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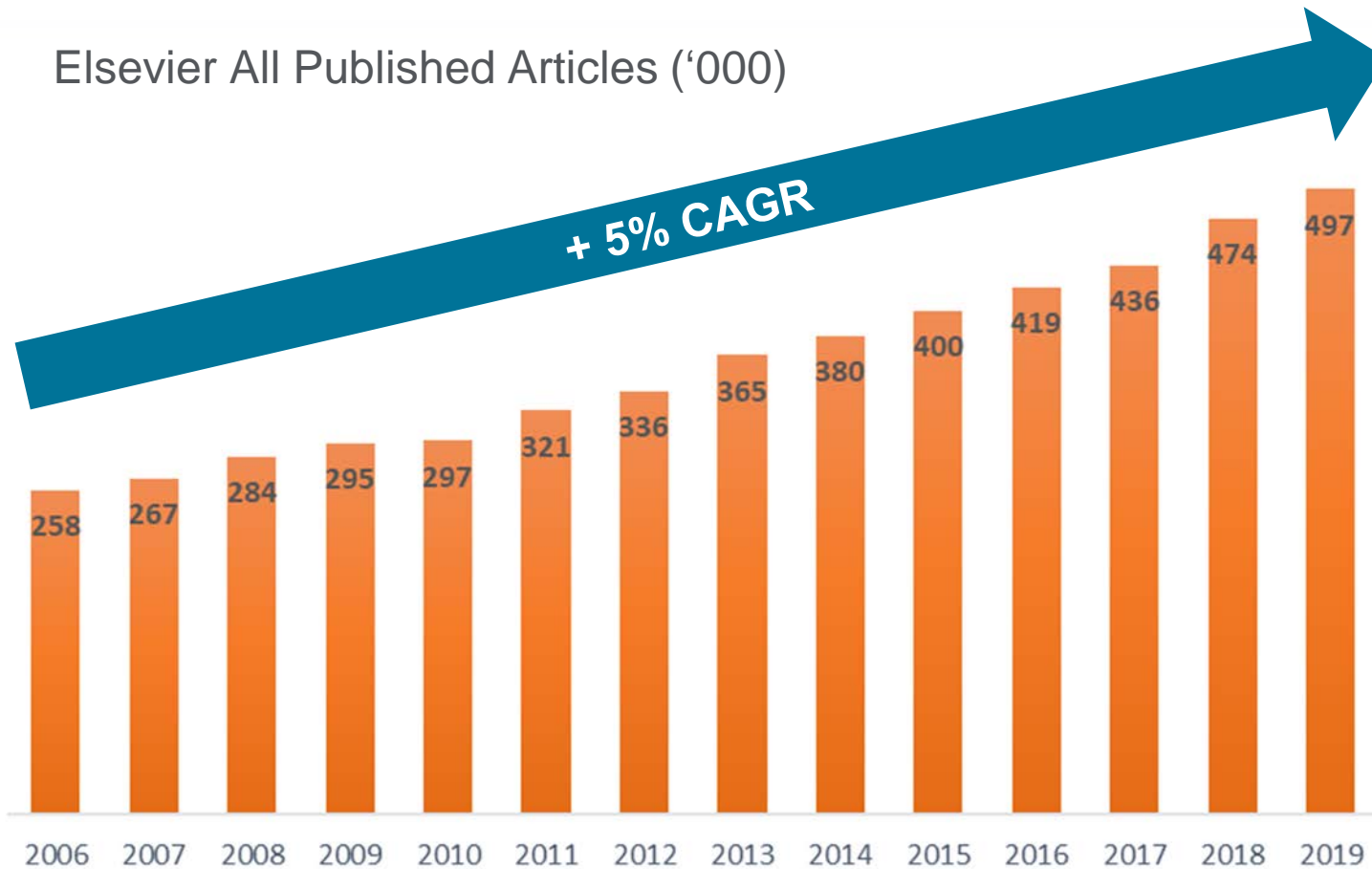
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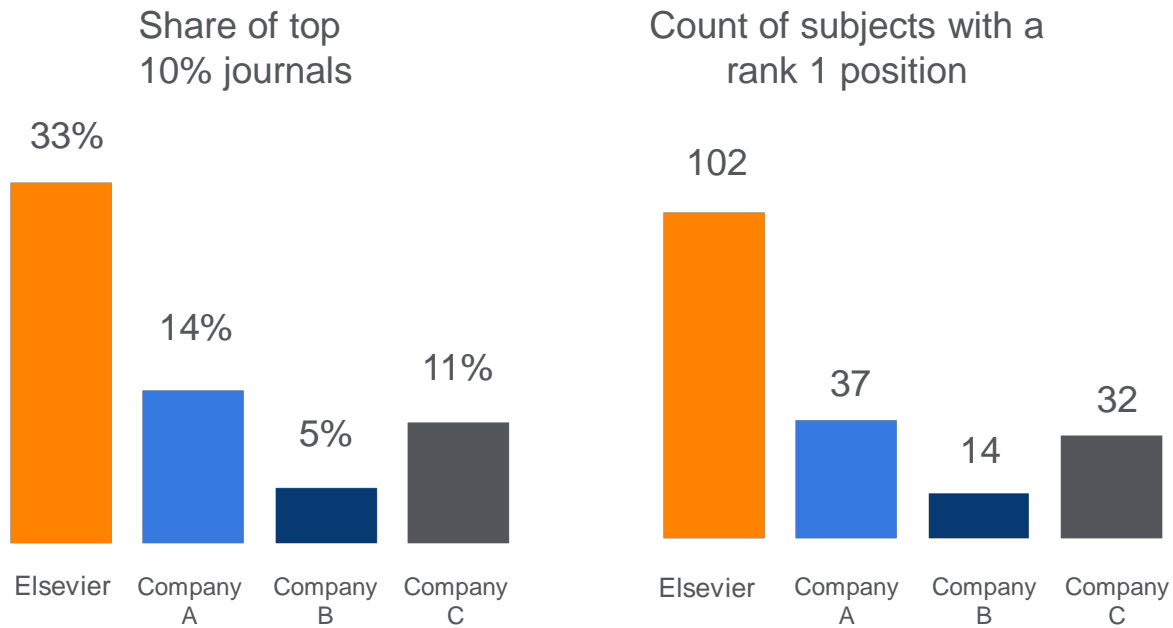
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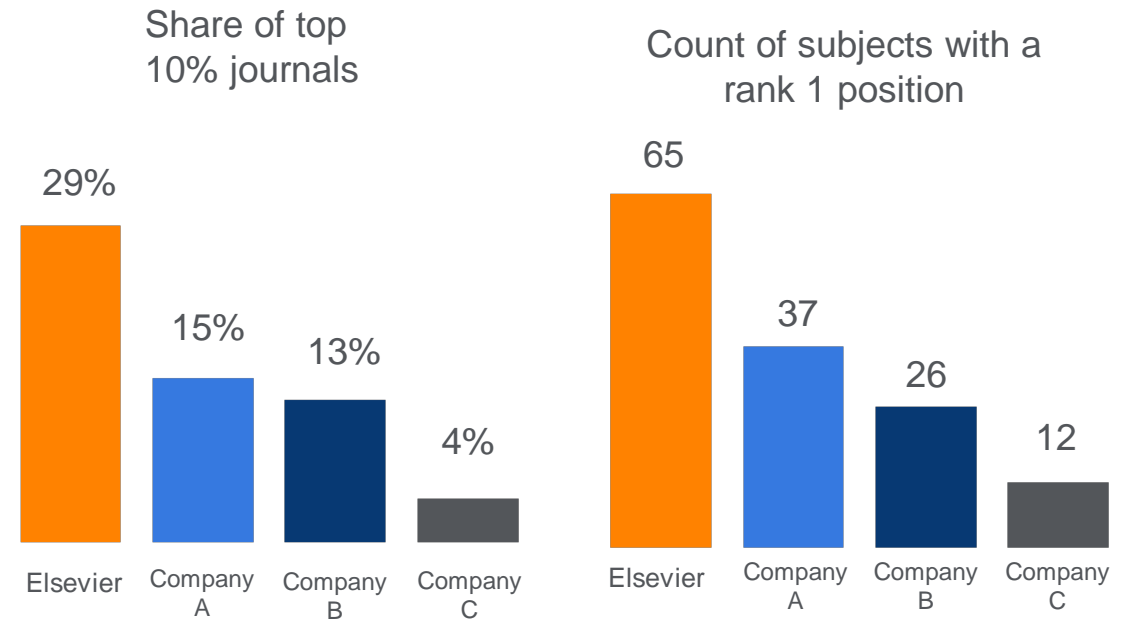
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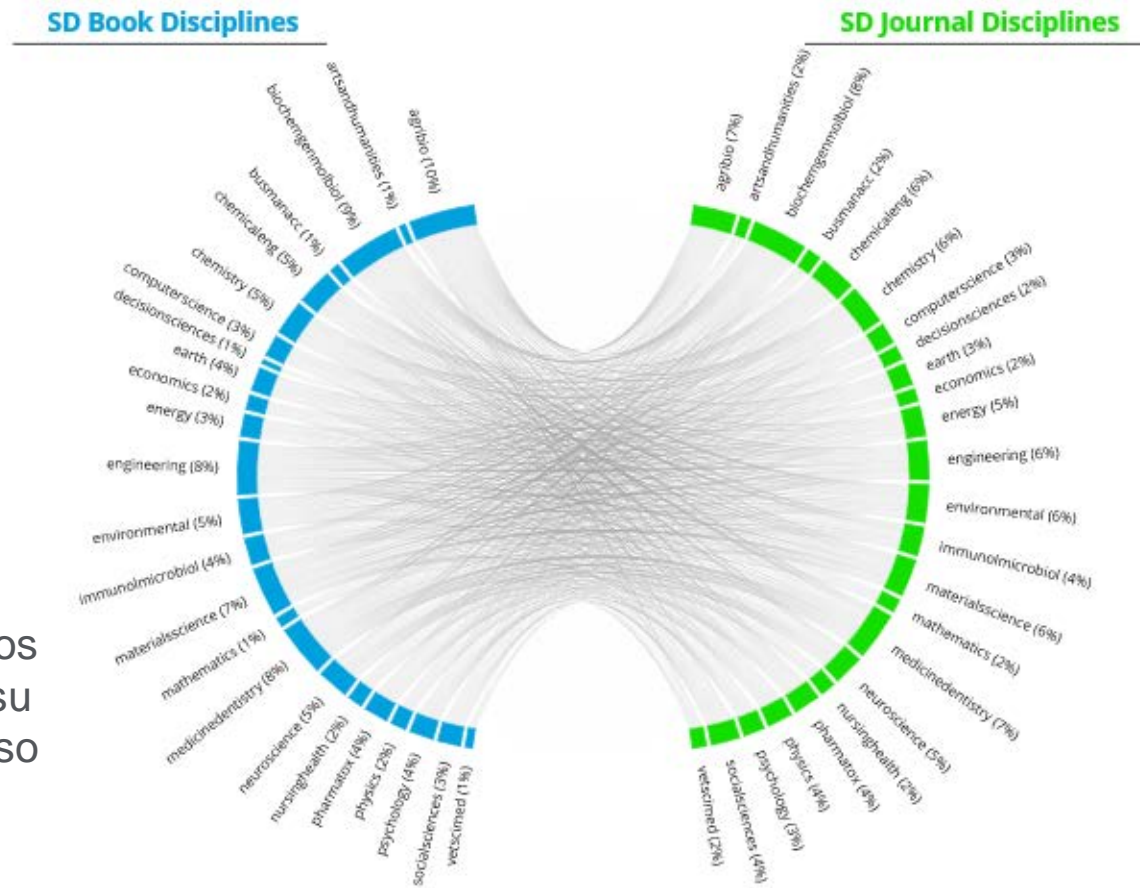
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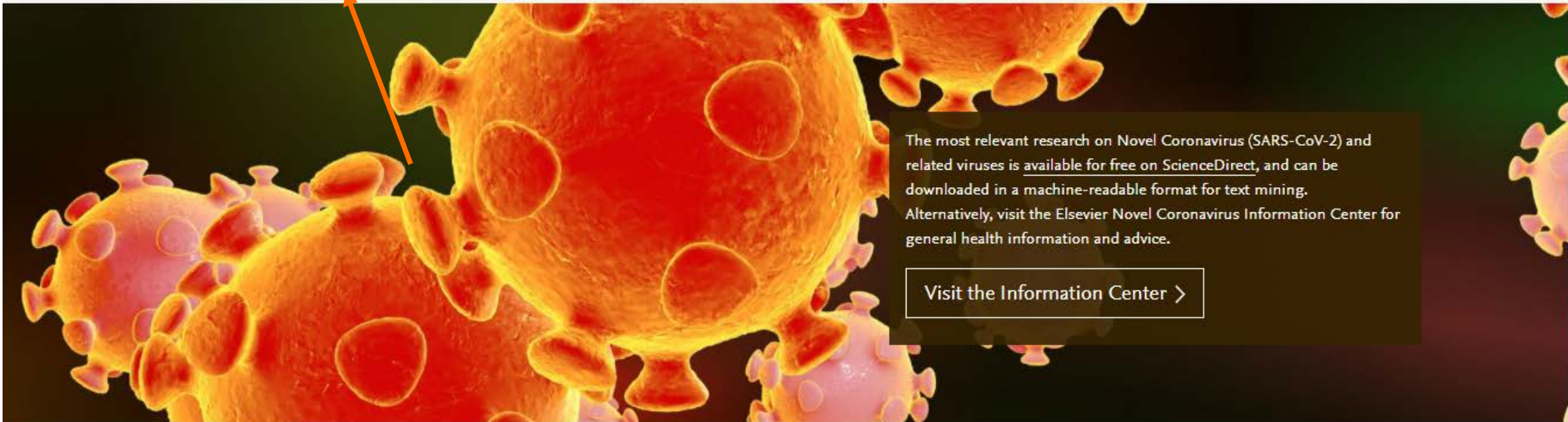


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Volume 332, 7 March 2019, Pages 339-350

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Gao, Zihang ^{a, b}, Shi, Qing ^{a, b, c, e}, Toshio Fukuda ^{b, c}, Li, Chang ^{a, b}, Huang, Qiang ^{b, c}

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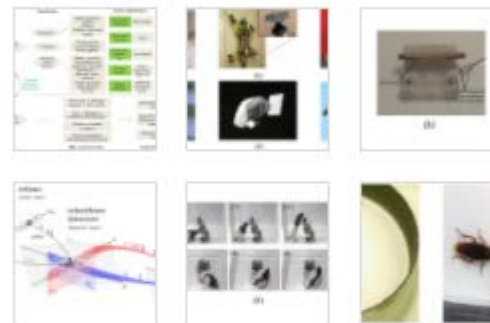
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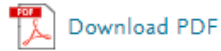
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learn from the biology have then been created. The imitation of animal behaviors has resulted in technological advances that have revolutionized how manmade machines move through air, in water, and over land. The biological world still has much in the way of suggestions for how to build, design, and program biomimetic robot systems whose capabilities will far outpace what is possible today [2].

Relatively, there has been increasing use of biomimetic robots to study animal behaviors in recent years thanks to improved sophistication of robot technology and decreased costs. The use of biomimetic robots instead of living animals for the study is significant in that by ingeniously introducing some techniques, scientists have access to more useful research tools that allow for broader scope of research and easier testing of hypotheses. Besides, biomimetic robots are easier to handle than real animals and their behavioral characteristics can be accurately controlled. Biomimetic robots can also imitate complex experimental phenomena [3], or simplify the research process and reduce the cost of research [4]. Researchers not only control the behaviors of biomimetic robots, but also change their environment at will to make design of experiments more standardized and repeatable to carry out a [causal analysis](#) of experimental phenomena [5]. Therefore, biomimetic robots have been used in much experimental research to mimic animal behaviors in a controlled way to study the focal animal response. In addition, biomimetic robots have been used as modeling tools for studying behavioral mechanisms [6]. It is worth noting that the application of biomimetic robots cannot only facilitate the study of general animal behaviors, but also has an important influence on the



B. Hassenstein, Considerations on the use of models in biology, *Universitas (Stuttg)*, 25 (1983) 275–280.

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Journal of the Neurological Sciences

Volume 427, 15 August 2021, 117517



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Maria A. Garcia ^{a, b}, Paula V. Barreras ^a, Allie Lewis ^a, Gabriel Pinilla ^c, Lori J. Sokoll ^d, Thomas Kickler ^d, Heba Mostafa ^d, Mario Caturegli ^d, Abhay Moghekar ^a, Kathryn C. Fitzgerald ^a, Hopkins Neuro-COVID-19 Group, Carlos A. Pardo ^{a, d}   

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Central and peripheral nervous system disorders can develop in patients with severe acute respiratory syndrome coronavirus 2 (SARS-CoV2) infection, during acute and/or postinfectious phases of coronavirus disease 2019 (COVID-19) [1,2]. These disorders are influenced by patient age, sex and pre-existing comorbidities and are mainly represented by cerebrovascular pathologies and encephalopathies [[3], [4], [5], [6], [7]]. The so-called “COVID-19 encephalitis” [8], acute disseminated encephalomyelitis (ADEM) [9], cranial neuropathies [10] and Guillain-Barré syndrome [11,12] have also been described as well as a high frequency of headache



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From: [Neurology and General Medicine \(Fourth Edition\)](#), 2008

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Neurosarcoidosis

Carlos A. Pardo-Villamizar M.D., in [Current Therapy in Neurologic Disease \(Seventh Edition\)](#), 2006

CRANIAL NEUROPATHY FORMS

Cranial neuropathies are one of the most frequent clinical forms of neurosarcoidosis and may manifest acutely following a monophasic or relapsing-remitting course. Facial palsy frequently presenting as bilateral facial involvement is perhaps one of the classic manifestations of the disease. In most patients, the presence of facial palsy or other cranial neuropathies is frequently associated with basal meningitis and may be the result of perineural inflammation rather

Bacterial Infections of the Central Nervous System

Diego Cadavid, in [Handbook of Clinical Neurology](#), 2010

Cranial neuropathies

Cranial neuropathies occur in one-quarter of patients with symptomatic neurosyphilis (Smikle et al., 1988). The frequency is highest (up to 50%) in acute syphilitic meningitis (Merritt et al., 1946). Any cranial nerve can be affected with sudden or insidious onset; 40% involved the seventh and/or eighth and 25% the second, third, or sixth cranial nerves (Tramont, 1995). Fifth cranial neuropathy

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An overview of biomimetic robots with animal behaviors

Zihang Gao^{a,b}, Qing Shi^{a,b,*}, Toshio Fukuda^{b,c}, Chang Li^{a,b}, Qiang Huang^{b,c}

^aIntelligent Robotics Institute, School of Mechatronical Engineering, Beijing Institute of Technology, Beijing 100081, China

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ABSTRACT

The study of biomimetic robots and that of animal behaviors are mutually-reinforcing and inseparable. Animals, through long-term evolutionary processes, have developed innate advantages in locomotion, cognition, information processing and control. Inspired by their evolution, biomimetic robots are integrated with biological characteristics which give them more powerful motor abilities, cognitive abilities and more delicate control processes than other robots. At the same time, the development of biomimetic technology and the excellent interaction characteristics of biomimetic robots also promote the study

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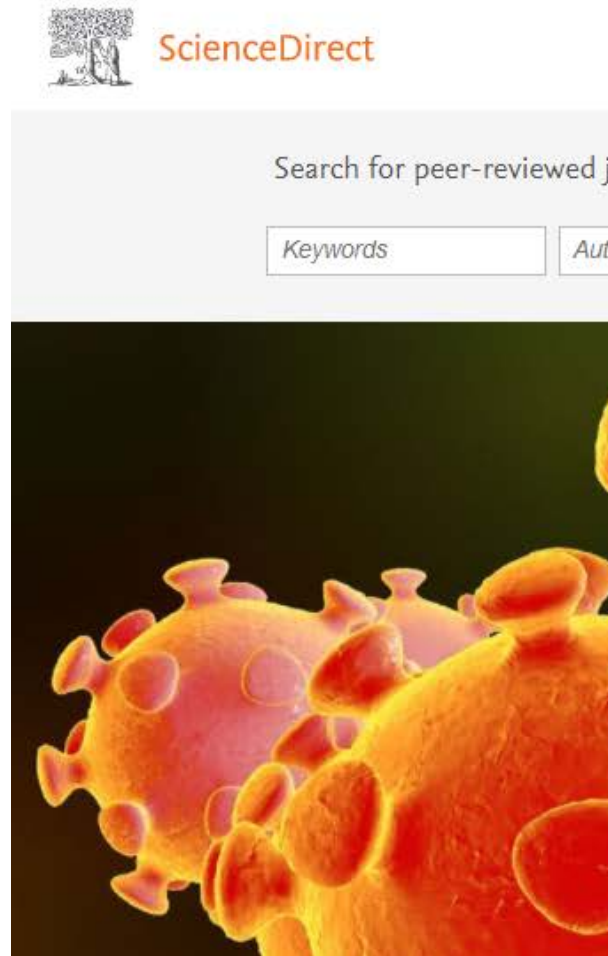
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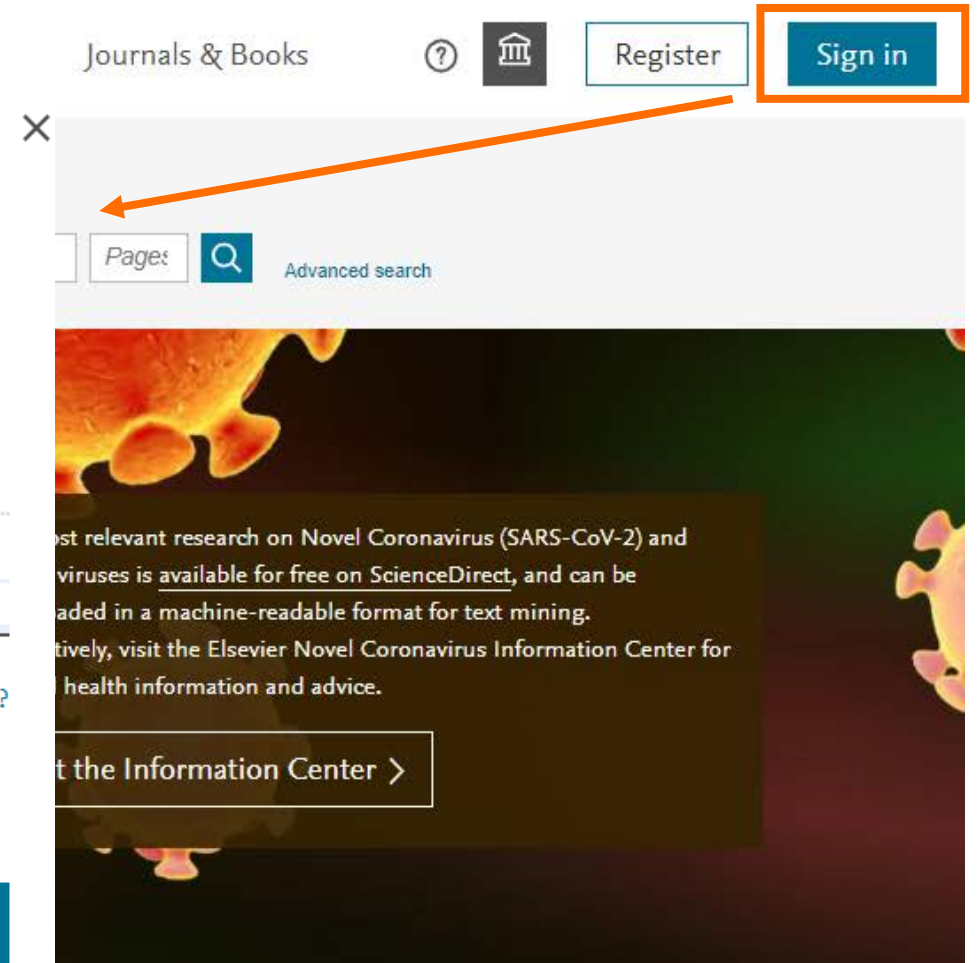
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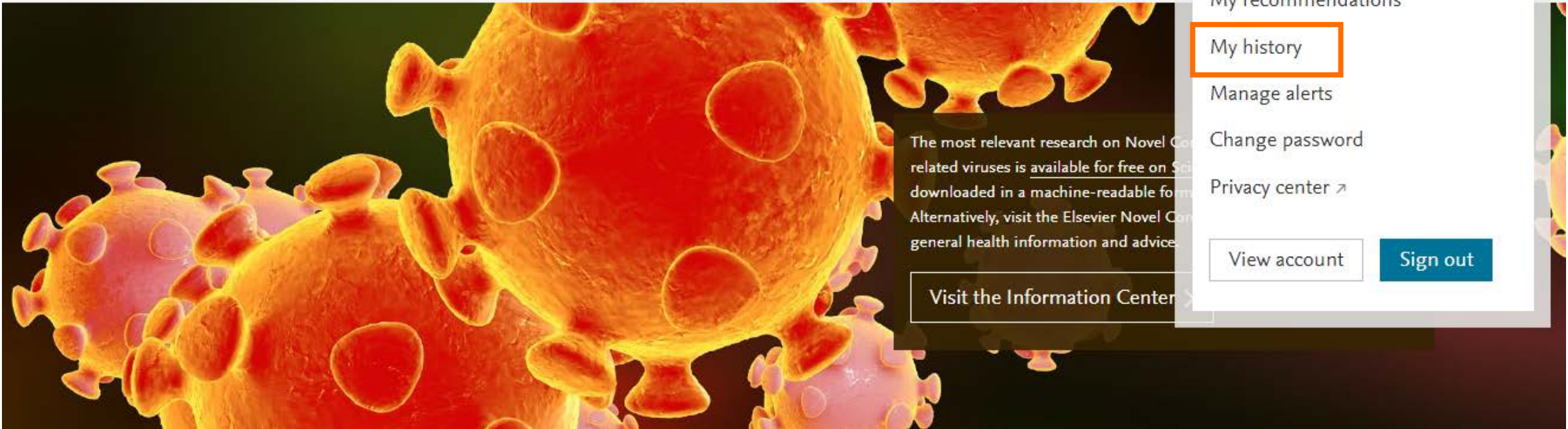
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