

**Results of the Pilot Study for a Research Rating in Chemistry:
Tables**

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Preface

This document summarizes the results of the pilot study for a research rating of chemical research at German universities and public research organizations. The complete results and further explanations on procedure, method and database have been published in the report “Forschungsleistungen deutscher Universitäten und außeruniversitärer Forschungseinrichtungen in der Chemie. Ergebnisse der Pilotstudie Forschungsrating” which can be accessed at www.wissenschaftsrat.de/pilot_start.htm.

Summary¹

The German Science and Humanities Council has assigned a steering group to conduct a pilot study for a research rating, assessing the German research performance in chemistry and sociology. The procedure tested in this pilot study was initially recommended by the Science Council in 2004.²

In the course of the pilot study in chemistry, the research performance of 77 universities and non-university institutions was assessed through an “informed peer review”. The results of this assessment process are not simply generated from quantitative data, but convey the judgement of an expert group, based on various quantitative as well as qualitative indicators supplemented by background information on each institution. This approach constitutes the methodological strength of the pilot study, its ability to adequately appreciate innovative and highly specialized accomplishments which may not be reflected in bibliometric data alone. The review covers three different dimensions: research, promotion of young researchers, and knowledge transfer. These dimensions were further structured by six assessment criteria, which were evaluated independently: research quality, impact, efficiency, promotion of young researchers, knowledge transfer, and public understanding of science. Chapter A.II. of the complete report contains a detailed account of the data assigned to the respective criteria. Specific methodological issues brought up by the pilot study concerning the individual criteria are also discussed in this context. Altogether, the assessment of the criteria research quality and impact is the most substantial due to the validity of the underlying data.

The grades according to individual criteria are not added up to an overall score, nor are they transformed into a ranking. Instead, the chosen assessment mode makes it possible to obtain a differentiated profile for each institution, displaying the strengths and weaknesses of each institution’s performance in separate dimensions of research achievement. Thus, the institution’s individual profile, as shown in the annex of the complete report, must always be interpreted with each institution’s specific mission in mind.

¹ Complete report: „Forschungsleistungen deutscher Universitäten und außeruniversitärer Forschungseinrichtungen in der Chemie. Ergebnisse der Pilotstudie Forschungsrating“, Steuerungsgruppe Pilotstudie Forschungsrating im Auftrag des Wissenschaftsrats, Berlin, 18.12.2007.

² Wissenschaftsrat: Empfehlungen zu Rankings im Wissenschaftssystem. Teil 1: Forschung. in: Empfehlungen und Stellungnahmen 2004, Köln 2005, S. 159-220.

Due to a resolution of the steering group, the assessment according to the criterion research quality differentiates between single “research units”. The individual units have been defined by the universities and non-university-institutions themselves. Owing to the procedure’s novelty, not all of the emerging questions in this context could be bindingly regulated in advance. If difficulties in the definition of research units have had an influence on the assessment, this is disclosed in commentaries added individually to each institution’s results overview.

When interpreting the research rating’s results the study’s pilot character must be considered. Still, the comprehensive database as well as the chosen assessment procedure of “informed peer review” have great advantages compared to alternative modes, such as an indicator-based analysis or a ranking based purely on a reputational survey. Therefore it can be concluded, that the pilot study in chemistry allows a profound and differentiated insight into the performance of chemical research in Germany.

As the study shows, the research institutions in German chemistry, including both universities and non-university institutions, perform well and convey a well-balanced profile. A broad basis of good and very good research is available, constituting the vital basis of excellent research. Many institutions can be labelled “excellent” according to individual assessment criteria. The accomplishments of German chemistry in the promotion of young researchers must be particularly emphasized. These accomplishments should not only be preserved but further expanded. Knowledge transfer in chemistry often depends on the institution’s individual mission: application-oriented institutions reveal their strength in this area. Finally, it must be pointed out that publications by chemistry researchers from Germany show a very high impact even in international comparison. Existing international rankings do not adequately display this strength, due to their focus on universities alone, neglecting the strong non-university research.

German chemistry’s research performance could be further increased if some smaller institutions would develop more pronounced research profiles. Some institutions have already excellently managed this task, and their success shows that the development of an individual research profile can be implemented while maintaining a broad teaching base. Surely, an increase in institutionally funded staff would facili-

tate this process. In order to develop an individual profile, the institutions should be able to correctly assess and expand their strengths. In this regard, the tendency to increase the universities' autonomy implies both risk and chance: the institutions must use their growing independence effectively. Therefore, reliable data as a basis of decisionmaking are vital. While some universities as well as most non-university institutions already possess such data, many other universities face considerable need for improvement. While it is recommended that individual institutions should develop independent research profiles, this does not imply that German research in chemistry should be more specialized as a whole. On the contrary, the wide base of research must be maintained, to ensure that competent to excellent researchers continue to be found in the most diverse subfields of chemistry. This is a notable strength of German chemistry research.

The allocation of national resources should not be directly linked to a selective assessment. In the opinion of the expert group, the study's use would increase substantially by repeating the research assessment in a few years, thereby clearly documenting trends. This would deliver an appropriate basis for far reaching decisions.

Annotations

Each institution was assessed by six criteria, shown in the individual columns of the attached tables. With one exception, the assessment was performed on a five-step scale: excellent – very good – good – satisfactory – unsatisfactory.

Each assessment is based on the institution's accomplishments of the years 2001 to 2005. Further explanation of the database can be found in the complete report of the pilot study's steering group.

The tables display the results in six different arrangements. The first table is arranged alphabetically by the institution's location, universities first, followed by non-university institutions, grouped by their respective supporting organization. The following tables are – with the exception of the criterion research quality – arranged according to the different criteria of the research rating. Institutions with identical scores in respective criteria are grouped and sorted alphabetically. Since the criterion research quality was assessed on the level of research units and not on the level of institutions, the results are not sorted by this criterion.

Research quality

Originality and scientific relevance of research performance, as well as adequacy of methods.

The assessment of research quality took place on the level of "research units", usually departments or research centres of the institution. The tables depict the range from the lowest to the highest assigned score and the total number of research units of each institution. Further information on the variance of the research units is indicated in the complete report "Forschungsleistungen deutscher Universitäten und außeruniversitärer Einrichtungen in der Chemie".

Research quality is defined as not size-dependent, i.e., even small units may achieve high grades for their performance in research quality.

Impact

Contribution to the development of science, within the field of chemistry and beyond.

The assessment of this criterion is based on absolute indicators of scientific impact, which usually increase corresponding with the number of researchers responsible for the overall performance. Therefore, larger institutions are more likely to perform well by this criterion.

Efficiency

Contribution to the development of science, within the field of chemistry and beyond, related to the employment of staff.

For the assessment of efficiency, the indicators applied for the criterion “impact” are divided by the number of scientific staff (f.t.e.) in order to compare which institutions achieve a particularly high impact in relation to available resources. The opportunity to perform well by this criterion is independent of an institution’s size.

Promotion of young researchers

Measures and accomplishments in the promotion of young researchers.

This criterion refers to the promotion of young researchers after their doctoral studies, it does not refer to basic teaching. Due to the available data, mainly academic careers of young researchers are considered.

Knowledge Transfer

Contributions to the implementation of research results in industry, politics, administration, organizations etc. through application and consultation.

In the field of chemistry this criterion mainly refers to the industrial implementation of research results, as reflected in industry projects, spin offs and consultation activities.

Public understanding of science

Communication of research based information to non-professionals, to organizations without own research activity and to the wider public.

Due to the lack of quantitative data and the fact that the institutions' statements were more difficult to compare, the activities in this area were merely distinguished into three groups: "average", "above average", and "below average".

Results of the pilot study for a research rating in chemistry

Institution		Research quality (range and number of research units)	Impact	Efficiency	Promotion of young researchers	Knowledge transfer	Public understanding of science
Technische Hochschule Aachen	●●● - ●●●●●	6 RU	●●●●●	●●●●●	●●●●●	●●●●●	+
Universität Bayreuth	●● - ●●●●●	5 RU	●●●	●●●●●	●●●●●	●●●	∅
Freie Universität Berlin	●●● - ●●●●●	5 RU	●●●●●	●●●●●	●●●●●	●●●	∅
Humboldt-Universität Berlin	●● - ●●●●●	4 RU	●●●	●●●	●●	●●	-
Technische Universität Berlin	●● - ●●●●●	6 RU	●●●●●	●●●●●	●●●●●	●●●	∅
Universität Bielefeld	●●● - ●●●●●	5 RU	●●●	●●	●●●	●●	+
Universität Bochum	●●● - ●●●●●	3 RU	●●●●●	●●●●●	●●●●●	●●●	+
Universität Bonn	●● - ●●●●●	3 RU					
Technische Universität Braunschweig	● - ●●●	7 RU	●●●	●●●	●●●	●●	∅
Universität Bremen	●● - ●●●	5 RU	●●	●●●	●●●	●●	-
International University Bremen	●● - ●●●●●	6 RU	●●	●●●	●●●	●●	-
Technische Universität Chemnitz	● - ●●	5 RU	●●	●●●	●●	●●	∅
Technische Universität Clausthal	● - ●●●	4 RU	●●	●●	●●●	●●	-
Technische Universität Darmstadt	●● - ●●●●●	7 RU	●●●	●●●●●	●●●	●●●●●	+
Universität Dortmund	●●● - ●●●●●	4 RU	●●●	●●●	●●●●●	●●●	-
Technische Universität Dresden	● - ●●●	8 RU	●●●	●●	●●●	●●	-
Universität Duisburg-Essen	●● - ●●●	6 RU	●●●	●●	●●●	●●●	∅
Universität Düsseldorf	● - ●●●●●	9 RU	●●●	●●	●●●	●●●	-
Universität Erlangen-Nürnberg	●●● - ●●●●●	7 RU	●●●●●	●●●●●	●●●●●	●●●●●	∅
Universität Frankfurt a.M.	●●● - ●●●●●	6 RU	●●●●●	●●●	●●●●●	●●●●●	+
Technische Universität Freiberg	● - ●●	2 RU	●●	●●	●●	●●	-
Universität Freiburg	●● - ●●●●●	9 RU	●●●●●	●●	●●●●●	●●●●●	∅
Universität Gießen	●●●	4 RU	●●●	●●	●●●	●●	∅
Universität Göttingen	●●●●● - ●●●●●	3 RU	●●●●●	●●●●●	●●●●●	●●●●●	+
Universität Greifswald	●●●	1 RU	●●	●●●●●	●●	●●	∅
Universität Halle-Wittenberg	● - ●●●●●	5 RU	●●●	●●●	●●●	●●	-
Universität Hamburg	●●● - ●●●●●	9 RU	●●●●●	●●●	●●●●●	●●●●●	∅
Universität Hannover	●● - ●●●	5 RU	●●●	●●●	●●●	●●●●●	∅
Universität Heidelberg	●●●●● - ●●●●●	4 RU	●●●●●	●●●	●●●●●	●●●	∅
Universität Hohenheim	● - ●●	2 RU	●	●	●	●	-
Universität Jena	●● - ●●●	5 RU	●●●	●●	●●	●●●●●	∅
Technische Universität Kaiserslautern	●●● - ●●●●●	3 RU	●●	●●●	●●●	●●●	∅

Results of the pilot study for a research rating in chemistry

Institution	Research quality (range and number of research units)	Impact	Efficiency	Promotion of young researchers	Knowledge transfer	Public understanding of science	
Universität Karlsruhe	●●● - ●●●●●	6 RU	●●●●		●●●●	●●●	+
Universität zu Kiel	●● - ●●●	5 RU	●●●	●●●	●●	●	∅
Universität Köln	●● - ●●●●	5 RU	●●●	●●●	●●●●	●●●●	+
Deutsche Sporthochschule Köln	●●	1 RU	●	●●	●	●●●●	+
Universität Konstanz	●●● - ●●●●	2 RU	●●●	●●●	●●●●	●●●	∅
Universität Leipzig	●● - ●●●	4 RU	●●●	●●●●	●●●●	●●●	∅
Universität Magdeburg	● - ●●●	3 RU	●●	●●	●●	●●	∅
Universität Mainz	●●● - ●●●●●	5 RU	●●●●	●●●	●●●●	●●	+
Universität Marburg	●● - ●●●●	7 RU	●●●●	●●●●	●●●●	●●●	∅
Universität München	●●●● - ●●●●●	4 RU	●●●●	●●●●	●●●●	●●●●	∅
Technische Universität München	●● - ●●●●●	10 RU	●●●●●	●●●●	●●●●●	●●●●●	+
Universität Münster	● - ●●●●	6 RU	●●●●	●●●	●●●●	●●●	-
Universität Oldenburg	● - ●●●	6 RU	●●	●●●	●●●	●●	-
Universität Osnabrück	● - ●●	5 RU	●	●●	●	●	-
Universität Paderborn	● - ●●	4 RU	●●	●●	●●	●●	∅
Universität Potsdam	● - ●●●●	3 RU	●●	●●●	●●●	●●●	∅
Universität Regensburg	●● - ●●●●	5 RU	●●●	●●●●	●●●●	●●●	+
Universität Rostock	● - ●●●●	4 RU	●●	●●	●●	●●	∅
Universität des Saarlandes	●● - ●●●	6 RU	●●●	●●●●	●●	●●●●	∅
Universität Siegen	● - ●●●	6 RU	●●	●●●	●●	●●●	-
Universität Stuttgart	●● - ●●●●●	11 RU	●●●●●	●●●●	●●●●●	●●●●●	+
Universität Tübingen	●● - ●●●	4 RU	●●●●	●●●●	●●●●	●●●●	+
Universität Ulm	●●● - ●●●●	3 RU	●●●	●●●●	●●●	●●●●	∅
Universität Wuppertal	●● - ●●●	3 RU	●●●	●●●	●●	●●●	∅
Universität Würzburg	●● - ●●●●	6 RU	●●●	●●●●	●●●●	●●●	∅
Fraunhofer-Institut für angewandte Polymerforschung	● - ●●●●	4 RU	●●●			●●●●	-
Fraunhofer-Institut Chemische Technologie	● - ●●●	3 RU	●●●	●●●		●●●●	∅
Fraunhofer-Institut für Silicatiforschung	●● - ●●●●	4 RU	●●●	●●●		●●●●●	-
GKSS - Institut für Polymerforschung	●●●	1 RU	●●	●	●●	●●●●	-
Forschungszentrum Karlsruhe	●● - ●●●●	7 RU					

Results of the pilot study for a research rating in chemistry

Institution		Research quality (range and number of research units)	Impact	Efficiency	Promotion of young researchers	Knowledge transfer	Public understanding of science
Fritz-Haber-Institut der MPG	●●●● - ●●●●●	5 RU	●●●●●	●●●	●●●●●	●●●	-
Max-Planck-Institut für bioanorganische Chemie	●●●●	1 RU	●●●	●●●●	●●	●	-
Max-Planck-Institut für biophysikalische Chemie	●●● - ●●●●●	5 RU	●●●●●	●●●	●●●●	●●●●	∅
Max-Planck-Institut für chemische Ökologie	●● - ●●●●●	3 RU	●●●		●●●	●●	∅
Max-Planck-Institut für chemische Physik fester Stoffe	●●●	1 RU	●●●	●●	●●	●●●	∅
Max-Planck-Institut für Festkörperforschung	●●● - ●●●●●	4 RU	●●●	●●	●●●●	●●	∅
Max-Planck-Institut für Kohlenforschung	●●●●●	1 RU	●●●●●	●●●●●	●●●●●	●●●●●	∅
Max-Planck-Institut für Kolloid- und Grenzflächenforschung	●●●●●	2 RU	●●●●	●●●●●	●●●●	●●●●	∅
Max-Planck-Institut für Polymerforschung	●●●●● - ●●●●●	2 RU	●●●●●	●●●	●●●●●	●●●●	∅
Institut for Analytical Sciences	●●● - ●●●●●	2 RU	●●●●	●●	●●	●●●	-
Leibniz-Institut für Katalyse e.V.	●●● - ●●●●●	8 RU	●●●●	●●●●	●●●	●●●●	∅
Leibniz-Institut für Neue Materialien	●● - ●●●	3 RU	●●●	●●●	●●	●●●●●	-
Leibniz-Institut für Polymerforschung Dresden	●●● - ●●●●	4 RU	●●●●	●●	●●●	●●●●	+
Leibniz-Institut für Pflanzenbiochemie	●●●	1 RU	●●●	●●●	●●	●●	∅
Forschungszentrum Rossendorf	●●●	1 RU	●●	●●	●●	●●●	∅

Legend	
●●●●●	5 excellent
●●●●●	4,5 very good to excellent
●●●●	4 very good
●●●	3 good
●●	2 satisfactory
●	1 unsatisfactory
+	above average
∅	average
-	below average
	not rateable
RU	research units

Results of the pilot study for a research rating in chemistry

Institution		Research quality (range and number of research units)		Impact	Efficiency	Promotion of young researchers	Knowledge transfer	Public understanding of science
Technische Hochschule Aachen	●●● - ●●●●●	6 RU	●●●●●	●●●●	●●●●●	●●●●	●●●●	+
Universität Erlangen-Nürnberg	●●● - ●●●●●	7 RU	●●●●●	●●●●●	●●●●	●●●●	●●●●	∅
Universität Heidelberg	●●●● - ●●●●●	4 RU	●●●●●	●●●	●●●●●	●●●	●●●	∅
Technische Universität München	●● - ●●●●●	10 RU	●●●●●	●●●●	●●●●●	●●●●●	●●●●●	+
Universität Stuttgart	●● - ●●●●●	11 RU	●●●●●	●●●●	●●●●●	●●●●●	●●●●●	+
Fritz-Haber-Institut der MPG	●●●● - ●●●●●	5 RU	●●●●●	●●●	●●●●●	●●●	●●●	-
Max-Planck-Institut für biophysikalische Chemie	●●● - ●●●●●	5 RU	●●●●●	●●●	●●●●	●●●●	●●●●	∅
Max-Planck-Institut für Kohlenforschung	●●●●●	1 RU	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	∅
Max-Planck-Institut für Polymerforschung	●●●●● - ●●●●●	2 RU	●●●●●	●●●	●●●●●	●●●●	●●●●	∅
Freie Universität Berlin	●●● - ●●●●	5 RU	●●●●	●●●●●	●●●●●	●●●	●●●	∅
Technische Universität Berlin	●● - ●●●●●	6 RU	●●●●	●●●●	●●●●	●●●	●●●	∅
Universität Bochum	●●● - ●●●●●	3 RU	●●●●	●●●●	●●●●	●●●	●●●	+
Universität Frankfurt a.M.	●●● - ●●●●	6 RU	●●●●	●●●	●●●●●	●●●●	●●●●	+
Universität Freiburg	●● - ●●●●●	9 RU	●●●●	●●	●●●●	●●●●	●●●●	∅
Universität Göttingen	●●●●● - ●●●●●	3 RU	●●●●	●●●●	●●●●	●●●●	●●●●	+
Universität Hamburg	●●● - ●●●●●	9 RU	●●●●	●●●	●●●●	●●●●	●●●●	∅
Universität Karlsruhe	●●● - ●●●●●	6 RU	●●●●		●●●●	●●●	●●●	+
Universität Mainz	●●● - ●●●●●	5 RU	●●●●	●●●	●●●●	●●	●●	+
Universität Marburg	●● - ●●●●	7 RU	●●●●	●●●●	●●●●	●●●	●●●	∅
Universität München	●●●● - ●●●●●	4 RU	●●●●	●●●●	●●●●	●●●●	●●●●	∅
Universität Münster	● - ●●●●	6 RU	●●●●	●●●	●●●●	●●●	●●●	-
Universität Tübingen	●● - ●●●	4 RU	●●●●	●●●●	●●●●	●●●●	●●●●	+
Max-Planck-Institut für Kolloid- und Grenzflächenforschung	●●●●●	2 RU	●●●●	●●●●●	●●●●	●●●●	●●●●	∅
Institut for Analytical Sciences	●●● - ●●●●	2 RU	●●●●	●●	●●	●●●	●●●	-
Leibniz-Institut für Katalyse e.V.	●●● - ●●●●●	8 RU	●●●●	●●●●	●●●	●●●●	●●●●	∅
Leibniz-Institut für Polymerforschung Dresden	●●● - ●●●●	4 RU	●●●●	●●	●●●	●●●●	●●●●	+
Universität Bayreuth	●● - ●●●●●	5 RU	●●●	●●●●	●●●●	●●●	●●●	∅
Humboldt-Universität Berlin	●● - ●●●●●	4 RU	●●●	●●●	●●	●●	●●	-
Universität Bielefeld	●●● - ●●●●●	5 RU	●●●	●●	●●●	●●	●●	+
Technische Universität Braunschweig	● - ●●●	7 RU	●●●	●●●	●●●	●●	●●	∅
Technische Universität Darmstadt	●● - ●●●●	7 RU	●●●	●●●●	●●●	●●●●	●●●●	+
Universität Dortmund	●●● - ●●●●	4 RU	●●●	●●●	●●●●	●●●	●●●	-

Results of the pilot study for a research rating in chemistry

Institution	Research quality (range and number of research units)	Impact	Efficiency	Promotion of young researchers	Knowledge transfer	Public understanding of science	
Technische Universität Dresden	● - ●●●	8 RU	●●●	●●	●●●	●●	-
Universität Duisburg-Essen	●● - ●●●	6 RU	●●●	●●	●●●	●●●	∅
Universität Düsseldorf	● - ●●●●	9 RU	●●●	●●	●●●	●●●	-
Universität Gießen	●●●	4 RU	●●●	●●	●●●	●●	∅
Universität Halle-Wittenberg	● - ●●●●	5 RU	●●●	●●●	●●●	●●	-
Universität Hannover	●● - ●●●	5 RU	●●●	●●●	●●●	●●●●	∅
Universität Jena	●● - ●●●	5 RU	●●●	●●	●●	●●●●	∅
Universität zu Kiel	●● - ●●●	5 RU	●●●	●●●	●●	●	∅
Universität Köln	●● - ●●●●	5 RU	●●●	●●●	●●●●	●●●●	+
Universität Konstanz	●●● - ●●●●	2 RU	●●●	●●●	●●●●	●●●	∅
Universität Leipzig	●● - ●●●	4 RU	●●●	●●●●	●●●●	●●●	∅
Universität Regensburg	●● - ●●●●	5 RU	●●●	●●●●	●●●●	●●●	+
Universität des Saarlandes	●● - ●●●	6 RU	●●●	●●●●●	●●	●●●●	∅
Universität Ulm	●●● - ●●●●	3 RU	●●●	●●●●	●●●	●●●●	∅
Universität Wuppertal	●● - ●●●	3 RU	●●●	●●●	●●	●●●	∅
Universität Würzburg	●● - ●●●●	6 RU	●●●	●●●●	●●●●	●●●	∅
Fraunhofer-Institut für angewandte Polymerforschung	● - ●●●●	4 RU	●●●			●●●●	-
Fraunhofer-Institut Chemische Technologie	● - ●●●	3 RU	●●●	●●●		●●●●	∅
Fraunhofer-Institut für Silicatforschung	●● - ●●●●	4 RU	●●●	●●●		●●●●●	-
Max-Planck-Institut für bioanorganische Chemie	●●●●	1 RU	●●●	●●●●	●●	●	-
Max-Planck-Institut für chemische Ökologie	●● - ●●●●●	3 RU	●●●		●●●	●●	∅
Max-Planck-Institut für chemische Physik fester Stoffe	●●●	1 RU	●●●	●●	●●	●●●	∅
Max-Planck-Institut für Festkörperforschung	●●● - ●●●●●	4 RU	●●●	●●	●●●●	●●	∅
Leibniz-Institut für Neue Materialien	●● - ●●●	3 RU	●●●	●●●	●●	●●●●●	-
Leibniz-Institut für Pflanzenbiochemie	●●●	1 RU	●●●	●●●	●●	●●	∅
Universität Bremen	●● - ●●●	5 RU	●●	●●●	●●●	●●	-
International University Bremen	●● - ●●●●	6 RU	●●	●●●	●●●	●●	-
Technische Universität Chemnitz	● - ●●	5 RU	●●	●●●	●●	●●	∅
Technische Universität Clausthal	● - ●●●	4 RU	●●	●●	●●●	●●	-
Technische Universität Freiberg	● - ●●	2 RU	●●	●●	●●	●●	-

Results of the pilot study for a research rating in chemistry

Institution	Research quality (range and number of research units)	Impact	Efficiency	Promotion of young researchers	Knowledge transfer	Public understanding of science	
Universität Greifswald	●●●	1 RU	●●	●●●●	●●	●●	∅
Technische Universität Kaiserslautern	●●● - ●●●●	3 RU	●●	●●●	●●●	●●●	∅
Universität Magdeburg	● - ●●●	3 RU	●●	●●	●●	●●	∅
Universität Oldenburg	● - ●●●	6 RU	●●	●●●	●●●	●●	-
Universität Paderborn	● - ●●	4 RU	●●	●●	●●	●●	∅
Universität Potsdam	● - ●●●●	3 RU	●●	●●●	●●●	●●●	∅
Universität Rostock	● - ●●●●	4 RU	●●	●●	●●	●●	∅
Universität Siegen	● - ●●●	6 RU	●●	●●●	●●	●●●	-
GKSS - Institut für Polymerforschung	●●●	1 RU	●●	●	●●	●●●●	-
Forschungszentrum Rossendorf	●●●	1 RU	●●	●●	●●	●●●	∅
Universität Osnabrück	● - ●●	5 RU	●	●●	●	●	-
Universität Hohenheim	● - ●●	2 RU	●	●	●	●	-
Deutsche Sporthochschule Köln	●●	1 RU	●	●●	●	●●●●	+
Universität Bonn	●● - ●●●●	3 RU					
Forschungszentrum Karlsruhe	●● - ●●●●	7 RU					

Legend	
●●●●●	5 excellent
●●●●●	4,5 very good to excellent
●●●●	4 very good
●●●	3 good
●●	2 satisfactory
●	1 unsatisfactory
+	above average
∅	average
-	below average
	not rateable
RU	research units

Results of the pilot study for a research rating in chemistry

Institution		Research quality (range and number of research units)	Impact	Efficiency	Promotion of young researchers	Knowledge transfer	Public understanding of science
Freie Universität Berlin	●●● - ●●●●	5 RU	●●●●	●●●●●	●●●●●	●●●	∅
Universität Erlangen-Nürnberg	●●● - ●●●●●	7 RU	●●●●●	●●●●●	●●●●	●●●●	∅
Universität des Saarlandes	●● - ●●●	6 RU	●●●	●●●●●	●●	●●●●	∅
Max-Planck-Institut für Kohlenforschung	●●●●●	1 RU	●●●●●	●●●●●	●●●●●	●●●●●	∅
Max-Planck-Institut für Kolloid- und Grenzflächenforschung	●●●●●	2 RU	●●●●	●●●●●	●●●●	●●●●	∅
Technische Hochschule Aachen	●●● - ●●●●●	6 RU	●●●●●	●●●●	●●●●●	●●●●	+
Universität Bayreuth	●● - ●●●●●	5 RU	●●●	●●●●	●●●●	●●●	∅
Technische Universität Berlin	●● - ●●●●●	6 RU	●●●●	●●●●	●●●●	●●●	∅
Universität Bochum	●●● - ●●●●●	3 RU	●●●●	●●●●	●●●●	●●●	+
Technische Universität Darmstadt	●● - ●●●●	7 RU	●●●	●●●●	●●●	●●●●	+
Universität Göttingen	●●●●● - ●●●●●	3 RU	●●●●	●●●●	●●●●	●●●●	+
Universität Greifswald	●●●	1 RU	●●	●●●●	●●	●●	∅
Universität Leipzig	●● - ●●●	4 RU	●●●	●●●●	●●●●	●●●	∅
Universität Marburg	●● - ●●●●	7 RU	●●●●	●●●●	●●●●	●●●	∅
Universität München	●●●● - ●●●●●	4 RU	●●●●	●●●●	●●●●	●●●●	∅
Technische Universität München	●● - ●●●●●	10 RU	●●●●●	●●●●	●●●●●	●●●●●	+
Universität Regensburg	●● - ●●●●	5 RU	●●●	●●●●	●●●●	●●●	+
Universität Stuttgart	●● - ●●●●●	11 RU	●●●●●	●●●●	●●●●●	●●●●●	+
Universität Tübingen	●● - ●●●	4 RU	●●●●	●●●●	●●●●	●●●●	+
Universität Ulm	●●● - ●●●●	3 RU	●●●	●●●●	●●●	●●●●	∅
Universität Würzburg	●● - ●●●●	6 RU	●●●	●●●●	●●●●	●●●	∅
Max-Planck-Institut für bioanorganische Chemie	●●●●	1 RU	●●●	●●●●	●●	●	-
Leibniz-Institut für Katalyse e.V.	●●● - ●●●●●	8 RU	●●●●	●●●●	●●●	●●●●	∅
Humboldt-Universität Berlin	●● - ●●●●●	4 RU	●●●	●●●	●●	●●	-
Technische Universität Braunschweig	● - ●●●	7 RU	●●●	●●●	●●●	●●	∅
Universität Bremen	●● - ●●●	5 RU	●●	●●●	●●●	●●	-
International University Bremen	●● - ●●●●	6 RU	●●	●●●	●●●	●●	-
Technische Universität Chemnitz	● - ●●	5 RU	●●	●●●	●●	●●	∅
Universität Dortmund	●●● - ●●●●	4 RU	●●●	●●●	●●●●	●●●	-
Universität Frankfurt a.M.	●●● - ●●●●	6 RU	●●●●	●●●	●●●●●	●●●●	+
Universität Halle-Wittenberg	● - ●●●●	5 RU	●●●	●●●	●●●	●●	-
Universität Hamburg	●●● - ●●●●●	9 RU	●●●●	●●●	●●●●	●●●●	∅

Results of the pilot study for a research rating in chemistry

Institution		Research quality (range and number of research units)	Impact	Efficiency	Promotion of young researchers	Knowledge transfer	Public understanding of science
Universität Hannover	●● - ●●●	5 RU	●●●	●●●	●●●	●●●●	∅
Universität Heidelberg	●●●● - ●●●●●	4 RU	●●●●	●●●	●●●●	●●●	∅
Technische Universität Kaiserslautern	●●● - ●●●●	3 RU	●●	●●●	●●●	●●●	∅
Universität zu Kiel	●● - ●●●	5 RU	●●●	●●●	●●	●	∅
Universität Köln	●● - ●●●●	5 RU	●●●	●●●	●●●●	●●●●	+
Universität Konstanz	●●● - ●●●●	2 RU	●●●	●●●	●●●●	●●●	∅
Universität Mainz	●●● - ●●●●	5 RU	●●●●	●●●	●●●●	●●	+
Universität Münster	● - ●●●●	6 RU	●●●●	●●●	●●●●	●●●	-
Universität Oldenburg	● - ●●●	6 RU	●●	●●●	●●●	●●	-
Universität Potsdam	● - ●●●●	3 RU	●●	●●●	●●●	●●●	∅
Universität Siegen	● - ●●●	6 RU	●●	●●●	●●	●●●	-
Universität Wuppertal	●● - ●●●	3 RU	●●●	●●●	●●	●●●	∅
Fraunhofer-Institut Chemische Technologie	● - ●●●	3 RU	●●●	●●●		●●●●	∅
Fraunhofer-Institut für Silicatforschung	●● - ●●●●	4 RU	●●●	●●●		●●●●	-
Fritz-Haber-Institut der MPG	●●●● - ●●●●●	5 RU	●●●●	●●●	●●●●	●●●	-
Max-Planck-Institut für biophysikalische Chemie	●●● - ●●●●●	5 RU	●●●●	●●●	●●●●	●●●●	∅
Max-Planck-Institut für Polymerforschung	●●●● - ●●●●●	2 RU	●●●●	●●●	●●●●	●●●●	∅
Leibniz-Institut für Neue Materialien	●● - ●●●	3 RU	●●●	●●●	●●	●●●●	-
Leibniz-Institut für Pflanzenbiochemie	●●●	1 RU	●●●	●●●	●●	●●	∅
Universität Bielefeld	●●● - ●●●●	5 RU	●●●	●●	●●●	●●	+
Technische Universität Clausthal	● - ●●●	4 RU	●●	●●	●●●	●●	-
Technische Universität Dresden	● - ●●●	8 RU	●●●	●●	●●●	●●	-
Universität Duisburg-Essen	●● - ●●●	6 RU	●●●	●●	●●●	●●●	∅
Universität Düsseldorf	● - ●●●●	9 RU	●●●	●●	●●●	●●●	-
Technische Universität Freiberg	● - ●●	2 RU	●●	●●	●●	●●	-
Universität Freiburg	●● - ●●●●	9 RU	●●●●	●●	●●●●	●●●●	∅
Universität Gießen	●●●	4 RU	●●●	●●	●●●	●●	∅
Universität Jena	●● - ●●●	5 RU	●●●	●●	●●	●●●●	∅
Deutsche Sporthochschule Köln	●●	1 RU	●	●●	●	●●●●	+
Universität Magdeburg	● - ●●●	3 RU	●●	●●	●●	●●	∅

Results of the pilot study for a research rating in chemistry

Institution	Research quality (range and number of research units)	Impact	Efficiency	Promotion of young researchers	Knowledge transfer	Public understanding of science	
Universität Osnabrück	● - ●●	5 RU	●	●●	●	●	-
Universität Paderborn	● - ●●	4 RU	●●	●●	●●	●●	∅
Universität Rostock	● - ●●●●	4 RU	●●	●●	●●	●●	∅
Max-Planck-Institut für chemische Physik fester Stoffe	●●●	1 RU	●●●	●●	●●	●●●	∅
Max-Planck-Institut für Festkörperforschung	●●● - ●●●●●	4 RU	●●●	●●	●●●●	●●	∅
Institut for Analytical Sciences	●●● - ●●●●	2 RU	●●●●	●●	●●	●●●	-
Leibniz-Institut für Polymerforschung Dresden	●●● - ●●●●	4 RU	●●●●	●●	●●●	●●●●	+
Forschungszentrum Rossendorf	●●●	1 RU	●●	●●	●●	●●●	∅
Universität Hohenheim	● - ●●	2 RU	●	●	●	●	-
GKSS - Institut für Polymerforschung	●●●	1 RU	●●	●	●●	●●●●	-
Max-Planck-Institut für chemische Ökologie	●● - ●●●●●	3 RU	●●●		●●●	●●	∅
Universität Bonn	●● - ●●●●	3 RU					
Universität Karlsruhe	●●● - ●●●●●	6 RU	●●●●		●●●●	●●●	+
Fraunhofer-Institut für angewandte Polymerforschung	● - ●●●●	4 RU	●●●			●●●●	-
Forschungszentrum Karlsruhe	●● - ●●●●	7 RU					

Legend	
●●●●●	5 excellent
●●●●●	4,5 very good to excellent
●●●●	4 very good
●●●	3 good
●●	2 satisfactory
●	1 unsatisfactory
+	above average
∅	average
-	below average
	not rateable
RU	research units

Results of the pilot study for a research rating in chemistry

Institution		Research quality (range and number of research units)	Impact	Efficiency	Promotion of young researchers	Knowledge transfer	Public understanding of science
Technische Hochschule Aachen	●●● - ●●●●●	6 RU	●●●●●	●●●●●	●●●●●	●●●●●	+
Freie Universität Berlin	●●● - ●●●●●	5 RU	●●●●●	●●●●●	●●●●●	●●●	∅
Universität Frankfurt a.M.	●●● - ●●●●●	6 RU	●●●●●	●●●	●●●●●	●●●●●	+
Universität Heidelberg	●●●●● - ●●●●●●	4 RU	●●●●●	●●●	●●●●●	●●●	∅
Technische Universität München	●● - ●●●●●●	10 RU	●●●●●	●●●●●	●●●●●	●●●●●	+
Universität Stuttgart	●● - ●●●●●●	11 RU	●●●●●	●●●●●	●●●●●	●●●●●	+
Fritz-Haber-Institut der MPG	●●●●● - ●●●●●●	5 RU	●●●●●	●●●	●●●●●	●●●	-
Max-Planck-Institut für Kohlenforschung	●●●●●	1 RU	●●●●●	●●●●●	●●●●●	●●●●●	∅
Max-Planck-Institut für Polymerforschung	●●●●● - ●●●●●●	2 RU	●●●●●	●●●	●●●●●	●●●●●	∅
Universität Bayreuth	●● - ●●●●●●	5 RU	●●●	●●●●●	●●●●●	●●●	∅
Technische Universität Berlin	●● - ●●●●●●	6 RU	●●●●●	●●●●●	●●●●●	●●●	∅
Universität Bochum	●●● - ●●●●●●	3 RU	●●●●●	●●●●●	●●●●●	●●●	+
Universität Dortmund	●●● - ●●●●●	4 RU	●●●	●●●	●●●●●	●●●	-
Universität Erlangen-Nürnberg	●●● - ●●●●●●	7 RU	●●●●●	●●●●●	●●●●●	●●●●●	∅
Universität Freiburg	●● - ●●●●●●	9 RU	●●●●●	●●	●●●●●	●●●●●	∅
Universität Göttingen	●●●●● - ●●●●●●	3 RU	●●●●●	●●●●●	●●●●●	●●●●●	+
Universität Hamburg	●●● - ●●●●●●	9 RU	●●●●●	●●●	●●●●●	●●●●●	∅
Universität Karlsruhe	●●● - ●●●●●●	6 RU	●●●●●		●●●●●	●●●	+
Universität Köln	●● - ●●●●●●	5 RU	●●●	●●●	●●●●●	●●●●●	+
Universität Konstanz	●●● - ●●●●●	2 RU	●●●	●●●	●●●●●	●●●	∅
Universität Leipzig	●● - ●●●	4 RU	●●●	●●●●●	●●●●●	●●●	∅
Universität Mainz	●●● - ●●●●●●	5 RU	●●●●●	●●●	●●●●●	●●	+
Universität Marburg	●● - ●●●●●	7 RU	●●●●●	●●●●●	●●●●●	●●●	∅
Universität München	●●●●● - ●●●●●●	4 RU	●●●●●	●●●●●	●●●●●	●●●●●	∅
Universität Münster	● - ●●●●●	6 RU	●●●●●	●●●	●●●●●	●●●	-
Universität Regensburg	●● - ●●●●●	5 RU	●●●	●●●●●	●●●●●	●●●	+
Universität Tübingen	●● - ●●●	4 RU	●●●●●	●●●●●	●●●●●	●●●●●	+
Universität Würzburg	●● - ●●●●●	6 RU	●●●	●●●●●	●●●●●	●●●	∅
Max-Planck-Institut für biophysikalische Chemie	●●● - ●●●●●●	5 RU	●●●●●	●●●	●●●●●	●●●●●	∅
Max-Planck-Institut für Festkörperforschung	●●● - ●●●●●●	4 RU	●●●	●●	●●●●●	●●	∅
Max-Planck-Institut für Kolloid- und Grenzflächenforschung	●●●●●	2 RU	●●●●●	●●●●●	●●●●●	●●●●●	∅
Universität Bielefeld	●●● - ●●●●●●	5 RU	●●●	●●	●●●	●●	+

Results of the pilot study for a research rating in chemistry

Institution		Research quality (range and number of research units)	Impact	Efficiency	Promotion of young researchers	Knowledge transfer	Public understanding of science
Technische Universität Braunschweig	● - ●●●	7 RU	●●●	●●●	●●●	●●	∅
Universität Bremen	●● - ●●●	5 RU	●●	●●●	●●●	●●	-
International University Bremen	●● - ●●●●	6 RU	●●	●●●	●●●	●●	-
Technische Universität Clausthal	● - ●●●	4 RU	●●	●●	●●●	●●	-
Technische Universität Darmstadt	●● - ●●●●	7 RU	●●●	●●●●	●●●	●●●●	+
Technische Universität Dresden	● - ●●●	8 RU	●●●	●●	●●●	●●	-
Universität Duisburg-Essen	●● - ●●●	6 RU	●●●	●●	●●●	●●●	∅
Universität Düsseldorf	● - ●●●●	9 RU	●●●	●●	●●●	●●●	-
Universität Gießen	●●●	4 RU	●●●	●●	●●●	●●	∅
Universität Halle-Wittenberg	● - ●●●●	5 RU	●●●	●●●	●●●	●●	-
Universität Hannover	●● - ●●●	5 RU	●●●	●●●	●●●	●●●●	∅
Technische Universität Kaiserslautern	●●● - ●●●●	3 RU	●●	●●●	●●●	●●●	∅
Universität Oldenburg	● - ●●●	6 RU	●●	●●●	●●●	●●	-
Universität Potsdam	● - ●●●●	3 RU	●●	●●●	●●●	●●●	∅
Universität Ulm	●●● - ●●●●	3 RU	●●●	●●●●	●●●	●●●●	∅
Max-Planck-Institut für chemische Ökologie	●● - ●●●●●	3 RU	●●●		●●●	●●	∅
Leibniz-Institut für Katalyse e.V.	●●● - ●●●●●	8 RU	●●●●	●●●●	●●●	●●●●	∅
Leibniz-Institut für Polymerforschung Dresden	●●● - ●●●●	4 RU	●●●●	●●	●●●	●●●●	+
Humboldt-Universität Berlin	●● - ●●●●●	4 RU	●●●	●●●	●●	●●	-
Technische Universität Chemnitz	● - ●●	5 RU	●●	●●●	●●	●●	∅
Technische Universität Freiberg	● - ●●	2 RU	●●	●●	●●	●●	-
Universität Greifswald	●●●	1 RU	●●	●●●●	●●	●●	∅
Universität Jena	●● - ●●●	5 RU	●●●	●●	●●	●●●●	∅
Universität zu Kiel	●● - ●●●	5 RU	●●●	●●●	●●	●	∅
Universität Magdeburg	● - ●●●	3 RU	●●	●●	●●	●●	∅
Universität Paderborn	● - ●●	4 RU	●●	●●	●●	●●	∅
Universität Rostock	● - ●●●●	4 RU	●●	●●	●●	●●	∅
Universität des Saarlandes	●● - ●●●	6 RU	●●●	●●●●	●●	●●●●	∅
Universität Siegen	● - ●●●	6 RU	●●	●●●	●●	●●●	-
Universität Wuppertal	●● - ●●●	3 RU	●●●	●●●	●●	●●●	∅

Results of the pilot study for a research rating in chemistry

Institution		Research quality (range and number of research units)	Impact	Efficiency	Promotion of young researchers	Knowledge transfer	Public understanding of science
GKSS - Institut für Polymerforschung	●●●	1 RU	●●	●	●●	●●●●	-
Max-Planck-Institut für bioanorganische Chemie	●●●●	1 RU	●●●	●●●●	●●	●	-
Max-Planck-Institut für chemische Physik fester Stoffe	●●●	1 RU	●●●	●●	●●	●●●	∅
Institut for Analytical Sciences	●●● - ●●●●	2 RU	●●●●	●●	●●	●●●	-
Leibniz-Institut für Neue Materialien	●● - ●●●	3 RU	●●●	●●●	●●	●●●●●	-
Leibniz-Institut für Pflanzenbiochemie	●●●	1 RU	●●●	●●●	●●	●●	∅
Forschungszentrum Rossendorf	●●●	1 RU	●●	●●	●●	●●●	∅
Universität Hohenheim	● - ●●	2 RU	●	●	●	●	-
Deutsche Sporthochschule Köln	●●	1 RU	●	●●	●	●●●●	+
Universität Osnabrück	● - ●●	5 RU	●	●●	●	●	-
Fraunhofer-Institut für angewandte Polymerforschung	● - ●●●●	4 RU	●●●			●●●●	-
Fraunhofer-Institut Chemische Technologie	● - ●●●	3 RU	●●●	●●●		●●●●	∅
Fraunhofer-Institut für Silicatforschung	●● - ●●●●	4 RU	●●●	●●●		●●●●●	-
Universität Bonn	●● - ●●●●	3 RU					
Forschungszentrum Karlsruhe	●● - ●●●●	7 RU					

Legend	
●●●●●	5 excellent
●●●●●	4,5 very good to excellent
●●●●	4 very good
●●●	3 good
●●	2 satisfactory
●	1 unsatisfactory
+	above average
∅	average
-	below average
	not rateable
RU	research units

Results of the pilot study for a research rating in chemistry

Institution		Research quality (range and number of research units)	Impact	Efficiency	Promotion of young researchers	Knowledge transfer	Public understanding of science
Technische Universität München	●● - ●●●●●	10 RU ●●●●●	●●●●	●●●●	●●●●	●●●●	+
Universität Stuttgart	●● - ●●●●●	11 RU ●●●●●	●●●●	●●●●	●●●●	●●●●	+
Fraunhofer-Institut für Silicatforschung	●● - ●●●●	4 RU ●●●	●●●	●●●		●●●●	-
Max-Planck-Institut für Kohlenforschung	●●●●●	1 RU ●●●●●	●●●●	●●●●	●●●●	●●●●	∅
Leibniz-Institut für Neue Materialien	●● - ●●●	3 RU ●●●	●●●	●●●	●●	●●●●	-
Technische Hochschule Aachen	●●● - ●●●●●	6 RU ●●●●●	●●●●	●●●●	●●●●	●●●●	+
Technische Universität Darmstadt	●● - ●●●●	7 RU ●●●	●●●●	●●●	●●●	●●●●	+
Universität Erlangen-Nürnberg	●●● - ●●●●●	7 RU ●●●●●	●●●●	●●●●	●●●●	●●●●	∅
Universität Frankfurt a.M.	●●● - ●●●●	6 RU ●●●●	●●●	●●●●	●●●●	●●●●	+
Universität Freiburg	●● - ●●●●●	9 RU ●●●●	●●●	●●	●●●●	●●●●	∅
Universität Göttingen	●●●●● - ●●●●●	3 RU ●●●●	●●●●	●●●●	●●●●	●●●●	+
Universität Hamburg	●●● - ●●●●●	9 RU ●●●●	●●●	●●●●	●●●●	●●●●	∅
Universität Hannover	●● - ●●●	5 RU ●●●	●●●	●●●	●●●	●●●●	∅
Universität Jena	●● - ●●●	5 RU ●●●	●●●	●●	●●	●●●●	∅
Universität Köln	●● - ●●●●	5 RU ●●●	●●●	●●●	●●●●	●●●●	+
Deutsche Sporthochschule Köln	●●	1 RU ●	●●	●	●●	●●●●	+
Universität München	●●●●● - ●●●●●	4 RU ●●●●	●●●●	●●●●	●●●●	●●●●	∅
Universität des Saarlandes	●● - ●●●	6 RU ●●●	●●●●	●●●●	●●	●●●●	∅
Universität Tübingen	●● - ●●●	4 RU ●●●●	●●●●	●●●●	●●●●	●●●●	+
Universität Ulm	●●● - ●●●●	3 RU ●●●	●●●	●●●●	●●●	●●●●	∅
Fraunhofer-Institut für angewandte Polymerforschung	● - ●●●●	4 RU ●●●	●●●			●●●●	-
Fraunhofer-Institut Chemische Technologie	● - ●●●	3 RU ●●●	●●●	●●●		●●●●	∅
GKSS - Institut für Polymerforschung	●●●	1 RU ●●	●●	●	●●	●●●●	-
Max-Planck-Institut für biophysikalische Chemie	●●● - ●●●●●	5 RU ●●●●●	●●●	●●●	●●●●	●●●●	∅
Max-Planck-Institut für Kolloid- und Grenzflächenforschung	●●●●●	2 RU ●●●●	●●●●	●●●●	●●●●	●●●●	∅
Max-Planck-Institut für Polymerforschung	●●●●● - ●●●●●	2 RU ●●●●	●●●	●●●●	●●●●	●●●●	∅
Leibniz-Institut für Katalyse e.V.	●●● - ●●●●●	8 RU ●●●●	●●●●	●●●●	●●●	●●●●	∅
Leibniz-Institut für Polymerforschung Dresden	●●● - ●●●●	4 RU ●●●●	●●●	●●	●●●	●●●●	+
Universität Bayreuth	●● - ●●●●●	5 RU ●●●	●●●	●●●●	●●●●	●●●	∅
Freie Universität Berlin	●●● - ●●●●	5 RU ●●●●	●●●●	●●●●	●●●●	●●●	∅
Technische Universität Berlin	●● - ●●●●●	6 RU ●●●●	●●●●	●●●●	●●●●	●●●	∅
Universität Bochum	●●● - ●●●●●	3 RU ●●●●	●●●●	●●●●	●●●●	●●●	+

Results of the pilot study for a research rating in chemistry

Institution		Research quality (range and number of research units)	Impact	Efficiency	Promotion of young researchers	Knowledge transfer	Public understanding of science
Universität Dortmund	●●● - ●●●●	4 RU	●●●	●●●	●●●●	●●●	-
Universität Duisburg-Essen	●● - ●●●	6 RU	●●●	●●	●●●	●●●	∅
Universität Düsseldorf	● - ●●●●	9 RU	●●●	●●	●●●	●●●	-
Universität Heidelberg	●●●● - ●●●●●	4 RU	●●●●●	●●●	●●●●●	●●●	∅
Technische Universität Kaiserslautern	●●● - ●●●●	3 RU	●●	●●●	●●●	●●●	∅
Universität Karlsruhe	●●● - ●●●●●	6 RU	●●●●		●●●●	●●●	+
Universität Konstanz	●●● - ●●●●	2 RU	●●●	●●●	●●●●	●●●	∅
Universität Leipzig	●● - ●●●	4 RU	●●●	●●●●	●●●●	●●●	∅
Universität Marburg	●● - ●●●●	7 RU	●●●●	●●●●	●●●●	●●●	∅
Universität Münster	● - ●●●●	6 RU	●●●●	●●●	●●●●	●●●	-
Universität Potsdam	● - ●●●●	3 RU	●●	●●●	●●●	●●●	∅
Universität Regensburg	●● - ●●●●	5 RU	●●●	●●●●	●●●●	●●●	+
Universität Siegen	● - ●●●	6 RU	●●	●●●	●●	●●●	-
Universität Wuppertal	●● - ●●●	3 RU	●●●	●●●	●●	●●●	∅
Universität Würzburg	●● - ●●●●	6 RU	●●●	●●●●	●●●●	●●●	∅
Fritz-Haber-Institut der MPG	●●●● - ●●●●●	5 RU	●●●●●	●●●	●●●●●	●●●	-
Max-Planck-Institut für chemische Physik fester Stoffe	●●●	1 RU	●●●	●●	●●	●●●	∅
Institut for Analytical Sciences	●●● - ●●●●	2 RU	●●●●	●●	●●	●●●	-
Forschungszentrum Rossendorf	●●●	1 RU	●●	●●	●●	●●●	∅
Humboldt-Universität Berlin	●● - ●●●●	4 RU	●●●	●●●	●●	●●	-
Universität Bielefeld	●●● - ●●●●	5 RU	●●●	●●	●●●	●●	+
Technische Universität Braunschweig	● - ●●●	7 RU	●●●	●●●	●●●	●●	∅
Universität Bremen	●● - ●●●	5 RU	●●	●●●	●●●	●●	-
International University Bremen	●● - ●●●●	6 RU	●●	●●●	●●●	●●	-
Technische Universität Chemnitz	● - ●●	5 RU	●●	●●●	●●	●●	∅
Technische Universität Clausthal	● - ●●●	4 RU	●●	●●	●●●	●●	-
Technische Universität Dresden	● - ●●●	8 RU	●●●	●●	●●●	●●	-
Technische Universität Freiberg	● - ●●	2 RU	●●	●●	●●	●●	-
Universität Gießen	●●●	4 RU	●●●	●●	●●●	●●	∅
Universität Greifswald	●●●	1 RU	●●	●●●●	●●	●●	∅

Results of the pilot study for a research rating in chemistry

Institution		Research quality (range and number of research units)	Impact	Efficiency	Promotion of young researchers	Knowledge transfer	Public understanding of science
Universität Halle-Wittenberg	● - ●●●●	5 RU	●●●	●●●	●●●	●●	-
Universität Magdeburg	● - ●●●	3 RU	●●	●●	●●	●●	∅
Universität Mainz	●●● - ●●●●●	5 RU	●●●●	●●●	●●●●	●●	+
Universität Oldenburg	● - ●●●	6 RU	●●	●●●	●●●	●●	-
Universität Paderborn	● - ●●	4 RU	●●	●●	●●	●●	∅
Universität Rostock	● - ●●●●	4 RU	●●	●●	●●	●●	∅
Max-Planck-Institut für chemische Ökologie	●● - ●●●●●	3 RU	●●●		●●●	●●	∅
Max-Planck-Institut für Festkörperforschung	●●● - ●●●●●	4 RU	●●●	●●	●●●●	●●	∅
Leibniz-Institut für Pflanzenbiochemie	●●●	1 RU	●●●	●●●	●●	●●	∅
Universität Hohenheim	● - ●●	2 RU	●	●	●	●	-
Universität zu Kiel	●● - ●●●	5 RU	●●●	●●●	●●	●	∅
Universität Osnabrück	● - ●●	5 RU	●	●●	●	●	-
Max-Planck-Institut für bioanorganische Chemie	●●●●	1 RU	●●●	●●●●	●●	●	-
Universität Bonn	●● - ●●●●	3 RU					
Forschungszentrum Karlsruhe	●● - ●●●●	7 RU					

Legend	
●●●●●	5 excellent
●●●●●	4,5 very good to excellent
●●●●	4 very good
●●●	3 good
●●	2 satisfactory
●	1 unsatisfactory
+	above average
∅	average
-	below average
	not rateable
RU	research units

Results of the pilot study for a research rating in chemistry

Institution		Research quality (range and number of research units)	Impact	Efficiency	Promotion of young researchers	Knowledge transfer	Public understanding of science
Technische Hochschule Aachen	●●● - ●●●●●	6 RU ●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	+
Universität Bielefeld	●●● - ●●●●●	5 RU ●●●	●●●	●●	●●●	●●	+
Universität Bochum	●●● - ●●●●●	3 RU ●●●●●	●●●●●	●●●●●	●●●●●	●●●	+
Technische Universität Darmstadt	●● - ●●●●●	7 RU ●●●	●●●●●	●●●	●●●●●	●●●●●	+
Universität Frankfurt a.M.	●●● - ●●●●●	6 RU ●●●●●	●●●	●●●●●	●●●●●	●●●●●	+
Universität Göttingen	●●●●● - ●●●●●	3 RU ●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	+
Universität Karlsruhe	●●● - ●●●●●	6 RU ●●●●●		●●●●●	●●●	●●●	+
Universität Köln	●● - ●●●●●	5 RU ●●●	●●●	●●●	●●●●●	●●●●●	+
Deutsche Sporthochschule Köln	●●	1 RU ●	●●	●	●●●●●	●●●●●	+
Universität Mainz	●●● - ●●●●●	5 RU ●●●●●	●●●	●●●●●	●●●	●●	+
Technische Universität München	●● - ●●●●●	10 RU ●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	+
Universität Regensburg	●● - ●●●●●	5 RU ●●●	●●●●●	●●●●●	●●●●●	●●●	+
Universität Stuttgart	●● - ●●●●●	11 RU ●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	+
Universität Tübingen	●● - ●●●	4 RU ●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	+
Leibniz-Institut für Polymerforschung Dresden	●●● - ●●●●●	4 RU ●●●●●	●●●●●	●●	●●●	●●●●●	+
Universität Bayreuth	●● - ●●●●●	5 RU ●●●	●●●●●	●●●●●	●●●●●	●●●	∅
Freie Universität Berlin	●●● - ●●●●●	5 RU ●●●●●	●●●●●	●●●●●	●●●●●	●●●	∅
Technische Universität Berlin	●● - ●●●●●	6 RU ●●●●●	●●●●●	●●●●●	●●●●●	●●●	∅
Technische Universität Braunschweig	● - ●●●	7 RU ●●●	●●●	●●●	●●●	●●	∅
Technische Universität Chemnitz	● - ●●	5 RU ●●	●●	●●●	●●	●●	∅
Universität Duisburg-Essen	●● - ●●●	6 RU ●●●	●●●	●●	●●●	●●●	∅
Universität Erlangen-Nürnberg	●●● - ●●●●●	7 RU ●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	∅
Universität Freiburg	●● - ●●●●●	9 RU ●●●●●	●●●●●	●●	●●●●●	●●●●●	∅
Universität Gießen	●●●	4 RU ●●●	●●●	●●	●●●	●●	∅
Universität Greifswald	●●●	1 RU ●●	●●	●●●●●	●●	●●	∅
Universität Hamburg	●●● - ●●●●●	9 RU ●●●●●	●●●	●●●●●	●●●●●	●●●●●	∅
Universität Hannover	●● - ●●●	5 RU ●●●	●●●	●●●	●●●	●●●●●	∅
Universität Heidelberg	●●●●● - ●●●●●	4 RU ●●●●●	●●●●●	●●●●●	●●●	●●●	∅
Universität Jena	●● - ●●●	5 RU ●●●	●●●	●●	●●	●●●●●	∅
Technische Universität Kaiserslautern	●●● - ●●●●●	3 RU ●●	●●	●●●	●●●	●●●	∅
Universität zu Kiel	●● - ●●●	5 RU ●●●	●●●	●●●	●●	●	∅
Universität Konstanz	●●● - ●●●●●	2 RU ●●●	●●●	●●●	●●●●●	●●●	∅

Results of the pilot study for a research rating in chemistry

Institution		Research quality (range and number of research units)	Impact	Efficiency	Promotion of young researchers	Knowledge transfer	Public understanding of science
Universität Leipzig	●● - ●●●	4 RU	●●●	●●●●	●●●●	●●●	∅
Universität Magdeburg	● - ●●●	3 RU	●●	●●	●●	●●	∅
Universität Marburg	●● - ●●●●	7 RU	●●●●	●●●●	●●●●	●●●	∅
Universität München	●●●● - ●●●●	4 RU	●●●●	●●●●	●●●●	●●●●	∅
Universität Paderborn	● - ●●	4 RU	●●	●●	●●	●●	∅
Universität Potsdam	● - ●●●●	3 RU	●●	●●●	●●●	●●●	∅
Universität Rostock	● - ●●●●	4 RU	●●	●●	●●	●●	∅
Universität des Saarlandes	●● - ●●●	6 RU	●●●	●●●●●	●●	●●●●	∅
Universität Ulm	●●● - ●●●●	3 RU	●●●	●●●●	●●●	●●●●	∅
Universität Wuppertal	●● - ●●●	3 RU	●●●	●●●	●●	●●●	∅
Universität Würzburg	●● - ●●●●	6 RU	●●●	●●●●	●●●●	●●●	∅
Fraunhofer-Institut Chemische Technologie	● - ●●●	3 RU	●●●	●●●		●●●●	∅
Max-Planck-Institut für biophysikalische Chemie	●●● - ●●●●●	5 RU	●●●●●	●●●	●●●●	●●●●	∅
Max-Planck-Institut für chemische Ökologie	●● - ●●●●	3 RU	●●●		●●●	●●	∅
Max-Planck-Institut für chemische Physik fester Stoffe	●●●	1 RU	●●●	●●	●●	●●●	∅
Max-Planck-Institut für Festkörperforschung	●●● - ●●●●●	4 RU	●●●	●●	●●●●	●●	∅
Max-Planck-Institut für Kohlenforschung	●●●●●	1 RU	●●●●●	●●●●●	●●●●●	●●●●●	∅
Max-Planck-Institut für Kolloid- und Grenzflächenforschung	●●●●●	2 RU	●●●●	●●●●●	●●●●	●●●●	∅
Max-Planck-Institut für Polymerforschung	●●●●● - ●●●●●	2 RU	●●●●●	●●●	●●●●●	●●●●	∅
Leibniz-Institut für Katalyse e.V.	●●● - ●●●●●	8 RU	●●●●	●●●●	●●●	●●●●	∅
Leibniz-Institut für Pflanzenbiochemie	●●●	1 RU	●●●	●●●	●●	●●	∅
Forschungszentrum Rossendorf	●●●	1 RU	●●	●●	●●	●●●	∅
Humboldt-Universität Berlin	●● - ●●●●	4 RU	●●●	●●●	●●	●●	-
Universität Bremen	●● - ●●●	5 RU	●●	●●●	●●●	●●	-
International University Bremen	●● - ●●●●	6 RU	●●	●●●	●●●	●●	-
Technische Universität Clausthal	● - ●●●	4 RU	●●	●●	●●●	●●	-
Universität Dortmund	●●● - ●●●●	4 RU	●●●	●●●	●●●●	●●●	-
Technische Universität Dresden	● - ●●●	8 RU	●●●	●●	●●●	●●	-
Universität Düsseldorf	● - ●●●●	9 RU	●●●	●●	●●●	●●●	-
Technische Universität Freiberg	● - ●●	2 RU	●●	●●	●●	●●	-

Results of the pilot study for a research rating in chemistry

Institution		Research quality (range and number of research units)	Impact	Efficiency	Promotion of young researchers	Knowledge transfer	Public understanding of science
Universität Halle-Wittenberg	● - ●●●●	5 RU	●●●	●●●	●●●	●●	-
Universität Hohenheim	● - ●●	2 RU	●	●	●	●	-
Universität Münster	● - ●●●●	6 RU	●●●●	●●●	●●●●	●●●	-
Universität Oldenburg	● - ●●●	6 RU	●●	●●●	●●●	●●	-
Universität Osnabrück	● - ●●	5 RU	●	●●	●	●	-
Universität Siegen	● - ●●●	6 RU	●●	●●●	●●	●●●	-
Fraunhofer-Institut für angewandte Polymerforschung	● - ●●●●	4 RU	●●●			●●●●	-
Fraunhofer-Institut für Silicatforschung	●● - ●●●●	4 RU	●●●	●●●		●●●●	-
GKSS - Institut für Polymerforschung	●●●	1 RU	●●	●	●●	●●●●	-
Fritz-Haber-Institut der MPG	●●●● - ●●●●●	5 RU	●●●●●	●●●	●●●●●	●●●	-
Max-Planck-Institut für bioanorganische Chemie	●●●●	1 RU	●●●	●●●●	●●	●	-
Institut for Analytical Sciences	●●● - ●●●●	2 RU	●●●●	●●	●●	●●●	-
Leibniz-Institut für Neue Materialien	●● - ●●●	3 RU	●●●	●●●	●●	●●●●	-
Universität Bonn	●● - ●●●●	3 RU					
Forschungszentrum Karlsruhe	●● - ●●●●	7 RU					

Legend	
●●●●●	5 excellent
●●●●●	4,5 very good to excellent
●●●●	4 very good
●●●	3 good
●●	2 satisfactory
●	1 unsatisfactory
+	above average
∅	average
-	below average
	not rateable
RU	research units