.12a achemso configuration: Org. Lett.]
2183 \def\acs@type@default{communication}
2184 \def\acs@type@list{communication}
2185 \SectionNumbersOff
2186 \setkeys{acs}{layout = twocolumn}
2187 \RequirePackage{xcolor}
2188 \definecolor{orglett}{RGB}{128,0,0}
2189 
```

/orlef7

```
2190 (*oprdfk)
2191 \ProvidesFile{achemso-oprdfk.cfg}
```

```

2192 [2019-02-14 v3.12a achemso configuration: Org. Proc. Res. Dev.]
2193 \def\acs@type@list{article,highlight,review,suppinfo}
2194 \SectionNumbersOff
2195 ⟨/oprdfk⟩
2196 ⟨*orgnd7⟩
2197 \ProvidesFile{achemso-orgnd7.cfg}
2198 [2019-02-14 v3.12a achemso configuration: Organometallics]
2199 \SectionNumbersOff
2200 ⟨/orgnd7⟩

```

## 9 Change History

v1.0	General: Initial release of package by Mats Dahlgren ..... 1	v3.10h	General: Add style for ACS <i>Biomater. Sci. Eng.</i> ..... 1 Add style for ACS <i>Earth Space Chem.</i> ..... 1 Add style for ACS <i>Infect. Dis.</i> ..... 1 Add style for ACS <i>Sensors</i> ..... 1 Style update for <i>J. Chem. Theory Comput.</i> ..... 1 Update supplementary information text ..... 1
v2.0	General: Re-write of package by Joseph Wright ..... 1	v3.10i	General: Fix issue with \doi command ..... 1 Style update for <i>Biochemistry</i> ..... 1 Updates for <i>Org. Lett.</i> ..... 1
v3.0	General: ..... 1	v3.11	General: Print article titles for all journals ..... 1
v3.1	General: ..... 1 Added \alsoaffiliation macro ..... 1	v3.11a	\acs@tocentry@text: Print abstract at full size ..... 37
v3.10	General: Add starred (subs)sections to TOC ..... 1 Update address printing to reflect new ACS style ..... 1	v3.11b	General: Correct handling of and others in bibliography ..... 1
v3.10a	General: Add article titles for <i>Chem. Mater.</i> and <i>Chem. Rev.</i> ..... 1	v3.11c	General: Further work on bibliography ..... 1
v3.10b	\acs@tocentry@text: Define \acs@tocentry@text in all cases ..... 37	v3.12a	General: <i>J. Am. Chem. Soc.</i> now requires titles ..... 54
v3.10c	General: Add support for ACS <i>Omega</i> and <i>ACS Energy Lett.</i> ..... 1	v3.2	General: ..... 1 New tocentry section ..... 1
v3.10d	General: Improve handling of doi values ..... 1	v3.2b	General: New email option ..... 1
v3.10e	General: Tweak <i>Macromolecules</i> formatting ..... 1	v3.2c	General: Added \fax macro ..... 1
v3.10f	General: Various formatting updates ..... 1		

	Added \phone macro . . . . .	<a href="#">1</a>	v3.8d
	Fix so that email option is turned on by default . . . . .	<a href="#">1</a>	General: Fix bug in keyword printing . . . . . <a href="#">1</a>
v3.3	General: \altaffiliation macro checks for duplicate entries and uses only one footnote . . . . .	<a href="#">1</a>	v3.8e
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