

## Research Article

# INTERPLAY OF CRISES: MAPPING THE SCIENTIFIC LANDSCAPE OF INTERSECTING THEMES IN THE COVID-19 PANDEMIC AND THE RUSSIAN-UKRAINE WAR

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## ABSTRACT

**Background:** In February 2022, Russian Federation troops attacked Ukraine on several fronts, thereby starting a war that continues to this day. The invasion garnered worldwide opposition, leading to sanctions imposed on politicians and corporations in the Russian Federation. The war has also left its mark on art, culture, and science.

**Methods:** In this study, we analyse the war in Ukraine and how scholars around the world have examined it. The analysis is divided into three parts: (1) a comprehensive review of the number of articles and conference proceedings related to the Russia-Ukraine war in the Web of Science (WoS) disciplines/categories; (2) the main topics and directions chosen by the authors; and (3) a summary of studies focused on COVID-19 during the war. The latter topic is particularly important, as the COVID-19 situation in Ukraine was already complex before the 2022 invasion, and the ongoing military actions have further exacerbated it. For the above analyses, we utilised a WoS database from 2014 (covering the first Russian attack on Crimea, Donetsk and Luhansk regions) through December 2022.

**Results and Conclusions:** For academics, the war in Ukraine has become a significant subject of study. As it proliferated, culminating in a direct mass attack in February 2022, research efforts involved more and more scientific fields. These fields range from political science and sociology research to psychology and marketing to engineering science or supply chains.

## 1 INTRODUCTION

The academic study of war, particularly in the humanities, such as history or sociology, includes assessments of their causes and consequences.<sup>1</sup> War is a phenomenon that occurs when two or more states or groups of people engage in armed action to achieve their political, economic, or military objectives.<sup>2</sup> Wars can be waged at different levels of intensity and scale, from local conflicts to global world wars.<sup>3</sup> Historians and sociologists study the causes of wars, such as ideological, economic, religious, or ethnic conflicts, and the different social and political groups play in this. They also investigate the effects of wars on societies and states, including demographic changes, economic changes, and political and cultural changes.<sup>4</sup> In the natural sciences, such as biology or ecology, wars are studied in terms of how they affect the environment and ecosystems.<sup>5</sup> This can include the effects of wars on biodiversity and animal population structure, as well as on the health of humans and other living beings.<sup>6</sup> In general, science describes wars as complex phenomena that affect many aspects of social and natural life.

The war in Ukraine began in 2014 with the Russian annexation of Crimea and the support of pro-Russian separatists in the Donbas in eastern Ukraine.<sup>7</sup> The initial conflict took the form of a guerrilla war and continues to this day.<sup>8</sup> The war has left thousands of people dead and forced millions from their homes. The conflict is also an ongoing source of tension between Russia and the West.<sup>9</sup> The war has evidently hurt Ukraine's economy.

- 1 Laura Eras, 'War, Identity Politics, and Attitudes toward a Linguistic Minority: Prejudice against Russian-Speaking Ukrainians in Ukraine between 1995 and 2018' [2022] *Nationalities Papers* doi:10.1017/nps.2021.100.
- 2 Antonello Zanfei, 'How Exogenous Is War? The Links between Economic, Military, Trade and Industrial Policies in the Upsurge of Russia-Ukraine Conflict' (2022) 49 *Journal of Industrial and Business Economics* 759; Vu M Ngo and others, 'Public Sentiment towards Economic Sanctions in the Russia-Ukraine War' (2022) 69 *Scottish Journal of Political Economy* 564.
- 3 Orysia Kulick, 'Gender and Violence in Ukraine: Changing How We Bear Witness to War' (2022) 64(2-3) *Canadian Slavonic Papers* 190.
- 4 Verbytska P and Kuzmyn R, 'Between Amnesia and the ``War of Memories``: Politics of Memory in the Museum Narratives of Ukraine' (2019) 7 *Muzeologia a Kulturne Dedicstvo-Museology and Cultural Heritage* 23.
- 5 Giovanni Tortorici and Francesco Fiorito, 'Building in Post-War Environments' (2017) 180 *Procedia Engineering* 1093.
- 6 Joshua H Daskin, Marc Stalmans and Robert M Pringle, 'Ecological Legacies of Civil War: 35-year Increase in Savanna Tree Cover Following Wholesale Large-mammal Declines' (2016) 104 *Journal of Ecology* 79.
- 7 Ilya Nuzov, 'The Dynamics of Collective Memory in the Ukraine Crisis: A Transitional Justice Perspective' (2017) 11 *International Journal of Transitional Justice* 132.
- 8 Anna Matveeva, 'No Moscow Stooges: Identity Polarization and Guerrilla Movements in Donbass' (2016) 16 *Southeast European and Black Sea Studies* 25; Alex Marshall, 'From Civil War to Proxy War: Past History and Current Dilemmas' (2016) 27 *Small Wars & Insurgencies* 183.
- 9 Theodor Tudoroiu, 'Unfreezing Failed Frozen Conflicts: A Post-Soviet Case Study' (2016) 24 *Journal of Contemporary European Studies* 375; Morena Skalamera, 'Sino-Russian Energy Relations Reversed: A New Little Brother' (2016) 13-14 *Energy Strategy Reviews* 97 doi:10.1016/j.esr.2016.08.005.

Many regions, factories, and human dwellings have been destroyed, and the conflict has discouraged economic investment in the country. The war in Ukraine is still ongoing and remains one of the most serious armed conflicts in the world. In 2022, it escalated to other areas of Ukraine.<sup>10</sup>

Also, the already limited success in vaccinating the population of Ukraine against COVID-19 has slowed and, in some areas, paused. Also, the rapid internal and external migration of people has made the COVID-19 pandemic analysis even more difficult to track and control.<sup>11</sup>

The current research on the COVID-19 pandemic and the Russian-Ukrainian War using bibliometric analysis is limited due to the recency of the conflict and the dynamically changing research environment. Nevertheless, existing works on the COVID-19 pandemic in the social sciences, such as mapping the research landscape of COVID-19 from a social sciences perspective: a bibliometric analysis, may lay the groundwork for future studies analysing this intersection of topics.<sup>12</sup> Such an analysis is timely because the war is expected to have significant, reciprocal impacts with the pandemic, affecting global health, food security, and economic stability, and bibliometric methods can help to understand research and public health trends and identify gaps in knowledge.<sup>13</sup>

This paper aims to analyse eight years of war (2014-2022) - including ten months and the COVID-19 pandemic (February-December 2022) in Ukraine in the light of scientific papers and to illustrate how researchers from around the world have seen the reality, analysed and described it. In the bibliographic analysis, we focused on three elements: the Russian-Ukrainian War in Web of Science disciplines (categories) (section 3.1), the description of disciplines and topics subjectively chosen by authors (section 3.2), and research focusing on COVID-19 during the war (section 3.3). Such an in-depth analysis will provide insight into trends and reveal research gaps.

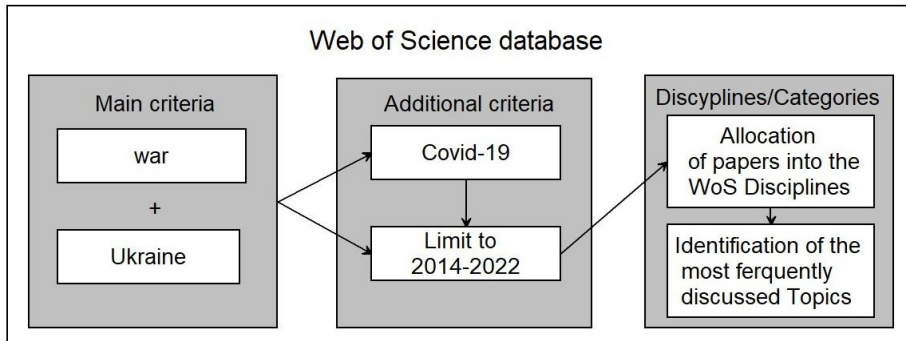
- 10 Eliot A Cohen, 'Ukraine Is Winning the War...: And the West Doesn't Want to Recognize it' (2022) 72(1-3) *Osteuropa* 179; Kai-Olaf Lang, 'In Turbulenzen' (2022) 72(4-5) *Osteuropa* 117.
- 11 Shubhajeet Roy, Vivek Bhat and Ahmad Ozair, 'Overseas Medical Students in Ukraine and War-Related Interruption in Education: Global Health Considerations from India' (2022) 88(1) *Annals of Global Health* 98; Ubydul Haque and others, 'The Human Toll and Humanitarian Crisis of the Russia-Ukraine War: The First 162 Days' (2022) 7(9) *BMJ Global Health* e009550; Andriy Haydabrus and others, 'C Current War in Ukraine: Lessons from the Impact of War on Combatants' Mental Health during the Last Decade' (2022) 19(17) *International Journal of Environmental Research and Public Health* 10536; Elzbieta Ociepa-Kicinska and Malgorzata Gorzalczyńska-Koczkodaj, 'Forms of Aid Provided to Refugees of the 2022 Russia-Ukraine War: The Case of Poland' (2022) 19(12) *International Journal of Environmental Research and Public Health* 7085; Rita Rubin, 'Physicians in Ukraine: Caring for Patients in the Middle of a War' (2022) 327 *Jama-Journal of the American Medical Association* 1318.
- 12 Ashish Chandra, Nida and Ruchi Shukla, 'A Bibliometric Analysis of COVID-19 Across Economics and Business Research Landscape' (2021) 9 *Transnational Marketing Journal* 667.
- 13 Koel Roychowdhury, Radhika Bhanja and Sushmita Biswas, 'Mapping the Research Landscape of Covid-19 from Social Sciences Perspective: A Bibliometric Analysis' (2022) 127 *Scientometrics* 4547.

Considering the novelty of the conflict and the need to conduct, publish, and index research in databases, future studies in this area are highly probable. Documenting the latest publications in relevant academic databases is important to stay informed about emerging research in this field.

## 2 METHODS

In this section, we describe the "mapping" methodology, clearly defining the criteria used to identify trends highlighted by the authors.

The "mapping" methodology employs advanced bibliometric analysis techniques to identify and visualise the main research areas, trends, and the interconnections between different scientific disciplines (referred to as 'categories' in Web of Science - WoS), especially in the context of the war in Ukraine and the COVID-19 pandemic. The publication selection criteria included searching for keywords "war" and "Ukraine," as well as "COVID-19" in titles, abstracts, keywords, and additional keywords (keywords plus) in the WoS database, starting from the year 2014. The goal was to include works that analyse the impact of the 2022 conflict and the pandemic on science and research within a broader historical context of the region. Our analysis workflow is presented in Figure 1.



**Figure 1. Workflow diagram presenting the processing pipeline**

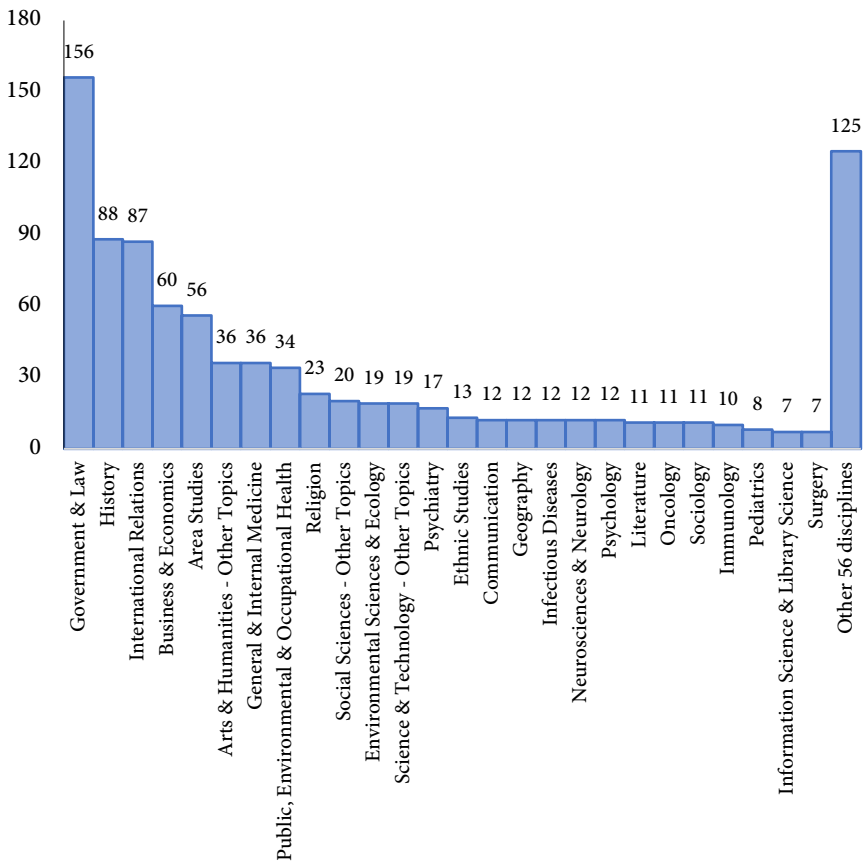
To determine the impact of the war in Ukraine on scientific and scholarly output, articles containing specific wording in the title were analysed from the WoS database starting from 2014. The search included the keywords "war" and "Ukraine." Papers published since 2014 have been incorporating a broader historical context of the region, particularly in relation to the 2022 conflict. Additionally, from these papers, topics (including abstracts, titles, keywords, and keywords plus) that include the term "COVID-19" were analysed. We categorised the 641 identified titles as of 21 December 2022 on three dimensions: the disciplines covered by the authors, the main topics related to the Russia-Ukraine War, and the problems/research related to COVID-19.

### 3 RESULTS

Below, the analyses of the war in Ukraine were divided into discipline topics and COVID-19-related articles.

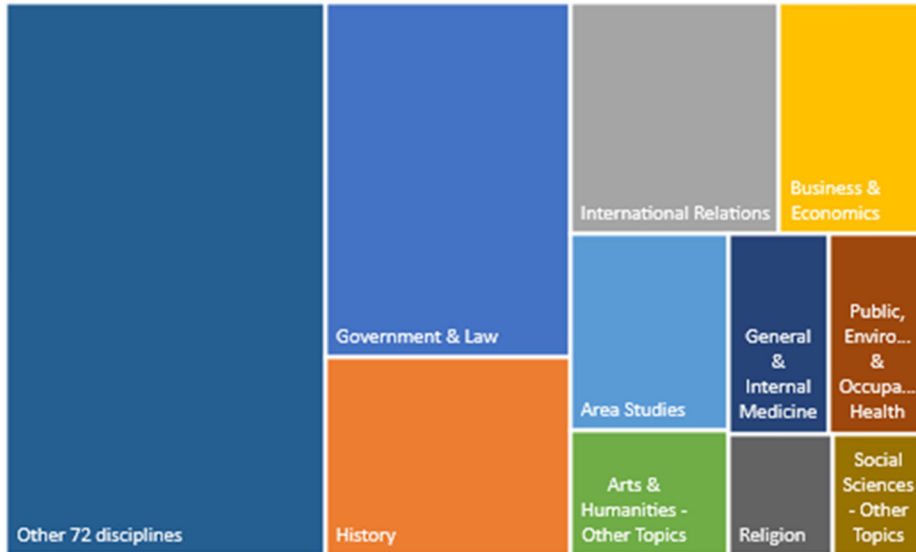
#### 3.1. Disciplines dealing with the Russian-Ukrainian War

Among the 641 articles, the authors were from 1-3 related disciplines, resulting in 914 discipline entries across 82 disciplines. As shown in Figure 2, 28 disciplines had at least seven appearances, while the remaining 54 disciplines accounted for only 125 entries and thus are not represented in Figure 2. The top disciplines focusing on the war in Ukraine are *Government and Law*, *History*, and *International Relations*, which cover more than half of the topics related to the war.



**Figure 2. Distribution of the WoS disciplines of war in Ukraine articles**

To better interpret the results, Figure 3 presents a tree map illustrating the distribution of publications across different disciplines related to war. The figure highlights the top 10 disciplines among the remaining 72. These top 10 disciplines account for 65% of all war-related articles.



**Figure 3. Distribution of the WoS disciplines of war-related articles**

The most frequent themes included aspects of national identity in Ukraine during Euromaidan,<sup>14</sup> war and identity during the conflict in Donbas,<sup>15</sup> war and Memory in Russia, Ukraine and Belarus,<sup>16</sup> and the role of war in the spread of HIV in Ukraine.<sup>17</sup>

In addition to the top disciplines noted above, there were a significant number of economic studies related to one of these disciplines, which is evident from the war's significant impact on Ukraine's economy and development. Armed conflict destroys infrastructure, hindering the production and distribution of goods and services. It can also lead to a decline in foreign investment and reduce trade with other countries, negatively affecting the country's economy. The war in Ukraine has implications for unemployment rates, wage levels, and the overall living standards of the population. Additionally, it may cause population displacement, further impacting the labour market and mobility.

14 Volodymyr Kulyk, 'National Identity in Ukraine: Impact of Euromaidan and the War' (2016) 68(4) *Europe-Asia Studies* 588.

15 Gwendolyn Sasse and Alice Lackner, 'War and Identity: The Case of the Donbas in Ukraine' (2018) 34 *Post-Soviet Affairs* 139.

16 Julie Fedor and others (eds), *War and Memory in Russia, Ukraine and Belarus* (Palgrave 2017).

17 Tetyana I Vasylyeva and others, 'Molecular Epidemiology Reveals the Role of War in the Spread of HIV in Ukraine' (2018) 115 *Proceedings of the National Academy of Sciences of the United States of America* 1051.

Armed conflict can also lead to inflation and disruptions in the financial system. Economic research focused on the war in Ukraine can assist scientists and politicians in gaining a better understanding of the effects of armed conflict on a country's economy and its impact on the living standards of the population and, eventually, its recovery.<sup>18</sup>

As noted, there are also many war-related papers in the field of government and law. In areas controlled by the Ukrainian government, Ukrainian law applies, and the authorities are trying to ensure its enforcement. However, in separatist-controlled areas and areas actively under attack, the situation becomes more complicated. Frequent human rights violations and a lack of respect for basic legal standards exist. The war in Ukraine also has implications for international relations and the application of international law. The conflict has escalated tensions between states and international organisations, which may impact the implementation of international law and adherence to international treaties and agreements. Research on law and war in Ukraine encompasses all of these aspects and can provide insights into how the conflict affects the application of law and the protection of human rights in conflict areas. Furthermore, it serves as a case study for understanding the consequences of law violations in armed conflicts, making it a significant contribution to studying 21st-century European conflicts.<sup>19</sup>

- 18 Eras (n 1); Martin Larys, 'Failing to Fight for the "Russian World": Pre-War Social Origins of the Pro-Russian Secessionist Organizations in Ukraine' [2022] Nationalities Papers doi:10.1017/nps.2022.76; Nataliia Stepaniuk, 'Wartime Civilian Mobilization: Demographic Profile, Motivations, and Pathways to Volunteer Engagement Amidst the Donbas War in Ukraine' [2022] Nationalities Papers doi:10.1017/nps.2021.82; Yuliya Yurchuk, 'Historians as Activists: History Writing in Times of War: The Case of Ukraine in 2014-2018' (2021) 49 Nationalities Papers 691
- 19 Kulyk (n 14); Taras Kuzio, 'Ukraine Over the Edge: Russia, the West and the New "Cold War"' (2019) 71(7) Europe-Asia Studies 1245; Taras Kuzio, 'Armies of Russia's War in Ukraine' (2020) 72(8) Europe-Asia Studies 1436; Vlad Mykhnenko, 'Causes and Consequences of the War in Eastern Ukraine: An Economic Geography Perspective' (2020) 72(3) Europe-Asia Studies 528; Gwendolyn Sasse, 'War and Displacement: The Case of Ukraine' (2020) 72(3) Europe-Asia Studies 347; Gwendolyn Sasse, 'Russia's War against Ukraine: A Trio of Virtual Special Issues' [2022] Europe-Asia Studies doi:10.1080/09668136.2022.2072142; Sasse and Lackner (n 15); Ghasem Torabi, 'Imperial Gamble: Putin, Ukraine, and the New Cold War' (2017) 69(1) Europe-Asia Studies 188; Ghasem Torabi, 'Revolution and War in Contemporary Ukraine: The Challenge of Change' (2018) 70(2) Europe-Asia Studies 303; Jefferson Adams, 'Red Famine: Stalin's War on Ukraine' (2018) 31(4) International Journal of Intelligence and Counterintelligence 805; Daria Platonova, 'Putin's War Against Ukraine: Revolution, Nationalism, and Crime' (2018) 70(3) Europe-Asia Studies 488; Serhy Yekelchuk, 'Total Wars and the Making of Modern Ukraine, 1914-1954' (2018) 87 University of Toronto Quarterly 278; Kees van der Pijl, *Flight MH17, Ukraine and the New Cold War Prism of Disaster* (Manchester Univ Press 2018); Derek Averre and Kataryna Wolczuk, 'Introduction: The Ukraine Crisis and Post-Post-Cold War Europe' (2016) 68(4) Europe-Asia Studies 551; Zerrin Torun, 'From War to Peace in the Balkans, the Middle East and Ukraine' (2019) 71(10) Europe-Asia Studies 1774; Mychailo Wynnyckyj, *Ukraine's Maidan, Russia's War: A Chronicle and Analysis of the Revolution of Dignity* (Ibidem Verlag 2019); Paul D'Anieri, 'Conclusion: Ukraine, Russia, and the West' in P D'Anieri, *Cold War to Cold War, Ukraine and Russia: from Civilized Divorce to Uncivil War* (CUP 2019) 253; Emily D Johnson, 'A War of Songs: Popular Music and Recent Russia-Ukraine Relations' (2020) 79 Russian Review 156; Christopher Gilley, 'Remaking Ukraine after World War II: The Clash of Local and Central Soviet Power' (2022) 74(3) Europe-Asia Studies 513.

### 3.2. Selected topics and research directions related to the Russian-Ukrainian

As noted, the war in Ukraine began in 2014 and continues to this day. The conflict started in eastern Ukraine, where pro-Russian separatists are fighting against Ukrainian government forces. The war is also part of a broader dispute between Russia and Ukraine, which has deep historical and political roots. Internally, the conflict revolves around disagreements regarding the relationships between various regions and ethnic groups within Ukraine and their ties with Russia. Externally, the conflict is intertwined with broader tensions between Russia and the West and is widely seen as a manifestation of Russia's disregard for Ukraine's sovereignty and territorial integrity.

When the conflict initially began in 2014, Russian propaganda worked to reassure its citizens and the world that it was not related to the pro-Russian separatists in Ukraine. Instead, the propaganda framed the conflict in terms of pro-Russia people who felt betrayed by the corrupt Ukrainian government and were fighting to return to their "motherland," Russia. When parts of Ukraine declared independence and expressed a desire to join Russia, the propaganda presented this as a justification for wider conflict to "save the Russian people." This propaganda was primarily circulated within the territory of the Russian Federation. However, the propaganda spread and was not widely accepted in most Eastern countries. Reports about money, weapons, and hired military personnel quickly circulated, and it is now generally acknowledged that the 2014 conflict was inspired and funded by the Russian government.<sup>20</sup> All these topics are reflected in scholarly and scientific publications since 2014.

The 2022 conflict, in contrast to the 2014 guerrilla war, is a full-blown war between two sovereign states. Russian propaganda continues to employ the narrative from 2014, claiming that some Ukrainians wish to join Russia but are being hindered by a corrupt Ukrainian government or a dangerous Western bloc. However, this aspect of the conflict has become more transparent, resulting in widespread support for Ukraine. The war has also prompted international action, including peacekeeping missions and mediation efforts conducted by various international organisations such as the United Nations and the European Union. Ukraine has received assistance in acquiring weapons, uniforms, and other necessary resources. Neighbouring countries, particularly Poland, have provided a haven for temporary or permanent immigrants fleeing the conflict.<sup>21</sup> Again, these topics have been covered in the literature since 2014.

Given the history and nature of the conflict, it is not surprising that a significant number of associated studies are in political science, as shown in Table 1 and Table 2. This is

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20 Adams (n 19); Averre and Wolczuk (n 19); D'Anieri (n 19); Kulyk (n 14); Kuzio (n 19); Mykhnenko (n 19); Platonova (n 19); Sasse (n 19); Sasse and Lackner (n 15); Torabi (n 19); Torun (n 19); Yekelchyk (n 19); van der Pijl (n 19); Wynnycyk (n 19); Johnson (n 19); Gilley (n 19).

21 Emil Edenborg, *Politics of Visibility and Belonging: From Russia's "Homosexual Propaganda" Laws to the Ukraine War* (Routledge 2017); *ibid*, Introduction; *ibid*, 'Ukraine Spectacles and Specters of War', ch 5; Vladimir Ninkovic, 'The War in Ukraine's Donbass: Origins, Context, and the Future' (2022) 30 *Journal of Contemporary European Studies* 590; Domitilla Sagramoso, 'The annexation of Crimea and the war in Ukraine's Donbass: Russia's Neo-Empire expands' in D Sagramoso, *Russian Imperialism Revisited: From Disengagement to Hegemony* (Routledge 2020) ch 14.



understandable, as political science encompasses the study of political mechanisms, processes, and institutions, as well as their impact on individuals and societies. The war in Ukraine holds great relevance for political science due to its implications for international relations, foreign policy, national security, and matters concerning European integration and state sovereignty.<sup>22</sup> Research in political science plays a crucial role in enhancing our understanding of the underlying mechanisms driving the conflict in Ukraine and its broader implications for international relations and foreign policy. By delving into the motivations and objectives of the involved parties, political science research provides valuable insights into the dynamics of the conflict and its wider ramifications. Furthermore, such research contributes to identifying effective strategies for conflict resolution and establishing sustainable peace. By studying war and its consequences, political scientists can contribute to the development of policies and approaches that promote peace and stability on both local and global scales.<sup>23</sup>

**Table 1. Summary of Government & Law research area in the literature**

WoS category	Topic	Number of papers	Citations
Area Studies	Economics; Political Science	19	24
	Ethnic Studies; History; Political Science	4	25
	International Relations; Political Science	5	26
	Political Science	5	27
	Political Science	34	28

- 22 David L Sloss and Laura A Dickinson, 'The Russia-Ukraine War and the Seeds of a New Liberal Plurilateral Order' (2022) 116 *American Journal of International Law* 798; Jeffrey Mankoff, 'The War in Ukraine and Eurasia's New Imperial Moment' (2022) 45 *Washington Quarterly* 127.
- 23 Mariana Budjeryn, 'Distressing a System in Distress: Global Nuclear Order and Russia's War against Ukraine' (2022) 78 *Bulletin of the Atomic Scientists* 339; James E Doyle, 'Building a Nuclear Off-Ramp Following the War in Ukraine' (2022) 78 *Bulletin of the Atomic Scientists* 218.
- 24 Adams (n 19); Averre and Wolczuk (n 19); D'Anieri (n 19); Kulyk (n 14); Kuzio (n 19); Mykhnenko (n 19); Sasse (n 19); Sasse and Lackner (n 15); Platonova (n 19); Torabi (n 19); Torun (n 19); Yekelchik (n 19); Van der Pijl (n 19); Wynnyckyj (n 19); Johnson (n 19); Gilley (n 19).
- 25 Eras (n 1); Larys (n 18); Stepaniuk (n 18); Yurchuk (n 18).
- 26 Edenborg (n 21); *ibid*, Introduction; *ibid*, ch 5; Ninkovic (n 21); Sagramoso (n 21).
- 27 Tornike Metreveli, "'We Are Now the Orthodox!': Religion in Times of War in Ukraine The Competing Discourses of Identity' in T Metreveli, *Orthodox Christianity And the Politics of Transition: Ukraine, Serbia and Georgia* (Routledge 2021) ch 5; Anna Wylegala, 'The Void Communities: Towards a New Approach to the Early Post-War in Poland and Ukraine' (2021) 35 *East European Politics and Societies* 407; Jennifer J Carroll, 'Putin's War Against Ukraine: Revolution, Nationalism, and Crime' (2018) 34 *East European Politics* 507; Martin Larys, 'Pre-War Government and Party Networks in the Rebel Political Institutions: Individual Co-Optation in Eastern Ukraine' [2022] *East European Politics And Societies* doi:10.1177/08883254221131; Anna Fournier, 'From Frozen Conflict to Mobile Boundary: Youth Perceptions of Territoriality in War-Time Ukraine' (2018) 32 *East European Politics And Societies* 23.
- 28 Robert Dalsjo and others, 'A Brutal Examination: Russian Military Capability in Light of the Ukraine War' (2022) 64 *Survival* 7; Anke Schmidt-Felzmann, 'After the War in Ukraine: Peace Building and Reconciliation in Spite of the External Aggressor' in S Goda, O Tytarchuk and M Khylyko (eds), *International Crisis Management: NATO, EU, OSCE and Civil Society: Collected Essays on Best Practices and Lessons Learned* (IOS Press 2016) 151; Nigel Gould-Davies, 'Belarus, Russia, Ukraine:

Three Lessons for a Post-War Order' (2022) 64 *Survival* 39; Vytautas Isoda, 'Can Small States Wage Proxy Wars? A Closer Look at Lithuania's Military Aid to Ukraine' [2022] *Cooperation And Conflict* doi:10.1177/00108367221116532; Aly Verjee, 'Ceasefire Monitoring under Fire: The OSCE, Technology, and the 2022 War in Ukraine' (2022) 13 *Global Policy* 808; Robert Legvold, 'Conflict in Ukraine: The Unwinding of the Post-Cold War Order' (2015) 94 *Foreign Affairs* 193; Jeffrey Mankoff, 'Conflict in Ukraine: The Unwinding of the Post-Cold War International Order' (2016) 30 *Ethics & International Affairs* 139; Nicolai N Petro, 'Conflict in Ukraine: The Unwinding of the Post-Cold War Order' (2017) 15 *Perspectives on Politics* 611; Irina Malai, 'Crisis in Ukraine: A Platform for the Expansion of "Hybrid War" or Another "Frozen Conflict"' in N Iancu and others (eds), *Countering Hybrid Threats: Lessons Learned from Ukraine* (IOS Press 2016) 141; Vasile Rotaru, 'Crossing the Red Line: The EU and Russia within the Contexts of the Georgian War and Ukraine Crisis' in V Rotaru, *Russia, the EU, and the Eastern Partnership: Building Bridges or Digging Trenches?* (Ibidem Verlag 2018) 65; Chester A Crocker, 'Endings and Surprises of the Russia-Ukraine War' (2022) 64 *Survival* 183; Greta Uehling, 'Everyday Life in Ukraine's War Zone' (2017) 116 *Current History* 264; Sergei Konoplyov and Alexander Urbanskiy, 'Hybrid War in Ukraine: What Is Next?' in N Iancu and others (eds), *Countering Hybrid Threats: Lessons Learned from Ukraine* (IOS Press 2016) 96; Huw Dylan and Thomas J Maguire, 'Secret Intelligence and Public Diplomacy in the Ukraine War' (2022) 64 *Survival* 33; Roxana Bratu, 'Living on the Edge: Ukraine's Ambiguous War on Corruption' in R Kesek, M Boroda and Z Jozwik (eds), *Addressing Security Risks at the Ukrainian Border Through Best Practices on Good Governance* (IOS Press 2016) 57; Jochen Kleinschmidt, 'Offensive Realism, Differentiation Theory, and the War in Ukraine' (2019) 56 *International Politics* 427; Zachary Irwin, 'Roots of Russia's War in Ukraine' (2016) 141 *Library Journal* 125; Angela Stent, 'Roots of Russia's War in Ukraine' (2016) 58 *Survival* 205; Jesse Dillon Savage, 'Submission, Resistance, and War National Politics and Russian Hierarchy in Georgia and Ukraine since Independence' in JD Savage, *Political Survival and Sovereignty in International Relations* (CUP 2020) 49; Richard Higgott and Simon Reich, 'The Age of Fuzzy Bifurcation: Lessons from the Pandemic and the Ukraine War' (2022) 13 *Global Policy* 627; Pablo Telman Sanchez Ramirez, 'The Conflict in Ukraine: Russia's First Serious Confrontation with the West during the Post-Cold War Era' (2016) 56 *Foro Internacional* 470; Marcus Willett, 'The Cyber Dimension of the Russia-Ukraine War' (2022) 64 *Survival* 7; Maximilian Kranich, 'The Great Patriotic War 2.0 An Analysis of Collective Violence in Eastern Ukraine after the Euromaidan Revolution' in J Hauter (ed), *Civil War? Interstate War? Hybrid War? Dimensions and Interpretations of the Donbas Conflict in 2014-2020* (Ibidem Verlag 2021); Marco Siddi, 'The Partnership That Failed: EU-Russia Relations and the War in Ukraine' (2022) 44 *Journal of European Integration* 893; Budjeryn (n 23); Alexander K Bollfrass and Stephen Herzog, 'The War in Ukraine and Global Nuclear Order' (2022) 64 *Survival* 7; Erik Jones, 'The War in Ukraine and the European Central Bank' (2022) 64 *Survival* 111; Lawrence Freedman, 'Ukraine and the Art of Limited War' (2014) 56 *Survival* 7; Giselle Bosse, 'Values, Rights, and Changing Interests: The EU's Response to the War against Ukraine and the Responsibility to Protect Europeans' (2022) 43 *Contemporary Security Policy* 531 doi:10.1080/13523260.2022.2099713; Gwendolyn Sasse and Alice Lackner, 'War and State-Making in Ukraine: Forging a Civic Identity from Below?' in M Minakov, G Sasse and D Isachenko (eds), *Post-Soviet Secessionism: Nation-Building and State-Failure after Communism* (Ibidem Verlag 2021) 161; Nadiya Kostyuk and Aaron Brantly, 'War in the Borderland through Cyberspace: Limits of Defending Ukraine through Interstate Cooperation' (2022) 43 *Contemporary Security Policy* 498; Ali Nedim Karabulut, 'Eski Savaş, Yeni Strateji: Rusya'nın Yirmibirinci Yüzyıldaki Hibrit Savaş Doktrini ve Ukrayna Krizi'ndeki Uygulaması' (2016) 13 *Uluslararası İlişkiler Dergisi* 25; Hylke Dijkstra and others, 'War in Ukraine' (2022) 43 *Contemporary Security Policy* 464.

29 Sloss and Dickinson (n 22); Mankoff (n 22).

Law	-	7	30
Political Science	-	58	31

- 30 Ivan Monolati, 'Between Autonomy and Statehood: Attempts at Institutionalizing Representative and Executive Structures in Ukraine after the First World War' (2019) 1 *Przegląd Sejmowy* 137; Daniel Sarmiento, 'The War in Ukraine and the European Constitutional Moment' (2022) 57 *Revista General de Derecho Europeo* 1; Julia Geneuss and Florian Jessberger, 'Russian Aggression and the War in Ukraine An Introduction' (2022) 20(4) *Journal of International Criminal Justice* 783; Bohdan Karnaukh, 'Territorial Tort Exception? The Ukrainian Supreme Court Held that the Russian Federation Could Not Plead Immunity With Regard to Tort Claims Brought by the Victims of the Russia-Ukraine War' (2022) 5(3) *Access to Justice in Eastern Europe* 165 doi:10.33327/AJEE-18-5.2-n000321; Xavier Pons Rafols, 'The War in Ukraine, The United Nations and International Law: Some Unsustainable Systemic Certainties' (2022) 43 *Revista Electronica De Estudios Internacionales* doi:10.17103/reei.43.08; Natividad Fernandez Sola, 'Ukraine: From the Maidan Revolution to the Donbass War' (2016) 32 *Revista Electronica De Estudios Internacionales* doi:10.17103/reei.32.26; Andrea Cioffi and Camilla Cecannecchia, 'Role of Forensic Medicine in Addressing the War Crimes: Perspective from Russia-Ukraine Conflict during the COVID-19 Pandemic' [2022] *Medicine, Science and the Law* doi:10.1177/00258024221125135
- 31 Jan Claas Behrends, 'A Year of Violence: Russia's State Crisis and the War against Ukraine' (2015) 65(3) *Osteuropa* 47; Alan Whitehorn, 'Red Famine: Stalin's War on Ukraine' (2018) 12 *Genocide Studies International* 120; Michael Robertson and Andrew Bacevich, 'America's War in Ukraine' (2022) 314 *Nation* 27; Daqi (Reinhardt) Fang, 'Chinese Propaganda and Cyber-Nationalism under the Russia-Ukraine War' (2022) 14 *Asian Politics & Policy* 436; Olga Byrska, 'Civil Crisis Management in Poland: The First Weeks of the Relief in Russian War on Ukraine' [2022] *Journal of Genocide Research* doi:10.1080/14623528.2022.2079196; Andrej Krickovic and Yuval Weber, 'Commitment Issues The Syrian and Ukraine Crises as Bargaining Failures of the Post-Cold War International Order' (2018) 65 *Problems of Post-Communism* 373; Paul D'Anieri and Charles R Wise, 'Conflict in Ukraine: The Unwinding of the Post-Cold War Order' (2016) 131 *Russian Review* 646; John O'Loughlin and Gerard Toal, 'Does War Change Geopolitical Attitudes? A Comparative Analysis of 2014 Surveys in Southeast Ukraine' (2020) 67 *Problems of Post-Communism* 303; Andre Haertel, 'Fragmented, Unstable, Pluralistic Ukraine's Political System before the War' (2022) 72(1-3) *Osteuropa* 319; Fabian Baumann, 'From War to War: Historical Research on Ukraine since 2014' (2022) 72(1-3) *Osteuropa* 309; Otto Luchterhandt, 'Genocide in Mariupol' *The Russian Way of War in Ukraine* (2022) 72(1-3) *Osteuropa* 65; John Rennie Short, 'Geopolitical Consequences of the War in Ukraine' (2022) 21 *Turkish Policy Quarterly* 47; Kathryn Stoner, 'How Putin's War in Ukraine has Ruined Russia' (2022) 33 *Journal of Democracy* 38; Heidi Reisinger and Aleksandr Gol'c, 'Hybrid War in Ukraine Russia's Intervention and the Lessons for the NATO' (2014) 64(9-10) *Osteuropa* 119; Mirosław Banasik, 'Hybrid War of the Russian Federation and its Consequences for Security of Ukraine and Euro-Atlantic Area' (2016) 4 *European Journal of Transformation Studies* 39; Alex Vines, 'Impact of the War in Ukraine: What is the Future of EU - Africa Relations?' (2022) 21 *Turkish Policy Quarterly* 55; Nikolay Mitrokhin, 'Infiltration, Instruction, Invasion Russia's War in Ukraine' (2014) 64(8) *Osteuropa* 3; Jan Asmussen, 'International Crisis Management and Human Security in the Framework of 'Hybrid Wars' and Unrecognized States Lessons Learned from Ukraine' (2014) 25 *Security and Human Rights* 287; Nataliya Ortynska and others, 'Investigation and Justice of Crimes Committed under War Conditions in Ukraine' (2022) 40 *Cuestiones Politicas* 311; Simon Gauseweg, 'Law v War ICC Ruling: Russia Must Stop the War against Ukraine' (2022) 72(1-3) *Osteuropa* 101; Felix Ackermann, 'Experience with Violence Refreshed Lithuania's Politics of History and Russia's War in Ukraine' (2016) 3 *Osteuropa* 111; Roman Horbyk, 'Little Patriotic War: Nationalist Narratives in the Russian Media Coverage of the Ukraine-Russia Crisis' (2015) 7 *Asian Politics & Policy* 505; Jan Holzer, Martin Larys and Mirosław Mares, 'Militant Right-Wing Extremism from the Beginning of

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- 32 Philipp Genschel, 'Bellicist Integration? The War in Ukraine, the European Union and Core State Powers' (2022) 29(12) *Journal of European Public Policy* 1885; Veronica Anghel and Erik Jones, 'Is Europe Really Forged through Crisis? Pandemic EU and the Russia-Ukraine War' [2022] *Journal of European Public Policy* doi:10.1080/13501763.2022.2140820.

	Social Sciences	2	33
Other	Business; Law; Communication; Political Science; Economics; International Relations; Ethics; History; Sociology; Geography	18	34

In summary, research on the war in Ukraine involves multiple academic disciplines and approaches, including international relations, national security, foreign policy, sociology, and history, among others. Scholars from these fields are dedicated to examining the root causes and far-reaching consequences of the conflict, as well as the roles played by various states and international organisations in the ongoing crisis. By drawing on diverse perspectives and methodologies, researchers strive to provide a comprehensive

- 33 Taras Bilous, 'Self-Determination and the War in Ukraine' (2022) 69(3) *Dissent* 44; Taras Kuzio, 'Three Revolutions, One War and Ukraine's West Moves East' in P Kowal, G Mink and I Reichardt (eds), *Three Revolutions: Mobilization and Change in Contemporary Ukraine I: Theoretical Aspects and Analyses on Religion, Memory, and Identity* (Ibidem Verlag 2019) 91.
- 34 Henry E Hale, Oxana Shevel and Olga Onuch, 'Believing Facts in the Fog of War: Identity, Media and Hot Cognition in Ukraine's 2014 Odesa Tragedy' (2018) 23 *Geopolitics* 851; Rebecca DeWinter-Schmitt, Samuel Jones and Richard Stazinski, 'Missing in Action? Investor Responses to the War in Ukraine' (2022) 7(3) *Business and Human Rights Journal* 487; Anatoliy Gruzd and Ksenia Tsyganova, 'Information Wars and Online Activism During the 2013/2014 Crisis in Ukraine: Examining the Social Structures of Pro- and Anti-Maidan Groups' (2015) 7 *Policy And Internet* 121; Joanna Szostek, 'Nothing Is True? The Credibility of News and Conflicting Narratives during "Information War" in Ukraine' (2018) 23 *International Journal of Press-Politics* 116; Peter AG van Bergeijk, 'Sanctions Against the Russian War on Ukraine: Lessons from History and Current Prospects' (2022) 56(4) *Journal of World Trade* 571; Kyle Wilson, 'Flight MH17, Ukraine and the New Cold War: Prism of Disaster' (2020) 79 *Russian Review* 344; Jennifer G Mathers, 'Women, War and Austerity: IFIs and the Construction of Gendered Economic Insecurities in Ukraine' (2020) 27 *Review of International Political Economy* 1235; Lina Klymenko, 'Understanding the Donbas War in Terms of World War II: A Metaphor Analysis of the Armed Conflict in Eastern Ukraine' (2020) 19 *Ethnopolitics* 483; Mikhail A Molchanov, 'Media Uses in Ukraine's War with Itself' in SF KrishnaHensel (ed), *Media in Process: Transformation and Democratic Transition* (Routledge 2017) 31; Christopher Lizotte, 'The War in Ukraine, the American Far-Right and the "other" Critique of Geopolitics' (2022) 98 *Political Geography* 102687; Alexander Vorbrugg and Jevgeniy Bluwstein, 'Making Sense of (the Russian War in) Ukraine: On the Politics of Knowledge and Expertise' (2022) 98 *Political Geography* doi:10.1016/j.polgeo.2022.102700; William H Hill, 'Confrontation in Ukraine: War in Europe Again' in WH Hill, *No Place for Russia: European Security Institutions Since 1989* (Columbia Univ Press 2018) 341; Paul D'Anieri, 'Greetings from Novorossiya: Eyewitness to the War in Ukraine' (2018) 77 *Russian Review* 523; Francis King, 'Greetings from Novorossiya: Eyewitness to the War in Ukraine' (2018) 48 *European History Quarterly* 583; Oleh Kozachuk, 'Putin's War Against Ukraine: Revolution, Nationalism, and Crime' (2019) 25 *Nations and Nationalism* 746; Eleanor Knott, 'Existential Nationalism: Russia's War against Ukraine' [2022] *Nations and Nationalism* doi:10.1111/nana.12878; Ngo and others (n 2).

understanding of the conflict and contribute to the development of effective strategies for peacebuilding and conflict resolution.<sup>35</sup>

Additionally, researchers delve into the effects of the war on the civilian population, as well as the repercussions on Ukraine's economy and infrastructure. They explore the role of media in shaping narratives and public opinion during the conflict while examining its impact on Ukrainian and Russian societies. Moreover, considerable research is dedicated to analysing the involvement of international peacekeeping and mediation organisations in efforts to bring about a resolution to the conflict. These studies aim to shed light on the potential avenues for achieving lasting peace in Ukraine and mitigating the long-term consequences of the war on all aspects of society.<sup>36</sup>

Indeed, the scholarly research on the war in Ukraine is multifaceted and spans various disciplines. The ongoing efforts of researchers reflect a commitment to comprehend the underlying factors and ramifications of the conflict. Furthermore, their work is driven by the shared objective of finding viable solutions to end the hostilities and establish sustainable peace in the region. As the situation evolves, scholars remain dedicated to their pursuit of knowledge, aiming to contribute to the understanding and resolving this complex and consequential conflict.<sup>37</sup>

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35 DeWinter-Schmitt, Jones and Stazinski (n 34); Molchanov (n 34); Gruzd and Tsyganova (n 34); Szostek (n 34); Van Bergeijk (n 34); Wilson (n 34); Mathers (n 34); Ngo and others (n 2); Klymenko (n 34); Hale, Shevel and Onuch (n 34); Lizotte (n 34); Vorbrugg and Bluwstein (n 34); Hill (n 34); D'Anieri (n 34); King (n 34); Kozachuk (n 34); Knott (n 34).

36 Sloss and Dickinson (n 22); Mankoff (n 22).

37 V Adadurov, 'Specific Features of Interpretation of 1812 War in Contemporary Ukraine: Historiographical and Source Study Side-Notes on the Translation of the Book of VE Von Gebler' (2014) 5(9) *Istoriya-Elektronnyi Nauchno-Obrazovatelnyi Zhurnal*; Tomasz Braun, 'Ukraine and Russia: From Civilized Divorce to Uncivil War' (2020) 72 *Europe-Asia Studies* 1599; George O Liber, 'Unbridled Discard: World War II and Social and Political Attitudes in Ukraine' (2014) 73 *Russian Review* 145; Anna Wylegala, 'Child Migrants and Deportees from Poland and Ukraine after the Second World War: Experience and Memory' (2015) 22 *European Review of History-Revue Europeenne D Histoire* 292; Kim Christian Priemel, 'Occupying Ukraine: Great Expectations, Failed Opportunities, and the Spoils of War, 1941-1943' (2015) 48 *Central European History* 31; Eric Aunoble, '“Communists, To Arms”: The Special Purpose Units (TchON) by the End of the Civil War In Ukraine (1920-1924)' (2015) 13 *Hispania Nova* 232; Thomas Chopard, 'Repatriated and Deportee: The Return of Jewish War Refugees in Soviet Ukraine, between State Demands and Humanitarian Emergencies (1919-1924)' (2015) 56 *Cahiers Du Monde Russe* 175; Thomas Chopard, 'The Wars of Independence of Ukraine, 1917-1921' (2017) 58 *Cahiers Du Monde Russe* 703; Thomas Chopard, 'The Era of the Atamans: Politics, Civil War and Peasant Uprisings in Ukraine (1917-1923)' [2019] 20 & 21 *Revue d'histoire* 55; Thomas Ambrosio, 'Roots of Russia's War in Ukraine' (2016) 75(3) *Russian Review* 545; AY Bakhturina, 'Review of the Book "The Great War of 1914-1918 and the Ukraine"' (Vol 1, 2014; Vol 2, 2015)' (2016) 44 *Rusin* 245; Alexander Etkind, 'Foreword' in J Fedor and others (eds), *War and Memory In Russia, Ukraine and Belarus* (Palgrave 2017) V; Serhii Plokhly, 'When Stalin Lost His Head: World War II and Memory Wars in Contemporary Ukraine' in J Fedor and others (eds), *War and Memory in Russia, Ukraine and Belarus* (Palgrave 2017) 171; Jaroslaw Wasyluk, 'Total Wars and the Making of Modern Ukraine, 1914-1954' (2018) 70(3) *Europe-Asia Studies* 485; VS Kul'chyts'kyi, 'Interwar and Post-War History of Soviet Ukraine on the Pages of the "Ukrainian

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**Table 2. Summary of History research area in the literature**

WoS category	Topic	Number of articles	Citations
Area Studies	Ethnic Studies; Political Science	5	38
Cultural Studies	-	3	39

- European Review 355; Andrij Kharuk and Ihor Soliar, 'The Slovak Troops in Ukraine Propagandist Ideological Support at the Initial Stage of the German-Soviet War' (2020) 15 East European Historical Bulletin 149; John W Steinberg, 'The Finnish SS-Volunteers and Atrocities 1941-43 against Jews, Civilians and Prisoners of War in Ukraine and the Caucasus Region 1941-1943 An Archival Survey' (2020) 61 Cahiers Du Monde Russe 540; Jakob Hauter, 'How the War Began: Conceptualizing Conflict Escalation in Ukraine's Donbas' (2021) 48 Soviet and Post Soviet Review 135; Tanja Penter, 'Independence, Revolution, War, and the Renaissance of National History in Ukraine' in NF May and T Maissen (eds), *National History and New Nationalism in the Twenty-First Century: A Global Comparison* (Routledge 2021) ch 12; Martin Lutz and Kim Christian Priemel, 'Powering Conquest: How German Corporations Sustained Occupation in World War II Ukraine' (2021) 93 Journal of Modern History 636; Vardan E Bagdasaryan, Anatoly A Bakaev and Sergey I Resnyansky, 'In the Crucible of Revolutions and Wars: Ukraine in 1917-1920: Historical and Historiographic Essays' (2021) 20 Rudn Journal of Russian History 321; Egor A Fedosov, "'Comrade Pepper!': The Specific Of Visual Satire of the Soviet Ukraine in Conditions of the Cold War (1954-1964)' (2021) 69 Tomsk State University Journal of History 149; Nataliya Kashevarova, 'Analytical Note of FJ Starke in Context of Nazi Library Policy in Ukraine during World War II' (2021) 27 Manuscript and Book Heritage of Ukraine 285; Vasilij Khristoforov, 'The Finnish SS-Volunteers and Atrocities against Jews, Civilians and Prisoners of War in Ukraine and the Caucasus Region 1941-1943: An Archival Survey' (2021) 3 Rossiiskaya Istoriya 235; Efim Pivovarov I and Elena A Kosovan, 'Documentary On-Line Exhibitions of the Central State Archives of Ukraine as a Way to Commemorate the Great Patriotic War of 1941-45' (2021) 1 Herald of an Archivist 118; Filip Slaveski, *Remaking Ukraine After World War II: The Clash of Local and Central Soviet Power* (CUP 2021); Filip Slaveski, 'Then and Now: The Shaping of Contemporary Ukraine in the Post-War Crises' in F Slaveski, *Remaking Ukraine After World War II: The Clash of Local and Central Soviet Power* (CUP 2021) ch 5; Roland Benedikter, 'The New Global Direction: From "One Globalization" to "Two Globalizations": Russia's War in Ukraine in Global Perspective' [2022] New Global Studies doi:10.1515/ngs-2022-0038; Halyna Hordiyenko and Vyacheslav Hordiyenko, 'State Policy on Social Protection for the Patriotic War Invalids in Post-War Ukraine In 1945-1950' (2022) 22 East European Historical Bulletin 141; Jens Ebert, 'Ukraine 1943/44: Loyalties and Violence in the Context of the Turning Point in the War' (2022) 81 Militargeschichtliche Zeitschrift 676; Adolfo Calatrava, 'The Transformation of the European Security System After the Cold War: from 1991 to the Ukraine Crisis' (2022) 59 Historia Actual Online 155; Vasyl Ilnytskyi and Mykola Haliv, 'From World War II to the Collapse of the Soviet Union: A New Vision of Recent History of Ukraine' (2022) 24 East European Historical Bulletin 254; Garry Kasparov and Leonid Volkov, 'Debate: The War in Ukraine, Sanctions Against Russia, and the Russian Opposition, June 26, 2022' (2022) 2 Ab Imperio 267; Anne Lounsbury, 'Introduction to the Forum: How Will Our Scholarship on Nineteenth-Century Russian Culture Change in Response to Russia's War on Ukraine?' (2022) 2 Ab Imperio 58; D'Anieri and Wise (n 31); Fedor and others (n 16); Yekelchuk (n 19); D'Anieri (n 19); D'Anieri (n 34); van der Pijl and VanderPijl (n 19); Johnson (n 19); 38 Eras (n 1); Larys (n 18); Schmidt-Felzmann (n 28); Stepaniuk (n 18); Yurchuk (n 18). 39 Emil Edenborg, 'Creativity, Geopolitics and Ontological Security: Satire on Russia and the War in Ukraine' (2017) 20 Postcolonial Studies 294; Jade McGlynn, 'Historical Framing of the Ukraine Crisis through the Great Patriotic War: Performativity, Cultural Consciousness and Shared Remembering' (2020) 13 Memory Studies 1058; Mykola Makhortykh, 'Remediating the Past: YouTube and Second World War Memory in Ukraine and Russia' (2020) 13 Memory Studies 146.



Ethnic Studies	Political Science; Sociology	2	40
History	-	71	41
International Relations	Sociology	7	42

International relations play a crucial role in the conflict in Ukraine. The actions and responses of states and international organisations significantly impact the trajectory of the conflict and the potential for its resolution. The decisions made by governments, such as imposing sanctions, providing military support, or engaging in diplomatic negotiations, have direct implications for the parties involved and the overall dynamics of the conflict. International organisations, such as the United Nations, the European Union, and the Organization for Security and Cooperation in Europe, also play a vital role in mediating and facilitating dialogue among the conflicting parties. Understanding and analysing the dynamics of international relations is essential for comprehending the broader context in which the conflict unfolds and exploring avenues for conflict resolution and peacebuilding.<sup>43</sup> Many states and international organisations have been involved in trying to secure peace in Ukraine, for example, by conducting peacekeeping and mediation missions and supporting the actions of the Ukrainian government and international peace organisations. International relations have also played an important role in the conflict in Ukraine through their impact on the relations between and interests of individual states. The conflict in Ukraine has also become part of the broader tensions between Russia and the West and is considered by many commentators to be an expression of Russia's

40 Knott (n 34); Kozachuk (n 34).

41 Vushko (n 37); Hauter (n 37); Calatrava (n 37); Behrends (n 37); Adadurov (n 37); Liber (n 37); Wylegala (n 37); Priemel (n 37); Aunoble (n 37); Chopard (n 37); Ambrosio (n 37); D'Anieri and Wise (n 31); Bakhturina (n 37); Fedor and others (n 16); Plokhly (n 37); Wasyluk (n 37); Etkind and others (n 37); Kul'chyts'kyi V (n 37); Nikolaiets (n 37); Zayarnyuk (n 37); Yekelchyk (n 19); Fedoruk (n 37); D'Anieri (n 34); Kovalchuk (n 37); Hrynevych (n 37); Mick (n 37); Amar (n 37); Kul'chyts'kyi (n 37); Maievs'kyi and Pastushenko (n 37); Sinyavska (n 37); Mark (n 37); Ganev (n 37); Lysenko (n 37); Hausmann (n 37); Viola (n 37); Gilley (n 37); Lami (n 37); Urry (n 37); Hecker (n 37); Felder (n 37); D'Anieri (n 19); Braun (n 37); Flikke (n 37); Sudyn (n 37); Solchanyk (n 37); D'Anieri (n 37); Boeckh (n 37); van der Pijl and VanderPijl (n 19); Gorodnia (n 37); Hrytsiuk, Lysenko and Pokotylo (n 37); Raykoff (n 37); Johnson (n 19); Baker (n 37); Shuvalova (n 37); Kharuk and Soliar (n 37); Steinberg (n 37); Penter (n 37); Lutz and Priemel (n 37); Bagdasaryan, Bakaev and Resnyansky (n 37); Fedosov (n 37); Kashevarova (n 37); Khristoforov (n 37); Pivovar and Kosovan (n 37); Slaveski (n 37); *ibid*, ch 5; Benedikter (n 37); Hordiyenko and Hordiyenko (n 37); Ebert (n 37); Ilnytskyi and Haliv (n 37); Kasparov and Volkov (n 37); Lounsbey (n 37).

42 Robert Bernheim, 'Portraits from a Conjoined War: The German 100th Light Infantry Division and First Contact with the Jews of Zinkiv, Ukraine-July 1941' (2022) 36(3) *Holocaust and Genocide Studies* 386; Thomas Lorman, 'Statement by the Editorial Board on the War in Ukraine' (2022) 20 *Central Europe* 67; Jorg Requate, 'The War against Ukraine, the Problem of Communication Strategies, and its Challenges for European Historiography' (2022) 1 *Ab Imperio* 85; Hill (n 34); Wynnyckyj (n 19); D'Anieri (n 34); King (n 34).

43 Knott (n 34); Kozachuk (n 34).

disrespect for Ukraine's sovereignty and territorial integrity. As such, international relations play an important role in the conflict in Ukraine by influencing how states and international organisations respond to the conflict and what actions they take to end it.<sup>44</sup> Thus, it is not surprising that much of the recent research on the Ukrainian war is related to international relations, spanning the fields of law, political science, and general social issues (see Table 3).

**Table 3. Summary of International Relations research area in the literature**

WoS category	Citation topic	Number of papers	Citations
Area Studies	-	3	45
	Political Science	5	46
Business, Finance	Economics	2	47
Economics	-	2	48
	Political Science	5	49
History	Sociology	5	50
International Relations	-	27	51

- 44 Yurchuk (n 18); Eras (n 1); Larys (n 18); Stepaniuk (n 18); Schmidt-Felzmann (n 28).  
 45 D'Anieri (n 19); Schmidt-Felzmann (n 28).  
 46 Edenborg (n 21); Ninkovic (n 21); Sagramoso (n 21).  
 47 Christopher Aitken and Erkal Ersoy, 'War in Ukraine: The Options for Europe's Energy Supply' [2022] *World Economy* doi:10.1111/twec.13354; Iana Liadze and others, 'Economic Costs of the Russia-Ukraine War' [2022] *World Economy* doi:10.1111/twec.13336.  
 48 Frantisek Skvrnda, 'War of Ukraine in the Context of the Establishment Arrangements Multipolar Power in the World' in D Adaskova (ed), *International Relations 2014: Contemporary Issues of World Economics and Politics* (Econom 2014); Van Bergeijk (n 34).  
 49 Taras Kuzio, 'Flight MH17, Ukraine and the New Cold War: Prism of Disaster' (2019) 71(7) *Europe-Asia Studies* 1245; van der Pijl (n 19); Mathers (n 34); Mankoff (n 28); Hill (n 34).  
 50 George O Liber, 'Ukraine's Maidan, Russia's War: A Chronicle and Analysis of the Revolution of Dignity' (2020) 72(10) *Europe-Asia Studies* 1762; Lavinia Stan, 'Conflict in Ukraine: The Unwinding of the Post-Cold War Order' (2017) 22 *European Legacy-Toward New Paradigms* 118; Wynnyckyj (n 19); Hill (n 34); Mathers (n 34).  
 51 Woo Pyung-Kyun, 'The Russian Hybrid War in the Ukraine Crisis: Some Characteristics and Implications' (2015) 27 *Korean Journal of Defense Analysis* 383; Louis Andrieu, 'Red Famine: Stalin's War on Ukraine' [2019] *ESPRIT* 163; Amanda Paul, 'The EU in the South Caucasus and the Impact of the Russia-Ukraine War' (2015) 50 *International Spectator* 30; Michael Rywkin, 'Conflict in Ukraine: The Unwinding of the Post-Cold War Order' (2015) 37 *American Foreign Policy Interests* 177; Francesc Serra Massansalvador, 'Ukraine: From the Revolution of the Maidan to the War of Donbass' (2016) 32 *Relaciones Internacionales* 261; Robert Legvold, 'Imperial Gamble: Putin, Ukraine, and the New Cold War' (2016) 95 *Foreign Affairs* 184; Angela Gramada, 'The Impact of Russia-Ukrainian War on Internal Public Debate About Foreign Policy in Ukraine' in P Bator and R Ondrejcsak (eds), *Panorama of Global Security Environment 2015-2016* (Stratpol 2016); Ali Nedim Karabulut, 'Old War, New Strategy: Russian Doctrine of Hybrid Warfare for the Twenty First Century and Its Implementation during the Crisis in Ukraine' (2016) 13 *Uluslararası İlişkiler-International Relations* 25; Andriy Tyushka, 'From a 'Hybrid War' to a 'Hybrid Peace'? Implications of Russian

Law	2	52
Political Science	34	53
Social Issues	2	54

Irregular Warfare in Ukraine for International Security' in P Bator and R Ondrejcsak (eds), *Panorama of Global Security Environment 2015-2016* (Stratpol 2016) 5; Yevhen Pysmensky, 'The Phenomenon of Journalism-Related Crimes Under the Circumstances of Hybrid War in Ukraine' (2017) 23 *Croatian International Relations Review* 155; Montana Hunter, 'Crowdsourced War: The Political and Military Implications of Ukraine's Volunteer Battalions 2014-2015' (2018) 18 *Journal of Military and Strategic Studies* 78; Andres Kasekamp and Eoin Micheal McNamara, 'From the Cold War's End to the Ukraine Crisis: NATO's Enduring Value for Estonia's Security Policy' in AH Kammel and B Zyla (eds), *Peacebuilding at Home: NATO and its 'new' Member States after Crimea*, vol 5 (Nomos 2018) 43; Tipaldou and Casula (n 31); Robert Ondrejcsak, 'US Policies Towards Russia in the Light of War in Ukraine: From Engaging a "Cooperative Power" to Defensive Containment of Regional "Challenger"' in P Bator and R Ondrejcsak (eds), *Panorama of Global Security Environment 2014* (CENAA 2014); Valery Dzutsati, 'Geographies of Hybrid War: Rebellion and Foreign Intervention in Ukraine' (2021) 32 *Small Wars and Insurgencies* 441; Anna Reid, 'Putin's War on History The Thousand-Year Struggle Over Ukraine' (2022) 101 *Foreign Affairs* 54; Andrew Lichterman, 'The Peace Movement and the Ukraine War: Where to Now?' (2022) 5 *Journal for Peace and Nuclear Disarmament* 185; Lawrence Freedman, 'Why War Fails Russia's Invasion of Ukraine and the Limits of Military Power' (2022) 101 *Foreign Affairs* 10; Harald Edinger, 'Offensive Ideas: Structural Realism, Classical Realism and Putin's War on Ukraine' (2022) 98 *International Affairs* 1873; Timothy Snyder, 'Ukraine Holds the Future The War Between Democracy and Nihilism' (2022) 101 *Foreign Affairs* 124; Oana-Antonia Colibasanu, 'The Geopolitical Power of EU in the Making (?): A Question of the War in Ukraine' (2022) 22 *Romanian Journal of European Affairs* 24; Kawashima Shin, 'War in Ukraine from China's Perspective: Limited Options for State That Cannot Reject Existing Policies' (2022) 29 *Asia-Pacific Review* 35; Jan Mericka, 'The Information War in Ukraine as a Part of the Military Strategy' (2022) 31 *Vojenske Rozhledy-Czech Military Review* 21; Mohammad Eslami, 'Iran's Drone Supply to Russia and Changing Dynamics of the Ukraine War' (2022) 5 *Journal for Peace and Nuclear Disarmament* 507; Legvold (n 28); Carroll (n 27); Rotaru (n 28).

52 Sloss and Dickinson (n 22); Mankoff (n 22).

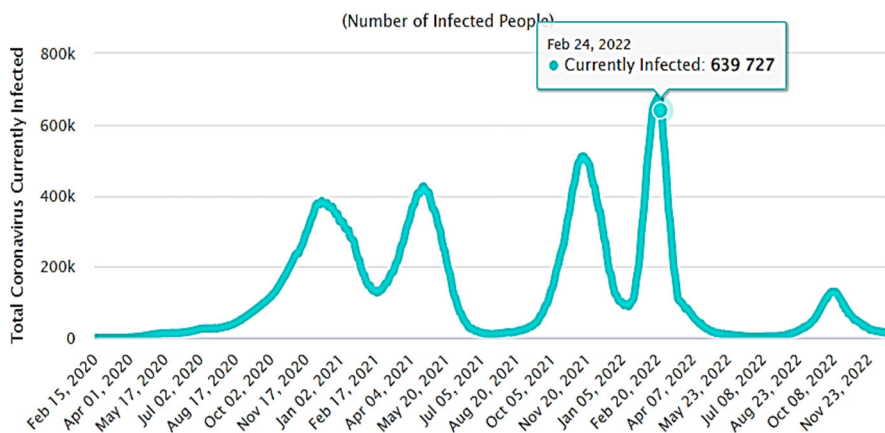
53 Dalsjo and others (n 28); Rajan Menon and Eugene Rumer, *Conflict in Ukraine: The Unwinding of the Post-Cold War Order* (MIT Press 2015); Yuriy Matsiyevsky, 'Internal Conflict or Hidden Aggression Competing Accounts and Expert Assessments of the War in Ukraine's Donbas' in J Hauter (ed), *Civil War? Interstate War? Hybrid War? Dimensions and Interpretations of the Donbas Conflict in 2014-2020* (Ibidem Verlag 2021); Willett (n 28); Siddi (n 28); Bollfrass and Herzog (n 28); Jones (n 28); Bosse (n 28); Dijkstra and others (n 28); Elizabeth Pond, 'War in Ukraine: Is This the Way it Ends?' (2017) 59 *Survival* 143; Trine Flockhart and Elena A Korosteleva, 'War in Ukraine: Putin and the Multi-Order World' (2022) 43 *Contemporary Security Policy* 466; Mykhailo Gonchar and Andrii Chubyk, 'War of Hybrid Type "Made In Russia" (The Example of Aggression Against Ukraine)' in R Ondrejcsak and others (eds), *Panorama of Global Security Environment: The Central European Perspective 2017-2018* (Stratpol 2018) 236; Schmidt-Felzmann (n 28); Gould-Davies (n 28); Isoda (n 28); Verjee (n 28); Stan (n 50); D'Anieri and Wise (n 31); Crocker (n 28); Rotaru (n 28); Uehling (n 28); Konoplyov and Urbanskiy (n 28); Bratu (n 28); Kleinschmidt (n 28); Stent (n 28); Dylan and Maguire (n 28); Savage (n 28); Higgott and Reich (n 28); Sanchez Ramirez (n 28); Kranich (n 28); Freedman (n 28); Sasse and Lackner (n 28); Kostyuk and Brantly (n 28).

54 Budjeryn (n 23); Doyle (n 23).

### 3.3. COVID-19 pandemic during the Russian-Ukrainian War

As mentioned, through 2022, the COVID-19 pandemic further aggravated the situation in areas of Ukraine where there was already a lack of access to basic health services and other needed goods. It is also worth mentioning that, according to the WHO, as of 9 January 2022, when the current phase of the war started, only 34% of Ukrainian citizens had been fully vaccinated, and less than 2% had received a third dose. This is, unfortunately, similar to a comparatively low level of vaccination for diseases such as measles, diphtheria, tetanus, and whooping cough, with only 80% of children vaccinated compared to almost 100% in Western Europe. This is because many of those vaccines are not obligatory. Furthermore, before the war, Ukraine was highly economically diversified, with prominent differences between urban and rural areas. The latter, which are not as densely populated, still suffer from lingering issues connected with collective farming and related economic challenges. As a result, these areas lack hospitals and other medical establishments in close proximity to the settlements.

Armed conflict and political instability are hindering the implementation of effective measures to prevent the spread of COVID-19, including vaccination campaigns and border traffic control. The lack of immunity to other diseases, poorly functioning hospitals, and the priority given to the wounded further exacerbate an already fragile situation. As illustrated in Figure 4, COVID-19 cases in Ukraine were spiking at the time of the Russian invasion and have seemingly declined since then. However, it is important to note that this decline is likely a result of the disruption of efforts to track and address the spread of COVID-19 rather than an actual decrease in cases.

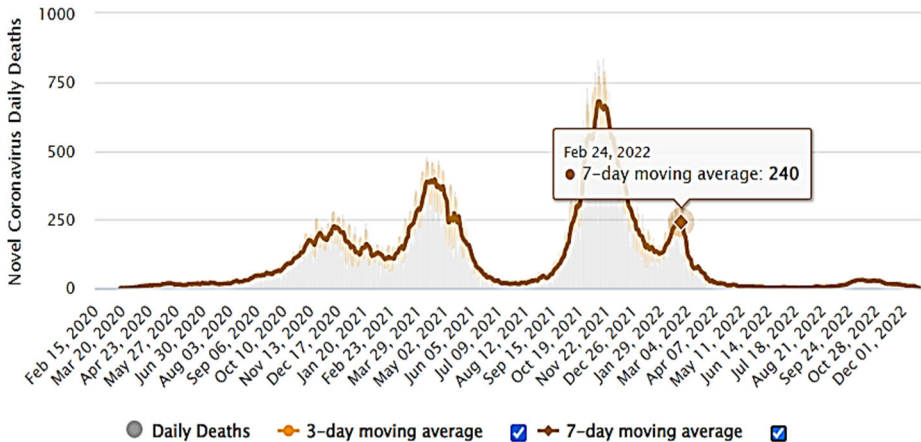


**Figure 4. Active COVID-19 cases in Ukraine** <sup>55</sup>

55 'Ukraine: COVID - Coronavirus Statistics' (Worldometer, 2022) <<https://www.worldometers.info/coronavirus/country/ukraine/>> accessed 29 February 2024.

More specifically, in areas under the control of the Ukrainian government before the onset of the war in 2022, efforts were being made to mount an effective response to the pandemic, albeit with varying degrees of success. The government implemented various restrictions and limitations to curb the spread of the virus, and initiatives were undertaken to ensure testing and vaccination access for the population. As a result, the number of COVID-19-related deaths in Ukraine remained low compared to other countries (as shown in Figure 4). However, it is important to note that the accuracy of this data may be compromised due to insufficient testing, which could lead to the misattribution of deaths to causes other than COVID-19.

However, the situation in the separatist-controlled areas is more complex. Many residents in these regions face challenges accessing healthcare and medications, making it difficult to track and treat COVID-19 cases. In the initial stages of the vaccination program, Ukraine faced supply shortages, and the separatist-held territories, lacking their own supply chain, relied on donations from Ukraine or Russia. The ongoing conflict and challenging circumstances make it difficult to accurately estimate the vaccination coverage in these regions and the types of vaccines administered. Therefore, caution is advised when interpreting the patterns depicted in Figures 4 and 5, as gathering precise statistical data during times of war is a challenging task. Consequently, COVID-19 poses an additional challenge to the conflict-affected regions in Ukraine and may result in an increase in fatalities among the population in these areas. The lack of a robust diagnostic system and limited access to adequate medical supplies exacerbate the situation, making it difficult to effectively diagnose and treat COVID-19 cases.



**Figure 5. Daily COVID-19 deaths in Ukraine<sup>56</sup>**

56 *ibid.*

COVID-19, an infectious disease caused by the SARS-CoV-2 coronavirus, is a global challenge. As a result, scientists worldwide are conducting intensive research on the virus to understand the mechanisms of the disease, find effective treatments, and prevent its spread (see Table 4). It covers the period since the beginning of COVID-19 in Ukraine's territory in general, including the period after the start of the 2022 war. Among other things, scientists are investigating the mechanisms of action of the virus, searching for effective drugs and vaccines, understanding the causes and risk factors of the disease, and developing effective methods to prevent its spread.

This research spans a wide range of scientific fields, such as medicine, molecular biology, epidemiology, genetics, biomedical engineering, and many others. Research on COVID-19 is being conducted by scientists from all over the world, including academics, scientists from research institutes, and employees of pharmaceutical and biotechnology companies. Many academic and research institutions, as well as governments around the world, are committing significant funding to COVID-19 research to find effective treatments and prevent the spread of the disease.

**Table 4. Summary of COVID-19-related papers**

WoS category	Citation topic	Number of papers	Citations
Clinical & Life Sciences	Healthcare Policy	5	57
	Nerve Disorders	1	58
	Antibiotics & Antimicrobials	1	59
	Trauma & Emergency Surgery	1	60
	Bacteriology	2	61
	History of Medicine	1	62

- 57 Roy, Bhat and Ozair (n 11); Haque and others (n 11); Haydabrus and others (n 11); Rubin (n 11); Ociepa-Kicinska and Gorzalczynska-Koczkodaj (n 11).
- 58 Natalia Stepanova and others, 'Lifesaving Care for Patients with Kidney Failure during the War in Ukraine 2022' (2022) 17(7) *Clinical Journal of the American Society of Nephrology* 1079.
- 59 Jaroslava Polonova and others, 'Unexpectedly Low Incidence of COVID-19 among Refugees of War from Ukraine to Slovakia in First Month of Conflict (Original Research)' (2022) 13 *Clinical Social Work and Health Intervention* 17.
- 60 Ravinder Kumar and others, 'Response to: "Immunization in State of Siege: The Importance of Thermostable Vaccines for Ukraine and Other War-Torn Countries and Territories"' (2022) 21(7) *Expert Review of Vaccines* 1009.
- 61 David Archard, Alena Buyx and Jean François Delfraissy, 'Responding to the Humanitarian Crisis of the War in Ukraine with Lessons from COVID-19' (2022) 399 *The Lancet* 1776; Mohamed Behnassi and Mahjoub El Haiba, 'Implications of the Russia-Ukraine War for Global Food Security' (2022) 6 *Nature Human Behaviour* 754.
- 62 Adamson S Muula, 'The Role of a Medical Doctor in War-Thoughts over Russian Soldiers and Ukraine' (2022) 34(1) *Malawi Med J* 1.

	Nursing	3	63
	Bacterial Toxins & Diseases	1	64
	Vascular, Cardiac & Thoracic Surgery	1	65
	Virology - general	1	66
	Rheumatology	1	67
	Risk Assessment	1	68
	Political Science	7	69
Social Sciences	Education & Educational Research	3	70
	Homelessness & Human Trafficking	1	71
	Psychiatry & Psychology	3	72

- 63 Douglas Jacobs and others, 'Expanding Accountable Care's Reach among Medicare Beneficiaries' (2022) 387 *New England Journal of Medicine* 99; Nicholas J Cull, 'The War for Ukraine: Reputational Security and Media Disruption' (2022) 19 *Place Branding and Public Diplomacy* 195; Cioffi and Cecannecchia (n 30).
- 64 Joost Butenop and others, 'Health Situation in Ukraine Before Onset of War and Its Relevance for Health Care for Ukrainian Refugees in Germany: Literature Review, Risk Analysis, and Priority Setting' (2022) 84 *Gesundheitswesen* 679.
- 65 Celeo Ramirez and Reyna M Duron, 'The Russia-Ukraine War Could Bring Catastrophic Public-Health Challenges beyond COVID-19' (2022) 120 *International Journal of Infectious Diseases* 44.
- 66 K Lewtak and others, 'Ukraine War Refugees - Threats and New Challenges for Healthcare in Poland' (2022) 125 *Journal of Hospital Infection* 37.
- 67 Natalia Stepanova, 'War in Ukraine: The Price of Dialysis Patients' Survival' (2022) 35(3) *J Nephrol* 717.
- 68 Antoni Tajduś and Stanisław Tokarski, 'Generation Capacity of National Power System in View of Commodity Crisis and War in Ukraine in 2022: Diagnosis, Risk Assessment and Recommendations' (2022) 67 *Archives of Mining Sciences* 545.
- 69 Boris Kagarlitsky, Janina Puder and Stefan Schmalz, "'The Whole World Is Becoming More like Russia" A Conversation on Deglobalization in the Wake of the War in Ukraine' (2022) 32 *Berliner Journal für Soziologie* 489; John M Quinn and others, 'COVID-19 at War: The Joint Forces Operation in Ukraine' (2022) 16 *Disaster Medicine and Public Health Preparedness* 1753; Hong Bo, 'Implications of the Ukraine War for China: Can China Survive Secondary Sanctions?' (2022) 21(2) *Journal of Chinese Economic and Business Studies* 311; Bollfrass and Herzog (n 28); Jones (n 28); Higgott and Reich (n 28); Anghel and Jones (n 32).
- 70 Roy, Bhat and Ozair (n 11); Richard Armitage and Mariia Pavlenko, 'Medical Education and War in Ukraine' (2022) 72 *British Journal of General Practice* 944; Richard Armitage and Armitage Richard, 'War in Ukraine: The Impacts on Child Health' (2022) 72 *British Journal of General Practice* 272.
- 71 Armitage and Richard (n 70).
- 72 Jucier Gonçalves Júnior and others, 'The Impact of "The War that Drags on" in Ukraine for the Health of Children and Adolescents: Old Problems in a New Conflict?' (2022) 128 *Child Abuse & Neglect* 105602; Michele Poletti, Antonio Preti and Andrea Raballo, 'From Economic Crisis and Climate Change through COVID-19 Pandemic to Ukraine War: A Cumulative Hit-Wave on Adolescent Future Thinking and Mental Well-Being' [2022] *Eur Child Adolesc Psychiatry* doi:10.1007/s00787-022-01984-x; Lluís Oviedo and others, 'Coping and Resilience Strategies among Ukraine War Refugees' (2022) 19(20) *International Journal of Environmental Research and Public Health* 13094.

Agricultural Policy	2	73
Economics	2	74
Law	1	75
Management	2	76
Public, Environmental & Occupational Health	3	77
General & Internal Medicine	4	78
Psychiatry	2	79
International Relations	1	80

- 73 Tarek Ben Hassen and Hamid El Bilali, 'Impacts of the Russia-Ukraine War on Global Food Security: Towards More Sustainable and Resilient Food Systems?' (2022) 11(15) *Foods* 2301; Natalia Mamonova, 'Food Sovereignty and Solidarity Initiatives in Rural Ukraine during the War' (2022) 50 *Journal of Peasant Studies* 47.
- 74 Anatolijs Prohorovs, 'Russia's War in Ukraine: Consequences for European Countries' Businesses and Economies' (2022) 15 *Journal of Risk and Financial Management*; Kornelia Piech, 'Health Care Financing and Economic Performance during the Coronavirus Pandemic, the War in Ukraine and the Energy Transition Attempt' (2022) 14 *Sustainability* 10601.
- 75 F Ramón Villaplana Jiménez and Adrián Megías Collado, 'La percepción de inseguridad en la sociedad española ante situaciones excepcionales: el COVID-19 y la guerra en Ucrania' (2022) 10(2) *Metodos Revista De Ciencias Sociales* 259.
- 76 Giuseppe Grossi and Veronika Vakulenko, 'New Development: Accounting for Human-Made Disasters –Comparative Analysis of the Support to Ukraine in Times of War' (2022) 42 *Public Money and Management* 467; Zaheer Allam, Simon Elias Bibri and Samantha A Sharpe, 'The Rising Impacts of the COVID-19 Pandemic and the Russia-Ukraine War: Energy Transition, Climate Justice, Global Inequality, and Supply Chain Disruption' (2022) 11 *Resources* 99.
- 77 Dmytro Chumachenko and Tetyana Chumachenko, 'Impact of War on the Dynamics of COVID-19 in Ukraine' (2022) 7(4) *BMJ Global Health* e009173; Kouji H Harada and others, 'Conflict-Related Environmental Damages on Health: Lessons Learned from the Past Wars and Ongoing Russian Invasion of Ukraine' (2022) 27 *Environmental Health and Preventive Medicine* doi:10.1265/ehpm.22-00122; Le Thanh Ha, 'Dynamic Interlinkages between the Crude Oil and Gold and Stock during Russia-Ukraine War: Evidence from an Extended TVP-VAR Analysis' (2022) 30 *Environmental Science and Pollution Research* 23110.
- 78 Paul Dinsdale, 'Covid-19: Funding for Pandemic Preparedness Being "Sucked Away" by War in Ukraine' (2022) 379 *BMJ* o2748; Mateusz Babicki and Agnieszka Mastalerz-Migas, 'Providing Care for Those Fleeing War: Challenges and Solutions for Polish Doctors Looking after Refugees from Ukraine' (2022) 377 *BMJ* o1440; Alicia Chen, "Doctors Ask Me to Feed My Kids-but How?" The Russia-Ukraine War Hits Syrian Refugees in Lebanon' (2022) 377 *BMJ* o1185; Sonia Sarkar, 'Medical Students Escape War Torn Ukraine but Face Limbo' (2022) 377 *BMJ* o908.
- 79 Pierpaolo Limone, Giusi Antonia Toto and Giovanni Messina, 'Impact of the COVID-19 Pandemic and the Russia-Ukraine War on Stress and Anxiety in Students: A Systematic Review' (2022) 13 *Frontiers in Psychiatry* doi:10.3389/fpsy.2022.1081013; Uta Meyding-Lamadé and Kathrin Keeren, 'War in Ukraine-Possible Endangerment of Refugees through Poliomyelitis: Information of the National Committee for Polio Eradication in Germany (NCC)' (2022) 93(6) *Nervenarzt* 618.
- 80 Eslami (n 51).



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Psychology	1	81
Mathematics	1	82
Science & Technology - Other Topics	3	83
Emergency Medicine	1	84
Government & Law	1	85

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It is difficult to predict what the future of COVID-19 will look like in Ukraine. The COVID-19 pandemic is a global challenge that is still ongoing and has a significant impact on many countries worldwide, including Ukraine. The situation in Ukraine is influenced by various factors, such as vaccination rates, the emergence of new variants of the virus, adherence to preventive measures, and the effectiveness of public health strategies. Efforts are being made to improve vaccination coverage and access to healthcare services, but challenges persist.

Ongoing research and analysis of the pandemic's impact on Ukraine, along with global trends, can provide valuable insights into potential future scenarios. International collaboration and the prioritisation of public health measures, combined with leveraging scientific expertise, can help in managing and overcoming the challenges posed by COVID-19.

## 4 DISCUSSION

The war in Ukraine has been ongoing since 2014, primarily involving areas in the east of the country where pro-Russian separatists are fighting against Ukrainian government forces. The conflict has had a huge and growing impact on the political, economic, and social situation in Ukraine and the broader region, making it the subject of study for many academic disciplines.

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- 81 Argyroula E Kalaitzaki, Alexandra Tamiolaki and Mona Vintila, 'The Compounding Effect of COVID-19 and War in Ukraine on Mental Health: A Global Time Bomb Soon to Explode?' (2022) *Journal of Loss and Trauma* doi:10.1080/15325024.2022.2114654.
  - 82 Hadi Jahanshahi and others, 'Artificial Intelligence-Based Prediction of Crude Oil Prices Using Multiple Features under the Effect of Russia-Ukraine War and COVID-19 Pandemic' (2022) 10 *Mathematics* 4361 doi:10.3390/math10224361.
  - 83 Leslie Roberts, 'Surge of HIV, Tuberculosis and COVID Feared amid War in Ukraine' (2022) 603 *Nature* 557; Nisha Gaiand and others, 'Seven Ways the War in Ukraine Is Changing Global Science' (2022) 607 *Nature* 440; Seow Ting Lee, 'A Battle for Foreign Perceptions: Ukraine's Country Image in the 2022 War with Russia' (2022) 19(3) *Place Branding and Public Diplomacy* 1.
  - 84 Muhammad Mainuddin Patwary, Matthew HEM Browning and Alfonso J Rodriguez-Morales, 'War in the Time of COVID-19 Crisis: A Public Health Emergency in Ukraine' (2022) 37(4) *Prehosp Disaster Med* 568.
  - 85 Freudlsperger and Schimmelfennig (n 31).

Publications in the humanities and social sciences focus on the conflict from the perspective of its causes and effects on the country's society and culture. Research in the natural sciences, such as medicine, has focused on the effects of armed conflict on the health of the population and the development of effective methods to treat and prevent conflict-related diseases. Research in technical sciences, such as engineering or computer science, has centred its research on the effects of the conflict on infrastructure and considerations for post-conflict reconstruction. Overall, research on the war in Ukraine can help understand the causes and effects of the conflict, develop ways to resolve it, and ensure lasting peace in the area.

The journal articles on the Ukrainian war can be divided into two main categories: those that describe the 2014 conflict and those that describe the situation after the 2022 attack. The first group of papers often focuses on local politics and attempts to understand the causes of the conflict. Many of these articles also describe possible scenarios for the future, including the possibility of an open war, but generally express scepticism about its likelihood. After the attack in 2022, the topics of the articles have shifted, with a greater emphasis on geopolitical changes and less concern about local ethnic conflicts within Ukraine.

The COVID-19 pandemic has posed unique challenges in post-2014 Ukraine, primarily due to the ongoing conflict in the country. The conflict has resulted in the loss of government control in certain areas, leading to disruptions in the supply of medications, including those needed for COVID-19. As a result, the rebel-held territories faced difficulties accessing vaccines and had to rely on alternative sources. Moreover, research papers on the COVID-19 situation in Ukraine highlight pre-existing healthcare access disparities between urban and rural areas. These disparities extend to vaccines for infectious diseases, further complicating the evaluation of statistics. Therefore, caution is advised when interpreting the data, and continuous revision is necessary. The 2022 conflict has added further uncertainty to the statistics as millions of people have either left the country or been displaced internally. Scholars emphasise in their papers that assessing the progress of the pandemic in many areas of Ukraine has become almost impossible. Additionally, the movement of people affected by the war may have implications for developing the pandemic in neighbouring countries. Consequently, it is widely recognised that evaluating the impact of the COVID-19 pandemic during the war in Ukraine and its effects on the population of neighbouring countries will require assessment once the conflict is over.

## 5 CONCLUSIONS

Academics worldwide are actively engaged in research related to the war in Ukraine, aiming to gain a comprehensive understanding of its causes, progression, and consequences. One crucial area of investigation focuses on analysing the root causes of the conflict. Many studies have centred on examining Russia's role in initiating and escalating the conflict that

commenced in 2014, as well as exploring internal political and social factors that may have contributed to the outbreak of war. Furthermore, researchers have delved into the international dimensions of the conflict, examining the responses of other states and international organisations and assessing their impact on the course of events, particularly concerning the 2022 conflict.

Another significant area of research has emerged, focusing on the ongoing course of the war and its anticipated aftermath. Scholars have extensively studied the effects of the conflict on civilians, encompassing aspects such as casualties, injuries, population displacement, limited access to healthcare and education, and the destruction of critical infrastructure. Additionally, considerable attention has been devoted to examining the potential reconfiguration of Ukrainian borders once the conflict concludes, exploring prospects for Ukraine's integration into NATO and the EU, and analysing the broader geopolitical implications such moves may have for central and Eastern Europe.

Research efforts have also addressed the impact of the war on international relations, including changes in the security landscape and the influence on the foreign policies of the countries involved in the conflict. Furthermore, academics have conducted research on the effectiveness of various approaches to conflict management and resolution, such as mediation, negotiation, and international intervention.

Overall, the research conducted on the war in Ukraine and its relationship with the COVID-19 pandemic has provided valuable insights into the complex dynamics at play. It is widely acknowledged that Ukraine faced significant challenges in combating the pandemic even prior to the 2022 war. Factors such as the 2014 conflict, corruption, financial constraints within the healthcare system, territorial disparities in access to medical facilities, and political instability have all contributed to a challenging healthcare landscape. The sudden and open attack by Russian troops in 2022 further disrupted efforts to track and address the COVID-19 pandemic, as highlighted in studies summarised in Table 4. These studies shed light on the impact of the conflict on the pandemic response, making it more difficult to implement effective measures to mitigate the spread of the virus.

The analysis of research publications indicates a significant number of multidisciplinary studies and scholarly articles on the Ukrainian War, as depicted in Figure 3. The disciplines of Government and Law, International Relations, and History have particularly explored the origins of the conflict and potential geopolitical and local outcomes. Additionally, a considerable number of articles in the field of medicine have focused on the COVID-19 pandemic and its interaction with the war, specifically regarding the challenges in tracking and addressing the virus. It is worth noting that the authors acknowledge the difficulty of their work due to the rapidly evolving nature of the conflict and anticipate that a comprehensive evaluation will be necessary once the conflict is resolved.

In conclusion, the collective body of research on the war in Ukraine and its relationship with the COVID-19 pandemic has provided valuable insights into the conflict's multifaceted nature and its impact on public health. These findings can contribute to the development of strategies for conflict resolution, long-term stability, and effective pandemic response in the region.

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## АНОТАЦІЯ УКРАЇНСЬКОЮ МОВОЮ

Дослідницька стаття

### ВЗАЄМОДІЯ КРИЗ: МЕППІНГ НАУКОВОГО ЛАНДШАФТУ ЩОДО ПЕРЕХРЕЩЕННЯ ТЕМ ПАНДЕМІЇ COVID-19 ТА РОСІЙСЬКО-УКРАЇНСЬКОЇ ВІЙНИ

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#### АНОТАЦІЯ

**Вступ.** У лютому 2022 року війська Російської Федерації атакували Україну на кількох фронтах, тим самим розпочавши війну, яка триває досі. Вторгнення викликало спротив у всьому світі, що призвело до санкцій, накладених на політиків і корпорації в Російській Федерації. Війна також залишила свій слід і в мистецтві, культурі, науці.

**Методи.** У цій статті ми аналізуємо війну в Україні та те, як її досліджують вчені з усього світу. Аналіз складається з трьох частин: (1) комплексний огляд кількості статей і матеріалів конференцій, пов'язаних із російсько-українською війною, у дисциплінах/категоріях, визначених у Web of Science (WoS); (2) основні теми та напрямки, обрані авторами; і (3) підсумок досліджень, які зосереджують увагу на питаннях, що стосуються COVID-19 під час війни. Остання тема особливо важлива, оскільки ситуація з COVID-19 в Україні була складною ще до вторгнення 2022 року, а воєнні дії, що тривають і зараз, ще більше її загострили. Для вищезазначеного аналізу ми використовували базу даних WoS з 2014 року (що охоплює період російську атаку на Крим, Донецьку і Луганську області) до грудня 2022 року.

**Результати та висновки.** Війна в Україні стала важливим предметом вивчення для науковців. У міру її розгортання, кульмінацією якого стала пряма масована атака в лютому 2022 року, дослідницькі зусилля охоплювали все більше наукових галузей. Ці царини варіюються від політології та соціологічних досліджень до психології та маркетингу, а також інженерних наук і ланцюгів постачання.

**Ключові слова:** COVID-19, війна, Україна, Росія, Web of Science, бібліометрія.