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Pierre Braunstein

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Editorial

Editorial January 2026 for *Comptes Rendus Chimie*

Pierre Braunstein

Comptes Rendus Chimie have been enjoying increasing attractivity, in particular since January 1, 2020 when this journal became "Diamond Open Access", and thus free of charge for authors and readers worldwide (no access fees, no downloading charges, no page charges). This decision triggered a very positive feed-back from our authors, referees, and readership. Another important milestone was the signature on 3 December 2025 of an agreement between the *Académie des sciences* and the *Centre National de la Recherche Scientifique* (CNRS) to mark their decision to strengthen their collaboration and co-publish the *Comptes Rendus of the Académie des sciences*. This initiative represents a very strong signal towards the scientific community and is part of the international open science movement, which encourages the unhindered dissemination of scientific research results, methods and products (https://www.cnrs.fr/sites/default/files/press_info/2025-12/CP%20LAcadémie%20des%20sciences%20et%20le%20CNRS%20sunissent_0.pdf).

The commitment of the CNRS, the largest French public scientific research organisation, active in all fields of knowledge, which according to the Scimago Institutions Rankings occupies the third place worldwide as a research centre and the first place at the European level, represents a major encouragement for us to continue doing our best to meet the demands of the international scientific community. To enhance the transparency of the editorial process and improve the interactions between authors and referees, we will continue to publish the anonymised exchanges between authors and referees, of course only if both parties agree, an initiative taken by *C. R. Chim.* in 2024 (https://comptes-rendus.academie-sciences.fr/chimie/articles/10.5802/crchim.288/). Suggestions for improvements from our authors, referees, and readers are always welcome.

This journal covers all aspects of chemistry and its interfaces with life sciences, physics, and material sciences, whether of fundamental or applied nature. We publish original research articles and accounts (short reviews focused on the authors' recent scientific contributions), preliminary communications that typically describe novel and important results, as well as historical chronicles. As always, quality will remain the only criterion on which the referees and the editors base their recommendations and decisions, respectively. More details are provided in the Instructions to authors. In addition to spontaneous submissions, thematic issues coordinated by one or many Guest Editor(s) (upon invitation or spontaneous suggestions) are particularly welcome as they meet increasing needs from our community. Providing a concise and efficient assessment of the state of the art in rapidly expanding fields of research is most welcome in view of the spectacular and often undesirable increase in the number of scientific publications.

The thematic issues published in 2025 covered very different topics, as illustrated below:

- *Innovative Solutions for Biomass Resources and Wastewater Management*, coordinated with enthusiasm and dedication by Professors Salah Jellali (Sultan Qaboos University, Muscat, Oman) and Mejdi Jeguirim (Université de Haute-Alsace, Mulhouse, France).
- *Women Chemists in France in 2025*, beautifully coordinated by Professor Janine Cossy (ESPCI Paris, PSL University, France), one of our Associate Editors. Its publication was very successfully coupled with a breakfast organised at the *Académie des sciences* to honour distinguished colleagues and encourage more women to consider a scientific career.

Table 1. Our most active referees in 2025

Janine Cossy (ESPCI, Paris, France)
Bernard Meunier (Académie des sciences, Paris, France)
Anne Robert (LCC CNRS, Toulouse, France)
Sandrine Bouquillon (Université de Reims, Reims, France)
Sébastien Candel (Académie des sciences, Paris, France)
Jean-Noël Chotard (Université de Picardie, Amiens, France)
Patrick Couvreur (Université Paris Saclay, Orsay, France)
Robbert Duchateau (University of Groningen, Groningen, Netherlands)
Odile Eisenstein (ICGM Université de Montpellier CNRS ENSCM)
Elkhadir Gharibi (Faculté des sciences, Université Mohamed I, Ouajda, Morocco)
Claude Grison (ChimEco Cap Delta, Montpellier, France)
Boujemâa Jaber (Centre National pour la Recherche Scientifique et Technique, Rabat, Morocco)
Salah Jellali (Center for Environmental Studies and Research, Sultan Qaboos University, Muscat, Oman)
Saida Krimi (Faculté des sciences Ain Chok, Université Hassan II, Casablanca, Morocco)
Bun Yeoul Lee (Ajou University, Suwon, South Korea)
Bouchaib Manoun (Université Hassan I, Settat, Morocco)
Eric Manoury (LCC CNRS, Toulouse, France)
Philippe Miele (Institut européen des membranes, Université de Montpellier, France)
Anh Quoc Khuong Nguyen (Institute of Applied Technology and Sustainable Development, Nguyen Tat Thanh University, Ho Chi Minh City, Vietnam)
Didier Roux (Académie des sciences, Paris, France)
Chafia Touil-Boukoffa (Université des sciences et de la technologie Houari Boumediene, Algiers, Algeria)
Driss Zakaria (Université Chouaïb Doukkali, Morocco)

Inspired by the IUPAC annual « Women Breakfast », this event was first held in 2024 and represented a « first » for the *Académie des sciences*.

- *Fluorine Chemistry*, coordinated by Professor Frédéric Leroux (University of Strasbourg, France), a well-known specialist in this field.
- *Biocatalysis and Synthesis*, coordinated by Dr. Juliette Martin (SEQENS, Nîmes, France) with considerable industrial experience within SEQENS, a world leader in pharmaceutical and specialty products.
- *French Network on Solvation*, coordinated by Dr. Francesca Ingrosso (Université de Lorraine, France), with seven articles published in 2024 and two more in 2025.

We are most grateful to our Guest Editors for their dedication and commitment and to our authors for delivering excellent contributions and meeting the deadlines. They are responsible for the success of this journal.

We rely on high-level scientific referees and knowing that they are increasingly solicited, we are particularly grateful to them for their efforts and support of *Comptes Rendus Chimie*. A special thank you goes to our most active referees listed in Table 1.

I am pleased to report the continuing international visibility of the publications in *Comptes Rendus Chimie*, in particular in the top five countries USA, China, France, Germany and Japan (data supplied by Centre Mersenne—source: Google Analytics via Elastic statistics module—Kibana, consulted on 23/12/2025).

The 15 most viewed and downloaded articles in 2025 are listed in Tables 2 and 3, respectively.

The articles (all years) that were the most cited in 2025 are listed in Table 4.

Table 2. The 15 articles (published since 1 January 2020) most viewed in 2025 (data supplied by Centre Mersenne—source: Google Analytics via Elastic statistics module—Kibana, consulted on 21/01/2026)

Title	Authors
Le limonène dans les huiles essentielles: énantiomères et activités biologiques	Louisa Aribi-Zouioueche
Huiles essentielles et chiralité moléculaire	Louisa Aribi-Zouioueche; Françoise Couic-Marinier
Les noms des éléments nous racontent leur histoire	Pierre Avenas
Louis Pasteur face à la maladie du ver à soie (1865–1870) : du chimiste au biologiste	Yves Carton
Chimie des substances naturelles et pharmacie: à la croisée des chemins	Mehdi A. Beniddir; Erwan Poupon
The influence of particle(s) size, shape and distribution on cake filtration mechanics—a short review	Shilpa S. Haramkar; Govind N. Thombre; Sachin V. Jadhav; Bhaskar N. Thorat
L-Tyrosine and L-DOPA: promising scaffolds for the synthesis of biologically active compounds	Euphrem Ndayiragije; Prakashanand Caumul; Nausheen Joondan; Minu Gupta Bhowon; Sabina Jhaumeer Laulloo
Adenine, a key player in biology and medicinal chemistry	Alexandra Fillion; Sophie Vichier-Guerre; Paola Barbara Arimondo
Jean-Antoine Chaptal (1756–1832), agronome et chimiste	Josette Fournier
Théorie cinétique de l'équilibre chimique	Mathieu Lazerges; Sylvain Marque
Nucleophilic addition to carbonyl groups from qualitative to quantitative computational studies. A historical perspective	Odile Eisenstein
Relativistic effects on the electronic structure of the heaviest elements. Is the Periodic Table endless?	Valeria Pershina
Lithium recovery from secondary sources: a review in battery recycling with emphasis on chemical precipitation	Lorena E. Ramirez Velazquez; Hervé Muhr
A detailed UV–Vis spectral investigation of six azo dyes derived from benzoic- and cinnamic acids: experimental and theoretical insight	Luka Matović; Jelena Lađarević; Željko Vitnik; Vesna Vitnik; Dušan Mijin

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Table 2. (continued)

Title	Authors
Solvent extraction of uranium from an acidic medium for the front-end of nuclear fuel cycle: from mechanisms understanding to innovative process design	Fabrice Giusti; Elise Guerinoni; David Lemire; Marine Thimotée; Guilhem Arrachart; Sandrine Dourdain; Stéphane Pellet-Rostaing

Table 3. The 15 articles (published since 1 January 2020) most downloaded in 2025 (data supplied by Centre Mersenne—source: Google Analytics via Elastic statistics module—Kibana, consulted on 21/01/2026)

Title	Authors
Relativistic effects on the electronic structure of the heaviest elements. Is the Periodic Table endless?	Valeria Pershina
Deciding which is the best ^{1}H NMR predictor for organic compounds using statistical tools	Wern Huay Mah; Nadzran Hafiy Ahmad Nazuan; Wei Sheung Yeap; Farah Hasyeena Fakharudin; Ibrahima Faye; Cecilia Devi Wilfred
Chimie des substances naturelles et pharmacie: à la croisée des chemins	Mehdi A. Beniddir; Erwan Poupon
Le limonène dans les huiles essentielles: énantiomères et activités biologiques	Louisa Aribi-Zouioueche
TiO_2, ZnO, and SnO_2-based metal oxides for photocatalytic applications: principles and development	Olga Ishchenko; Vincent Rogé; Guillaume Lamblin; Damien Lenoble; Ioana Fechete
Huiles essentielles et chiralité moléculaire	Louisa Aribi-Zouioueche; Françoise Couic-Marinier
Nucleophilic addition to carbonyl groups from qualitative to quantitative computational studies. A historical perspective	Odile Eisenstein
Lithium recovery from secondary sources: A review in battery recycling with emphasis on chemical precipitation	Lorena E. Ramirez Velazquez; Hervé Muhr
The influence of particle(s) size, shape and distribution on cake filtration mechanics—a short review	Shilpa S. Haramkar; Govind N. Thombre; Sachin V. Jadhav; Bhaskar N. Thorat

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Table 3. (continued)

Title	Authors
Zeolite-based catalysis for isobutene conversion into chemicals and fuel additives. A review	Vasile Hulea
Bioethanol production from water hyacinth with isolated thermophilic microbial consortium from Kenya	Selamawit Shiferaw Deffar; Anil Kumar; Anthony Muliwa; Njira Njira Pili; Timothy Omara
A detailed UV–Vis spectral investigation of six azo dyes derived from benzoic- and cinnamic acids: experimental and theoretical insight	Luka Matović; Jelena Lađarević; Željko Vitnik; Vesna Vitnik; Dušan Mijin
Molecular aspects of cell-penetrating peptides: key amino acids, membrane partners, and non-covalent interactions	Astrid Walrant; Farah Tazi; Sonia Khemaissa; Sandrine Sagan
L-Tyrosine and L-DOPA: promising scaffolds for the synthesis of biologically active compounds	Euphrem Ndayiragije; Prakashanand Caumul; Nausheen Joondan; Minu Gupta Bhowon; Sabina Jhaumeer Laulloo
Biocatalysis in packed-bed reactors: immobilization as an enabling technology	Cristina Lía Fernández Regueiro; David Roura Padrosa; Francesca Paradisi

Table 4. The 15 articles (all years) most cited in 2025 (source: Web of Science as consulted on 23 December 2025)

Title	Authors
The influence of particle(s) size, shape and distribution on cake filtration mechanics—a short review	Haramkar, Shilpa S.; Thombre, Govind N.; Jadhav, Sachin V.; Thorat, Bhaskar N.
TiO_2, ZnO, and SnO_2-based metal oxides for photocatalytic applications: principles and development	Ishchenko, Olga; Rogé, Vincent; Lamblin, Guillaume; Lenoble, Damien; Fechete, Ioana
Effect of Al- and Ga-doping on the adsorption of H_2SiCl_2 onto the outer surface of boron nitride nanotube: a DFT study	Mohammadi, Mohsen Doust; Abdullah, Hewa Y.; Biskos, George; Bhowmick, Somnath

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Table 4. (continued)

Title	Authors
Pharmaceutical pollutants adsorption onto activated carbon: isotherm, kinetic investigations and DFT modeling approaches	Kebir, Mohammed; Bourzami, Riadh; Nasrallah, Noureddine; Lebouachera, Seif El Islam; Dergal, Fayçal; Ladji, Riad; Trari, Mohamed; Harharah, Hamed Ben; el Jery, Atef; Azzaz, Ahmed Amine; Khezami, Lotfi
The photocatalytic degradation of a binary textile reactor using ZnO thin film-phytotoxicity control	Cherif, Sonia; Bonnet, Pierre; Frezet, Lawrence; Kane, Abdoulaye; Assadi, Aymen Amine; Trari, Mohamed; Yazid, Hynda; Djelal, Hayet
Influence of fuel nature on sol–gel microwave-ignited combustion synthesis of nanosized cobalt and nickel spinel ferrites	Mahu, Elvira; Samoila, Petrisor; Ignat, Maria; Cojocaru, Corneliu; Harabagiu, Valeria
Enhanced adsorptive removal of cationic and anionic dyes from aqueous solutions by olive stone activated carbon	Mahmoudi, Khaled; Hamdi, Noureddine; Ben Ali, Mahassen; Jellali, Salah; Srasra, Ezzeddine
Intermediate pyrolysis of *Ficus nitida* wood in a fixed-bed reactor: effect of pyrolysis parameters on bio-oil and bio-char yields and properties	Tabal, Amine; Belyazid, Oumayma; Dahman, Hicham; Berrich, Emna; Jeguirim, Mejdi; El Achaby, Mounir; El Harfi, Khalifa; Aboulkas, Adil
Optimization and characterization of bio-oil and biochar production from date stone pyrolysis using Box-Behnken experimental design	Hammani, H.; El Achaby, M.; El Harfi, K.; El Mhammedi, M. A.; Aboulkas, A.

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Table 4. (continued)

Title	Authors
Printed circuit board recycling: a focus on a novel, efficient and sustainable process for spent critical metals recovery	Charpentier, Nicolas M.; Xia, Dong; Gabriel, Jean-Christophe P.
Experimental evidences of radicals production by hydrodynamic cavitation: a short review	Noepel, Julius-Alexander; Ayela, Frederic
DFT/TD-DFT computational study of the tetrathiafulvalene-1,3-benzothiazole molecule to highlight its structural, electronic, vibrational and non-linear optical properties	Midoune, Assia; Messaoudi, Abdelatif
Structural and in silico studies of 2-pyridyl-decorated 2-amino-1,3,5-triazine with a potency against SARS-CoV-2 proteins	Safin, Damir A.
Review on the contribution of ultrasounds in layered double hydroxides synthesis and in their performances	Kalawoun, Hamed; Obeid, Michel; Ciotonea, Carmen; Chaghouri, Muriel; Poupin, Christophe; Aouad, Samer; Labaki, Madona; Gennequin, Cedric; Abi-Aad, Edmond; Delattre, Francois
Adenine, a key player in biology and medicinal chemistry	Fillion, Alexandra; Vichier-Guerre, Sophie; Arimondo, Paola Barbara
Ion-specific effects in polyelectrolyte solutions: chain–chain interactions, chain rigidity and dynamics	Hotton, Claire; Sakhawoth, Yasine; Rollet, Anne-Laure; Sirieix-Plénet, Juliette; Tea, Lingsam; Combet, Sophie; Sharp, Melissa; Hoffmann, Ingo; Nallet, Frédéric; Malikova, Natalie

We congratulate our authors for their scientific achievements and are proud to help enhance the visibility of their work through a fully Open Access worldwide journal!

Comptes Rendus Chimie were highlighted during the Annual Symposium and Awards Ceremony of the European Academy of Sciences, which took place from 16 to 18 December 2025 at CERN in Geneva. The scientific focus this year was on the "*Societal Impact of Fundamental Sciences*".

It is my pleasure to warmly thank our Associate Editors, Professors Janine Cossy and Azzedine

Bousseksou, the members of the editorial board, the editorial and production staff for their support and commitment, in particular Justine Fabre (Director, *Direction du patrimoine et des ressources scientifiques, Académie des sciences*) and Julien Desmarets (scientific secretary).

Finally, it is also time to wish you and your families, friends and colleagues, a happy, fruitful, and scientifically most rewarding New Year. We look forward to receiving your manuscripts!

Pierre Braunstein
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