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# *Comptes Rendus*

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## *Chimie*

Pierre Braunstein

**Editorial January 2022 for *Comptes Rendus Chimie***

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Editorial / *Éditorial*

## Editorial January 2022 for *Comptes Rendus Chimie*

Pierre Braunstein<sup>®</sup>

Since January 1, 2020, a major development has taken place for all the publications of the *Académie des sciences*, including *Comptes Rendus Chimie*, since they are now fully Open Access worldwide online, with no fee for authors nor readers (“diamond model”). This has been achieved through an innovative collaboration with the Mersenne Centre for open scientific publishing, supported by the CNRS and the University of Grenoble-Alps.

*Comptes Rendus Chimie* publishes original research and accounts (short reviews and historic chronicles) in all areas of chemistry, including at the frontiers of chemistry with other disciplines. Notes (preliminary communications) should describe novel and important results, while full papers should provide a detailed account of new results. In all cases, the work should be of high general interest or outstanding specialized interest. Short reviews focusing on the author(s) research but placed in the context of the most recent advances in the field are also welcome. Furthermore, thematic issues, coordinated by one or many guest editor(s) provide an opportunity to take stock of an emerging and/or rapidly growing scientific area and their content always attracts much attention.

Four such thematic issues covering very diversified fields, have been published in 2020–2021. These were, in chronological order:

- Variations around the Periodic Table (P. Braunstein, R. Guillaumont)
- Sustainable Biomass Resources for Environmental, Agronomic, Biomaterials and Energy

Applications. 1 (Guest editors: M. Jeguirim, S. Jellali; B. Khiari)

- Sustainable Biomass Resources for Environmental, Agronomic, Biomaterials and Energy Applications. 2 (Guest editors: M. Jeguirim, S. Jellali; B. Khiari)
- MAPYRO: the French Fellowship of the Pyrrolic Macrocyclic Ring (Guest editors: B. Boitrel, J. Weiss)

Only submissions considered by the Editorial office to potentially meet the criteria given above are sent out to referees. Of course, we understand the frustrations generated by a rejection not accompanied by detailed comments from the referees, but this is the only way to proceed given the number of submissions received by the Editorial Office. We all know how essential it is for a journal to be able to rely on high-level scientific referees with an ethic that lives up to their task and we also know that these colleagues are being increasingly solicited. We sincerely thank them for their contribution to the success of *Comptes Rendus Chimie* and we are particularly grateful to our 20 most active referees listed in Table 1.

We are very pleased that the *Académie des sciences* has recently signed “The Declaration on Research Assessment (DORA)” which recognizes the need to improve the ways in which researchers and the outputs of scholarly research are evaluated. Although the Journal Impact Factor was originally created as a tool to help librarians identify journals to purchase and not as a measure of the scientific quality of research

**Table 1.** Our 20 most active referees in 2020

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Pierre Grandclaudon (ENSC Lille, France)
Monika Jain (Banda University of Agriculture & Technology, Banda, India)
Salah Jellali (Sultan Qaboos University, Muscat, Oman)
James C. Williams (Indiana University School of Medicine, Indianapolis, USA)
Meriem Belhachemi (University of Bechar, Algeria)
Adil Aboulkas (University of Beni-Mellal, Morocco)
Michel Daudon (Sorbonne Université & Hôpital Tenon, Paris, France)
Mejdi Jeguirim (Université de Haute-Alsace, Mulhouse, France)
Paul Méria (Hôpital Saint-Louis, Paris, France)
Emmanuel Letavernier (Sorbonne Université & Hôpital Tenon, Paris, France)
Edward John Anthony (University of Ottawa, Canada)
Jean-Phillippe Haymann (Sorbonne Université & Hôpital Tenon, Paris, France)
Besma Khiari (National School of Engineers of Carthage, Tunis, Tunisia)
Abdeslam-Hassen Meniai (University of Constantine, Algeria)
Dominique Bazin (Université Paris-Saclay, France)
Bernard Meunier (Laboratoire de Chimie de Coordination, CNRS, Toulouse, France)
Michal Slany (Slovak Academy of Sciences, Bratislava, Slovakia)
Elise Boudierlique (Sorbonne Université & Hôpital Tenon, Paris, France)
Madona Labaki (Lebanese University, Beirut, Lebanon)
Pierre Sinaÿ (Sorbonne Université, Paris, France)

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in an article, we know that authors remain interested in its evolution, either for a given journal or within a given field of research. The 2-year impact factor of *Comptes Rendus Chimie* rose from 2.223 in 2019 to 3.117 in 2020.

We are also pleased to share with you that the quality and diversity of the contributions published in *Comptes Rendus Chimie* have attracted much international awareness, with most views originating from the USA, France, India and China. The 20 most viewed and downloaded articles in 2021 are listed in Tables 2 and 3, respectively.

The most cited articles in 2020–2021 are listed in Table 4.

We wish to congratulate our authors for their achievements and we are proud to increase the visibility of their work thanks to a fully Open Access worldwide journal!

We are most grateful to our authors, guest editors and referees because they are responsible for the success of this journal and its increasing visibility.

We would also like to welcome the new foreign members of the Advisory Board who have joined

us in 2021: R. D. Adams (University of South Carolina, USA), A. Corma (Valencia, Spain), S. Dehnen (Marburg, Germany), P. J. Dyson (EPFL Lausanne, Switzerland), A. J. L. Pombeiro (Lisbon, Portugal) and J. Rocha (Aveiro, Portugal) and look forward to a fruitful collaboration. At the same time, we warmly thank those who have left the Advisory Board after supporting our journal for many years: M. Driess (Berlin, Germany), K. Dunbar (Texas, USA), T. F. Fässler (Munich, Germany), A. Fürstner (Mülheim, Germany), F. Gabbai (Texas, USA), M. Grätzel (EPFL Lausanne, Switzerland), L. A. Oro (Saragossa, Spain), H. W. Roesky (Göttingen, Germany), and H. Schwarz (Berlin, Germany).

Finally, I am most grateful to the editorial and production staff of *Comptes Rendus Chimie*, in particular to Julien Desmarets (scientific secretary), for their cooperation and commitment.

The continuing success of *Comptes Rendus Chimie* depends on you! We welcome all suggestions you may have to help us meet your expectations!

**Table 2.** The 20 most viewed articles in 2021

Title	Authors
Théorie cinétique de l'équilibre chimique	Mathieu Lazerges; Sylvain Marque
Les noms des éléments nous racontent leur histoire	Pierre Avenas
Storing the portrait of Antoine de Lavoisier in a single macromolecule	Eline Laurent; Jean-Arthur Amalian; Thibault Schutz; Kevin Launay; Jean-Louis Clément; Didier Gignes; Alexandre Burel; Christine Carapito; Laurence Charles; Marc-André Delsuc; Jean-François Lutz
Tableau périodique des éléments chimiques et actinides	Robert Guillaumont
Whitlockite structures in kidney stones indicate infectious origin: a scanning electron microscopy and Synchrotron Radiation investigation	Dominique Bazin; Robert J. Papoular; Erik Elkaim; Raphael Weil; Dominique Thiaudière; Céline Pisapia; Benedicte Ménez; Nathaniel S. Hwang; Frederik Tielens; Marine Livrozet; Elise Boudierlique; Jean-Philippe Haymann; Emmanuel Letavernier; Louis Hennet; Vincent Frochot; Michel Daudon
A journey into metal–carbon bond homolysis	Rinaldo Poli
Synthesis of raspberry-like structure zinc oxide nanoparticles via glycol-solvothermal, low-temperature solvothermal and coprecipitation methods	Khairul Basyar Baharudin; Nurulhuda Abdullah; Darfizzi Derawi
Architecture of the molecules of life, a contribution of Louis Pasteur to molecular pharmacology; opportunities for adrenergic pharmacology developments	Morgane Bas; Felipe Hernández; J. Pablo Huidobro-Toro
Nanofibrous biologically soluble scaffolds as an effective drug delivery system	Chingis Daulbayev; Fail Sultanov; Maiya Aldasheva; Aliya Abdybekova; Baglan Bakbolat; Mohammad Shams; Aruzhan Chekiyeva; Zulkhair Mansurov
Opportunities given by density functional theory in pathological calcifications	Frederik Tielens; Jelle Vekeman; Dominique Bazin; Michel Daudon
Impact of mesoporous silica on the chemical degradation of Praziquantel upon grinding	Ivana Šagud; Debora Zanolla; Guglielmo Zingone; Beatrice Perissutti; Irena Škorić
Synthesis, structural characterization, biological activity and molecular docking study of 4,7-dihydroxycoumarin modified by aminophenol derivatives	Žiko B. Milanović; Zoran S. Marković; Dušan S. Dimić; Olivera R. Klisurić; Ivana D. Radojević; Dragana S. Šeklić; Marko N. Živanović; Jasmina Dimitrić Marković; Milanka Radulović; Edina H. Avdović
Synthesis of biosourced silica–Ag nanocomposites and amalgamation reaction with mercury in aqueous solutions	Seitkhan Azat; Elizabeth Arkhangelsky; Thanasis Papatheanasiou; Antonis A. Zorpas; Askar Abirov; Vassilis J. Inglezakis

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**Table 2.** (continued)

Title	Authors
Relativistic effects on the electronic structure of the heaviest elements. Is the Periodic Table endless?	Valeria Pershina
Using micro computed tomographic imaging for analyzing kidney stones	James C. Williams; James E. Lingeman; Michel Daudon; Dominique Bazin
Pt(II) complex of Schiff base derived from L-phenylalanine and furfuraldehyde in the presence of 8-hydroxyquinoline: Structural analysis, composition of complex and biological activity	Özlen Altun; Melike Özge Koçer
TiO <sub>2</sub> , ZnO, and SnO <sub>2</sub> -based metal oxides for photocatalytic applications: principles and development	Olga Ishchenko; Vincent Rogé; Guillaume Lamblin; Damien Lenoble; Ioana Fechete
Ultrasonic pre-treatment of an activated carbon powder in different solutions and influence on the ibuprofen adsorption	Hanen Guedidi; Laurence Reinert; Jean-Marc Lévêque; Sandrine Delpeux; Yasushi Soneda; Nizar Bellakhal; Laurent Duclaux
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
Copper-catalyzed synthesis of diarylamines using p-toluene sulfonamides and benzhydrol derivatives under homogeneous borrowing hydrogen conditions	Akram Ashouri; Saadi Samadi; Behzad Nasiri; Hossein Zamani; Somayeh Pourian

**Table 3.** The 20 most downloaded articles in 2021

Title	Authors
Tableau périodique des éléments chimiques et actinides	Robert Guillaumont
Théorie cinétique de l'équilibre chimique	Mathieu Lazerges; Sylvain Marque
Storing the portrait of Antoine de Lavoisier in a single macromolecule	Eline Laurent; Jean-Arthur Amalian; Thibault Schütz; Kevin Launay; Jean-Louis Clément; Didier Gigmes; Alexandre Burel; Christine Carapito; Laurence Charles; Marc-André Delsuc; Jean-François Lutz
Relativistic effects on the electronic structure of the heaviest elements. Is the Periodic Table endless?	Valeria Pershina
Ultrasonic pre-treatment of an activated carbon powder in different solutions and influence on the ibuprofen adsorption	Hanen Guedidi; Laurence Reinert; Jean-Marc Lévêque; Sandrine Delpeux; Yasushi Soneda; Nizar Bellakhal; Laurent Duclaux
A journey into metal-carbon bond homolysis	Rinaldo Poli

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**Table 3.** (continued)

Title	Authors
Whitlockite structures in kidney stones indicate infectious origin: a scanning electron microscopy and Synchrotron Radiation investigation	Dominique Bazin; Robert J. Papoular; Erik Elkaim; Raphael Weil; Dominique Thiaudière; Céline Pisapia; Benedicte Ménez; Nathaniel S. Hwang; Frederik Tielens; Marine Livrozet; Elise Boudierlique; Jean-Philippe Haymann; Emmanuel Letavernier; Louis Hennet; Vincent Frochot; Michel Daudon
Pt(II) complex of Schiff base derived from L-phenylalanine and furfuraldehyde in the presence of 8-hydroxyquinoline: Structural analysis, composition of complex and biological activity	Özlen Altun; Melike Özge Koçer
Synthesis of raspberry-like structure zinc oxide nanoparticles via glycol-solvothermal, low-temperature solvothermal and coprecipitation methods	Khairul Basyar Baharudin; Nurulhuda Abdullah; Darfizzi Derawi
Nanofibrous biologically soluble scaffolds as an effective drug delivery system	Chingis Daulbayev; Fail Sultanov; Maiya Aldasheva; Aliya Abdybekova; Baglan Bakbolat; Mohammad Shams; Aruzhan Chekiyeva; Zulkhair Mansurov
TiO <sub>2</sub> , ZnO, and SnO <sub>2</sub> -based metal oxides for photocatalytic applications: principles and development	Olga Ishchenko; Vincent Rogé; Guillaume Lamblin; Damien Lenoble; Ioana Fechete
Les noms des éléments nous racontent leur histoire	Pierre Avenas
Chemists and physicists behaving badly: The shadow side of two elemental discoveries	Marco Fontani; Mary Virginia Orna; Mariagrazia Costa
Synthesis, structural characterization, biological activity and molecular docking study of 4,7-dihydroxycoumarin modified by aminophenol derivatives	Žiko B. Milanović; Zoran S. Marković; Dušan S. Dimić; Olivera R. Klisurić; Ivana D. Radojević; Dragana S. Šeklić; Marko N. Živanović; Jasmina Dimitrić Marković; Milanka Radulović; Edina H. Avdović
Synergistic effect of octadecyl ammonium oxide and oleate amide propyl betaine and development of a foam drainage reagent for natural gas production	Minlan Gao; Yijing Jia; Shiyi Lv; Sanbao Dong; Manxue Wang; Shidong Zhu; Jie Zhang; Gang Chen
Synthesis of biosourced silica–Ag nanocomposites and amalgamation reaction with mercury in aqueous solutions	Seitkhan Azat; Elizabeth Arkhangelsky; Thanasis Papatheanasiou; Antonis A. Zorpas; Askar Abirov; Vassilis J. Inglezakis
La classification des « corps simples » par la loi périodique interprétée en 1890 par Paul Sabatier	Armand Lattes

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**Table 3.** (continued)

Title	Authors
Investigation of the corrosion inhibition properties of new phenyl aldehyde organic layers functionalized with different amino alcohols electrodeposited on copper	Ana Chira; Bogdan Bucur; Gabriel-Lucian Radu
First application of chiral phosphotriesters in asymmetric metal catalysis: enantioselective Zn-catalyzed hydrosilylation of ketones in the presence of BINOL-derived phosphates	Alphonsine Ngo Ndimba; Thierry Roisnel; Gilles Argouarch; Claudia Lalli
Synthesis of barium alkylbenzene sulfonate and its behavior as a flow improver for crude oil	Zhichao Zhou; Wangyuan Zhang; Futian Zhang; Xuanming Zhang; Sanbao Dong; Jie Zhang; Chen Gang

**Table 4.** The most cited articles in 2020–2021

Title	Authors
Whitlockite structures in kidney stones indicate infectious origin: a scanning electron microscopy and Synchrotron Radiation investigation	Dominique Bazin; Robert J. Papoular; Erik Elkaim; Raphael Weil; Dominique Thiaudière; Céline Pisapia; Benedicte Ménez; Nathaniel S. Hwang; Frederik Tielens; Marine Livrozet; Elise Boudelique; Jean-Philippe Haymann; Emmanuel Letavernier; Louis Hennet; Vincent Frochot; Michel Daudon
Investigations on Mediterranean biomass pyrolysis ability by thermogravimetric analyses: thermal behaviour and sensitivity of kinetic parameters	Nourelhouda Boukaous; Lokmane Abdelouahed; Mustapha Chikhi; Chetna Mohabeer; Abdeslam Hassen Meniai; Bechara Taouk
Synthesis of biosourced silica–Ag nanocomposites and amalgamation reaction with mercury in aqueous solutions	Seitkhan Azat; Elizabeth Arkhangelsky; Thanasis Papathanasiou; Antonis A. Zorpas; Askar Abirov; Vassilis J. Inglezakis
DFT/TD-DFT computational study of the tetrathiafulvalene-1,3-benzothiazole molecule to highlight its structural, electronic, vibrational and non-linear optical properties	Assia Midoune; Abdelatif Messaoudi
Optimization of a cationic dye desorption from a loaded-lignocellulosic biomass: factorial design experiments and investigation of mechanisms	Ahmed Amine Azzaz; Salah Jellali; Mejdji Jeguirim; Latifa Bousselmi; Zohra Bengharez; Hanene Akrouf
Bioremediation of hexavalent chromium by an indigenous bacterium <i>Bacillus cereus</i> S10C1: optimization study using two level full factorial experimental design	Amina Nacer; Souheyla Boudjema; Mahmoud Bouhaous; Nacer Boudouaia; Zohra Bengharez

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Title	Authors
Synthesis, structural characterization, biological activity and molecular docking study of 4,7-dihydroxycoumarin modified by aminophenol derivatives	Žiko B. Milanović; Zoran S. Marković; Dušan S. Dimić; Olivera R. Klisurić; Ivana D. Radojević; Dragana S. Šeklić; Marko N. Živanović; Jasmina Dimitrić Marković; Milanka Radulović; Edina H. Avdović
Synthesis of barium alkylbenzene sulfonate and its behavior as a flow improver for crude oil	Zhichao Zhou; Wangyuan Zhang; Futian Zhang; Xuanming Zhang; Sanbao Dong; Jie Zhang; Chen Gang
Evaluation of the influence of olive mill waste on soils: the case study of disposal areas in Crete, Greece	Maria K. Doula; Antonis Papadopoulos; Chronis Kolovos; Olga Lamnatou; Antonis A. Zorpas
Effect of reaction conditions on the activity of novel carbon nanofiber-based Cu/ZrO <sub>2</sub> catalysts for CO <sub>2</sub> hydrogenation to methanol	Israf Ud Din; Maizatul S. Shaharun; A. Naeem; Mshari A. Alotaibi; Abdulrahman I. Alharthi; Qazi Nasir

Looking forward to receiving outstanding contributions from you, I wish you all a happy and most successful year 2022 with exciting science!

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