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The Journal "European Reviews of Chemical Research" (2014–2024): A Thematic Review of Published Research over the last 10 years

Liudmila V. Malygina [a, *], Semyon N. Gonta [a]

[a] Sochi State University, Sochi, Russian Federation

Abstract

This article is devoted to the ten-year (2014–2024) results of the publication activity of the journal "European Reviews of Chemical Research" and its authors. The materials for this work are the studies that were published in the journal in the period from 2014 to 2024. The research methodology is presented by both general scientific and special research methods. In the article, the authors provide a thematic analysis of the works that were published in the journal "European Reviews of Chemical Research". In conclusion, the authors note that over the ten-year period of the journal's existence, 76 articles on various areas of chemical science were published in it. Separately, the authors note the language ratio of publications, where 80 % of all articles were published in English and the remaining 20 % were published in Russian, which allows expanding the reach of the journal's readership.

Keywords: chemistry, chemical research, scientific journal, chemical journal, research review, intellectual capital, publication activity, work results.

1. Introduction

Nowadays the journal "European Reviews of Chemical Research" is an open chemical scientific publication, publishing various studies in the field of chemical science, as well as publishing studies on multidisciplinary issues.

The purpose of this work is to provide a thematic review of studies that were published in the journal "European Reviews of Chemical Research" in the period from 2014 to 2024.

This article is an attempt by the author to summarize the publication activity of the journal "European Reviews of Chemical Research" and its authors over the past 10 years (2014-2024).

2. Materials and methods

The materials for this study were studies that were published in the journal "European Reviews of Chemical Research" in the period from 2014 to 2024.

The research methodology is based on general scientific and special research methods. General scientific research methods are represented by: analysis, synthesis, induction, deduction. Special research methods are represented by: content analysis (to analyze the content of studies that were published in the journal), bibliographic method (in terms of selection, classification and ranking of studies that were published in the journal), and narrative method (to form the narrative line of this work).

* Corresponding author
E-mail addresses: lmalygina@mail.ru (L.V. Malygina)

3. Discussion

The journal was founded in 2014 and is still being published. In 2014, 2 issues of the journal were published, then in 2015 and 2016, 4 issues of the journal were published each year. From 2017 to 2019, the journal was published twice a year. From 2020 to the present, the journal is published once a year (issue in December) (Figure 1).

The mission of the journal "European Reviews of Chemical Research" is to present the results of modern researches in the chemistry. The priority direction of development journal is coverage of related multidisciplinary problems, the use of new methods and approaches in the context of practical application.

The journal's objective is to familiarize the specialists and all interested readers with the contemporary achievements in chemical sciences, developing the inter-institutional and international scientific cooperation in the framework of the research problems, improving research ethics and publication activity of young researchers.

Fig. 1. Cover of the chemical scientific journal "European Reviews of Chemical Research".

Currently, review articles that are devoted to various aspects of the analysis of published studies (Amobonye et al., 2024; Çalik, Wiyarsi, 2021; Ültay, Çalik, 2012) or the publication activity of journals are quite common. This type of scientific work is not only purely review in nature for the formation of certain conclusions, but also helps new (often young) researchers to better navigate the area of scientific interests that interests them (Mamadaliev, 2023), enhancing their research potential (Shtuts i dr., 2023). Thus, this article is review and at the same time introductory in nature, and will be useful not only for potential authors of the journal and researchers, but also for a wide range of readers.

4. Results

For ease of understanding and ease of navigation through the work, all studies were distributed by year of publication and subject matter.

2014 year.

Defining the Conditions of 3D Printing Using Abs Plastic was presented in the paper of Marat I. Abdullin, Azamat A. Basyrov, Sergey N. Nikolaev, Yuliya A. Koksharova and Nikolay V. Koltaev (Abdullin et al., 2014). Antimicrobial Potential of Nicotinic Acid Derivatives Against Various

Pathogenic Microbes was presented in the paper of Mohammad Asif (Asif, 2014). Heterofunctional Condensation of α,ω – Bis (Aminodimethylsilil) Tetramethyl – Cyclodisilazanes With Dichloranhydride Tereftalic Acids and α,ω – Bis (β – Carboxyethyl) Dimethylsiloxanes was presented in the paper of Lili Janiashvili, Giuli Andronikashvili, Archil Varadashvili and Mzia Gagolishvili (Janiashvili et al., 2014). Repellency and Antifeedant of Ticks Through Ethno Plant Extracts and Ivermectin on Buffalo Calves was presented in the paper of Mehmood A. Kalwar, Hakim A. Sahito, Barkat A. Kalwar, Madan Lal and Shahnawaz Fazlani (Kalwar et al., 2014). Microbiological Synthesis of 2H- and 13C-Labeled Amino Acids and Proteins With Various Levels of Isotopic Enrichment was presented in the paper of Oleg Mosin, Ignat Ignatov, Dmitry Skladnev and Vitaly Shvets (Mosin et al., 2014b). Biosynthesis of 2H-labeled Photochrome Trans-membrane Protein Bacteriorhodopsin by Halobacterium Halobacterium Halobium was presented in the paper of Oleg Mosin and Ignat Ignatov (Mosin, Ignatov, 2014).

The Thermodynamic Estimation of Forming Possibility of Cu2–xSe thin Films and Investigation of the Composition and Morphology was presented in the paper of Ekaterina A. Fedorova, Larisa N. Maskaeva and Vyacheslav F. Markov (Fedorova et al., 2014). Computer Simulation as a way to Determine the Conditions of Purposeful Synthesis of AgxPb1 – xS Solid Solutions by Hydrochemical Deposition was presented in the paper of Aleksey Y. Kirsanov, Vyacheslav F. Markov and Larisa N. Maskaeva (Kirsanov et al., 2014). Biosynthetic incorporation of deuterium-labeled aromatic amino acids - [2,3,4,5,6-2H5]phenylalanine, [3,5-2H2]tyrosine and [2,4,5,6,7-2H5]tryptophan into the molecule of transmembrane protein bacteriorhodopsin from halobacterium Halobacterium halobium E was presented in the paper of Oleg Mosin, Ignat Ignatov, Dmitry Skladnev and Vitaly Shvets (Mosin et al., 2014). Microbiological Synthesis of 2H- and 13C-Labeled Amino Acids and Proteins With Various Levels of Isotopic Enrichment was presented in the paper of Oleg Mosin, Ignat Ignatov, Dmitry Skladnev and Vitaly Shvets (Mosin et al., 2014a).

2015 year.

Methods For Registering Non-Ionizing Radiation Emitted From The Human Body was presented in the paper of Ignat Ignatov, Oleg Mosin, Hugo Niggli, Christos Drossinakis and Georg Tyminski (Ignatov et al., 2015a). Studying of Isotopic Effects of Deuterium in Biological Objects was presented in the paper of Oleg Mosin and Ignat Ignatov (Mosin, Ignatov, 2015). A Sensitive and Selective Chromogenic Organic Reagent 4-hydroxy-3,5-dimethoxy benzaldehyde-4-hydroxy benzoyl hydrazone (HDMBHBH) for the Direct and Derivative Spectrophotometric Determination of Lead (II) was presented in the paper of N. Radhakrishna, C. Viswanatha, K. Ramakrishna Reddy and N. Devanna (Radhakrishna et al., 2015). Chemical bath deposition of In2S3 thin films was presented in the paper of Stanislav S. Tulenin, Vyacheslav F. Markov, Larisa N. Maskaeva and Mikhail V. Kuznetsov (Tulenin et al., 2015). Composition, Structure, Morphology of thin Films Produced by Hydrochemical Deposition in PbSe-CdSe System was presented in the paper of Nina V. Zarubina, Ivan V. Zarubin, Larisa N. Maskaeva and Vyacheslav F. Markov (Zarubina et al., 2015).

The Evaluation of the Mathematical Model of Interaction of Electrochemically Activated Water Solutions (Anolyte and Catholyte) with Water was presented in the paper of Ignat Ignatov, Oleg Mosin, Georgi Gluhchev, Stoil Karadzhov, Georgi Miloshev and Nikolay Ivanov (Ignatov et al., 2015). Deuterated Methylotrophic Biomass as a Substrate for Microbiological Synthesis of 2H-Labeled Purine Ribonucleoside Inosine by Chemoheterotrophic Bacterium Bacillus Subtilis B-3157 was presented in the paper of Oleg Mosin and Ignat Ignatov (Mosin, Ignatov, 2015). Determination of Trace Amount of Cd (II) by using a Chromogenic reagent Diacetylmonoxime-3-amino-4-hydroxy benzoyl hydrazone (DMAHBH) with UV-Visible Spectrophotometry was presented in the paper of B.N. Nagalaxmi, C. Viswanatha, K. Ramakrishna Reddy, K.B. Chandrasekhar and N. Donappa (Nagalaxmi et al., 2015). ZnS Films: Thermodynamic Justification of Possibility for Hydrochemical Precipitation, Synthesis, Microstructure, and Morphology was presented in the paper of Anna I. Shemyakina, Ragneta Kh. Saryeva, Larisa N. Maskaeva and Vyacheslav F. Markov (Shemyakina et al., 2015). Investigation of Sulfur Removal from Drilling Fluid was presented in the paper of Mostafa Mohammadi Shalmani and Farshad Farahbod (Shalmani, Farahbod, 2015). Synthesis, Structure/Spectra Correlation and Chromism Studies of some Novel Monomethine and bis-Monomethine Cyanine Dyes was presented in the paper of H.A. Shindy, M.M. Goma and N.A. Harb (Shindy et al., 2015).

The Development of Biosynthesis of 2H- and 13C-labeled Amino acids and Proteins with Various Levels of Isotopic Enrichment Using Bacterial Objects was presented in the paper of Oleg Mosin, Ignat Ignatov, Dmitry Skladnev and Vitaly Shvets (Mosin et al., 2015). Physical-Chemical

Properties of Mountain Water from Bulgaria after Exposure To a Fullerene Containing Mineral Shungite and Aluminosilicate Mineral Zeolite was presented in the paper of Ignat Ignatov and Oleg Mosin (Ignatov, Mosin, 2015a). Synthesis and Photosensitization Evaluation of Some Novel Polyheterocyclic Cyanine Dyes was presented in the paper of H.A. Shindy, A.K. Khalafalla, M.M. Goma and A.H. Eed (Shindy et al., 2015).

The Methods of non-equilibrium Spectrum (NES) and Differential non-equilibrium Spectrum (DNES) in Studying the Interaction of Carbonaceous Mineral Shungite and Aluminosilicate Mineral Zeolite with Water was presented in the paper of Ignat Ignatov and Oleg Mosin (Ignatov, Mosin, 2015). Studying the Biosynthesis of 2H-labeled purine Ribonucleoside Inosine by a Chemoheterotrophic Bacterium Bacillus subtilis B-3157 was presented in the paper of Oleg Mosin and Ignat Ignatov (Mosin, Ignatov, 2015). A Review Fundamentals in Colors, Dyes and Pigments Chemistry was presented in the paper of H.A. Shindy (Shindy, 2015).

2016 year.

Hydrochemical Deposition of Cu2S Films Using Thiocarbamide was presented in the paper of Irina A. Glukhova, Larisa N. Maskaeva, Vyatcheslav F. Markov, Stanislav S. Tulenin and Anna I. Shemyakina (Glukhova et al., 2016). The Reactions of Condensation–Dehydration Occurring in Aqueous Alkaline Solutions at Pн = 9–11 and T = 65–95 0C in the Process of Modeling of Primary Hydrosphere was presented in the paper of Ignat Ignatov and Oleg Mosin (Ignatov, Mosin, 2016).

Synthetic Methods and Exploring Biological Potential of Various Substituted Quinoxalin-2-one Derivatives was presented in the paper of Mohammad Asif (Asif, 2016a). Viscosity Properties of an Aqueous Suspension Pd(NO3)2-Al2O3-La2O3-HAc-H2O for Afterburning Catalysts was presented in the paper of Alena E. Bezdetnova, Vyacheslav F. Markov, Larisa N. Maskaeva and Viktor I. Zelenin (Bezdetnova et al., 2016). Ligand Background of the Reaction Mixture as a Factor of the CdS – PbS thin Films Formation by Chemical Bath Deposition was presented in the paper of Natalia A. Forostyanaya, Anastasia D. Kutyavina, Maria A. Ponomareva, Anastasia A. Rozhina, Polina O. Mihnevich, Larisa N. Maskaeva and Vyacheslav F. Markov (Forostyanaya et al., 2016).

A Review on a Highly Important Hetrocycle Quinazolinone Compounds and their Diverse Biological Activities was presented in the paper of Mohammad Asif (Asif, 2016). Boric Acid Catalyzed Synthesis of 2-substituted Benzoxazoles in Aqueous Media was presented in the paper of P. Thriveni, K.P.V. Subba Rao, M. Hari Krishna and C. Viswanatha (Thriveni et al., 2016). Thermal Activation of Iodine-Containing PbSe thin Films was presented in the paper of Victoria M. Yurk, Larisa N. Maskaeva, Vyacheslav F. Markov and Victoria S. Ustugova (Yurk et al., 2016).

Catalytic ignition and quenching of hydrogen-air mixtures on platinum surfaces with detailed kinetics and transport was investigated in the paper of Junjie Chen (Chen, 2016). Kinetic Features of Cadmium Sulfide Deposition from Aqueous Solutions with Various Ligand Backgrounds was presented in the paper of Natalia A. Forostyanaya, Anastasia D. Kutyavina, Larisa N. Maskaeva and Vyacheslav F. Markov (Forostyanaya et al., 2016). Kinetic Aspects of Hydrochemical Deposition of Solid Phase Ag2S were presented in the paper of Tatiana V. Vinogradova, Irina A. Glukhova, Larisa N. Maskaeva and Vyatcheslav F. Markov (Vinogradova et al., 2016).

2017 year.

Competence of Hyptis Suaveolens Leaf Extract on Treatment of Ecto-Parasites (Fleas) on Farm Animals (Goat) was presented in the paper of M. Chindo and I.A.A. Ibrahim (Chindo, Ibrahim, 2017). Evaluation of the Effects of Psidiumguajava Leave Extracts on Biochemical Indices of two Liver Enzymes and Some Haematological Parameters in Rabbits was presented in the paper of I.A.A. Ibrahim and M. Chindo (Ibrahim, Chindo, 2017). Chemical Characterisation of Scrap Brass for Jewellery Making was presented in the paper of Ruth Joel, Enoch G. Wuritka, Aje Tokan and Atuman S. Joel (Joel et al., 2017). Synthesis and Studies on New Dimethine and Tetramethine Cyanine Dyes was presented in the paper of H.A. Shindy, A.K. Khalafalla, M.M. Goma and A.H. Eed (Shindy et al., 2017).

The synthesis of 2,3-disubstituted quinazolinone derivatives using silver triflate as an effective catalyst at room temperature was presented in the paper of M. Hari Krishna and P. Thriveni (Hari Krishna, Thriveni, 2017). Chemical deposition and study of thin semiconductor films in the Cu2S–In2S3 system was presented in the paper of Stanislav S. Tulenin, Andrei V. Pozdun, Konstantin A. Karpov, Darya A. Novotorkina, Michael S. Rogovoi, Larisa N. Maskaeva and Vyacheslav F. Markov (Tulenin et al., 2017). A theoretical study of the reactivity and regioselectivity of the addition reaction of HCl to alkenes, a study of Markovnikov's rule was

presented in the paper of Abdellah Zeroual, Mohamed M. El idrissi, Mohamed Zoubir and Ahmed Benharref (Zeroual et al., 2017). A theoretical study of the chemo- and regioselectivity of the oxidation reaction of bicyclo[3.2.0]hept-2-en-6-one with hydrogen peroxide was presented in the paper of M. Zoubir, M. El Idrissi, R. El Ajlaoui, A. El Haib, S. Abouricha d, A. Zeroual, A. Benharref and A. El Hajbi (Zoubir et al., 2017).

2018 year.

A quantum-chemical topological analysis of the formation of the C-O bond in the 32CA reaction involving the zwitterionic type was presented in the paper of Abdelilah Benallou, Zouhair Lakbaibi, Habib El Alaoui El Abdallaoui and Hocine Garmes (Benallou et al., 2018b). A theoretical explanation of the mechanism and regio-stereoselectivity of the cycloaddition between nitronylides and electron-deficient methacrylonitrile was presented in the paper of Abdelilah Benallou, Habib El Alaoui El Abdallaoui, Hocine Garmes (Benallou et al., 2018a).

A DFT study of the mechanism, regio- and stereoselectivity of the epoxidation reaction of methyl 2-((2R,4aR)-4a,8-dimethyl-1,2,3,4,4a,5,6,7-octahydronaphthalen-2-yl)acrylate using m-CPBA was presented in the paper of M. El Idrissi, A. El Haib, Y. Hakmaoui, M. Zoubir, M. El Ghozlani, S. Mouatarif, N. Ourhriss and R. El Ajlaoui (El Idrissi et al., 2018). A study of the impact of pest control agents used in closed production facilities on food quality using SPME in combination with GC-MS was presented in the paper of A. Lakhili, M. Fekhaoui, A. Bellaouchou, L. Tahri, A.E. Abidi and M. El idrissi (Lakhili et al., 2018). Synthesis and visible spectral studies of new pyrazolo/oxazolemerocyanine dyes were presented in the paper of H.A. Shindy, M.A. El-Maghraby, M.M. Goma and N.A. Harb (Shindy et al., 2018).

Purification of toxic gaseous HCN emissions by gas-phase O2 oxidation: quantum chemical modeling was presented in the paper of Abdelilah Benallou, Habib El Alaoui El Abdallaoui and Hocine Garmes (Benallou et al., 2018). Extraction and phytochemical analysis of Vernonia Amygdalina (Shuwaka) leaves were reviewed in the paper of I.A.A. Ibrahim, M. Chindo, M.M. Mohammad, A.A. Faisal, H. Musa (Ibrahim et al., 2018). Analysis Phytochemical and antimicrobial activity of Ficus Plat Platyphylla stem bark extract. Extraction and phytochemical analysis of Vernonia Amygdalina (Shuwaka) leaves was presented in the paper of I.A.A. Ibrahim, M. Chindo, M.M. Mohammad, A.A. Faisal and H. Musa (Ibrahim et al., 2018a). Regioselective and stereoselective synthesis of 2,5-dichloro-2,5,9,9-tetramethyl-decahydro-benzocycloheptene via stepwise addition reactions between α-himachalene and HCl: an experimental and theoretical study was presented in the paper of N. Ourhriss, A. Zeroual, C. A. Gadhi, A. Benharref, A. Abourriche, A. Bennamara and A.El Hajbi (Ourhriss et al., 2018). Novel polyheterocyclic cyanine dyes: synthesis, photosensitization and solvent/electron correlation transitions were reviewed in the paper of H.A. Shindy (Shindy, 2018).

2019 year.

Origin of life in hot mineral water of hydrothermal springs and ponds. Effect of hydrogen and hydrogen produced. Spectral, pH and ORP analyses were presented in the paper of Ignat Ignatov (Ignatov, 2019). The results of IR spectroscopy of CortiNon+ on the development of experimental Graffiti tumor in hamsters were presented in the work of Ignat Ignatov, Reneta Toshkova, Georgi Gluhchev and Elisaveta Tzvetkova (Ignatov et al., 2019). Physicochemical and microbiological characteristics of thermal healing springs of the Burgas region were presented in the paper of Nedyalka Valcheva (Valcheva, 2019).

A theoretical study of the regioselectivity of the reaction between diethyl (trichloromethyl-1)phosphonate and triethyl phosphite using the DFT method was presented in the paper of A. Barhoumi, M.El idrissi, A. Zeroual, S. Bakkas, A. El Hajbi and A. Tounsi (Barhoumi et al., 2019). Quantum mechanical descriptors of indazole-containing derivatives using the DFT method were considered in the paper of H. Essassaoui, M. El idrissi, R. Bouhdadi, M. Echajia, A. Zeroual, A. Tounsi and M. Mbarki (Essassaoui et al., 2019). The experimental and theoretical development of the phase diagram of the ternary system Ni(NO3)2-Al(NO3)3-H2O at 20°C was presented in the work of M. Jouaiti, B. Mekkaoui, A. Barroug, M. El idrissi, R. Lbibb, L. Lâallam, A. Jouaiti (Jouaiti et al., 2019). A review of the synthesis of various classes of polyheterocyclic cyanine dyes was presented in the paper of H.A. Shindy (Shindy, 2019).

2020 year.

A molecular docking study of primaquine-favipiravir-based compounds as potential inhibitors of the main COVID-19 protease was presented in the paper of Olawale F. Akinyele,

Emmanuel G. Fakola, Oluwatoba E. Oyeneyin, Omolara O. Adeboye, Ayowole O. Ayeni, Justinah S. Amoko and Temitope A. Ajayeoba (Akinyele et al., 2020). The biochemical effect of aqueous extract of Abeere leaves (Hunteria umbellata) on liver enzymes of white rats was examined in the paper of Iliyasu A.A. Ibrahim and Labaran A. Magashi (Ibrahim, Magashi, 2020). Solvatochromic and halochromic evaluation of some biheterocyclic cyanine dyes was reviewed in the paper of H.A. Shindy, M.A. El-Maghraby and F.M. Eissa (Shindy et al., 2020).

2021 year.

A mini-review of the biological potential of pyrazole and triazole derivatives was presented in the work of Mohammad Asif (Asif, 2021). Isolation and identification of bacteria from used masks at Bauchi State University, Gadau was presented in the paper of Iliyasu A. A. Ibrahim, Hafizah Sani Sulaiman, Sulaiman Maikudi and Habibu Musa (Ibrahim et al., 2021).

2022 year.

Innovations in the preliminary preparation of biological samples in chemical-toxicological studies were studied in the work of Viktor N. Bekhterev, Svetlana N. Gavrilova, Eugenia G. Neskubina and Igor N. Shipanov (Bekhterev et al., 2022).

2024 year.

A review of methods for increasing the thermal conductivity of phase-change materials was presented in the paper of Ashraf AL-Nassar and Andrei N. Makeev (AL-Nassar, Makeev, 2024). Exotic multichannel and position-sensitive high-resolution methods for physicochemical archaeometry were reviewed in the paper of Oleg V. Gradov and Andrew A. Skrynnik (Gradov, Skrynnik, 2024).

In last time the journal has also published papers that examine the biographies of chemists who have been significant for the development of science (Mamadaliev, 2022; Taran, 2023; Cherkasova, 2023; Mamadaliev, 2024).

Languages of publications.

Data on the languages of articles published in the journal “European Reviews of Chemical Research” from 2014 to 2024 are presented in Table 1.

Table 1. Data on the language distribution of publications in the journal “European Reviews of Chemical Research” from 2014 to 2024

№	Language of publication	Number of articles	Percentage of all publications
1.	English	61	80 %
2.	Russian	15	20 %
3.	Total number of all articles: 76.		

Thus, having publications in two languages at its disposal, the journal “European Reviews of Chemical Research” solves the important task of expanding the base of potential readers. The English language is focused on presenting research results at the global level, and the Russian language is focused on presenting research results at the level of the post-Soviet space, since the dominance of the Russian language here is still great.

5. Conclusion

Thus, based on the conducted review study, it can be concluded that over the entire period of the journal's existence, 76 articles on a wide range of topics have been published. The language coverage of publications is also impressive. Most of all works were published in English (80 %), which helps in the international promotion of the research results presented in them. Also, some of the articles were published in Russian (20 %), which also increases the dissemination of knowledge in the post-Soviet space.

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