Reaction of Researchers to Plan S; Too far, too risky?

An Open Letter from Researchers to European Funding Agencies, Academies, Universities, Research Institutions, and Decision Makers

We support open access (OA) and Plan S is probably written with good intentions. However, Plan S[1], as currently presented by the EU (and several national funding agencies) goes too far, is unfair for the scientists involved and is too risky for science in general. Plan S has far-reaching consequences, takes insufficient care of the desires and wishes of the individual scientists and creates a range of unworkable and undesirable situations:

(1) **The complete ban on hybrid (society) journals of high quality is a big problem**, especially for chemistry. Apart from the fact that we won't be allowed to publish in these journals anymore, the direct effect of Plan S and the way in which some national funding agencies and academic/research institutions seem to want to manage costs may eventually even lead to a situation where we won't even be able to legally read the most important (society) journals of for example the ACS, RSC and ChemPubSoc anymore. Note that in their announcement of Plan S, the Dutch funding organisation NWO (for example) wrote that they expect to cover the high article processing charges (APCs) associated with the desired Gold OA publishing model from money freed by disappearing or stopped subscriptions to existing journals[2]. As such, Plan S may (eventually) forbid scientists access to (and publishing in) >85% of the existing and highly valued (society) journals! So effectively Plan S would block access to exactly those journals that work with a valuable and rigorous peer-review system of high quality. As a second note on this aspect: In the Netherlands, already for more than 6 months, researchers don't have legal access to most RSC journals[3]. Fully banning even more society journals is completely unacceptable and unworkable.

(2) **We expect that a large part of the world will not (fully) tie in with Plan S.** The USA, China and the rest of Asia highly value the existing (society) journals, in particular (for chemistry) the ACS journals and (for physics) the APS journals. Germany and Switzerland already indicated they will not conform to the plans as currently formulated. Belgium will also not join-in and independently introduced a different OA policy. Spain is also out, at least for the time being. A transition period for the rest of the world will surely take a long time, and a total global ban on hybrid (society) journals being taken up as a global initiative seems very improbable. Therefore, Plan S has the risk of splitting the global scientific community into two separate systems: cOAlition S grantees *vs.* the rest of the world, with all associated negative consequences. If that happens, this will have a strong negative effect on collaborations between the cOAlition S countries and the rest of the world, because joint publications in the highest quality selective journals, based on rigorous peer review and quality control procedures, with the highest standing in the community, won't be possible anymore (*e.g.* JACS, Science, Nature, Nature Chemistry, ACS Catalysis and Angewandte Chemie are all forbidden under Plan

[1] https://www.scienceeurope.org/coalition-s/

[2] https://www.folia.nl/actueel/123528/volledig-open-access-in-2020-6-vragen-en-antwoorden

[3] https://vsnu.nl/en_GB/news-items/nieuwsbericht/394-no-agreement-with-the-royal-society-of-chemistry-publishing%C2%A0.html

S!). This will also have a strong negative impact on the internationalization of PhD students and postdocs. Why would someone with academic ambitions come to *e.g.* the Netherlands or Sweden to obtain a PhD or obtain postdoc experience if they are not allowed to publish in journals that are important for their career progression, on the international landscape, and would make them therefore uncompetitive if they want to leave cOAlition S countries? Students in our universities are already starting to wonder if it is wise to do a PhD in a cOAlition S country, or rather move to another country to increase their chances of a successful (academic) career. Furthermore, if Plan S succeeds in splitting the global research system, it puts the willingness of scientists to do something for anyone in 'the other system', such as acting as a peer reviewer for manuscripts and research proposals, under pressure. These are all highly undesirable developments that will hurt science as a whole.

(3) We fully appreciate and agree with ongoing concerns about the exploding costs of journal subscriptions. However, **with its strong focus on the Gold OA publication model, in which researchers pay high APCs for each publication, the total costs of scholarly dissemination will likely rise instead of reduce under Plan S.** Furthermore, it will not eliminate the so-called publication 'paywall', but rather simply shifts it from reading to publishing. Tying in with this, the strong focus of Plan S to support in particular for-profit Gold OA-journals (at the expense of high quality non-profit Society journals[4]) has a serious risk that it leads to a surplus of papers of low quality/originality/newsworthiness and that research groups are confronted with high APCs. After all, this system is coupled to perverse financial incentives: Stimulate accepting as many papers as possible - regardless of their quality - and keep increasing the already high APCs in more selective journals.

(4) **Plan S ignores the existence of large differences between different research fields.** Plan S has (probably) a much larger negative effect on chemistry than on some other fields. A one-size-fits-all approach, as presented in Plan S, is therefore a bad idea. The 'mountain of feathers' effect that Plan S can trigger will likely quickly result in lower international ranking and standing of individual cOAlition S researchers, most certainly if little changes elsewhere.

Taken together, **Plan S is a serious violation of academic freedom**: Strongly reduced access to (and possibilities to publish in) suitable scientific journals of high quality, with a direct consequence that it also strongly restricts our choice of countries with which we can conveniently collaborate with or sustain lasting exchange programs. There are also issues with the copyright model (CC-BY) demanded by Plan S. A full ban on publishing in hybrid journals with imposed sanctions also feels as a serious degradation of existing rights. Most problematically, less radical and cheaper solutions are certainly possible. See for example the suggestions presented here: [5]. In addition, more and more journals (for example, JACS[6] and Elsevier[7] journals) are allowing researchers to not only deposit preprints of their work but also updating with each round of peer review until the decision letter is issued such that the research

[4] https://www.timeshighereducation.com/news/plan-s-could-prove-fatal-learned-societies
[5] https://forbetterscience.com/2018/09/11/response-to-plan-s-from-academic-researchers-unethical-too-risky/
[6] https://pubs.acs.org/page/jacsat/submission/prior.html
[7] https://www.elsevier.com/about/policies/sharing#preprint

becomes immediately available *via* the pre-print server. However, as currently framed, Plan S sees such modes of dissemination as only being of archival value and this type of Green OA publishing is non-compliant under the current 10 rules of Plan S.

Researchers should have the freedom to choose publication venue, and while complying with Open Access mandates to also choose *how* papers are made Open Access, in a way that contributes to minimal increased costs for the publishing system while not impinging on academic freedom or jeopardizing internationalization in research and higher education. We call on both funding agencies who are already part of cOAlition S and those who have not (yet?) signed up, to take into account the full landscape of ways that papers can be made Open Access, and not just the very narrow definition provided by Plan S (including the hybrid ban, and the fact that peer reviewed pre-prints such as allowed by the ACS are currently not an obvious compliant solution). In addition, we demand that cOAlition S signatories take responsibility for the implications and risks Plan S may have for the European research landscape, and to therefore take every possible action in the implementation stage to prevent these potential and unintended consequences.

Abbreviations:

ACS: American Chemical Society
APC: Article Processing Charge
APS: American Physical Society
ChemPubSoc: Partnership of 16 continental European chemical societies nurturing a family of high-quality chemistry journals
EU: European Union
JACS: Journal of the American Chemical Society
NWO: Netherlands Organisation for Scientific Research
OA: Open Access (no costs for reading)
    Gold OA: OA model where the publications are immediately available from the publisher, usually upon author payment of an APC fee to get their paper published.
Green OA: Subscription journals accepting depositing a pre- or post-print in a repository.
Platinum OA: Fully free to publish and read.
RSC: Royal Society of Chemistry
VSNU: Vereniging van Samenwereknde Nederlandse Universiteiten

Resources:

https://www.scienceeurope.org/coalition-s/
https://forbetterscience.com/2018/09/11/response-to-plan-s-from-academic-researchers-unethical-too-risky/
https://www.timeshighereducation.com/opinion/podcast-plan-s-squelch
https://www.tidningencurie.se/debatt/europas-beslut-om-open-access-gar-for-langt/#.W88PDXz-zng.twitter

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A. cOAlition S countries (currently)

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98. **Christian Marvelous,** PhD student, Leiden Institute of Chemistry, Leiden University (UL)
99. **S. Hakim Hamdani**, master's student, Synthetic Organic Chemistry, Radboud University, Nijmegen (RU)
100. **Joachim Bijl**, Master student, Synthetic Organic Chemistry, University of Amsterdam (UvA)
101. **Daan den Boer,** PhD student, Leiden Institute of Chemistry, Leiden University (UL)
102. **Dmitri Filippov**, Assistant Professor, Leiden Institute of Chemistry, Leiden University (UL)
103. **Arnold J.M. Driessen**, Prof. Molecular Microbiology, University of Groningen (RUG)
104. **Zhenghui Wen**, PhD student, Micro Flow Chemistry & Synthetic Methodology
105. **Eva Blokker,** Master student, Theoretical Chemistry, Vrije Universiteit Amsterdam (VU)
106. **Mandy Erkelens** PhD student, Leiden Institute of Chemistry, Leiden University (UL)
107. **Joris Timmermans.** Postdoc Researcher, Institute of Environmental Studies, Leiden University (UL)
108. **Tibor Kudernac**, Assistant Professor, Organic Chemistry, University of Twente (UT)
109. **Geert-Jan Kroes**, Prof. Theoretische Chemie, Universiteit Leiden
110. **Wybren Jan Buma**, Prof. Molecular Spectroscopy, Universiteit van Amsterdam (UvA)
111. **Jeroen P.J. Bruekers**, PhD student, Molecular Nanotechnology, Radboud University (RU)
112. **Gerard van Koten**, Honorair University Professor, Universiteit Utrecht (UU)
113. **Akansha Goyal**, PhD student, Leiden Institute of Chemistry, Leiden University (UL)
114. **Alex van der Ham,** PhD student, Leiden Institute of Chemistry, Leiden University (UL)
115. **Syuzanna R. Harutyunyan**, Prof. Synth. Organic Chemistry, Rijksuniversiteit Groningen (RuG)
116. **Jiangkun Ouyang,** Postdoc, Organic Chemistry, Radboud University, Nijmegen (RU)
117. **Saurabh Soni,** PhD student, Zernike Institute for Advanced Materials and Stratingh Institute of Chemistry, University of Groningen (RuG)
118. **Jean-Paul Lange,** Professor, Chemical Engineering, University of Twente (UT) and Principal Researcher at Shell Technology Center, Amsterdam
119. **Jörg Meyer**, Assistant Professor, Theoretical Chemistry, Leiden University (UL)
120. **Han Mulder**, Associate Professor, Animal Breeding and Genomics, Wageningen University (WU)
121. **Jan Vos**, PhD student, Leiden Institute of Chemistry, Leiden University (UL)
122. **Albert J. R. Heck**, Distinguished Faculty Professor, Utrecht University (UU)
123. **Albert P.H.J. Schenning**, Prof. Stimuli-responsive Functional materials and Devices, Eindhoven University of Technology (TU/e)

124. **Bert Klein Gebbink**, Prof. Homogeneous and Bio-inspired Catalysis, Utrecht University (UU)
125. **Wesley Ketelaars,** Master student, Molecular Chemistry, Radboud University, Nijmegen (RU)
126. **Anne Swartjes**, PhD student, Molecular Nanotechnology, Radboud University, Nijmegen (RU)
127. **Wesley Browne**, Associate Professor Molecular Inorganic Chemistry, University of Groningen (RUG)
128. **David N. Reinhoudt**, Em. prof. Supramolecular Chemistry, University of Twente (UT), part-time prof. Supramolecular Chemistry, Radboud University Nijmegen (RU)
129. **Lara Polak**, Master student, Bio-Inspired Catalysis, Universiteit van Amsterdam (UvA)
130. **Martijn Tepaske**, Master student, Bio-Inspired Catalysis, Universiteit van Amsterdam (UvA)
131. **Sijbren Otto** Prof. Systems Chemistry, University of Groningen (RuG)
132. **Cornelis J. Elsevier**, Prof. Molecular Inorganic Chemistry, Universiteit van Amsterdam (UvA)
133. **Inge Loes ten Kate**, Asst Prof. Planetary Science / Astrobiology, Utrecht University (UU)
134. **Edwin Otten**, Associate Professor Molecular Inorganic Chemistry, University of Groningen
135. **Johannes E. M. N. Klein**, Assistant Professor Molecular Inorganic Chemistry, University of Groningen (RUG).
136. **Henk van den Berg**, Professor, Universiteit Twente (UT).
137. **Trevor A. Hamlin**, Ass. Prof., Theoretical Chemistry, Vrije Universiteit Amsterdam (VU)
138. **Pascal Vermeeren**, PhD student, Theoretical Chemistry, Vrije Universiteit Amsterdam (VU)
139. **Stephanie van der Lubbe**, PhD student, Theoretical Chemistry, Vrije Universiteit Amsterdam (VU)
140. **Célia Fonseca Guerra**, Professor, Theoretical Chemistry, Vrije Universiteit Amsterdam (VU)
141. **Timme H. Donders**, Ass. Professor Palaeoecology, Utrecht University (UU)
142. **Evert Jan Baerends**, Prof. Em. Theoretical Chemistry, Vrije Universiteit Amsterdam (VU)
143. **Han J.G.E. Gardeniers**, Prof. Chemical Engineering, University of Twente (UT)
144. **Ellen Kampinga**, Master student, Chemistry of Molecular Materials and Devices, University of Groningen (RUG)
145. **Detlef Lohse**, Professor, Physics of Fluids, University of Twente (UT)
146. **Richard van Lent**, PhD student, Leiden Institute of Chemistry, Leiden University (UL)
147. **Arash Helmi**, Postdoc, Inorganic Membranes and Membrane Reactors, TU Eindhoven (TUe)
148. **Qi Yu**, PhD student, Institute of Environmental Science, Leiden University (UL)
149. **Ward Doelman**, PhD student, Leiden Institute of Chemistry, Leiden University (UL)
150. **Lies Bouwman**, Professor Inorganic Chemistry, Leiden University (UL)
151. **Hidde Elferink**, PhD student, Synthetic Organic Chemistry, Radboud University, Nijmegen (RU)
152. **Binne Zwanenburg**, Em. Prof. Organic Chemistry, Radboud Universiteit, Nijmegen (RU)
153. **Jiabin Luan**, PhD student, Systems Chemistry, Radboud University, Nijmegen (RU)

154. **Ayush Narsaria**, PhD student, Theoretical Chemistry, Vrije Universiteit, Amsterdam (VU)
155. **Thomas Boltje**, Assistant Professor, Institute for molecules and Materials, Radboud University (RU).
156. **Viktor Ivasyshyn**, PhD Student, Chemistry of Molecular Materials and Devices, University of Groningen (RUG)
157. **Irene Groot**, Associate Professor Heterogeneous Catalysis/Surface Science, Leiden University
158. **Silvia D'Agostini**, PhD student, Leiden Institute of Chemistry, Leiden University (UL)
159. **Rint Sijbesma**, professor of Supramolecular Polymer Chemistry, TU Eindhoven (TUe)
160. **Nicole Smits**, PhD Student, Leiden Institute of Chemistry, Leiden University (UL)
161. George Palasantzas, Prof. Physics, Zernike Institute for Advanced Materials, University of Groningen (RUG)
162. **Jan Anton Koster**, Associate Professor of Applied Physics, University of Groningen (RUG)
163. **Thomas Ia Cour Jansen**, Assistant Professor Physics, Zernike Institute for Advanced Materials, University of Groningen (RUG)
164. **Jane Kardula**, PhD Student, Chemistry of Molecular Materials and Devices, University of Groningen (RUG)
165. **Sylvia Rousseva,** PhD Student, Zernike Institute for Advanced Materials and Stratingh Institute of Chemistry, University of Groningen (RUG).
166. **Bart J. Kooi**, Professor, Zernike Institute for Advanced Materials, University of Groningen (RUG)
167. **Jacob van Hengst,** PhD Student, Leiden Institute of Chemistry, Leiden University (UL)
168. **Maarten Stam**, Master student, Leiden Institute of Chemistry, Leiden University (UL)
169. **Dana Rademaker**, Master student, Leiden Institute of Chemistry, Leiden University (UL)
170. **Eelco Ruijter**, Associate Professor of Organic Chemistry, Department of Chemistry & Pharmaceutical Sciences, Vrije Universiteit Amsterdam (VUA)
171. **Marcel de Jeu**, Associate Professor of Mathematics, Leiden University (UL)
172. **Jordy Saya**, PhD Student, Department of Chemistry & Pharmaceutical Sciences, Vrije Universiteit Amsterdam (VUA)
173. **Adri Minnaard**, Director of the Stratingh Institute for Chemistry, University of Groningen
174. **Meike Stöhr**, Professor, Zernike Institute for Advanced Materials, University of Groningen
175. **Anja Palmans.** Associate Professor, Department of Chemistry and Chemical Engineering, TU Eindhoven (TUe)
176. **Ivo Filot**, Assistant Professor, Department of Chemistry and Chemical Engineering, TU Eindhoven (TUe)
177. **John Braun**, PhD Student, Department of Chemistry & Pharmaceutical Sciences, Vrije Universiteit Amsterdam (VUA)
178. **Floris Rutjes**, Professor, Institute for Molecules and Materials, Radboud University
179. **Wim Nieuwpoort**, Emeritus Prof. Theoretical Chemistry, University of Groningen (RuG)
180. **Daniel L. J. Broere**, Assistant Professor, Organic Chemistry & Catalysis, Utrecht University
181. **Taha Selim**, PhD Student, Theoretical Chemistry Department, IMM, Radboud University (RU), Nijmegen.

182. **Shaotao Bai**, PhD Student, Supramolecular and Homogeneous Catalysis, University of Amsterdam (UvA)
183. **Thomas R. Roose**, PhD Student, Department of Chemistry & Pharmaceutical Sciences, Vrije Universiteit Amsterdam (VUA)
184. **Piter Bijma**, Assistant Professor Animal Breeding and Genomics, Wageningen University
185. **Elena Daines**, PhD Student, Physical Organic Chemistry; Radboud University, Nijmegen (RU)

The United Kingdom - UKRI has joined cOAlition S

1. **Philippe Wilson**, Lecturer Biological Chemistry & Bioinformatics, De Montfort University
2. **Lee Cronin**, Prof. and Regius Chair of Chemistry, University of Glasgow
3. **Perdita Barran**, Prof and Director of the Michael Barber Centre, University of Manchester
4. **Varinder Aggarwal** FRS, Professor of Synthetic Chemistry, University of Bristol
5. **Wuge Briscoe**, Reader in Physical Chemistry, University of Bristol
6. **Robin Bedford**, Professor of Catalysis, University of Bristol
7. **Dek Woolfson**, Professor of Chemistry and Biochemistry, University of Bristol
8. **Tom Oliver**, Royal Society University Fellow and Lecturer, University of Bristol
9. **David Naafs**, Royal Society University Fellow and Lecturer, University of Bristol
10. **Stephen Wells**, Researcher, University of Bath
11. **Jonathan Essex**, Professor of Chemistry, University of Southampton
12. **Gareth Tribello**, Lecturer in Atomistic Simulation, Queen's University Belfast
13. **Jonathan Clayden**, Professor of Chemistry, University of Bristol
14. **Michael Shaver**, Professor of Polymer Science, University of Manchester (UoM)
15. **Matthew Nelson**, Research Leader, Royal Botanic Gardens, Kew
16. **Jennifer Garden**, Ramsay Memorial Trust Fellow, University of Edinburgh
17. **Euan Brechin**, Professor of Coordination Chemistry, University of Edinburgh
18. **Christopher Arthur**, Research Fellow, University of Bristol
19. **Paul Gates**, Research Fellow, University of Bristol
20. **Anthony Davis**, Professor of Supramolecular Chemistry, University of Bristol
21. **Scott Cockroft**, Senior Lecturer in Organic Chemistry, University of Edinburgh
22. **Paul A. Clarke**, Reader in Organic Chemistry, University of York
23. **Michael Coogan**, Deputy Head of Chemistry Department, Lancaster University.
24. **Drew Thomson**, Lecturer, University of Glasgow
25. **David Nelson**, Lecturer and Chancellor's Fellow, University of Strathclyde
26. **Dr. John M. Brown** FRS, CRL, Oxford University
27. **Edward Tate**, Professor of Chemical Biology, Imperial College London & Francis Crick Institute
28. **Frank Lewis**, Senior Lecturer in Organic Chemistry, Northumbria University
29. **Christopher Serpell**, Senior Lecturer in Chemistry, University of Kent
30. **Aniello Palma**, Lecturer in Organic Chemistry, University of Kent
31. **Valery N.Kozhevnikov**, Associate Professor in Chemistry, Northumbria University
32. **William Gee**, Lecturer in Chemistry and Forensic Science, University of Kent
33. **Marc van der Kamp**, BBSRC David Phillips Research Fellow, University of Bristol

34. **Carmen Domene**, Prof of Computational Chemistry, University of Bath
35. **Andy Wilson**, Professor, School of Chemistry and Ashby Center for Structural Molecular Biology, University of Leeds
36. **Marcin J. Skwark,** Research Associate, University of Cambridge
37. **Niklaas J. Buurma**, Senior Lecturer in Physical Organic Chemistry, School of Chemistry, Cardiff University
38. **Sam Hay**, Senior Lecturer in Biophysical Chemistry, Manchester Institute of Biotechnology and School of Chemistry, University of Manchester
39. **Anthony Nash**, Postdoc, Department of Physiology, Anatomy, and Genetics, University of Oxford
40. **Sara Kyne**, Senior Lecturer in Chemistry, University of Lincoln
41. **David Tetard**, Senior Lecturer in Chemistry, Northumbria University
42. **Linus O. Johannissen**, Experimental Officer, Manchester Institute of Biotechnology, University of Manchester

B. Non-cOAlition S countries (currently)

Australia

1. **Pall Thordarson**, Professor, University of New South Wales (UNSW Sydney)
2. **Michelle Coote**, Professor, Australian National University (ANU Canberra)
3. **Jonathon Beves**, ARC Future Fellow, University of New South Wales (UNSW Sydney)
4. **Philip Gale**, Professor and Head of School, School of Chemistry, University of Sydney
5. **Wallace Cowling**, Professor, The University of Western Australia (UWA)
6. **Sheng Chen**, Research Fellow, The University of Western Australia (UWA)
7. **Hans Daetwyler**, Research Leader Computational Biology, Agriculture Victoria Research, Department of Economic Development, Jobs, Transport and Resources, Victoria, Australia
8. **Jason Harper**, Associate Professor, University of New South Wales (UNSW Sydney)
9. **Gregory Warr**, Professor, School of Chemistry (The University of Sydney)
10. **Scott Kable**, Professor and Head of School of Chemistry (UNSW Sydney)
11. **Kristopher Kilian**, Senior Lecturer, University of New South Wales (UNSW Sydney)
12. **Stephen Glover**, Adjunct Professor, Department of Chemistry, University of New England (UNE)
13. **Torsten Thomas**, Professor and Director, University of New South Wales (UNSW Sydney)

Austria

1. **Karl Kirchner**, PhD, Professor, Institute of Applied Synthetic Chemistry, Vienna University of Technology
2. **Helmuth Hoffmann**, PhD, Professor, Institute of Applied Synthetic Chemistry, Vienna University of Technology
3. **Peter Weinberger**, PhD, Assist.-Prof., Institute of Applied Synthetic Chemistry, Vienna University of Technology

Belgium

1. **Tatjana Parac-Vogt**, Professor, Department of Chemistry, KU Leuven

Brazil

1. **Antônio Eduardo Miller Crotti,** Ph.D. Professor, Department of Chemistry, Faculty of Philosophy, Sciences and Letters, University of São Paulo

Canada

1. **Sarah Rauscher**, Assistant Professor, Department of Chemistry, University of Toronto
2. **Dennis Salahub**, Professor Emeritus of Chemistry, University of Calgary
3. **Datong Song**, Associate Professor, Department of Chemistry, University of Toronto
4. **Paul Hayes**, Professor, Department of Chemistry, University of Lethbridge
5. **Ulrich Fekl**, Professor, Department of Chemistry, University of Toronto
6. **Mark Stradioto**, Professor, Department of Chemistry, Dalhousie University
7. **Stacey Wetmore**, Professor, Department of Chemistry and Biochemistry, University of Lethbridge
8. **Tim Storr**, Associate Professor, Department of Chemistry, Simon Fraser University
9. **Marc Roussel**, Professor, Department of Chemistry and Biochemistry, University of Lethbridge
10. **Borries Demeler**, Professor, Department of Chemistry and Biochemistry, University of Lethbridge

China

1. **Yaya Duan**, Postdoc, Organic Chemistry, ICIQ

Croatia

1. **Aleksandra Maršavelski,** Assistant Professor, Department of Chemistry, Faculty of Science, University of Zagreb

Czech Republic

1. **Petr Bouř**, Professor of Analytical Chemistry, UCT and CAS
2. **Zlatko Janeba,** Senior Researcher, Institute of Organic Chemistry and Biochemistry CAS, Prague
3. **Michal Hocek,** Professor Organic Chemistry, Charles University and IOCB Prague
4. **Lubomír Rulíšek,** Senior Researcher, Institute of Organic Chemistry and Biochemistry CAS, Prague

5. **Pavel Kočovský, DSc, FRSE**, Prof. Organic Chemistry, Charles University
6. **Michal Straka,** Senior Researcher, Institute of Organic Chemistry and Biochemistry CAS, Prague
7. **Milan Vrabel**, Junior Group Leader, Institute of Organic Chemistry and Biochemistry, CAS, Prague
8. **Eliška Matoušová**, Assist. Prof. Organic Chemistry, Charles University
9. **Natalia Janowicz**, PhD student, Parasitology, Charles University, Prague
10. **Petr Hermann**, Professor Inorganic Chemistry, Charles University, Prague
11. **Eliška Nováková**, Assist. Prof. Analytical Chemistry, Charles University, Prague
12. **Cina Foroutan-Nejad**, Junior Researcher, Physical Chemistry, Central European Institute of Technology, Masaryk University, Brno
13. **Radovan Herchel**, Assoc. Professor, Department of Inorganic Chemistry, Palacký University Olomouc

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1. **Hamdy Abdel-Shafy**, Assistant Professor, Department of Animal Production, Faculty of Agriculture, Cairo University
2. **Hossam E. Rushdi**, Associate Professor of Animal Breeding and Genetics, Faculty of Agriculture, Cairo University

Germany

1. **Sven Schneider**, Prof. and Head of Institute for Inorganic Chemistry, University of Göttingen
2. **Sarah Köster**, Prof. of Experimental Physics, University of Göttingen
3. **Martin Elsner**, Prof., Chair of Analytical and Water Chemistry, Technical University of Munich
4. **Matthias Beller**, Prof. Applied Homogeneous Catalysis, Leibniz Institute for Catalysis, Rostock
5. **Riza Dervisoglu**, Postdoctoral researcher, Max Planck Institute for Biophysical Chemistry, Göttingen
6. **Torsten Beweries**, PD Dr., Coordination Chemistry and Catalysis,_Leibniz Institute for Catalysis, Rostock
7. **Serena DeBeer**, Professor & MPI Director, inorganic spectroscopy, Max-Planck Institute for Chemical Energy Conversion (MPI CEC), Mülheim a/d Ruhr
8. **Birgit Strodel**, Professor, Computational Biochemistry, Forschungszentrum Jülich & Heinrich Heine University Düsseldorf
9. **Frank Neese**, Professor & MPI Director, molecular theory & spectroscopy, Max-Planck Institut für Kohlenforschung (MPI-Kofo), Mülheim a/d Ruhr
10. **Thomas Braun**, Professor for Inorganic Chemistry, Humboldt-Universität zu Berlin
11. **Christian Limberg**, Professor for Inorganic Chemistry, Humboldt-Universität zu Berlin
12. **Hannah Noa Barad**, Postdoctoral researcher, Max Planck Institute for Intelligent Systems, Stuttgart

13. **Peter R. Schreiner**, Professor of Organic Chemistry, Justus Liebig University, Giessen
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3. **Rina Sikari**, PhD researcher, Dept of Chemistry, Indian Inst. of Eng. Sci. & Techn., Shibpur
4. **Siuli Das**, PhD researcher, Dept of Chemistry, Indian Inst. of Eng. Sci. & Techn., Shibpur
5. **Gargi Chakraborty**, PhD researcher, Dept of Chem., Indian Inst. of Eng. Sci. & Tech., Shibpur
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7. **Seemika Banerjee**, PhD researcher, Dept of Chem., Indian Inst. of Eng. Sci. & Tech., Shibpur
8. **N. Sukumar**, Professor, Department of Chemistry, Shiv Nadar University

Israel

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2. **Dan Tawfik**, Professor, Department of Biomolecular Sciences, Weizmann Institute
3. **Sason Shaik**, Professor of Theoretical Chemistry, The Hebrew University of Jerusalem
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5. **Dan Major**, Professor, Chemistry Department, Bar Ilan University
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7. **Katya Kapilov-Buchman**, PhD, Department of Material Science and Engineering, Technion-Israel Institute of Technology
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19. **Arlene Wilson-Gordon**, Professor Emerita, Department of Chemistry, Bar-Ilan University
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22. **Slava Freger**, Professor, Wolfson Department of Chemical Engineering. Technion - Israel Institute of Technology
23. **Itamar Willner,** Professor, Institute of Chemistry, The Hebrew University of Jerusalem
24. **Irena Efremenko**, Weizmann Institute of Science
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27. **Arkadi Vigalok**, Professor, School of Chemistry, Tel Aviv University
28. **Ronny Neumann**, Professor, Department of Organic Chemistry, Weizmann Institute of Science
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30. **Mattan Hurevich**, Senior Lecturer, The Hebrew University of Jerusalem
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38. **Anatoly Belostotskii**, Associate Professor, Department of Chemistry, Bar Ilan University

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40. **Wilfried J. W. Mayer**, D.Sc., Retired Head Analytical R&D at ADAMA Makhteshim Ltd.
41. **Joel Bernstein**, Prof. Emeritus, Department of Chemistry, Ben-Gurion University
42. **Dr. Tuvia Zisner**, Chemical Engineer
43. **Ranjeesh Thenarukandiyil**, postdoc, Schulich Faculty of Chemistry. Technion - Israel Institute of Technology
44. **Pravat Mondal,** postdoc, Schulich Faculty of Chemistry. Technion - Israel Institute of Technology
45. **Chinna Ayya Swamy P**, postdoc, Schulich Faculty of Chemistry. Technion - Israel Institute of Technology**Micha Fridman**, Professor, School of Chemistry, Tel Aviv University.
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Lithuania

1. **visvaldas Kairys**, Senior researcher, Vilnius University

New Zealand

1. **Margaret Brimble,** Distinguished Professor (Organic Chemistry), University of Auckland

Portugal

1. **Maria José Calhorda**, Professor of Inorganic Chemistry, University of Lisboa, Portugal
2. **Ana Margarida Martins**, Assistant Professor with Habilitation at University of Lisboa, Portugal

3. **Paulo Nuno Martinho**, Researcher, University of Lisboa
4. **Jorge Oliveira**, Assistant Professor, Polytechnic Institute of Viseu, Portugal
5. **María Teresa Blázquez-Sánchez.** Postdoc, University of Lisboa, Portugal
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Serbia

1. **Maja Gruden**, Assoc. Prof. Chemistry, University of Belgrade
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3. **Alisa Gruden-Movsesijan**, Research Professor, Institute for the Application of Nuclear Energy – INEP, University of Belgrade

Spain

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2. **Gonzalo Jiménez-Osés**, Group Leader in Computational Chemical Biology, Ramon & Cajal Fellow, University of La Rioja (UR), President of the Young Chemists Division of the **Spanish Royal Society of Chemistry**
3. **Julio Lloret-Fillol**, ICREA Prof. and group leader at Institute of Chemical Research of Catalonia (ICIQ)
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16. **Narciso M. Garrido**, Prof. Organic Chemistry, Universidad de Salamanca
17. **Eduardo Peris Fajarnés**, Prof. Organometallic Chem. & Cat., Universidad Jaume I, Castellon
18. **Elisabet Romero**, Group Leader, Institute of Chemical Research of Catalonia (ICIQ)
19. **Antonio de la Hoz**, Group Leader, Universidad de Castilla-La Mancha
20. **José A. Pomposo**, IKERBASQUE Research Professor at the University of the Basque Country (UPV/EHU)

21. **José Carlos Menéndez**, Professor Organic Chemistry, Universidad Complutense, Madrid
22. **Ernesto de Jesús**, Prof. Inorganic Chemistry, Universidad de Alcalá.
23. **Pedro Merino**,
24. **Marta Elena Gonzalez Mosquera**, Associate Professor Inorganic Chemistry, Univ. Alcala
25. **Israel Fernández López**, Associate Professor (Organic Chemistry), Universidad Complutense de Madrid
26. **Justo Cobo Domingo**, Professor of Organic Chemistry, Universidad de Jaén
27. **Jose A. Mata**, Associate Professor Inorganic Chemistry, Universitat Jaume I
28. **Miguel Ángel Alario Franco**: Emeritus professor Inorg. Chemistry(UCM) Former President Real Academia de Ciencias de España
29. **Vicent Moliner**. Professor of Physical Chemistry. Universitat Jaume I, Castellón
30. **Jesús Campos**. Scientific Researcher, Spanish National Research Council (CSIC), Sevilla.
31. **Eduardo Sola**, Scientific Researcher, CSIC-Universidad de Zaragoza
32. **X. Ramón Nóvoa**, Professor of Chemical Engineering. University of Vigo.
33. **Beatriu Escuder**, Associate Professor Organic Chemistry, Universitat Jaume I.
34. **Amor Rodríguez Iglesias**. Scientific Researcher, IIQ-CSIC, Sevilla.
35. **Rosario González-Muñiz**, Scientific Researcher, IQM-CSIC, Madrid
36. **Amadeu Llebaria**. Scientific Researcher, IQAC-CSIC, Barcelona
37. **Ángel J. Moreno**. Scientific Researcher, CFM-CSIC, San Sebastián
38. **Lourdes Ramos**. Senior Scientific Researcher, IQOG-CSIC, Madrid
39. **Daniele Cangialosi**. Scientific Researcher, CFM-CSIC, San Sebastian
40. **Javier Hernández-Borges.** Professor of Analytical Chemistry, University of La Laguna (ULL), Tenerife.
41. **Verónica Pino Estévez**. Professor of Analytical Chemistry, University of La laguna (ULL), Tenerife
42. **Pedro Alberto Enríquez Pama**, Lecturer of Physical Chemistry, Universidad de La Rioja (UR).
43. **Jose M. Lassaletta**, Research Professor, Instituto de Investigaciones Químicas (CSIC-US)
44. **Ignacio Tuñón**, Professor of Physical Chemistry, University of Valencia
45. **Joaquín López Serrano**, Associate Professor of Inorganic Chemistry. Universidad de Sevilla.
46. **Beatriz Julián López**, Associate Professor Inorganic Chemistry, Universitat Jaume I.
47. **Alma Viso**. Senior Scientific Researcher, IQOG-CSIC, Madrid.
48. **Juan Pedro Espinós Manzorro**, Research Professor, Instituto de Ciencia de Materiales de Sevilla (CSIC-US)
49. **Fernando López Ortiz**, Professor of Organic Chemistry, Universidad de Almería (UAL).
50. **Noemí de los Santos Álvarez**, Associate Professor of Analytical Chemistry. Universidad de Oviedo.
51. **Roberto Fernández de la Pradilla**, Senior Scientific Researcher, IQOG-CSIC, Madrid.
52. **José M. Fernández-Colinas**, Professor, University of Oveida
53. **Feliu Maseras,** Group leader, Institute of Chemical Research of Catalonia (ICIQ)
54. **Fernando López**, Senior Scientific Researcher, CSIC, Spain

55. **Maria Ventura Sánchez-Horneros,** Postdoctoral fellow, Instituto de Tecnologia Quimica (ITQ-CSIC), Valencia.
56. **José Carlos González Gómez**, Associate Professor of Organic Chemistry, Universidad de Alicante (UA)
57. **Miquel Solà**, Professor of Physical Chemistry, University of Girona
58. **Laura Rodríguez Raurell**, Associate Professor, University of Barcelona
59. **Albert Moyano**, Professor of Organic Chemistry, University of Barcelona
60. **José Luis Mascareñas**, Professor Organic Chemistry, University of Santiago
61. **Gonzalo Blay Ilinares**, Professor of Organic Chemistry, Universitat de València
62. **Pedro Cintas**, Prof. Organic Chemistry, Universidad de Extremadura (UEX)
63. **Carmen Pérez**, Associate Professor of Materials Science, University of Vigo
64. **Joaquín Campos**, Full Professor of Medicinal and Organic Chemistry, University of Granada
65. **Angel Orte**, Professor of Physical Chemistry, University of Granada
66. **Moisés García-Morales**, Associate Professor of Chemical Engineering, University of Huelva
67. **Francisco Alonso**, Professor of Organic Chemistry, University of Alicante
68. **Diego J. Ramón**, Professor of Organic Chemistry, University of Alicante
69. **Miguel A. Esteruelas**, Professor of Inorganic Chemistry, University of Zaragoza-CSIC
70. **José A. Fernández**, President of GEFAM, Universidad del País Vasco, Leioa
71. **José M. Fraile**, Scientific Researcher, ISQCH, CSIC-Universidad de Zaragoza
72. **José M. G. Molinillo**, Professor of Organic Chemistry, Universidad de Cádiz
73. **Pablo Barrio**, Ramón & Cajal Fellow, Universidad de Oviedo
74. **Carlos Vila**, Ramón & Cajal Fellow, Universitat de València
75. **Carlos del Pozo Losada**, Professor of Organic Chemistry, University of Valencia
76. **Atsushi Urakawa**, Group Leader, Institute of Chemical Research of Catalonia (ICIQ)
77. **Jesús J. Pérez-Torrente**, Prof. Inorganic Chemistry, University of Zaragoza
78. **Jenifer Rubio Magnieto**, Post-doctoral fellow, Universitat Jaume I o Castelló.
79. **Montserrat Oliván**, Scientific Researcher, Universidad de Zaragoza-CSIC
80. **Diego Peña**, Associate Professor of Organic Chemistry, CIQUS, Univ. Santiago de Compostela
81. **Iñigo López Arbeloa**, Professor, Departamento Química Física, Universidad del País Vasco/EHU, Bilbao
82. **Miguel Ángel Casado Combreras,** PhD Student, Instituto de Investigaciones Químicas (CSIC-University of Seville)

Switzerland

1. **Raffaella Buonsanti,** Assistant Professor, Department of Chemical Sciences and Engineering, EPFL
2. **Xile Hu**, Professor, Laboratory of Inorganic Synthesis and Catalysis, EPFL
3. **Karl Gademann**, Professor and Head of the Department of Chemistry, University of Zurich

4. **Jérôme Waser**, Associate Professor, Laboratory of Catalysis and Organic Synthesis, EPFL
5. **Clemence Corminboeuf**, Associate Professor, Laboratory for Computational Molecular Design, EPFL
6. **Stefan Bienz**, Professor, Department of Chemistry, University of Zurich
7. **Michal Juríček**, Assistant Professor, Department of Chemistry, University of Zurich
8. **David Tilley**, Assistant Professor, Department of Chemistry, University of Zurich
9. **Christophe Copéret**, Professor, Department of Chemistry and biosciences, ETH Zürich
10. **Maksym V. Kovalenko**, Professor, Inorganic Chemistry, ETH Zurich (CH)
11. **Donald Hilvert**, Professor, Department of Chemistry and Applied Biosciences, ETH Zürich
12. **Antonio Togni**, Professor, Department of Chemistry and Applied Biosciences, ETH Zürich
13. **Helma Wennemers**, Professor, Department of Chemistry and Applied Biosciences, ETH Zürich
14. **Gunnar Jeschke**, Professor and Head of the Department of Chemistry and Applied Biosciences, ETH Zürich
15. **Markus Reiher**, Professor, Department of Chemistry and Applied Biosciences, ETH Zürich
16. **Peter Chen**, Professor, Department of Chemistry and Applied Biosciences, ETH Zürich

The United States

1. **Arieh Warshel**, Distinguished Professor of Chemistry, University of Southern California, **Nobel Prize 2013**
2. **Peter Kasson**, Assoc. Prof, University of Virginia and Uppsala University
3. **Michael P. Doyle**, Professor, Dept. of Chemistry, University of Texas at San Antonio
4. **Daniel J. Mindiola**, Professor, Dept. of Chemistry, University of Pennsylvania
5. **Robert Crabtree**, Professor, Dept. of Chemistry, Yale University
6. **Susannah Scott**, Distinguished Professor of Chemical Engineering, University of California, Santa Barbara
7. **Kenneth D. Karlin**, Professor, Dept. of Chemistry, Johns Hopkins University
8. **James Mayer**, Professor, Dept. of Chemistry, Yale University
9. **Andrei Chirila**, Research Associate, Dept. of Chemistry, University of Washington
10. **Anna Krylov**, Gabilan Distinguished Professor in Science and Engineering, University of Southern California
11. **Rick Anderson**, Associate Dean for Collections & Scholarly Communication, J. Willard Marriott Library, University of Utah
12. **Robert Nakamoto**, Professor, Dept of Mol. Physiology and Biol. Physics, University of Virginia
13. **Rachel Segalman**, Professor of Chemical Engineering and Materials, University of California, Santa Barbara
14. **Phillip Christopher**, Associate Professor of Chemical Engineering, University of California, Santa Barbara
15. **Joanna Aizenberg**, Professor of Materials Science and Chemistry, Harvard University
16. **Juergen Eckert**, Research Professor, Texas Tech University