

biblatex-chem – A set of **biblatex** implementations of chemistry-related bibliography styles*

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Released 2016/02/26

Abstract

The **biblatex-chem** bundle is a set of styles for creating bibliographies using **biblatex** in the style of a number common chemistry journals. The bundle comprises styles based on the conventions of the Royal Society of Chemistry, American Chemical Society and *Angewandte Chemie*. It therefore covers the journal styles of, for example:

- *Angewandte Chemie*
- *Biochemistry*
- *Chemical Communications*
- *Chemistry – A European Journal*
- *Dalton Transactions*
- *Journal of the American Chemical Society*
- *Organic & Biomolecular Chemistry*

amongst others.

1 Introduction

The **biblatex** package introduces a completely new method for controlling the creation of bibliographies using **BIB_TE_X**. This makes a great deal of flexibility available when creating bibliographies, most of which is much more difficult with traditional **BIB_TE_X** styles.

In order to use **biblatex**, an entirely new set of appropriate supporting styles are needed. This bundle provides a number of styles for chemistry, following the rules of some of the most important journals in the field.

2 The styles

The bundle currently contains four **biblatex** style files, each of which has its own demonstration document:

- The **chem-acs** style, which covers most American Chemistry Society journals.

*This file describes v1.1n, last revised 2016/02/26.

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- The **chem-angew** style, which covers *Angewandte Chemie Chemistry – A European Journal*.
- The **chem-biochem** style, which covers *Biochemistry* and a small number of other American Chemistry Society journals.
- The **chem-rsc** style, which covers all Royal Society of Chemistry journals.

The four styles can be used to follow the current layout rules of all of the journals currently published by the American Chemical Society and the Royal Society of Chemistry, plus the journals published by Wiley which use the *Angewandte Chemie* format.

The styles use the standard **biblatex** database requirements. This means that a database designed for traditional **biblatex** use may need some editing for optimal output. The accompanying example database **biblatex-chem.bib** shows examples of all of the supported entry types with common fields filled in.

3 Style options

All of the styles here add a small number of package options to the standard set provided by **biblatex**. This allows the styles to cover the variations seen between different journals without needing a very large number of files: the American Chemical Society in particular varies the exact details between journals.

doi	The standard style options doi , eprint isbn and eprint , as described in the biblatex manual. However, these options are turned off as standard by the styles in the biblatex-chem bundle. This reflects the fact that these entries may be present in reference databases but are not generally included in published bibliographies. Note that DOI values are printed for journal articles with no pages given, even if the doi option is false
eprint	
isbn	
url	
subentry	In common with the standard biblatex numeric styles, all of the styles in the bundle support the boolean subentry option. With this set true , entries of type set are given individual labels within the bibliography.
articletitle	The use of article titles varies between individual journals. The boolean option articletitle is available to control this behaviour. The standard settings for the chem-acs , chem-angew and chem-rsc styles have this option turned off, while the chem-biochem sets this option true .
biblabel	The format of the numbers used in the bibliography (the “bibliography label”) varies from journal to journal even if the same general style is used. The biblabel option allows the user to easily set the format used. This option takes a value from the list: parens , brackets , plain and dot .
chaptertitle	The option boolean chaptertitle option is provided to allow flexibility for the inclusion of chapter titles for inbook and incollection entries. The standard setting is false for all styles in the bundle.
pageranges	The use of full page ranges varies between journals and indeed between different papers in individual journals. The pageranges boolean option is available to turn on and off printing of full page ranges, thus allowing printing of only the first page even when the database contains the full page range. This option is set true as standard.

4 Related entries

References to related literature can be handled automatically by the Biber back-end. This is particularly useful for references to *Angewandte Chemie*, which should be given both to the German and English editions of the journal. The example database shows this in action, with a paper in the German version linked to one in the English edition (see the entry `Dehnicke1981`).

5 New styles

The current set of styles here is intended to form a strong base for chemists. However, there will be the need for other styles to be created. The package author welcomes suggestions for other styles for inclusion. It would also be good to keep all chemistry-related `biblatex` styles in one bundle. Others working on chemistry styles for `biblatex` are welcome to send them to the bundle maintainer so they can be incorporated here.

6 Errors and omissions

Suggestions for improvement and bug reports can be logged in the package issue database, found at <https://bitbucket.org/josephwright/biblatex-chem/issues>, or can be sent by e-mail to `joseph.wright@morningstar2.co.uk`.

Change History

v1.0		v1.1a	
General: First stable release	3	General: Reintroduce <code>chaptertitle</code> option for <code>chem-angew</code> and <code>chem-rsc</code> styles	3
v1.0a		Turn off standard <code>eprint</code> and <code>isbn</code> options by default	3
General: Format “ <i>et al.</i> ” in italics when using <code>chem-rsc</code> style	3	Turn off standard <code>url</code> option by default	3
v1.0b		v1.1b	
General: Require <code>biblatex</code> v1.1	3	General: Further documentation improvements	3
Use new <code>maxbibnames</code> option such that bibliographies print all authors but citations use truncated lists when necessary	3	Re-introduce the <code>biblabel</code> option	3
v1.0c		v1.1c	
General: Add version history for stable releases	3	General: Correct bug in entries with no date in <code>chem-acs</code> and <code>chem-acs</code> styles	3
v1.0d		v1.1d	
General: Corrections for formatting of optionally-included article and chapter titles	3	General: Fix a few log warnings: no change to output	3
Include additional punctuation tracker corrections for non-English bibliographies	3	v1.1e	
v1.1		General: Print edition only once for <code>manual</code> entries in <code>chem-angew</code> and <code>chem-rsc</code> styles	3
General: Styles revised to work with <code>biblatex</code> v1.6	3		

v1.1f		related information if available	3
	General: Correct formatting of	v1.1k	
	report entries in chem-ac s style	General: Fix error in name format-	
v1.1g		ting with biochem style	3
	General: Fix issue with inbook en-	v1.1l	
	tries which lack distinct author	General: Fix extraneous comma in	
	and bookauthor	author list with rsc style	3
v1.1h		v1.1m	
	General: Fix appearance of author	General: Move position of edition	
	names in text when exactly two	for book records in angew style	3
	authors are given	v1.1n	
v1.1i		General: Improved approach to re-	
	General: Correct treatment of pre-	moving commas from journal ti-	
	fixes with acs style	ties in <i>Angew. Chem.</i> style	3
v1.1j		Use <code>\mkbibitalic</code> not	
	General: Update styles to use	<code>\mkbibemph</code> in styles	3