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Citation Classics: Highly Cited Papers on COVID-19 Drugs, Vaccines and Medicines

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Citation Classics: Highly Cited Papers on COVID-19 Drugs, Vaccines and Medicines

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Abstract

The number of citations of a scientific article is considered as the weight of that work in the field of interest. Bibliometric/Scientometric analysis of the most cited articles conducted in some medical disciplines has identified the most relevant scientific contributions that pushed forward knowledge and practice of that discipline. We conducted a bibliometrics/Scientometric analysis of the most cited articles in Covid-19 Drugs, Vaccines and Medicines, by extracting relevant words that identify and querying the Scopus online database. A rank with the 100, 500 and 1000 above Citations of the most cited articles was obtained, based on the absolute number of citations. Word(s) extracted from the Scopus database. Among the Highly cited articles there are 22 articles received more than 1000 Citations, 83 articles have recorded more than 500 Citations and 816 articles recorded 100 Citations. A total of 22005 scientific journals had published the top 816 most cited articles in Covid-19 Drugs, Medicine and Vaccines of publications are published in reputed journals like The Lancet, Cell, Cell Research, New England Journal of Medicine, International Journal of Antimicrobial Agents, The Lancet Infectious Diseases, Allergy: Europeans Journal of Allergy and Clinical Immunology, Military Medical Research, BioScience Trends, Journal of Hospital Infection, The Lancet Respiratory Medicine etc..

Keywords: Scientometrics; Citations; Citation Classics; Highly Cited Papers, Covid-19; Drugs; Vaccines; Medicine

INTRODUCTION

Citation Classics will enable the authors of these papers to discuss their work retrospectively. It is the kind of science ‘reviewing’ rarely seen in scientific journals. It will provide a kind of living history. Authors will discuss interesting aspects in the development of

their techniques, the role played by coauthors or others, and the encouragement received from colleagues. This is the human side of science.

In recent years, efforts have been made to define relevant articles in Covid-19 specialty areas (Drugs, Medicines and Vaccines) by identifying the most cited articles. We therefore employed a bibliometrics analysis aimed at identifying the top 100 most cited scientific articles on Covid-19 Vaccines, Drugs and medicines.

Short History of Citation Classics Commentaries by Eugene Garfield

From 1977 to 1993, four thousand Citation Classic Commentaries were published in Current Contents. The full texts of these mostly one-page articles are now available in an open access server at: <http://garfield.library.upenn.edu/classics.html>

On January 3, 1977 essay -" Introducing Citation Classics: The human side of scientific papers "appeared in Current Contents. The first group was selected from the 500 papers most-cited from 1961-1975. This collection contained some of the most-cited papers ever published.

First Citation Classics commentary by Oliver H. Lowry was a fitting choice as his 1951 paper is the most-cited paper in the history of science.¹ Over the past eleven years since this feature of Current Contents was concluded, numerous readers have requested copies of these commentaries. The reason is quite simple : most libraries do not store the print version of Current Contents.

What is a Citation Classic?

A Citation Classic is a highly cited publication as identified by the Science Citation Index (SCI) the Social Sciences Citation Index (SSCI), or the Arts & Humanities Citation Index (A&HCI). Citation rates differ for each discipline. The number of citations indicating a classic in botany, a small field, might be lower than the number required to make a classic in a large field like biochemistry. In general, a publication cited more than 400 times should be considered a classic; but in some fields with fewer researchers, 100 citations might qualify a work.

Citation Classics authors were asked to write an abstract and a commentary about the publication, emphasizing the human side of the research - how the project was initiated, whether any obstacles were encountered, and why the work was highly cited. Undoubtedly most of these

authors will not only be among the most cited, but also the most highly-qualified in their respective fields. The candidates for Citation Classics will be selected from a group of 500 papers most cited during the years 1961-1975. Many of these have been listed before in Current Contents.

OBJECTIVES OF THE STUDY

The following are the major objectives of this study

- To identify most cited Sources.
- To identify the most cited Countries;
- To identify the most cited Authors;
- To identify the highly Cited papers;
- To find research output on Covid-19 Drugs, Vaccines and Medicine;
- To find Field-Weighted Citation Impact of Highly Cited Papers;

MATERIALS AND METHODS

The Scopus tool, which restitutes for each article the number of citations, was used to search for the most cited articles of Covid-19 Drugs, Vaccines and Medicines interest. The search was conducted by introducing in the field “Covid-19 Drugs” or Covid-19 Vaccines” and Covid-19 Medicines, general terms that could capture all relevant articles. The top most cited 100 articles were identified. A preliminary analysis of number of citations allowed us to set a cut-off of 100, 500 and 1000 Citations, so all articles that received a higher number of citations were extracted and listed to generate a rank based on absolute number of citations received by each article. Concerning the country origin of the articles, individual countries have been listed if the authors derived from countries.

Field-Weighted Citation Impact shows how well cited this document is when compared to similar documents. A value greater than 1.00 means the document is more cited than expected according to the average. It takes into account: (i) The year of publication (ii) Document type, (iii) Disciplines associated with its source. The FWCI is the ratio of the document’s citations to the average number of citations received by all similar documents over a three-year window. Each discipline makes an equal contribution to the metric, which eliminates differences in researcher citation behavior.

DATA ANALYSIS AND INTERPRETATIONS

Covid-19 Drugs: Citation Classic Papers

Among the Highly cited articles there were 22 articles received more than 1000 Citations, 83 articles received more than 500 Citations and 816 articles received 100 Citations. A total of 22005 scientific journals had published the top 816 most cited articles in Covid-19 Drugs, Medicine and Vaccines of publications are published in reputed journals like The Lancet, Cell, Cell Research, New England Journal of Medicine, International Journal of Antimicrobial Agents, The Lancet Infectious Diseases, Allergy: Europeans Journal of Allergy and Clinical Immunology, Military Medical Research, BioScience Trends, Journal of Hospital Infection, The Lancet Respiratory Medicine etc.. The most cited articles are: Zhou, F.a, et al. (2020), Clinical course and risk factors for mortality of adult inpatients with COVID-19 in Wuhan, China: a retrospective cohort study(Article)(Open Access), The Lancet, Volume 395, Issue 10229, 28 March - 3 April 2020, Pages 1054-1062 with 6860 Citations from China, followed by Hoffmann, M (2020), SARS-CoV-2 Cell Entry Depends on ACE2 and TMPRSS2 and Is Blocked by a Clinically Proven Protease Inhibitor(Article)(Open Access), Cell, Volume 181, Issue 2, 16 April 2020, Pages 271-280.e8 with 3845 Citations from Germany and Li, W.a et al.(2003), Angiotensin-converting enzyme 2 is a functional receptor for the SARS corona virus(Article)(Open Access), Nature, Volume 426, Issue 6965, 27 November 2003, Pages 450-454 with 2425 Citations from USA.

Classic papers (Highly Cited Papers)

	Documents	Citations	<2017	2017	2018	2019	2020	2021	Sub total	Total
		Total	8864	483	437	501	43737	10428	55586	64450
1	Clinical course and risk factors for mortality of adult inpa...	2020				2	5488	1370	6860	6860
2	SARS-CoV-2 Cell Entry Depends on ACE2 and TMPRSS2 and Is	2020				3	2966	876	3845	3845

	Blo...									
3	Angiotensin-converting enzyme 2 is a functional receptor for...	2003	962	38	30	22	1139	234	1463	2425
4	Remdesivir and chloroquine effectively inhibit the recently ...	2020				3	1894	402	2299	2299
5	First case of 2019 novel coronavirus in the United States	2020				1	1821	309	2131	2131
6	Knocking down barriers: Advances in siRNA delivery	2009	1381	193	172	175	125	43	708	2089
7	Hydroxychloroquine and azithromycin as a treatment of COVID-...	2020				1	1680	327	2008	2008
8	Cryo-EM structure of the 2019-nCoV spike in the prefusion co...	2020					1498	394	1892	1892
9	A trial of lopinavir-ritonavir in adults hospitalized with s...	2020				1	1566	319	1886	1886
10	Tissue distribution of ACE2 protein, the functional receptor...	2004	242	11	7	4	1191	310	1523	1765
11	Characterization of a novel coronavirus associated with seve...	2003	1512	26	22	16	146	29	239	1751
12	Structure, Function, and Antigenicity of the SARS-CoV-2 Spik...	2020				1	1288	399	1688	1688
13	The genome sequence of the SARS-associated coronavirus	2003	1319	14	15	16	109	25	179	1498
14	A crucial role of angiotensin	2005	246	14	8	12	899	188	1121	1367

	converting enzyme 2 (ACE2) in ...									
15	Severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2)...	2020					1081	270	1351	1351
16	Angiotensin-converting enzyme 2 protects from severe acute l...	2005	366	18	24	19	619	110	790	1156
17	Clinical characteristics of 140 patients infected with SARS-...	2020				2	952	182	1136	1136
18	The origin, transmission and clinical therapies on coronavir...	2020				1	922	201	1124	1124
19	Breakthrough: Chloroquine phosphate has shown apparent effic...	2020					935	135	1070	1070
20	In vitro antiviral activity and projection of optimized dosi...	2020				1	872	175	1048	1048
21	Remdesivir for the treatment of COVID-19 — Final report	2020				1	703	328	1032	1032
22	Persistence of coronaviruses on inanimate surfaces and their...	2020					821	182	1003	1003
23	Are patients with hypertension and diabetes mellitus at incr...	2020				2	855	137	994	994
24	Immune Signaling by RIG-I-like Receptors	2011	498	93	101	118	125	31	468	966
25	Compassionate use of remdesivir for	2020					783	180	963	963

	patients with severe Cov...									
26	Temporal profiles of viral load in posterior oropharyngeal s...	2020				2	723	233	958	958
27	Remdesivir in adults with severe COVID-19: a randomised, dou...	2020					683	226	909	909
28	Mice lacking expression of secondary lymphoid organ chemokin...	1999	796	15	12	15	13	3	58	854
29	Clinical evidence does not support corticosteroid treatment ...	2020				1	746	101	848	848
30	Genomic characterization of the 2019 novel human-pathogenic ...	2020				1	684	141	826	826
31	Pharmacologic Treatments for Coronavirus Disease 2019 (COVID...	2020				1	657	160	818	818
32	Pathogenic human coronavirus infections: causes and consequen...	2017		5	6	7	651	140	809	809
33	Chloroquine is a potent inhibitor of SARS coronavirus infect...	2005	66	4	2	4	609	109	728	794
34	Role of lopinavir/ritonavir in the treatment of SARS: Initia...	2004	134	4	4	10	549	89	656	790
35	Coronavirus main proteinase (3CL ^{pro}) Structure: B...	2003	499	12	6	3	216	54	291	790
36	Structure of the	2020					570	217	787	787

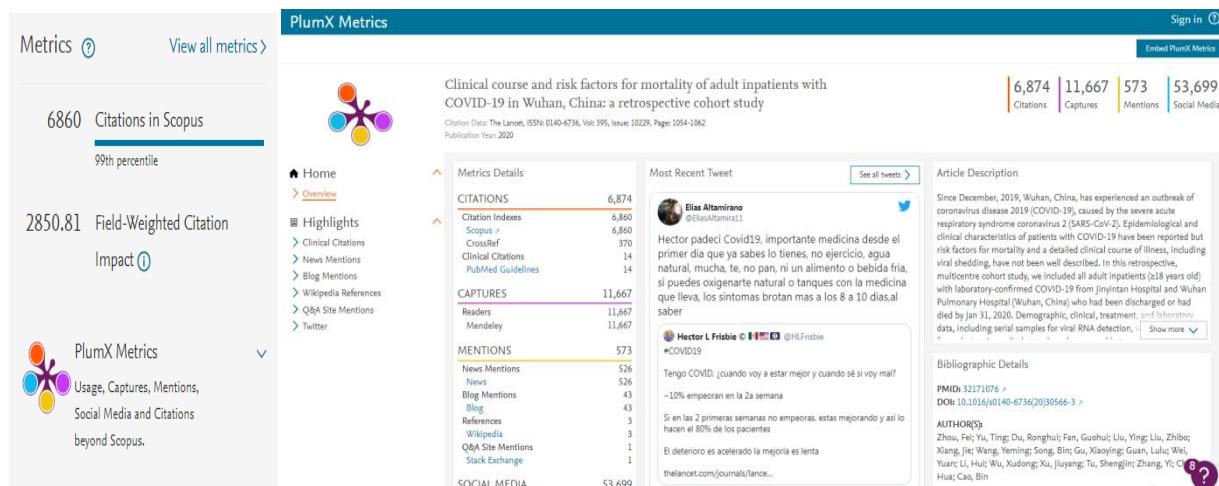
	SARS-CoV-2 spike receptor-binding domain bo...									
37	Structural biology: Structure of SARS coronavirus spike rece...	2005	257	10	15	15	392	78	510	767
38	Renin-angiotensin-aldosterone system inhibitors in patients ...	2020				1	651	110	762	762
39	Evidence for Gastrointestinal Infection of SARS-CoV-2	2020					609	150	759	759
40	Epidemiologic Features and Clinical Course of Patients Infec...	2020					617	132	749	749
41	The trinity of COVID-19: immunity, inflammation and interven...	2020					521	225	746	746
42	Hydroxychloroquine, a less toxic derivative of chloroquine, ...	2020				1	606	121	728	728
43	A rapid advice guideline for the diagnosis and treatment of ...	2020				1	610	98	709	709
44	Angiotensin-converting enzyme 2 (ACE2) as a SARS-CoV-2 recep...	2020					577	126	703	703
45	Structural bioinformatics and its impact to biomedical scienc...	2004	586	26	13	36	18	5	98	684
46	Structural basis of receptor recognition by SARS-CoV-2	2020					509	165	674	674
47	Characterization of	2020				1	501	165	667	667

	spike glycoprotein of SARS-CoV-2 on virus...									
48	Comparative therapeutic efficacy of remdesivir and combination therapy in COVID-19 patients	2020				1	562	96	659	659
49	Clinical and biochemical indexes from 2019-nCoV infected patients	2020					550	107	657	657
50	The socio-economic implications of the coronavirus pandemic	2020					435	221	656	656

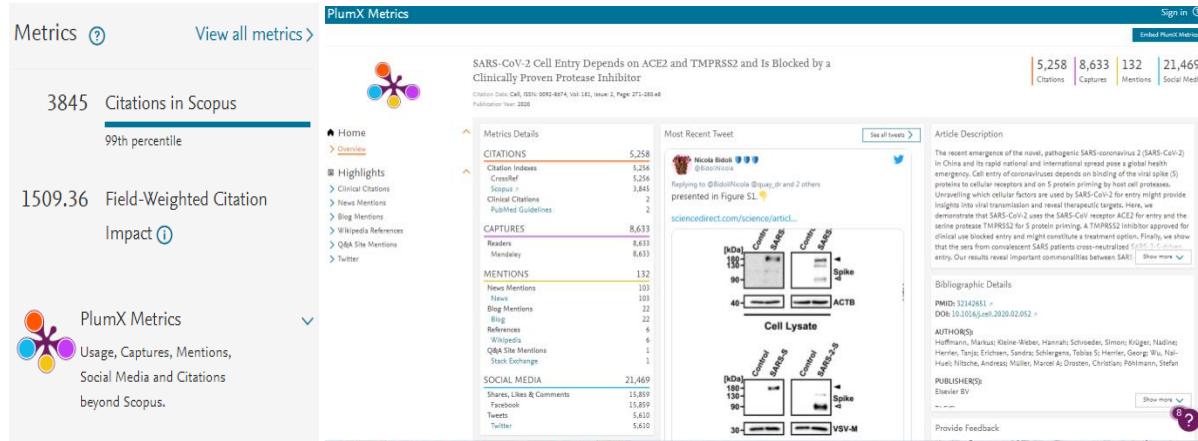
PlumX Metrics:

PlumX is a web-based platform that offers facts about the use and effect of studies and scholarly products. It belongs to the small but growing number of influential network of alt-metric providers. ... Altmetrics additionally consist of a extensive type of scholarly products, which includes articles, patents, datasets, figures, and videos.

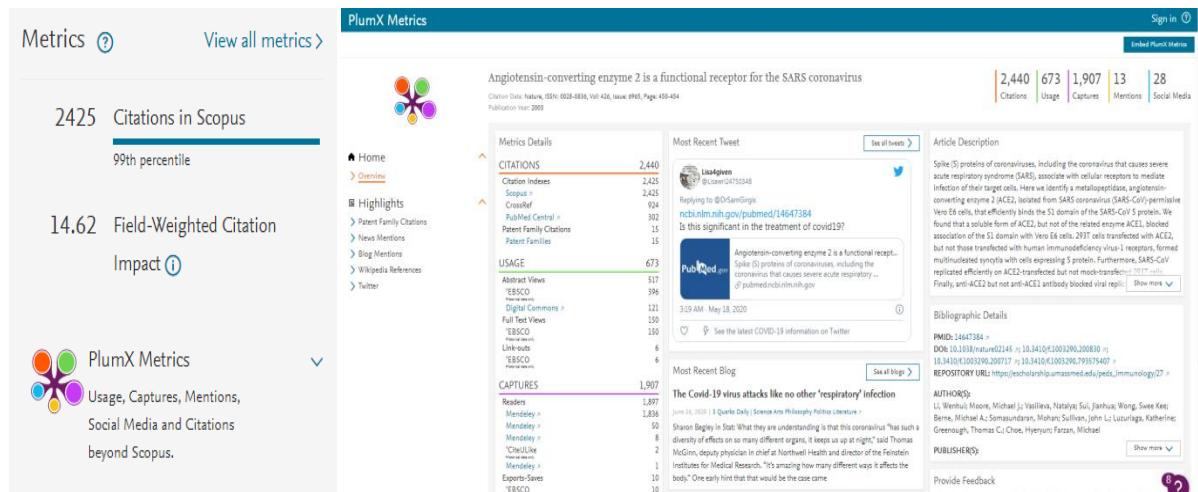
Paper 1: Highly Cited paper with PlumX Metrics



Paper 2: Highly Cited paper with PlumX Metrics



Paper 3: Highly Cited paper with PlumX Metrics



Covid-19 Vaccines: Citation Classics

In Table 2, all terms used for searching the Scopus database are listed. A total of 6038 articles were identified that produced Scopus search. Top most cited 105 articles collected with the range of 100 to 831 citations. The most cited papers indexed in high impact journals: The Lancet, Nature Communication, Journal of Advanced Research, Cell Asian Pacific Journal of Allergy and Immunology, JAMA Cardiology, Nature Reviews Drugs Discovery, Emerging

Microbes and Infections, Journal of Medical Virology, Journal of Pharmaceutical Analysis, BioScience Trends etc., and covers all the classical papers. It is noted that 18 papers received more than 500 Citations, 202 papers have registered more than 100 Citations and only 3 papers received more than 1000 Citations. The most cited articles are: Wrapp, D.a, et al. (2020), Cryo-EM structure of the 2019-nCoV spike in the prefusion conformation(Article), Science, Volume 367, Issue 6483, 13 March 2020, Pages 1260-1263 with 1892 Citation(Field Weighted Citation Impact is 743.12 using PlumX Metrics) from United States followed by Walls, A.C.a et al., (2020), Structure, Function, and Antigenicity of the SARS-CoV-2 Spike Glycoprotein(Article)(Open Access), Cell, Volume 181, Issue 2, 16 April 2020, Pages 281-292.e6 with 1988 Citations from USA and France (Field Weighted Citation Impact is 663.72 using metrics) and Marra, M. A. (2003), The genome sequence of the SARS-associated coronavirus(Article)(Open Access), Science, Volume 300, Issue 5624, 30 May 2003, Pages 1399-1404 with 1498 Citations from Canada (Field Weighted Citation Impact is 30.19 using metrics).

Citation Classics: Highly Cited papers

	Documents	Citatio ns	<201 7	2017	201 8	201 9	2020	2021	Sub total	Total
Total		3099	291	284	292	8850	2469	12186	15285	
1	Cryo-EM structure of the 2019-nCoV spike in the prefusion co...	2020				1498	394	1892	1892	1892
2	Structure, Function, and Antigenicity of the SARS-CoV-2 Spik...	2020			1	1288	399	1688	1688	1688
3	The genome sequence of the SARS-associated coronavirus	2003	1319	14	15	16	109	25	179	1498
4	How will country-based mitigation measures influence the cou...	2020				1	659	166	826	826
5	Structural biology: Structure of SARS coronavirus spike rece...	2005	257	10	15	15	392	78	510	767
6	Angiotensin-converting enzyme 2 (ACE2) as a SARS-CoV-2 recep...	2020					577	126	703	703
7	Characterization of spike glycoprotein of SARS-	2020				1	501	165	667	667

	CoV-2 on virus									
8	COVID-19 infection: Origin, transmission, and characteristic...	2020				470	156	626	626	
9	A SARS-CoV-2 protein interaction map reveals targets for drug...	2020				430	183	613	613	
10	Structure of M ^{pro} from SARS-CoV-2 and discovery o...	2020				417	175	592	592	
11	Broad-spectrum antiviral GS-5734 inhibits both epidemic and ...	2017		3	17	14	461	91	586	586
12	Community-acquired pneumonia requiring hospitalization among...	2015	113	114	107	100	127	19	467	580
13	Severe acute respiratory syndrome	2004	338	26	10	9	166	27	238	576
14	Viral pneumonia	2011	306	61	51	59	90	7	268	574
15	Targets of T Cell Responses to SARS-CoV-2 Coronavirus in Hum...	2020					389	177	566	566
16	The spike protein of SARS-CoV - A target for vaccine and the...	2009	93	15	8	11	348	79	461	554
17	Immune responses in COVID-19 and potential vaccines: Lessons...	2020					424	83	507	507
18	Coronavirus avian infectious bronchitis virus	2007	242	32	48	54	102	22	258	500

Paper 1: Highly Cited paper with PlumX Metrics

Metrics (?) View all metrics >

1892 Citations in Scopus
99th percentile

743.12 Field-Weighted Citation Impact (i)

PlumX Metrics
Usage, Captures, Mentions, Social Media and Citations beyond Scopus.

PlumX Metrics

Cryo-EM structure of the 2019-nCoV spike in the prefusion conformation

Citation Data Science, ISSN 109-0203, Vol 347, issue 6483, Page 126-126

Publication Year: 2020

Metrics Details

CITATIONS	1,892
Citation Indexes	1,892
Scopus	1,892
CrossRef	28
CAPTURES	3,992
Readers	3,992
Mendeley	3,771
Mendeley	221
MENTIONS	1
New Mentions	1
News	1
SOCIAL MEDIA	447
Shares, Likes & Comments	361
Facebook	361
Tweets	86
Twitter	86

Most Recent Tweet See all tweets >

Graham Dales @GDCDales
Replying to @Bob_Jab
I am biased as these are Canadian colleagues but work from Jason Mofat @DonnellyCentre and Daniel Schramek @DanielSchramek @SinaHealth is crazy good
e.g. nature.com/articles/s41586-020-0051-1...
and

Article Description

The outbreak of a novel coronavirus (2019-nCoV) represents a pandemic threat that has been declared a public health emergency of international concern. The CoV spike (S) glycoprotein is a target for vaccines, therapeutic monoclonal antibodies, and drugs. To facilitate structural analysis, we determined an alternating 3.25-angstrom-resolution cryo-electron microscopy structure of the 2019-nCoV S trimer in the prefusion conformation. The premonitory state of the trimer has one of the three receptor-binding domains (RBDs) rotated up in a receptor-accessible conformation. We also provide biophysical and structural evidence that the 2019-nCoV S protein binds angiotensin-converting enzyme 2 (ACE2) with higher affinity than does severe... Show more >

Bibliographic Details

PMID: 32165588 >
DOI: 10.1126/science.abb9902 >

AUTHORS(9)

Logathasan, Sampath K; Schleicher, Kristie; Malik, Ahmad; Quevedo, Rene; Langille, Ellen; Teng, Katie; Oh, Robin H.; Bahad, Bhavisha; Tsai, Ridip; Samvarth-Tehran, Payman; Pugh, Trevor J; Gingras, Anne-Claude; Schramek, Daniel

8

Paper 2: Highly Cited paper with PlumX Metrics

The figure shows a screenshot of the PlumX Metrics interface. At the top left, it says "Metrics" and "View all metrics >". Below that, there are two main sections: "Citations in Scopus" (1688) and "Field-Weighted Citation Impact" (663.72). The Scopus section includes a "99th percentile" badge. To the right, a detailed view of a publication record is shown. The title is "Structure, Function, and Antigenicity of the SARS-CoV-2 Spike Glycoprotein". It lists "CITATIONS" (1,688), "CAPTURES" (5,555), and "MENTIONS" (77). The "CAPTURES" section includes a "Readers" badge. The "MENTIONS" section includes "News Mentions" (64), "Blog Mentions" (9), "Q&A Site Mentions" (9), "Stack Exchange" (2), and "References" (2). On the right, there's a "Metrics Details" sidebar with tabs for Home, Overview, Highlights, and various citation sources like CrossRef, Scopus, and Google Scholar. A "Most Recent Tweet" from Hans Sars (@hanssars) is displayed, along with a "Most Recent Blog" post from Chevreuil COVID. The interface also features a sidebar for "Article Description" and "Bibliographic Details".

Paper 2: Highly Cited paper with PlumX Metrics

Metrics [View all metrics >](#)

1498 Citations in Scopus
99th percentile

30.91 Field-Weighted Citation Impact

PlumX Metrics
Usage, Captures, Mentions, Social Media and Citations beyond Scopus.

PlumX Metrics

The genome sequence of the SARS-associated coronavirus

Chaitin-Davidson, SARS-03-0071, Vol. 300, Issue 5646, Page 1399-1401
Publication Year: 2000

Metrics Details

	Value
CITATIONS	1,567
Scopus Citations	1,499
CrossRef	967
PubMed Central	380
Patent Family Citations	69
Patent Families	69
ABSTRACTS	1,073
EBSCO	1,073
Fair Use Test Views	834
EBSCO	834
LINKS	10
EBSCO	10
CAPTURES	814
Readers	784
Mendeley	782
CrossLink	2
Facebook	19

Most Recent Tweet

[See all tweets >](#)

Article Description

We sequenced the 29,731-base genome of the severe acute respiratory syndrome (SARS)-associated coronavirus known as the ToZ isolate. The genome sequence reveals that this coronavirus is only moderately related to other known coronaviruses, including two human coronaviruses, *SARS* and *OC43*. Analysis of the genome sequence and predicted protein indicates that the virus does not closely resemble any of the three previously known groups of coronaviruses. The genome sequence will aid in the diagnosis of SARS virus infection in humans and potential animal hosts (using diagnostic tests such as enzyme immunoassays) in the development of antibodies (including neutralizing antibodies), and in the identification of potential epitopes for vaccine development.

Bibliographic Details

PMDID: 1279803 >
DOI: 10.1126/science.1085952 >

AUTHORS:
Marta, Mariano; Jones, Steven J.; McAttee, Caroline R.; Holt, Robert A.; Brooks-Wilson, Jennifer R.; Holt, Robert A.; Chiu, Yvonne K.; Jaschinski, Jennifer K.; Barber, Sarah A.; Chiu, Yvonne K.; Almouzni, Georges; Gao, Jun; Druce, Julian D.; Dorey, Christopher J.; HogenEsch, Nettie; Moore, Michael; McDowell, Helen; Mortanay, Shirley B.; Peleg, Barak; ...

Covid-19 Medicine: Citation Classics

In Table 3, Covid-19 Medicines terms used for searching the Scopus database are listed. A total of 9533 articles were identified. Top most cited 26 articles with more than 400 Citations. It is noted that 5 papers with more than 1000 Citations followed by 15 papers with more than 500 Citations and 141 papers with more than 100 Citations. The most Cited Classic Papers are: Chan, J.F.-W. et al., (2019), A familial cluster of pneumonia associated with the 2019 novel coronavirus indicating person-to-person transmission: a study of a family cluster(Article)(Open Access), The Lancet, Volume 395, Issue 10223, 15 - 21 February 2020, Pages 514-523 with 2909 Citations from China (Field Weighted Citation Impact is 1215.43) followed by Rota, P.A. et al., (2003) Characterization of a novel coronavirus associated with severe acute respiratory syndrome(Article)(Open Access), Science, Volume 300, Issue 5624, 30 May 2003, Pages 1394-1399 with 1751 Citations from USA, Netherland and Germany (Field Weighted Citation Impact is 33.74) and Shi, H.a,b et al., (2020), Radiological findings from 81 patients with COVID-19 pneumonia in Wuhan, China: a descriptive study(Article)(Open Access), The Lancet Infectious Diseases, Volume 20, Issue 4, April 2020, Pages 425-434 with 1184 Citations from China (Field Weighted Citation Impact is 355. 33).

Citations Classics: Highly Cited Papers

S. No	Documents	Citations	<2017	2017	2018	201 9	2020	2021	Sub total	Total
		Total	2958	258	260	269	19746	4666	25199	28157
1	A familial cluster of pneumonia associated with the 2019 nov...	2020				5	2491	413	2909	2909
2	Characterization of a novel coronavirus associated with seve...	2003	1512	26	22	16	146	29	239	1751
3	Radiological findings from 81 patients with COVID-19 pneumon...	2020				1	984	199	1184	1184
4	Angiotensin-converting enzyme 2 protects from severe acute l...	2005	366	18	24	19	619	110	790	1156
5	Breakthrough:	2020					935	135	1070	1070

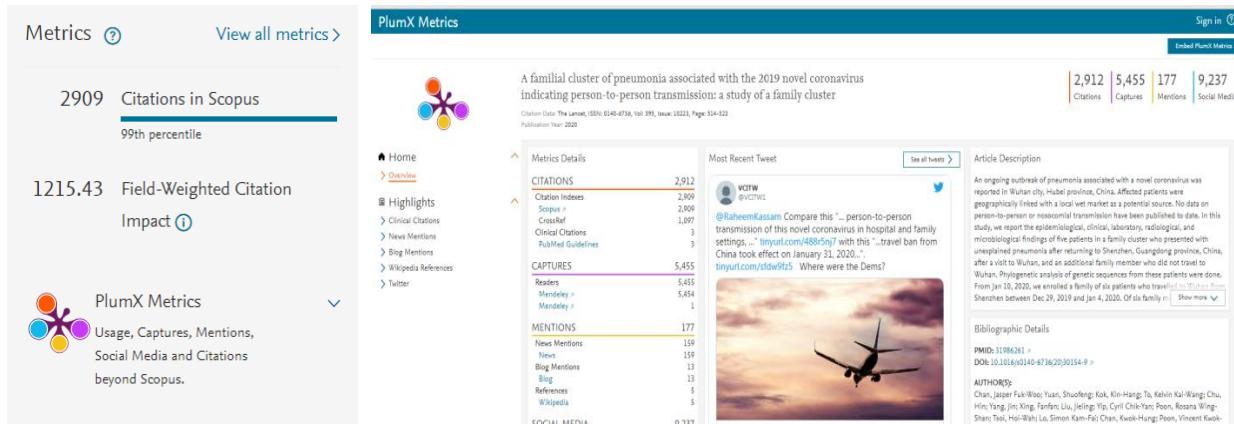
	Chloroquine phosphate has shown apparent effic...									
6	Are patients with hypertension and diabetes mellitus at incr...	2020			2	855	137	994	994	
7	Temporal profiles of viral load in posterior oropharyngeal s...	2020			2	723	233	958	958	
8	Clinical evidence does not support corticosteroid treatment ...	2020			1	746	101	848	848	
9	Emerging coronaviruses: Genome structure, replication, and p...	2020				690	144	834	834	
10	Sensitivity of chest CT for COVID-19: Comparison to RT-PCR	2020				666	166	832	832	
11	Pharmacologic Treatments for Coronavirus Disease 2019 (COVID...)	2020			1	657	160	818	818	
12	The trinity of COVID-19: immunity, inflammation and interven...	2020				521	225	746	746	
13	A rapid advice guideline for the diagnosis and treatment of ...	2020			1	610	98	709	709	
14	Database resources of the National Center for Biotechnology ...	2016	34	134	159	156	127	33	609	643
15	A Review of Coronavirus Disease-2019 (COVID-19)	2020					494	141	635	635
16	Surviving Sepsis Campaign: guidelines on the management of c...	2020					436	96	532	532
17	A DNA vaccine induces SARS	2004	323	7	2	4	95	20	128	451

	coronavirus neutralization and pr...									
18	Coronavirus Disease 2019 (COVID-19): Emerging and Future Cha...	2020				359	80	439	439	
19	Unique epidemiological and clinical features of the emerging...	2020				351	81	432	432	
20	Triple combination of interferon beta-1b, lopinavir–ritonavi...	2020				320	106	426	426	
21	COVID-19 infection: the perspectives on immune responses	2020			2	336	88	426	426	
22	Factors associated with COVID-19-related death using OpenSAF...	2020				203	216	419	419	
23	Molecular Evolution of the SARS Coronavirus, during the Cour...	2004	293	8	15	4	80	17	124	417
24	Clinical and epidemiological features of 36 children with co...	2020				344	67	411	411	
25	Potential interventions for novel coronavirus in China: A sy...	2020			1	332	71	404	404	
26	Drug treatment options for the 2019-new coronavirus (2019-nC...	2020			3	355	46	404	404	
27	COVID-19: combining antiviral and anti-inflammatory treatmen...	2020				311	61	372	372	
28	Network-based drug repurposing for novel coronavirus 2019-nC...	2020				298	70	368	368	
29	COVID-19: immunopathology and its implications for therapy	2020				272	92	364	364	
30	Clinical features of COVID-19 in elderly patients: A comparis...	2020				277	85	362	362	
31	The Novel Coronavirus	2020				287	57	344	344	

	Originating in Wuhan, China: Challenge...									
32	Cardiovascular disease, drug therapy, and mortality in COVID...	2020				269	69	338	338	
33	Clinical features and treatment of COVID-19 patients in nort...	2020				264	64	328	328	
34	Multisystem inflammatory syndrome in U.S. Children and adole...	2020				206	120	326	326	
35	RETRACTED:Hydroxychloroquine or chloroquine with or without ...	2020				255	61	316	316	
36	COVID-19: the gendered impacts of the outbreak	2020				249	66	315	315	
37	Review of the Clinical Characteristics of Coronavirus Diseas...	2020				258	56	314	314	
38	Airborne transmission of SARS-CoV-2: The world should face t...	2020				208	105	313	313	
39	Coronavirus diversity, phylogeny and interspecies jumping	2009	146	23	13	17	88	17	158	304
40	Vaccines: Past, present and future	2005	226	23	15	14	16	1	69	295
41	Prevalence of depression, anxiety, and insomnia among health...	2020					177	115	292	292
42	Consensus guidelines for managing the airway in patients wit...	2020					235	56	291	291
43	Understanding of COVID-19 based on current evidence	2020					236	40	276	276
44	Review of the 2019 novel coronavirus (SARS-CoV-2) based on c...	2020					224	48	272	272
45	Diagnosis, treatment, and prevention of 2019	2020				1	232	29	262	262

	novel coronavir...									
46	Laboratory abnormalities in patients with COVID-2019 infecti...	2020					215	46	261	261
47	Clinical features and obstetric and neonatal outcomes of pre...	2020					218	42	260	260
48	Clinical aspects and outcomes of 70 patients with Middle Eas...	2014	58	19	10	19	130	23	201	259
49	The pivotal link between ACE2 deficiency and SARS-CoV-2 infe...	2020					167	75	242	242
50	Prevalence of Underlying Diseases in Hospitalized Patients w...	2020					179	56	235	235

Paper 1: Highly Cited paper with PlumX Metrics



Paper 2: Highly Cited paper with PlumX Metrics

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1751 Citations in Scopus
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33.74 Field-Weighted Citation Impact ⓘ

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PlumX Metrics

Characterization of a novel coronavirus associated with severe acute respiratory syndrome

Citation Data: Science, ISSN: 0036-8075, Vol. 300, Issue: 5624, Page: 1294-1299
Publication Year: 2003

Metrics Details

CITATIONS 1,818

- Citation Indexes 1,751
- PubMed 1,714
- PubMed Central 1,382
- CrossRef 1,147
- Patent Family Citations 65
- Patent Families 65
- Clinical Citations 2
- Detailed Plus Topics 1
- PubMed Guidelines 1

USAGE 1,069

- Abstract Views 541
- 'EBSCO' 541
- Journal Views 511
- Full Text Views 511
- 'EBSCO' 511
- Journal Downloads 16
- 'EBSCO' 16
- Downloads 1

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Alexandra Kofal (@alexanderkofal) Replying to @dataminersten Please show studies, that indisputably show that Sars exists: Here: science.sciencemag.org/content/300/56... (You're welcome)

Article Description

In March 2003, a novel coronavirus (SARS-CoV) was discovered in association with cases of severe acute respiratory syndrome (SARS). The sequence of the complete genome of SARS-CoV was determined, and the initial characterization of the viral genome is presented in this report. The genome of SARS-CoV is 29,727 nucleotides in length and has 11 open reading frames, and its genome organization is similar to that of other coronaviruses. Phylogenetic analysis and sequence comparisons suggest that SARS-CoV is not closely related to any of the previously characterized coronaviruses.

Bibliographic Details

PMDID: 127768060
DOI: 10.1126/science.1085952

AUTHORS

Rota, Paul A; Oberste, M Steven; Monroe, Stephan S; Niix, W Allan; Campagnoli, Raji; Icenogle, Joseph P; Peiris, Sarika; Bankamp, Bettina; Maher, Kalja; Chen, Li; Ferguson, Tom; Tamin, Ophelia; Tsang, David; Dugay, Linda; Dabis, Joseph; Li, Chen, Q; Tong, David; Erdman, Dean; Di Pietro, Teresa C; Tamin, Cara; Kazaz, Thomas G; Rollin, Pierre E; Sanchez, Anthony; Liffick, Stephanie; Holloway, Brian; Lai, Ming-Chi; Smith, Michael; Uebel, Karen; Peiris, Michael S; Guan, Bin

Harris Options | Counts | 1 Year | 3 Years |

Paper 3: Highly Cited paper with PlumX Metrics

Metrics [View all metrics >](#)

1184 Citations in Scopus
99th percentile

355.33 Field-Weighted Citation Impact ⓘ

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PlumX Metrics

A role for CT in COVID-19? What data really tell us so far

Citation Data: The Lancet, ISSN: 0140-8366, Vol. 395, Issue: 10221, Page: 1189-1190
Publication Year: 2020

Metrics Details

CITATIONS 1,275

- Citation Indexes 1,274
- CrossRef 1,274
- PubMed 1,084
- PubMed Central 1
- Clinical Citations 1
- PubMed Guidelines 1

CAPTURES 2,866

- Readers 2,866
- Mendeley 2,866

MENTIONS 45

- News Mentions 35
- News 35
- Blog Mentions 9
- Blog 9
- References 1
- Wikipedia 1

SOCIAL MEDIA 3,200

- Shares, Likes & Comments 1,716
- Facebook 1,716
- Tweets 1,484

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中澤 仁也 (@KenseiMatsuura) A role for CT in COVID-19? What data really tell us so far
Diamond Princess cruiseからPCRで検証されたCOVID-19のCTスキャンデータをどうぞ。CT検査需要が少なかったのは運営会社の責任だよとヒント。
See the latest COVID-19 information on Twitter

Most Recent Blog

Can art and radiographs help in resource-poor areas in the fight against COVID-19?

Article Description

A number of patients with coronavirus disease (COVID-19) pneumonia caused by infection with severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) were successfully reported in Wuhan, China. We aimed to describe the CT findings across different timepoints throughout the disease course. Patients with COVID-19 pneumonia (confirmed by real-time reverse transcriptase–PCR) and without other CT scans were retrospectively enrolled. Patients were grouped on the basis of the interval between symptom onset and the first CT scans: group 1 (subclinical patients scans done before symptom onset), group 2 (scans done \leq 1 week after symptom onset), group 3 (>1 week to 2 weeks), and group 4 (>2 weeks to 1 month). Natures and their distribution were analyzed and compared among

Bibliographic Details

PMID: 32324399 | DOI: 10.1016/j.eurheartj.2020.03.002 | 10.1016/j.eurheartj.2020.03.0084 | 10.1146/medline.J2020020708

AUTHORS

De Smet, Kristoff; De Smet, Dieter; Ryckaert, Thomas; Lardon, Emanuel; Herremans, Birgit; Vandenhove, Ruben; Demedts, Ingel; Bouckaert, Bernard; Grypteijns, Stefan; Martens, Geert A

PUBLISHERS

Harris Options | Counts | 1 Year | 3 Years |

FINDINGS AND CONCLUSION

- The study found (Covid-19 Drugs, Vaccines and Medicines) that 22 articles received more than 1000 Citations, 83 articles have registered more than 500 Citations and 816 articles recorded 100 Citations.
- The study found most cited sources (Covid-19 Drugs, Vaccines and Medicines) are; The Lancet, Cell, Cell Research, New England Journal of Medicine, International Journal of Antimicrobial Agents, The Lancet Infectious Diseases, Allergy: Europeans Journal of

Allergy and Clinical Immunology, Military Medical Research, BioScience Trends, Journal of Hospital Infection, The Lancet Respiratory Medicine etc..

- The study found (Covid-19 Drugs) that 12 articles received more than 1000 Citations, 46 articles have registered more than 500 Citations and 338 articles recorded 100 Citations.
- The most cited articles (Covid-19 Drugs) are: Zhou, F.a, et al. (2020), Clinical course and risk factors for mortality of adult in patients with COVID-19 in Wuhan, China: a retrospective cohort study(Article)(Open Access), The Lancet, with 6860 Citations from China.
- The study found than top most cited 105 articles have received citations in the range of 100-831 .
- It is noted that 18 papers received more than 500 Citations, 202 papers have registered more than 100 Citations and only 3 papers received more than 1000 Citations.
- The most cited (Covid-19 Vaccines) articles are: Wrapp, D.a, et al. (2020), Cryo-EM structure of the 2019-nCoV spike in the prefusion conformation(Article), Science, with 1892 Citation(Field Weighted Citation Impact is 743.12 using PlumX Metrics) from United States
- The study found the top most cited 26 articles with more than 400 Citations.
- It is noted that 5 papers with more than 1000 Citations followed by 15 papers with more than 500 Citations and 141 papers with more than 100 Citations.
- The most Cited Classic Papers (Covid-19 Medicines) are: Chan, J.F.-W. et al., (2019), A familial cluster of pneumonia associated with the 2019 novel coronavirus indicating person-to-person transmission: a study of a family cluster(Article)(Open Access), The Lancet, Volume 395, Issue 10223, 15 - 21 February 2020, Pages 514-523 with 2909 Citations from China (Field Weighted Citation Impact is 1215.43)

In this study, we have evaluated the top 424 articles that had a high impact on the practice of Covid-19 Drugs, Vaccines and Medicines, by assessing the number of times these articles were cited(100, 500 and 1000 Citations). The relevant Covid-19 Drugs, Vaccines and Medicines literature comes from English-based journals. Information from this analysis may help guide the process of scientific updating required for a proper clinical practice of the modern Covid-19.

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- **Surulinathi, M., Rajkumar, N., Jayasuriya, T., and Rajagopal, T.(2021),** Indian Contribution in Animal behaviour research: A Scientometric Study, *Library Philosophy and Practice*, 2021, 1-19.