



• Worksheet

# COVID-19

PROPAGATION DANS LES BASES DE DONNÉES  
SCIENTIFIQUES

**SCOPUS & WOS**

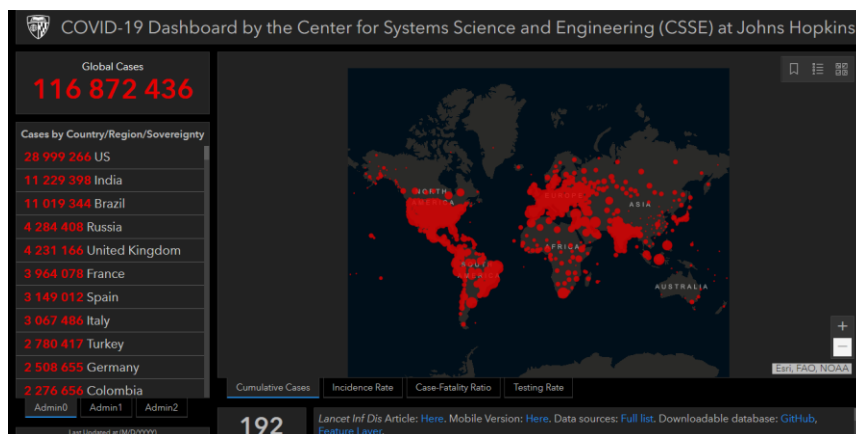
SERVICE VEILLE SCIENTIFIQUE ET TECHNOLOGIQUE

Mis à jour en Mars 2021



## Contexte général de la pandémie Covid-19

L'Organisation mondiale de la santé (OMS) a alerté le monde, dès le 31 décembre 2019, sur l'apparition d'une nouvelle maladie en Chine, dans la ville de Wuhan, de la province de Hubei. Il s'agit d'une grippe de pneumonie d'étiologie inconnue. Il s'est révélé ensuite que cette infection était due à un nouveau type de coronavirus (2019-nCoV), différent de tous les coronavirus humains précédemment découverts. D'autres cas s'en sont suivis en Chine, puis dans d'autres pays. Ce qui a déclenché, en quelques semaines, une pandémie touchant plus de 192 pays à travers le monde.



Source: [Johns Hopkins University \(JHU\)](#)

Le 23 janvier 2020, il n'y avait que 800 cas de nCoV-2019 confirmés dans le monde. Aujourd'hui (le 08 Mars 2021) le monde compte plus de **116.87 millions** de cas confirmés, avec **2 593 931** décès et **66,9 millions** rétablis. Au Maroc, on dénombre **486 325** cas confirmés, près de **5,2 millions** de cas déclarés négatifs, **8683** décès et **247 594** cas guéris (situation du 08 -03-2021, 18h).

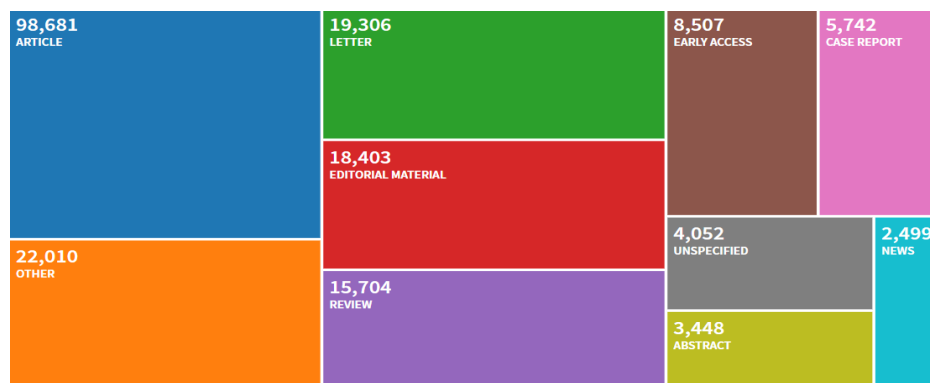
Cette propagation, d'allure exponentielle, a bien évidemment retenu toute l'attention des chercheurs ces derniers mois. D'abord, parce que la recherche scientifique retrouve toutes ses lettres de noblesse lorsqu'elle s'intéresse à l'Homme, en particulier quand il s'agit des questions vitales. Ensuite, les enjeux socio-économiques de cette pandémie sont tellement importants que l'investissement, humain et matériel, est largement justifié, voire impératif, pour les chercheurs, leurs laboratoires et leurs pays.

Ainsi, il a été recensé plus de **131 973** publications, dans le Web Of Science (**WOS**), traitant de cette thématique (interrogation du 08-03-2021). Parmi ces **131 973** papiers, **108 839** sont également indexés dans Medline, le réservoir de référence dans ce domaine, et **97 148** font partie de la Core Collection du WOS, la collection la plus influente du WOS. Au niveau de Scopus,

le nombre de publications est de l'ordre de **113 218** tandis qu'au niveau de PubMed, il dépasse les **108 156** publications. Ces chiffres changent à une cadence très rapide (quelques dizaines, voire centaines, de publications par jour).

## Données bibliométriques dans le WOS

Les publications constituant le corpus issu de la base de données WOS (**131 973** papiers) sont majoritairement en mode Open Acces (**109 157**), permettant un accès ouvert, donc rapide et plus large, à des résultats scientifiques frais, concernant un phénomène d'actualité, dynamique et à large spectre. Pour encourager cette dynamique, la plupart des éditeurs (Elsevier, Springer Nature ...) ont donné l'accès, libre et gratuit, à toute une collection de publications en relation avec cette thématique.



Sur ces **131 973** publications, **98 681** sont de type article original et près de **15 704** sont de type revue ou mise au point bibliographique. Le chiffre **15 704** pour le type (Review), en si peu de temps, est un indicateur pertinent révélant la volonté des chercheurs de rivaliser et, en même temps, collaborer pour cerner le phénomène et trouver des solutions, rapides et efficaces, pouvant contribuer à sauver des vies humaines et atténuer l'impact économique de cette pandémie.

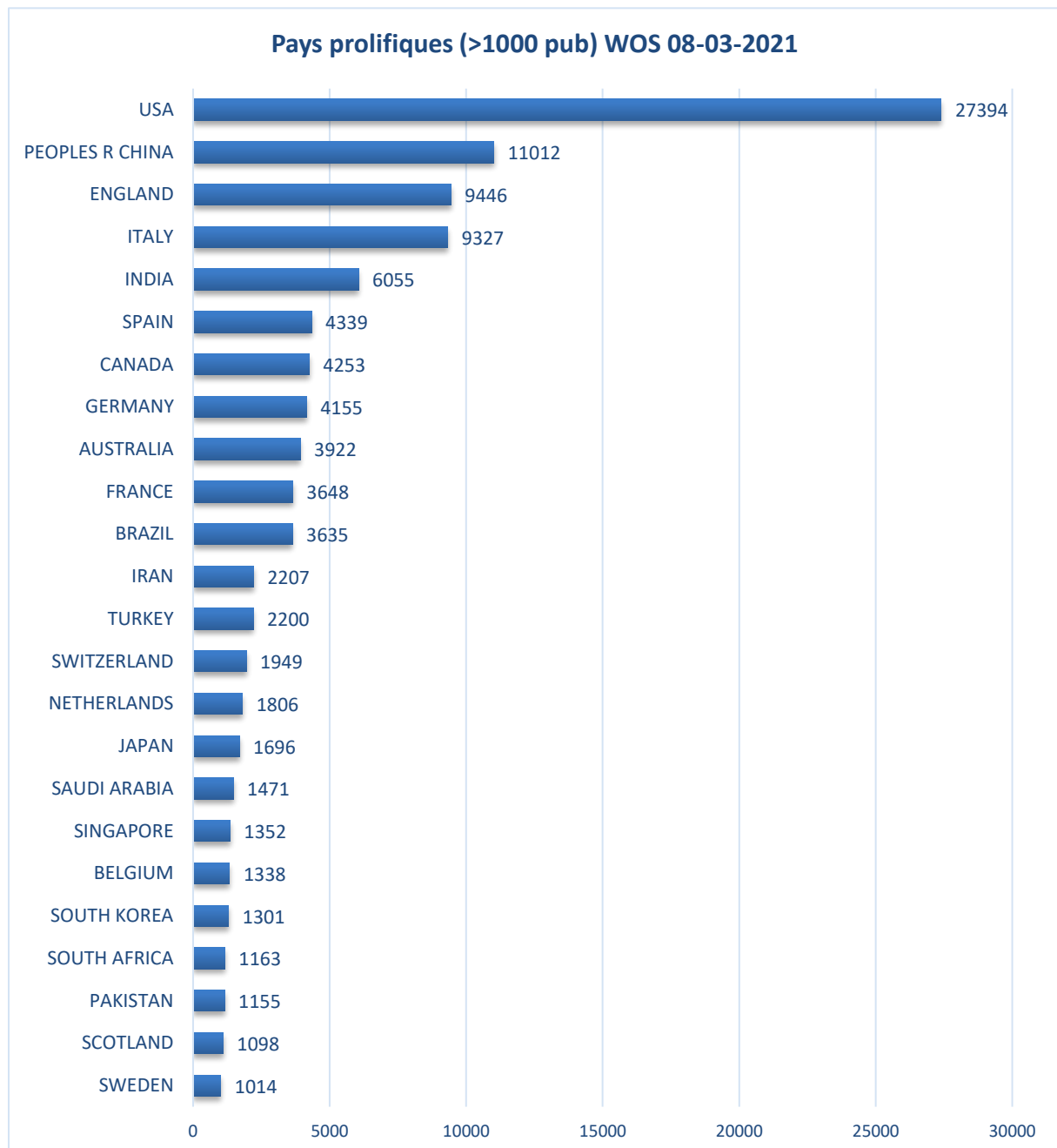
Le document le plus cité, avec à ce jour **11924** citations, est publié dans la prestigieuse revue **LANCET** qui fait partie de la Core collection du WOS. Il est intitulé « *Clinical features of patients infected with 2019 novel coronavirus in Wuhan, China* », datant du 15 février 2020 et impliquant des chercheurs majoritairement chinois et essentiellement financés par des structures nationales chinoises.

### Participation des pays (WOS)

Au premier rang, en termes de volume, les Etats-Unis participent à près de **20%** du corpus mondial, avec **27394** publications dépassant ainsi la Chine qui était pendant des mois en tête

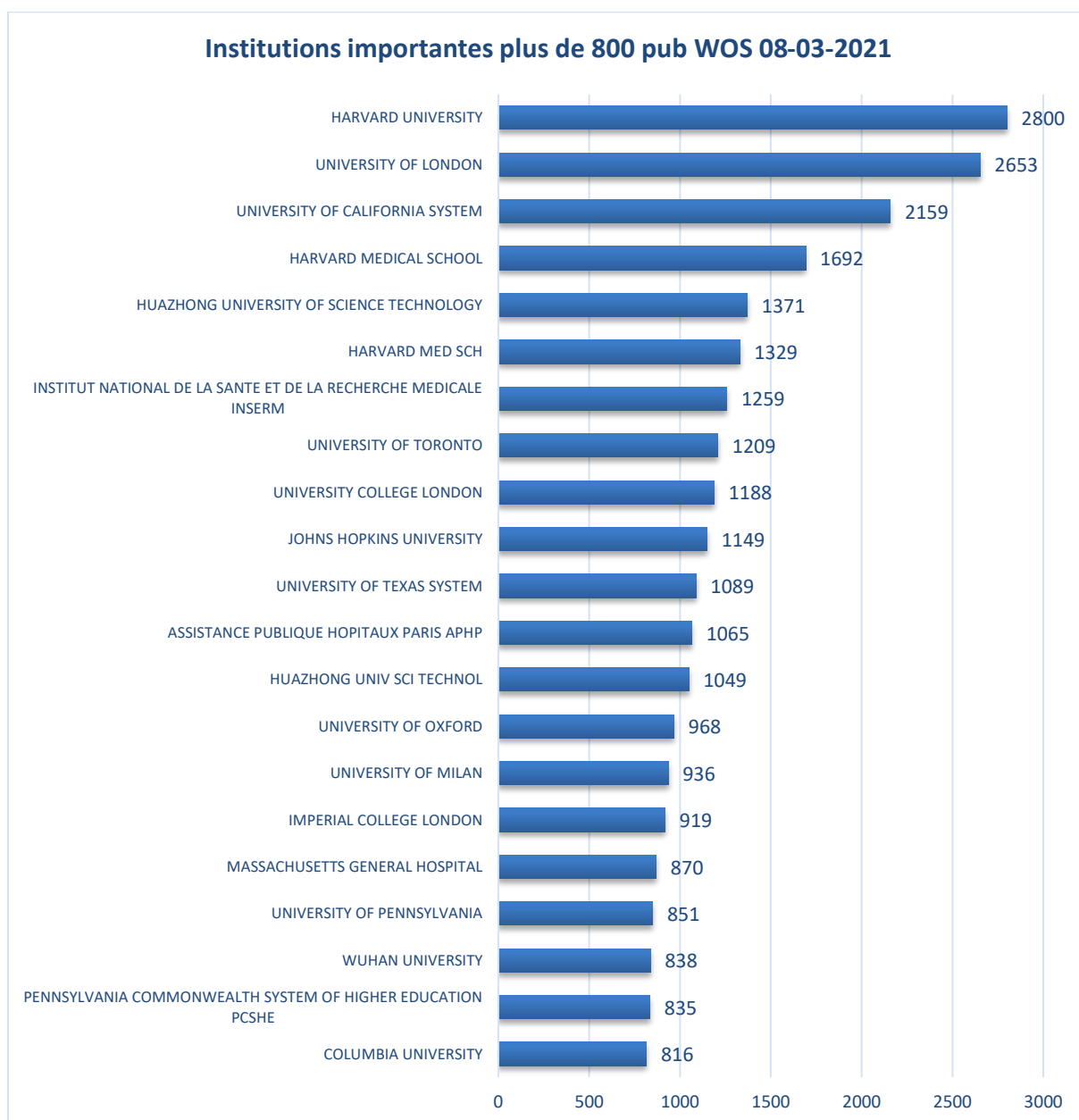
du classement. Celle-ci enregistre **11012** publications (**8.3%**) ce qui la place au deuxième rang. L'Angleterre s'avance à la troisième position avec **9446** publications, suivie de l'Italie (**9327**), de l'Inde (**6055**) et de l'Espagne (**4339**). Le Canada (**4253**), l'Allemagne (**4155**), et l'Australie (**3922**) suivent de près l'Espagne avec une différence de quelques dizaines de publications.

**N.B. : A noter que ce classement est très dynamique, changeant d'une journée à l'autre.**



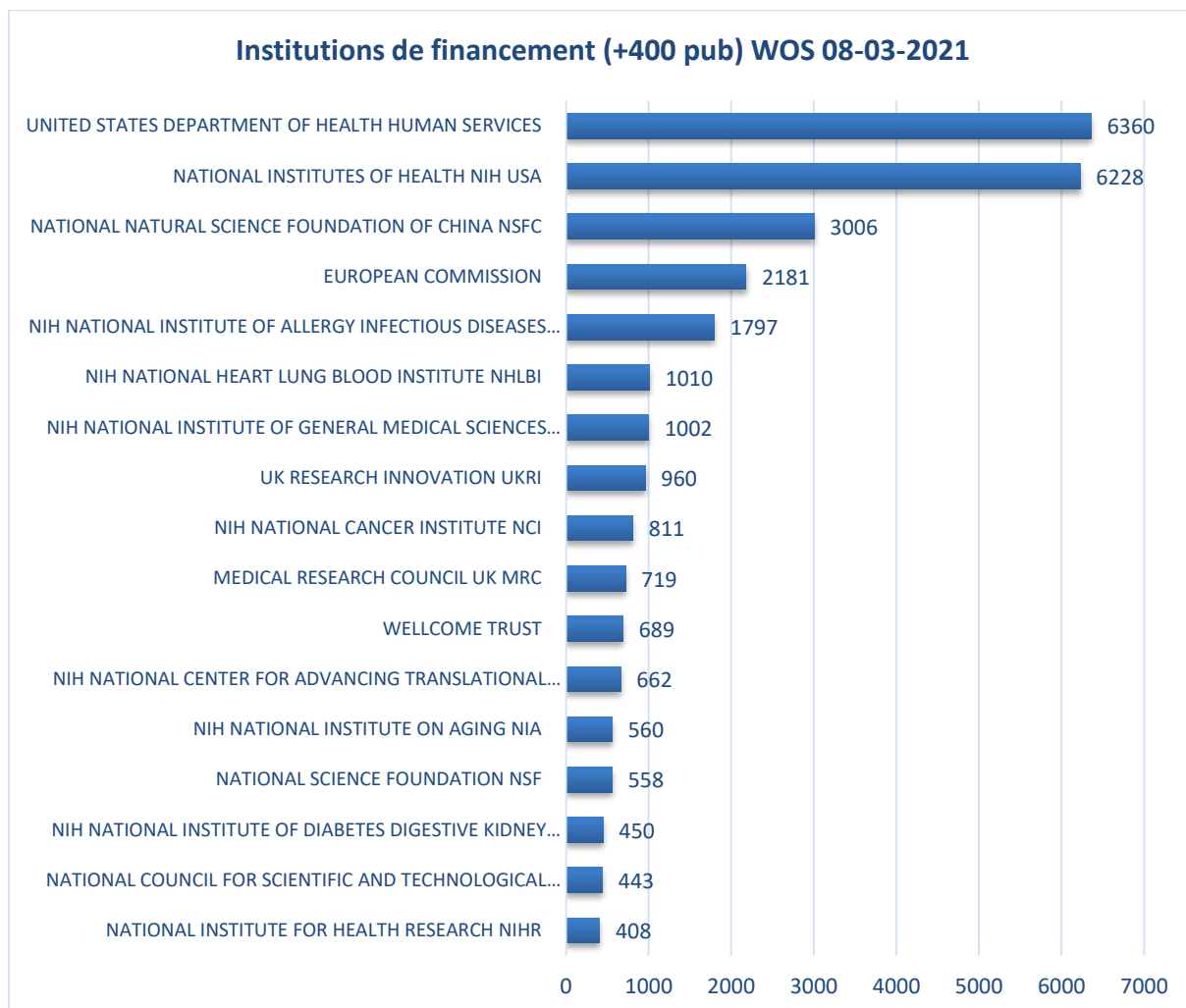
### Institutions importantes (WOS)

Les organismes de recherche chinois sont également dépassés par des affiliations américaines. Dans le graphique ci-dessous, une liste non exhaustive (plus de 800 publications) des institutions impliquées dans la recherche sur le covid-19 selon WOS.



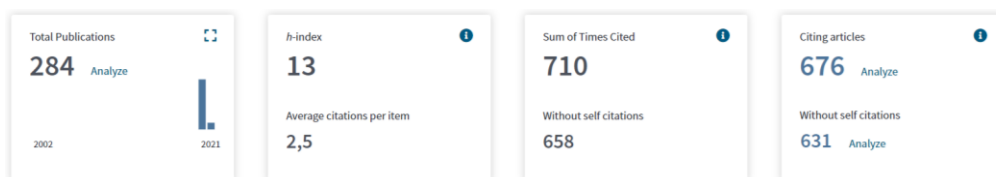
### Financements de la recherche sur le Covid-19 (WOS)

Le corpus du WOS (**131973 pub**) permet également d'identifier certaines institutions de financement, dont les plus importantes (plus de **400 publications**) sont américaines et chinoises.

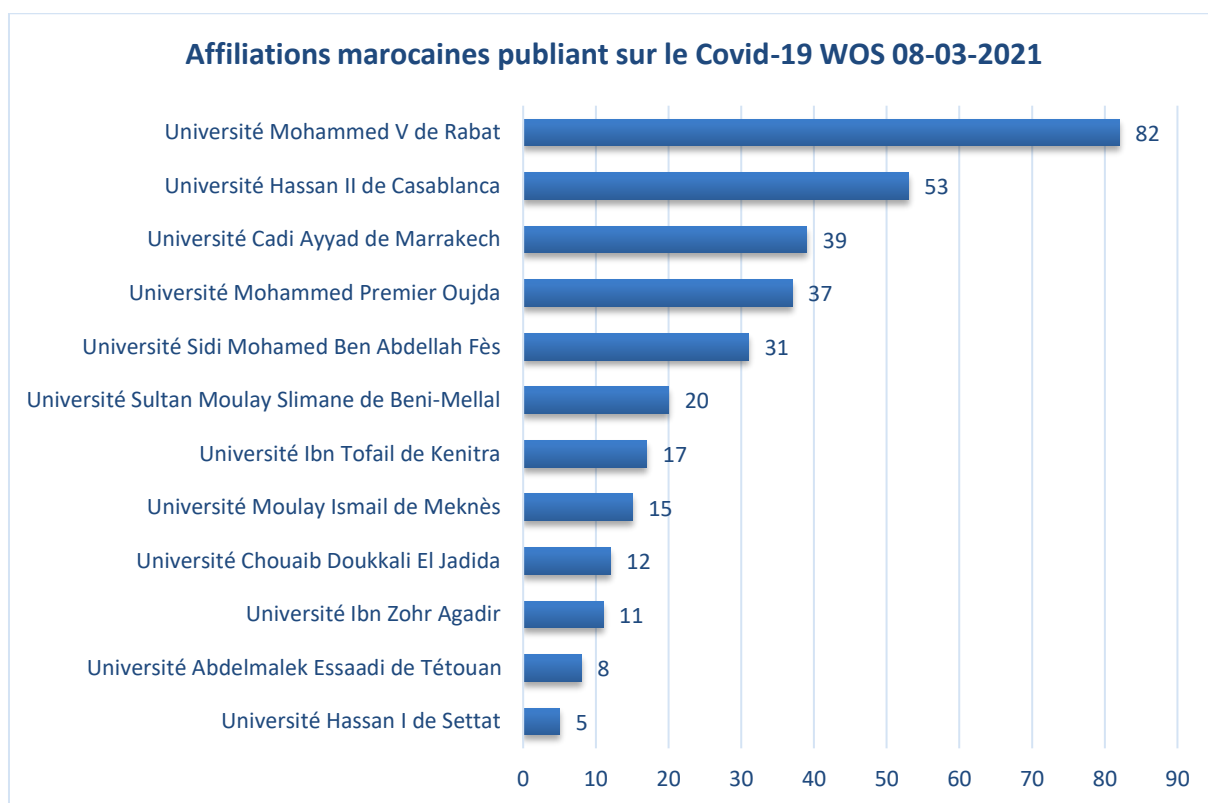


### Participation marocaine (WOS)

La base de données Web of Science compte, jusqu'à présent (08-03-2021), **284** publications marocaines, **citées 710** fois par 676 document, avec un **h-index égal à 13**.



Ces **284** papiers sont publiés en majorité par des universités publiques marocaines. L'Université Mohammed V de Rabat est première du classement (en termes de volume), avec **82 publications**, suivie de l'Université Hassan II de Casablanca qui possède **53 publications**. L'Université Cadi Ayyad de Marrakech se place au troisième rang avec **39 publications** et à la quatrième place on retrouve l'Université Mohamed Premier d'Oujda (**37**) puis l'USMBA de Fès avec **31 publications** et l'USMS de Beni-Mellal (**20**).



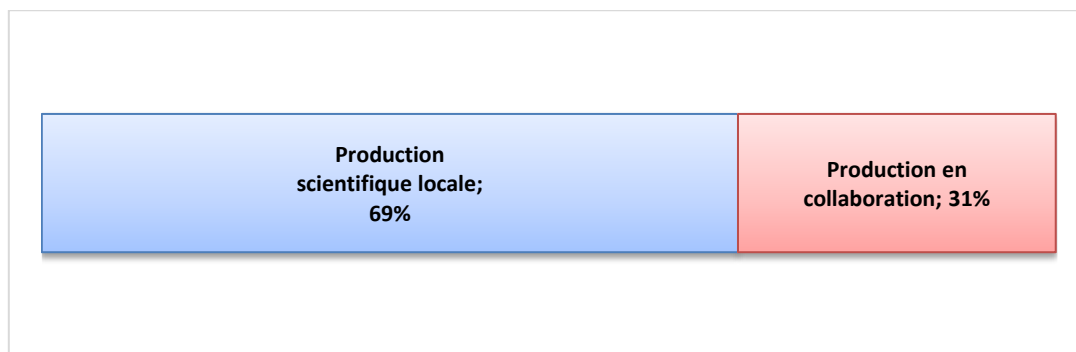
#### Auteurs marocains WOS 08-03-2021

Un nombre important d'auteur a participé à la publication des 284 documents constituant le corpus marocain. Ci-dessous un tableau dressant une liste non exhaustive des chercheurs marocains ayant plus de 4 publications sur le Covid-19.

Nom d'auteur	Nb de publication
EL KETTANI CHAFIK	10
ERRIHANI HASSAN	8
IBRAHIMI AZEDDINE	7
AISSAOUI OUISSAL	6
BELYAMANI LAHCEN	6
HAMDY Wafa	6
RACHIK MOSTAPHA	6
AHNACH MARYAME	5
ALHARRAR RACHID	5
ARKHA YASSER	5
BALATIF OMAR	5
EL OUAHABI ABDESSAMAD	5
ERRIHANI HASSAN	5
EZZIKOURI SAYEH	5
HAKMI MOHAMMED	5
NEJJARI CHAKIB	5
NSIRI AFAK	5

### Collaboration marocaine sur la thématique du Covid-19 WOS

Le corpus marocain sur WOS (**284 publications**) compte **195 publications** purement marocaines (soit 69% du corpus) contre 89 (soit **31%**) réalisées en collaboration avec plus de 50 pays.



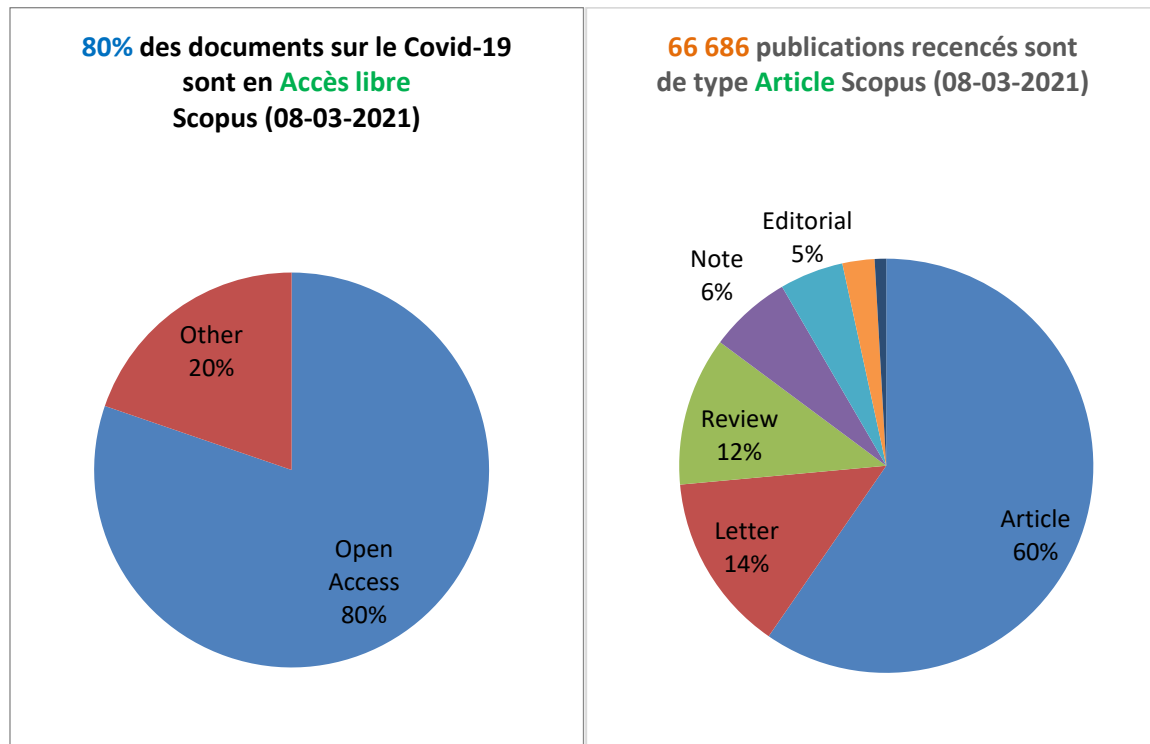
Sur les **89** documents, traitant de la thématique du Covid-19, publiés en collaboration avec d'autres pays, le Maroc semble collaborer principalement avec la France (**23 publications**), les Etats-Unis (**22 publications**), l'Inde (**19**), l'Arabie Saoudite (**17**) et l'Egypte (**16**). Des travaux sont, également, réalisés en collaboration avec l'Algérie, le Canada, le Royaume-Uni, l'Espagne et la Tunisie, etc. Ci-dessous sont schématisés les collaborations les plus importantes (+ de 10 publications).

Pays	Nb publication
MOROCCO	284
FRANCE	23
USA	22
INDIA	19
SAUDI ARABIA	17
EGYPT	16
ALGERIA	14
CANADA	14
ENGLAND	14
SPAIN	12
TUNISIA	12
ITALY	10
JORDAN	10
U ARAB EMIRATES	10



## Données bibliométriques dans Scopus

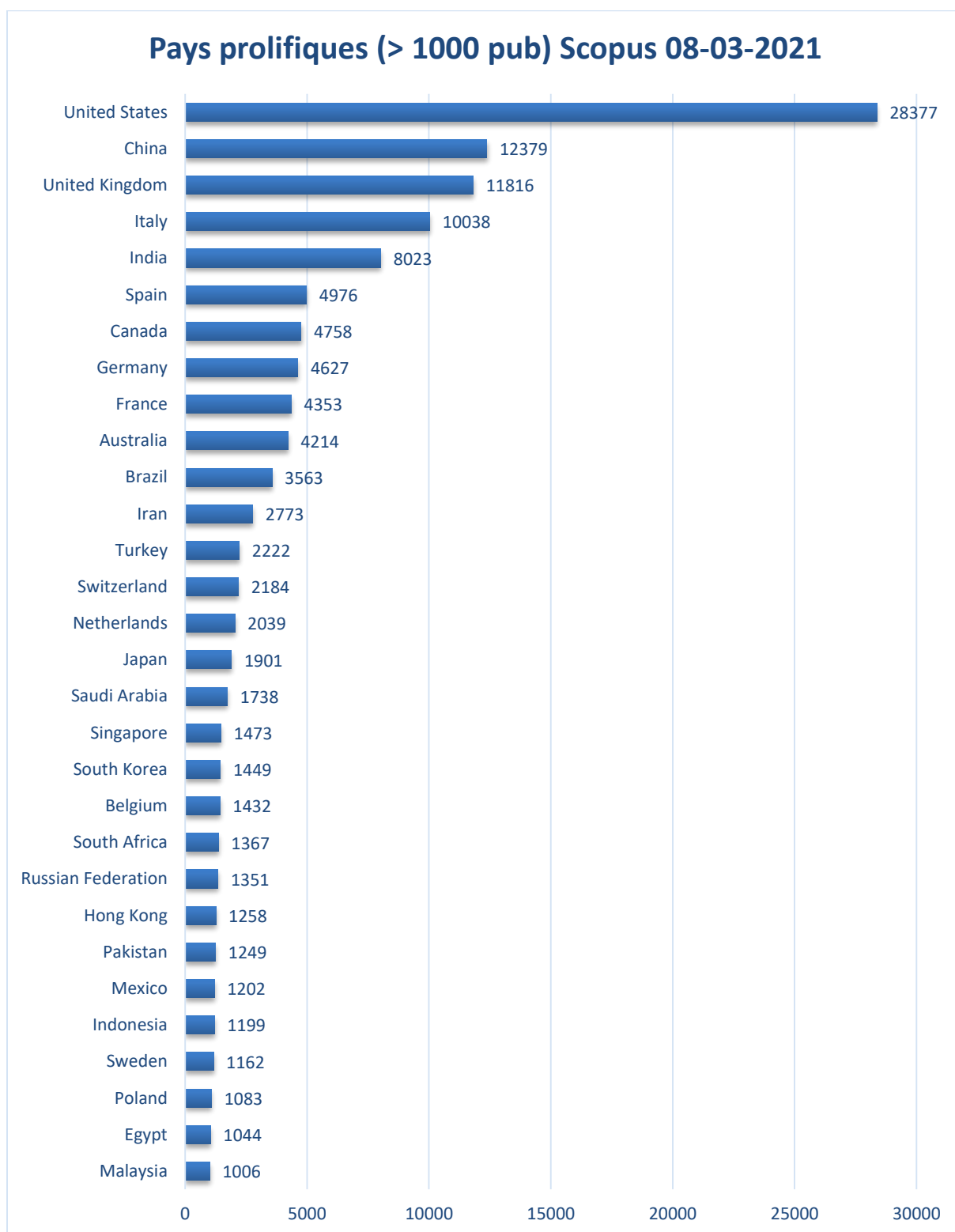
On dénombre, à ce jour, sur la base de données bibliographique Scopus (interrogée le 08 Mars 2021) **113 218** publications scientifiques sur le Covid-19. A l'instar de WOS là aussi, les documents sont, majoritairement, en accès libre et principalement de type article.



Ces **113 218** publications ont reçu **942 376** citations. Le document le plus cité est le même que celui identifié pour WOS "*Clinical features of patients infected with 2019 novel coronavirus in Wuhan, China*". Cependant, le nombre de citations qu'il a reçu, au niveau de Scopus, est supérieur : **12369** citations. Ce qui est exceptionnel, en si peu de temps, pour un article original.

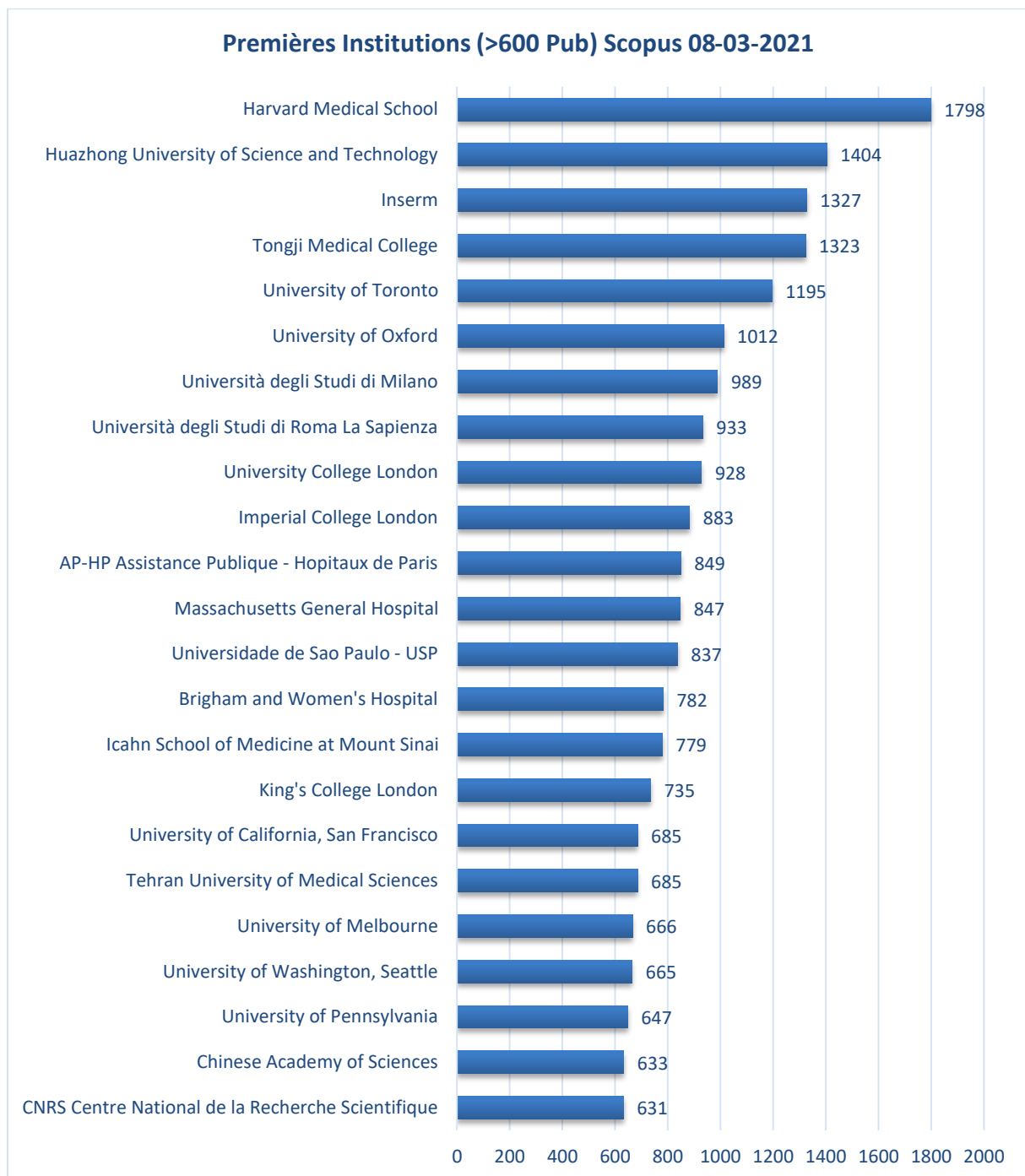
### Participation des pays (Scopus)

Comme pour la base de données WOS, sur Scopus, les pays qui ont une tradition de recherche se mettent tous à contribution sur cette thématique mondiale du Covid-19. Depuis le début de la pandémie, la Chine, premier foyer du virus, était toujours en tête du classement. Aujourd'hui (08/03/2021) on voit clairement qu'elle a été dépassée par les Etats-Unis avec **28377** publications (**25% du corpus**) devant **12379** publications (pour la Chine). Le Royaume-Uni maintient sa troisième position avec **11 816** publications, suivi de l'Italie (**10 038** publications) et de l'Inde (**8023**). Vient ensuite l'Espagne (**4976**) suivie de près du Canada (**4758**), de l'Allemagne (**4627**) et de la France (**4353**). Le graphique ci-dessous liste les pays qui participent à la recherche sur le Covid-19 avec plus de 1000 publications.



#### Institutions importantes au niveau mondial (Scopus)

Les données extraites de Scopus montrent que les premières affiliations impliquées dans la recherche sur le Covid-19 sont américaines et chinoises puis françaises, canadiennes et anglaises.



### Financements de la recherche sur le Covid-19 (Scopus)

Les sources de financement de la majorité (80%) des publications sur le Covid-19 indexées sur Scopus ne sont pas indiquées sur la base de données (Undefined). Pour les 20% restants les fonds sponsorisant les recherches proviennent majoritairement des Etats-Unis et de la Chine. Une participation du Royaume-Uni, de la Suisse, de l'Allemagne et de l'Europe en général est, également, notable. Certains laboratoires pharmaceutiques figurent, aussi, sur la liste des bailleurs de fond à savoir Pfizer, Novartis, AstraZeneca, Gilead Sciences, etc. Le tableau suivant montre les institutions ayant financées plus de 200 publications sur le covid-19.

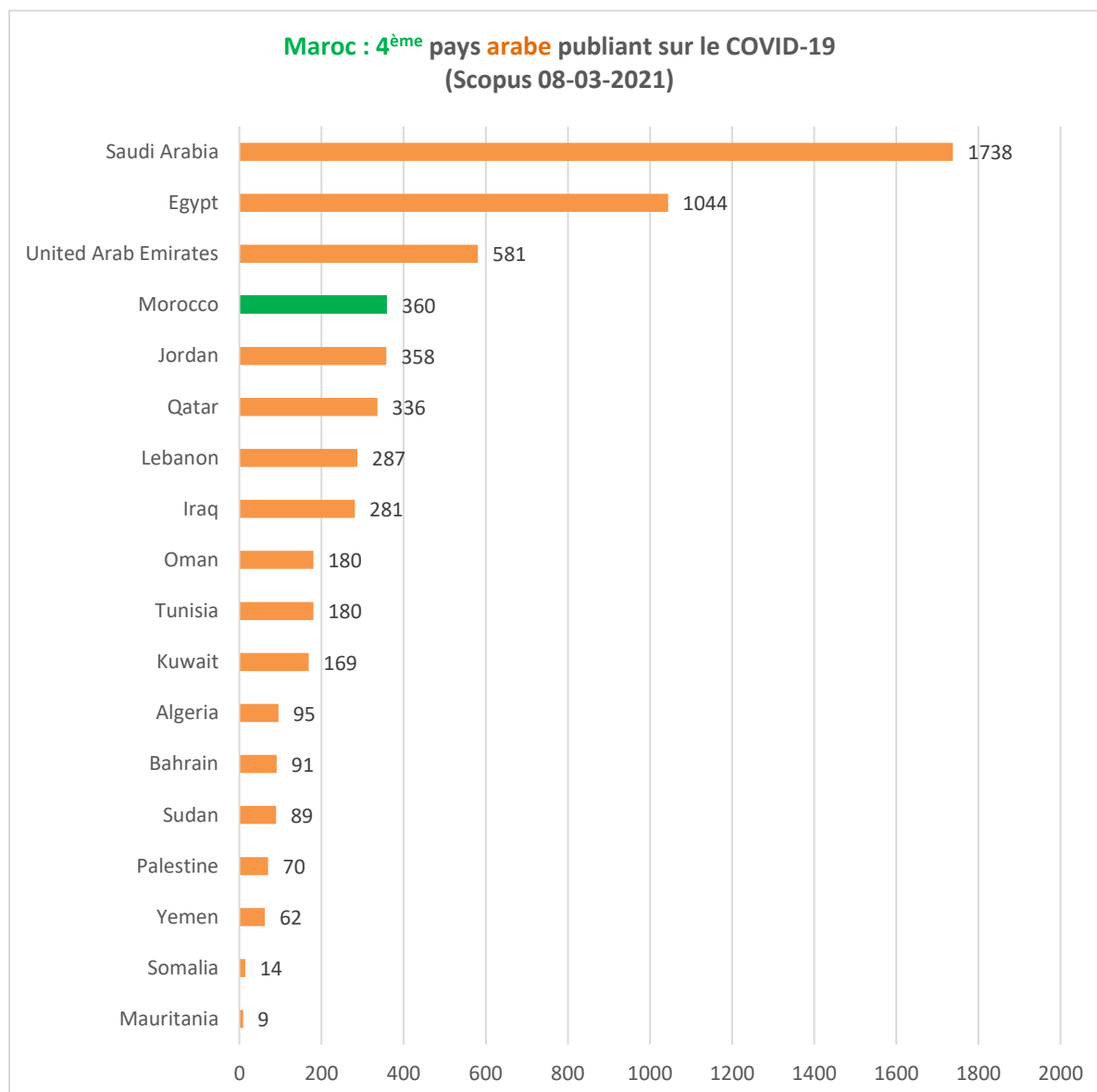
Institutions de financement	Pays	Nb de publication
National Natural Science Foundation of China	Chine	2784
National Institutes of Health	USA	2581
National Science Foundation	USA	650
National Institute for Health Research	UK	610
National Institute of Allergy and Infectious Diseases	USA	602
Wellcome Trust	UK	500
Conselho Nacional de Desenvolvimento Científico e Tecnológico	Brésil	466
Fundamental Research Funds for the Central Universities	Chine	415
European Commission	Europe	412
European Regional Development Fund	Europe	378
Coordenação de Aperfeiçoamento de Pessoal de Nível Superior	Brésil	365
National Heart, Lung, and Blood Institute	USA	365
<b>Pfizer</b>	USA	351
Canadian Institutes of Health Research	Canada	344
National Key Research and Development Program of China	Chine	341
Deutsche Forschungsgemeinschaft	Allemagne	337
Medical Research Council	UK	334
Bill and Melinda Gates Foundation	USA	322
Horizon 2020 Framework Programme	Europe	316
National Center for Advancing Translational Sciences	USA	308
National Cancer Institute	USA	294
<b>Novartis</b>	Suisse	284
<b>Gilead Sciences</b>	USA	274
National Research Foundation of Korea	Coré	255
European Research Council	Europe	251
<b>AstraZeneca</b>	UK	248
Merck	Allemagne	231
Instituto de Salud Carlos III	Espagne	225
National Health and Medical Research Council	Australie	225
Japan Society for the Promotion of Science	Japon	221
National Institute on Aging	USA	218
National Institute of General Medical Sciences	USA	217
Centers for Disease Control and Prevention	USA	213

### Classement des pays arabes et africains (Scopus)

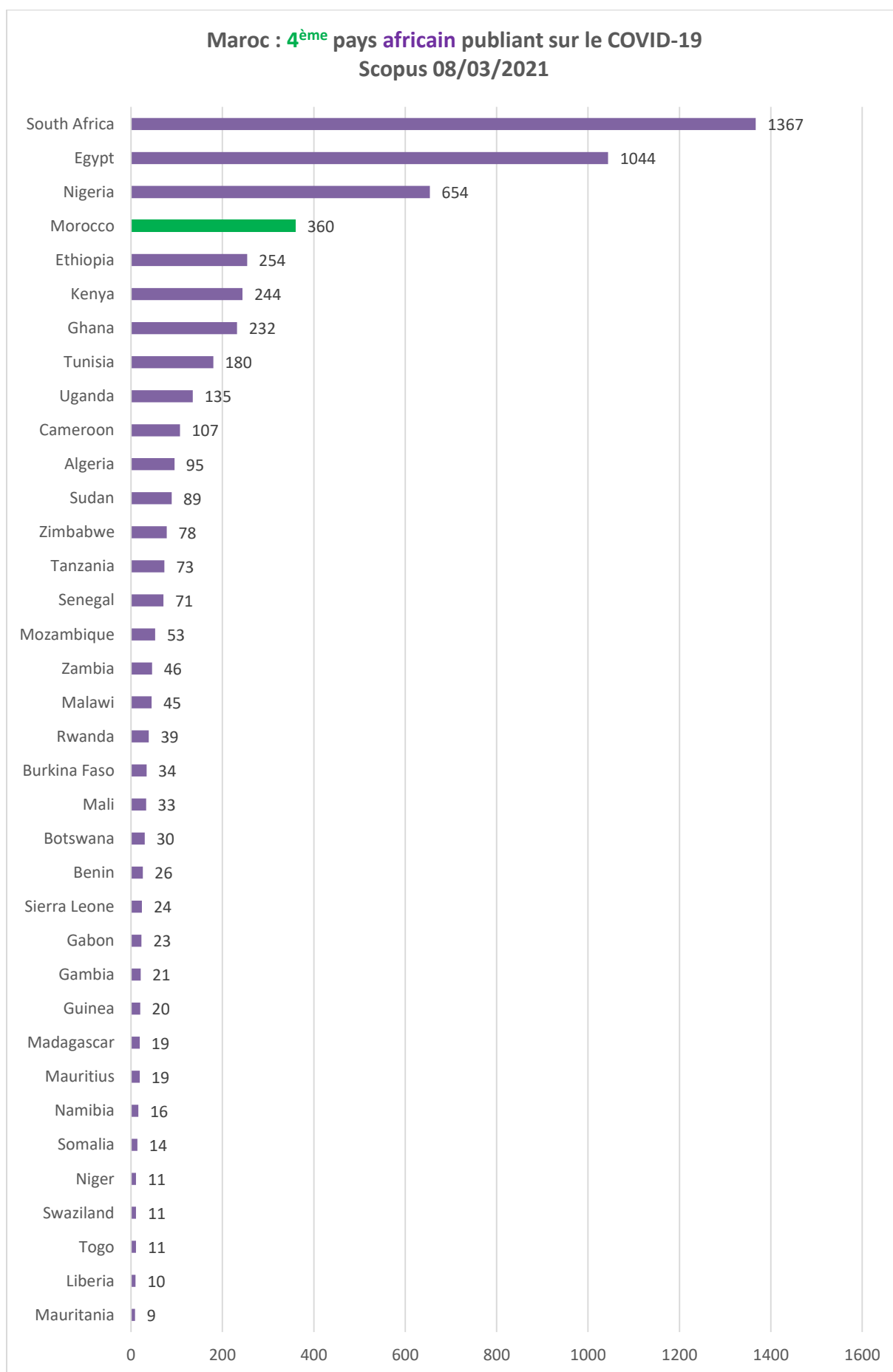
Le rang du Maroc dans les classements des pays arabes et africains au niveau de la base de données Scopus ne change pas. En effet, malgré l'évolution continue du nombre de publications sur le Covid-19, le **Maroc** semble s'accrocher à la **4<sup>ème</sup> position** dans les deux classements.

Pour les pays arabes, l'Arabie Saoudite est toujours en tête du classement, avec **1738** documents, suivie de l'Égypte (**1044**) et des Émirats Arabes Unis (**581**). Le **Maroc se place au**

**4<sup>ème</sup> rang avec 360 publications** dépassant légèrement la Jordanie (**358**), le Qatar (**336**) et le Liban (**287**).



Au niveau africain, c'est l'Afrique du sud (**1367**) qui publie le plus de documents sur le Covid-19, suivie de l'Égypte (**1044**) puis du Nigéria (**654**). Le Maroc se trouve **4<sup>ème</sup>** au classement africain des publications sur le coronavirus-2019 avec ses **360 publications** suivi de l'Éthiopie (**254**), du Kenya (**244**) et du Ghana (**232**).

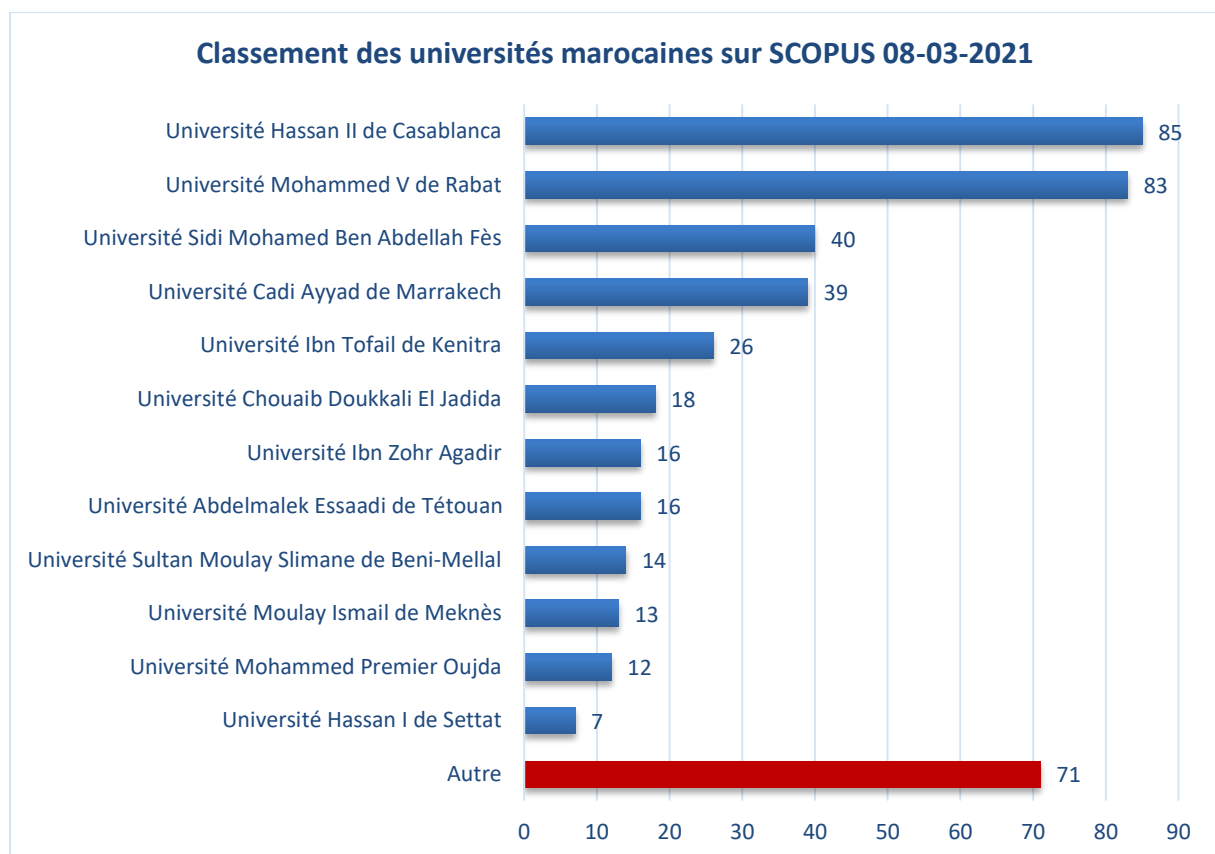


### Corpus marocain (Scopus)

Les **360 publications marocaines** sur le Covid-19, recensées sur la base de données Scopus ont accumulé aujourd'hui (08-03-2021) **1173 citations** et possèdent un **h-index de l'ordre de 16**. Le document le plus cité s'intitule « **Autoantibodies against type I IFNs in patients with life-threatening COVID-19** ». Cet article publié dans la revue « **Science** » est le fruit d'une collaboration de l'Université Hassan II de Casablanca avec plusieurs autres affiliations étrangères. Il a reçu à ce jour **138 citations**.

### Classement des universités marocaines (Scopus)

Le Corpus marocain indexé sur Scopus revient principalement aux universités publiques marocaines. En effet, ces dernières détiennent **289 publications** (détaillées en annexe) sur le Covid-19 soit **80% du corpus marocain** indexé sur Scopus.

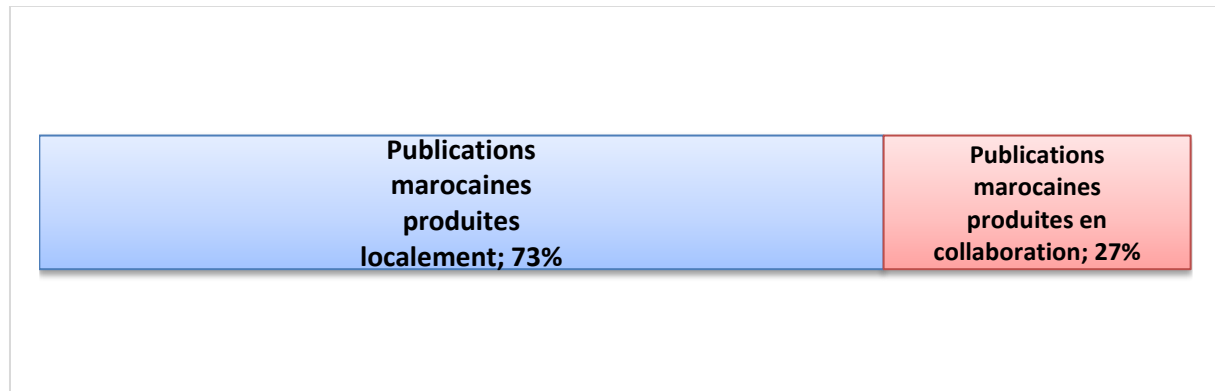


Le 08 Mars 2021, l'Université Hassan II de Casablanca (**85**) dépasse de près l'Université Mohammed V de Rabat (**83**) qui depuis le début de l'épidémie était toujours en tête du classement marocain (et qui elle est toujours au niveau de WOS). La troisième position revient à l'Université Sidi Mohammed Ben Abdellah de Fès (**40**) suivi de près de l'Université Cadi Ayyad de Marrakech (**39 papiers**). On retrouve, ensuite, l'université Ibn Tofail de Kenitra avec **26**

publications suivie de l'Université Chouaib Doukkali d'El Jadida (**18**) qui a bien avancé depuis novembre dernier. En effet, celle-ci a pu dépasser les universités d'Agadir (**16**) de Tetouan (**16**) et de Beni-Mellal (**14**).

#### Collaboration marocaine sur la thématique du Covid-19 (Scopus)

Le corpus marocain sur Scopus (**360 publications**) présente 27% en %collaboration internationale sur le Covid-19 soit 96 publications. Les **264 documents** (soit **73%** du corpus) **restant sont** purement marocains.



Sur les 96 documents, traitant de la thématique du Covid-19, publiés en collaboration avec plus de 80 pays, le Maroc semble collaborer principalement avec la France (12 publications), les Etats-Unis (12 publications), l'Inde (11) et l'Arabie Saoudite (11). Des travaux sont également réalisés en collaboration avec l'Espagne, la Tunisie, le Royaume-Uni, l'Algérie et le Canada etc. Ci-dessous sont schématisés les collaborations les plus importantes (+ de 10 publications).

Pays	Nb publications
Morocco	360
France	25
United States	22
India	20
Saudi Arabia	19
United Kingdom	15
Egypt	13
Spain	13
Turkey	13
Algeria	12
Tunisia	12
Japan	11
United Arab Emirates	11
Brazil	10
Canada	10
Italy	10



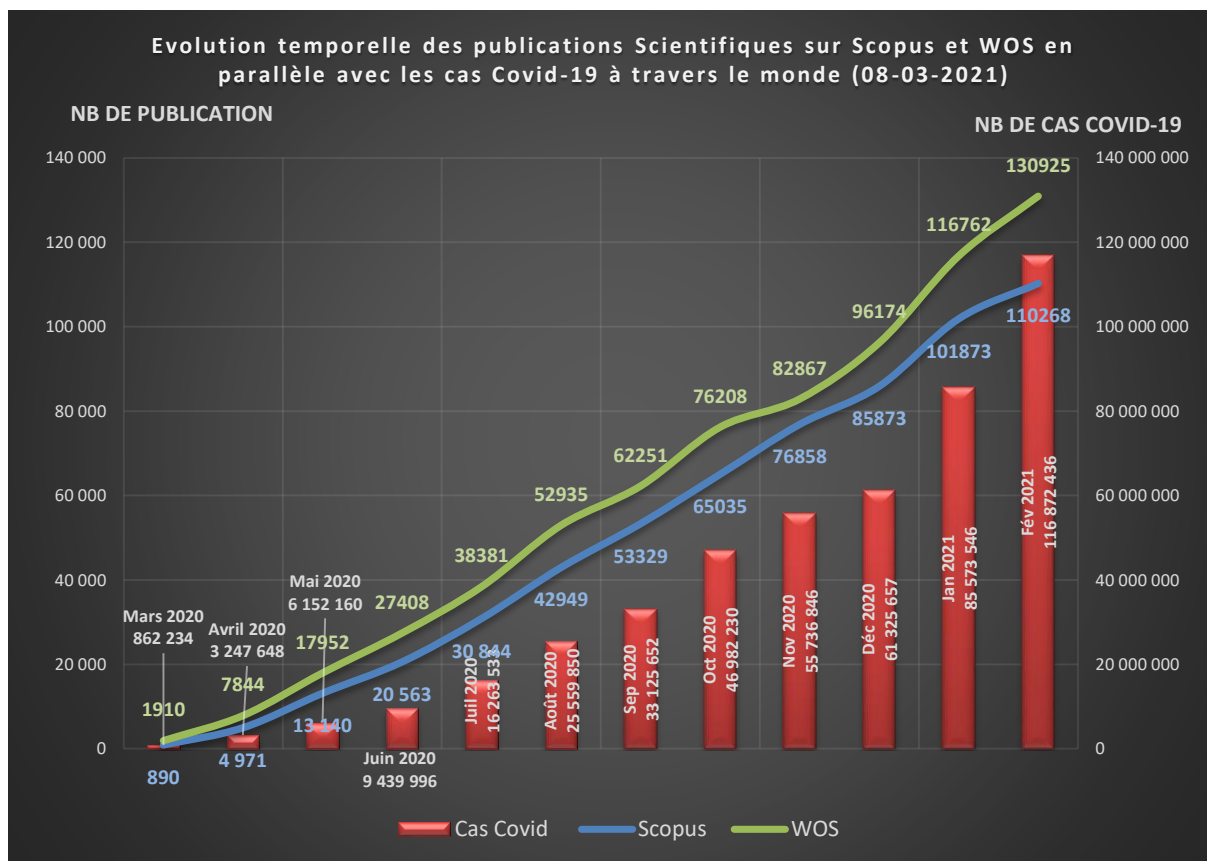
Auteurs marocains Scopus 08 mars 2021

Ci-dessous une liste non exhaustive des chercheurs marocains ayant publié plus de 5 documents sur le Covid-19. Certains noms figurant sur la liste extraite de WOS réapparaissent dans ce tableau mais pas dans le même ordre. On note également que la majorité de ces chercheurs appartiennent aux universités Mohammed V de Rabat et Hassan II de Casablanca.

Nom de l'auteur	Affiliation actuelle	Nb de publication
Rachik, Mostafa	Université Hassan II de Casablanca	14
Balatif, Omar	Université Chouaib Doukkali, El Jadida	9
Belyamani, Lahcen	Université Mohammed V de Rabat	9
Kouidere, Abdelfatah	Université Hassan II de Casablanca	8
Ibrahimi, Azeddine	Université Mohammed V de Rabat	7
Ahnach, Maryame	Université Hassan II de Casablanca	6
Aissaoui, Ouissal	Université Hassan II de Casablanca	6
Alharrar, Rachid	Université Hassan II de Casablanca	5
Benksim, Abdelhafid	Université Cadi Ayyad Marakech	5
Cherkaoui, Mohamed	Université Cadi Ayyad Marakech	5
Ezzikouri, Sayeh	Institut Pasteur du Maroc Casablanca	5
Haddout, Soufiane	Université Ibn Tofail Kenitra	5
Hakmi, Mohammed	Université Hassan II de Casablanca	5
Nejjari, Chakib	Université Hassan II de Casablanca	5
Nsiri, Afak	Université Hassan II de Casablanca	5
Souadka, Amine	Université Mohammed V de Rabat	5

**Note : IN PROGRESS**

Ce document de travail est un exercice de veille qui a pour intention de relater quelques chiffres sur la production scientifique mondiale concernant la pandémie du coronavirus 2019. Ces données diffèrent d'une base de données à l'autre. Toutefois, les deux bases de référence (WOS et Scopus) s'accordent sur le fait que les publications augmentent de façon croissante, pareillement à la propagation du Covid-19. Ceci démontre la mobilisation de la sphère scientifique pour trouver des réponses aux questions, d'ordres divers, qui gravitent autour du Covid-19 et, espérons le très rapidement, venir à bout de ce danger mondial, encore peu « Visible ».



Bien sûr, d'autres questions, délicatement effleurées, ont été déclenchées et, néanmoins, mises en « Quarantaine » en attendant un éclairci propice à toutes les résolutions que le Covid-19 aura le mérite de susciter. Le Maroc, les pays arabes, africains... et l'autre monde, occidental mais aussi, paradoxalement, d'extrême orient, seront évidemment tous concernés par ces réflexions résolument bouleversantes.

## Annexe

Liste des publications marocaines traitant de la thématique du COVID-19 (SCOPUS 09/03/2021)

SCOPUS	
Titre du document	Auteur
<b>Autoantibodies against type I IFNs in patients with life-threatening COVID-19</b>	Bousfiha, A.A et d'autres auteurs d'affiliations étrangères
<b>Inborn errors of type I IFN immunity in patients with life-threatening COVID-19</b>	Bousfiha, A.A. d'autres auteurs d'affiliations étrangères
<b>Moroccan Medicinal plants as inhibitors against SARS-CoV-2 main protease: Computational investigations</b>	Aanouz I., Belhassan A., El-Khatibi K., Lakhlifi T., El-Idrissi M., Bouachrine M.
<b>Impact of Covid-19 lockdown on PM10, SO2 and NO2 concentrations in Salé City (Morocco)</b>	Otmani A., Benchrif A., Tahri M., Bounakhla M., Chakir E.M., El Bouch M., Krombi M.
<b>The neurology of COVID-19 revisited: A proposal from the Environmental Neurology Specialty Group of the World Federation of Neurology to implement international neurological registries</b>	Román G.C., Spencer P.S., Reis J., Buguet A., Faris M.E.A., Katrak S.M., Láinez M., Medina M.T., Meshram C., Mizusawa H., Öztürk S., Wasay M., on behalf of the WFN Environmental Neurology Specialty Group
<b>Covid-19 and Guillain-Barré syndrome: More than a coincidence!</b>	El Otmani H., El Moutawakil B., Rafai M.-A., El Benna N., El Kettani C., Soussi M., El Mdaghri N., Barrou H., Afif H.
<b>The COVID-19 pandemic: A rapid global response for children with cancer from SIOP, COG, SIOP-E, SIOP-PODC, IPSO, PROS, CCI, and St Jude Global</b>	Sullivan M., Bouffet E., Rodriguez-Galindo C., Luna-Fineman S., Khan M.S., Kearns P., Hawkins D.S., Challinor J., Morrissey L., Fuchs J., Marcus K., Balduzzi A., Basset-Salom L., Caniza M., Baker J.N., Kebudi R., Hessissen L., Sullivan R., Pritchard-Jones K.
<b>Promoting healthy movement behaviours among children during the COVID-19 pandemic</b>	Guan H., Okely A.D., Aguilar-Farias N., del Pozo Cruz B., Draper C.E., El Hamdouchi A., Florindo A.A., Jáuregui A., Katzmarzyk P.T., Kontsevaya A., Löf M., Park W., Reilly J.J., Sharma D., Tremblay M.S., Veldman S.L.C.
<b>COVID-19: Initial experience of an international group of hand surgeons [Covid-19 : retour d'expérience d'un groupe international de chirurgiens de la main]</b>	Ducournau F., Arianni M., Awwad S., Baur E.-M., Beaulieu J.-Y., Bouloudhnine M., Caloia M., Chagar K., Chen Z., Chin A.Y., Chow E.C., Cobb T., David Y., Delgado P.J., Woon Man Fok M., French R., Golubev I., Haugstvedt J.R., Ichihara S., Jorquera R.A., Koo S.C.J.J., Lee J.Y., Lee Y.K., Lee Y.J., Liu B., Kaleli T., Mantovani G.R., Mathoulin C., Messina J.C., Muccioli C., Nazerani S., Ng C.Y., Obdeijn M.C., Van Overstraeten L., Prasetyono T.O.H., Ross M., Shih J.T., Smith N., Suarez

SCOPUS	
Titre du document	Auteur
	R. F.A., Chan P.-T., Tiemdjo H., Wahegaonkar A., Wells M.C., Wong W.-Y., Wu F., Yang X.F., Yanni D., Yao J., Liverneaux P.A.
<b>Using X-ray images and deep learning for automated detection of coronavirus disease</b>	El Asnaoui K., Chawki Y.
<b>Platelets Can Associate with SARS-CoV-2 RNA and Are Hyperactivated in COVID-19</b>	Zaid Y., Puhm F., Allaeyes I., Naya A., Oudghiri M., Khalki L., Limami Y., Zaid N., Sadki K., Ben El Haj R., Mahir W., Belayachi L., Belefquih B., Benouda A., Cheikh A., Langlois M.-A., Cherrah Y., Flamand L., Guessous F., Boilard E.
<b>Neuroinvasion, neurotropic, and neuroinflammatory events of SARS-CoV-2: understanding the neurological manifestations in COVID-19 patients</b>	Yachou Y., El Idrissi A., Belapasov V., Ait Benali S.
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<b>Cancer management challenge in a developing country in COVID-19 pandemic: Reflection of a group of Moroccan oncologists</b>	Mrabti H., Berrada N., Raiss G., Ettahri H., Abahssain H., Bourhafour M., Sahraoui S., Errihani H.
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<b>In silico study of pharmacological treatments against SARS-CoV2 main protease</b>	Kadil Y., Mouhcine M., Filali H.

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<b>Synthesis, spectroscopy, crystal structure, TGA/DTA study, DFT and molecular docking investigations of (E)-4-(4-methylbenzyl)-6-styrylpyridazin-3(2H)-one</b>	Kalai F.E., Çınar E.B., Lai C.-H., Daoui S., Chelfi T., Allali M., Dege N., Karrouchi K., Benchat N.
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<b>Hematological and biochemical abnormalities associated with severe forms of COVID-19: A retrospective single-center study from Morocco</b>	Kantri A., Ziati J., Khalis M., Haoudar A., El Aidaoui K., Daoudi Y., Chikhaoui I., El Yamani K., Mouhaoui M., El Bakkouri J., Dini N., Mahi M., Naitlho A., Bahlaoui A., Bennana A., Noussair M., Belyamani L., El Kettani C.
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<b>The psychological properties of the Arabic BDI-II and the psychological state of the general moroccan population during the mandatory quarantine due to the COVID-19 pandemic</b>	Maliki I., Elmsellem H., Hafez B., Moussaoui A.E.L., Kachmar M.R., Ouahbi A.
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<b>Risk Factors of COVID-19 Patients</b>	Ouchetto O., Drissi Bourhanbour A.
<b>Crystal structure, Hirshfeld surface analysis, DFT and molecular docking investigation of 2-(2-oxo-1,3-oxazolidin-3-yl)ethyl 2-[2-(2-oxo-1,3-oxazolidin-3-yl)ethoxy]quinoline-4-carboxylate</b>	Bouzian Y., Baydere C., Dege N., Ahabchane N.H., Mague J.T., Abudunia A., Karrouchi K., Essassi E.M.
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<b>Therapeutic strategies of COVID-19: From natural compounds to vaccine trials</b>	Bouyahya A., Omari N.E., Elmenyiy N., Hakkour M., Balahbib A., Guaouguaou F.-E., Benali T., Baaboua A.E., Belmehdi O.
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<b>Where we missed? Middle East Respiratory Syndrome (MERS-CoV) epidemiology in Saudi Arabia; 2012–2019</b>	Khan S., El Morabet R., Khan R.A., Bindajam A., Alqadhi S., Alsubih M., Khan N.A.
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<b>How has the COVID-19 pandemic improved evidence-based-medicine awareness among undergraduate medical students?</b>	Fourtassi M., Hjjiej G., Touissi Y., Hajjioui A., Abda N.
<b>COVID 2019 pandemic: a true digital revolution and birth of a new educational era, or an ephemeral phenomenon?</b>	Bentata Y.

Liste des publications marocaines traitant de la thématique du COVID-19 (WOS 09/03/2021)

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<b>Molecular Structure, Pathophysiology, and Diagnosis of COVID-19</b>	Belmehti, Omar; Hakkour, Maryam; El Omani, Nasreddine; Balahbib, Abdelaali; Guaouguaou, Fatima-Ezzahrae; Benali, Taoufiq; El Baaboua, Aicha; Lahmoud, Meriem; Elmenyiy, Naoual; Bouyahya, Abdelhakim
<b>SARS-CoV-2 in hospital wastewater during outbreak of COVID-19: A review on detection, survival and disinfection technologies</b>	Achak, Mounia; Bakri, Soufiane Alaoui; Chhiti, Younes; Alaoui, Fatima Ezzahrae M'hamdi; Barka, Nouredine; Boumya, Wafaa
<b>The Global COVID-19 Observatory and Resource Center for Childhood Cancer: A response for the pediatric oncology community by SIOP and St. Jude Global</b>	Moreira, Daniel C.; Sniderman, Elizabeth; Mukkada, Sheena; Chantada, Guillermo; Bhakta, Nickhill; Foster, Whitney; Avula, Meghana; Homsy, Maysam R.; Faughan, Lane; Happ, Brooke; Andujar, Allyson; Sonnenfelt, Jason; Dalvi, Rashmi; Frazier, A. Lindsay; Hessissen, Laila; Kearns, Pamela R.; Luna-Fineman,

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	Sandra; Moreno, Arturo; Saghir Khan, Muhammad; Sullivan, Michael; Devidas, Meenakshi; Santana, Victor; Caniza, Miguela; Pritchard-Jones, Kathy; Rodriguez-Galindo, Carlos
<b>Design ensemble deep learning model for pneumonia disease classification</b>	El Asnaoui, Khalid
<b>The threat of the COVID-19 pandemic on reversing global life-saving gains in the survival of childhood cancer: a call for collaborative action from SIOP, IPSO, PROS, WCC, CCI, St Jude Global, UICC and WHPCA</b>	Pritchard-Jones, Kathy; Abib, Simone de C., V; Esiashvili, Natia; Kaspers, Gertjan J. L.; Rosser, Jon; Van Doorninck, John A.; Braganca, Joao M. L.; Hoffman, Ruth, I; Rodriguez-Galindo, Carlos; Adams, Cary; Connor, Stephen R.; Abdelhafeez, Abdelhafeez H.; Bouffet, Eric; Howard, Scott C.; Challinor, Julia M.; Hessissen, Laila; Dalvi, Rashmi B.; Kearns, Pamela; Chantada, Guillermo L.; Frazier, Lindsay A.; Sullivan, Michael J.; Schulte, Fiona S. M.; Morrissey, Lisa K.; Kozhaeva, Olga; Luna-Fineman, Sandra; Khan, Muhammad S.
<b>Epidemic model on a network: Analysis and applications to COVID-19</b>	Bustamante-Castaneda, F.; Caputo, J-G; Cruz-Pacheco, G.; Knippel, A.; Mouatamide, F.
<b>Therapeutic Strategies of COVID-19: From Natural Compounds to Vaccine Trials</b>	Bouyahya, Abdelhakim; El Omari, Nasreddine; Elmenyiy, Nawal; Hakkour, Maryam; Balahbib, Abdelaali; Guaouguaou, Fatima-Ezzahrae; Benali, Taoufiq; El Baaboua, Aicha; Belmehdi, Omar
<b>Obesity and Disease Severity Among Patients With COVID-19</b>	Motaib, Imane; Zbiri, Saad; Elamari, Saloua; Dini, Nezha; Chadli, Asma; El Kettani, Chafik
<b>Nutritional status assessment in patients with Covid-19 after discharge from the intensive care unit</b>	Haraj, Nassim Essabah; El Aziz, Siham; Chadli, Asma; Dafir, Asma; Mjabber, Amal; Aissaoui, Ouissal; Barrou, Lhoucine; El Hamidi, Chafik El Kettani; Nsiri, Afak; Al Harrar, Rachid; Ezzouine, Hanane; Charra, Boubaker; Abdallaoui, Maha Soussi; El Kebbaj, Nisrine; Kamal, Nabiha; Bennouna, Ghali Mohamed; El Filali, Kamal Marhoum; Ramdani, Benyounes; El Mdaghri, Naima; Gharbi, Mohamed Benghanem; Afif, Moulay Hicham
<b>COVID-19: Coagulopathy and thrombosis</b>	Mezalek, Z. Tazi
<b>Manufacturing and service supply chain resilience to the COVID-19 outbreak: Lessons learned from the automobile and airline industries</b>	Belhadi, Amine; Kamble, Sachin; Jabbour, Charbel Jose Chiappetta; Gunasekaran, Angappa; Ndubisi, Nelson Oly; Venkatesh, Mani
<b>Emerging and advanced economies markets behaviour during the COVID-19 crisis era</b>	Belaid, Fateh; Ben Amar, Amine; Goutte, Stephane; Guesmi, Khaled

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<b>Environmental impacts of pre/during and post-lockdown periods on prominent air pollutants in France</b>	Ikhlassse, Hamzaoui; Benjamin, Duthil; Vincent, Courboulay; Hicham, Medromi
<b>Air quality change during the COVID-19 pandemic lockdown over the Auvergne-Rhone-Alpes region, France</b>	Sbai, Salah Eddine; Mejjad, Nezha; Norelyaqine, Abderrahim; Bentayeb, Farida
<b>Effect of preventive measures in the containment of SARS-CoV-2 epidemic: a comparative study</b>	Hoguane, A. M.; Priya, K. L.; Haddout, S.; Ljubenkov, I
<b>Mathematical Modeling Predicts That Strict Social Distancing Measures Would Be Needed to Shorten the Duration of Waves of COVID-19 Infections in Vietnam</b>	Bouchnita, Anass; Chekroun, Abdennasser; Jebrane, Aissam
<b>Review on the contamination of wastewater by COVID-19 virus: Impact and treatment</b>	Lahrich, S.; Laghrib, F.; Farahi, A.; Bakasse, M.; Saqrane, S.; EIMhammedi, M. A.
<b>Overview of current adipose-derived stem cell (ADSCs) processing involved in therapeutic advancements: flow chart and regulation updates before and after COVID-19</b>	Mazini, Loubna; Ezzoubi, Mohamed; Malka, Gabriel
<b>Impact of the COVID-19 pandemic on the nephrology activity of hemodialysis started in an emergency context: a view from Morocco</b>	Bentata, Yassamine
<b>Covid-19 and Confinement: Effect on Weight Load, Physical Activity and Eating Behavior of Higher Education Students in Southern Morocco</b>	Boukrim, Mohamed; Obtel, Majdouline; Kasouati, Jalal; Achbani, Abderrahmane; Razine, Rachid
<b>The impact of COVID-19 on rheumatology practice across Africa</b>	Akintayo, Richard O.; Akpabio, Akpabio A.; Kalla, Asgar A.; Dey, Dzifa; Migowa, Angela N.; Olaosebikan, Hakeem; Bahiri, Rachid; El Miedany, Yasser; Hadeif, Djohra; Hamdi, Wafa; Oyoo, Omondi; Slimani, Samy; Yerima, Abubakar; Taha, Yassmin; Adebajo, Adewale O.; Adelowo, Olufemi O.; Tikly, Mohammed; Ghozlani, Imad; Abdelghani, Kawther Ben; Fouad, Nermeen A.; Mosad, Doaa; El Mikkawy, Dalia; Abu-Zaid, Mohamed Hassan; Abdel-Magied, Rasha A.
<b>The unprecedented reaction of equity and commodity markets to COVID-19</b>	Amar, Amine Ben; Belaid, Fateh; Youssef, Adel Ben; Chiao, Benjamin; Guesmi, Khaled
<b>Respiratory distress following domestic chlorine poisoning</b>	Benhamza, Sabah; Lazraq, Mohamed; Bensaid, Abdelhak; Miloudi, Youssef; El Harrar, Najib

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<b>Crystal structure, Hirshfeld surface analysis, DFT and molecular docking investigation of 2-(2-oxo-1,3-oxazolidin-3-yl)ethyl 2-[2-(2-oxo-1,3-oxazolidin-3-yl)ethoxy]quinoline-4-carboxylate</b>	Bouzian, Younos; Baydere, Cemile; Dege, Necmi; Ahabchane, Nouredine Hamou; Mague, Joel T.; Abudunia, Abdulmalik; Karrouchi, Khalid; Essassi, El Mokhtar
<b>MEDT study of the 1,3-DC reaction of diazomethane with Psilostachyin and investigation about the interactions of some pyrazoline derivatives with protease (M-pro) of nCoV-2</b>	Salah, M.; Belghiti, M. E.; Aitouna, A. O.; Zeroual, A.; Jorio, S.; El Alaoui Abdellaoui, H.; El Hadki, H.; Marakchi, K.; Komiha, N.
<b>Current progress on COVID-19 related to biosensing technologies: New opportunity for detection and monitoring of viruses</b>	Laghrib, F.; Saqrane, S.; El Bouabi, Y.; Farahi, A.; Bakasse, M.; Lahrich, S.; El Mhammedi, M. A.
<b>Letter to the Editor: "Coronavirus Disease 2019 (COVID-19) Can Cause Cerebral Rebleeding"</b>	Belfquih, Hatim; Kbir, Hicham; Baallal, Hassan; Akhaddar, Ali
<b>Set-Valued Control Approach Applied to a COVID-19 Model with Screening and Saturated Treatment Function</b>	Elhia, Mohamed; Boujallal, Lahoucine; Alkama, Meryem; Balatif, Omar; Rachik, Mostafa; Liu, Chongyang
<b>Assessing Distance Learning in Higher Education during the COVID-19 Pandemic</b>	El Firdoussi, Selwa; Lachgar, Mohamed; Kabaili, Hind; Rochdi, Abdelali; Goujdami, Driss; El Firdoussi, Larbi
<b>Not all anosmia and fever was COVID-19 infection: a case report</b>	Koffi, Niamien Patrice; Abad, Cherif El Asri; Miloud, Gazzaz; Brahim, El Mostarchid
<b>COVID-19 pneumonia in a patient with sarcoidosis: A case report</b>	Ramdani, Hanae; Benelhosni, Khadija; Moatassim Billah, Nabil; Nassar, Ittimade
<b>How artificial intelligence may help the Covid-19 pandemic: Pitfalls and lessons for the future</b>	Malik, Yashpal Singh; Sircar, Shubhankar; Bhat, Sudipta; Ansari, Mohd Ikram; Pande, Tripti; Kumar, Prashant; Mathapati, Basavaraj; Balasubramanian, Ganesh; Kaushik, Rahul; Natesan, Senthilkumar; Ezzikouri, Sayeh; El Zowalaty, Mohamed E.; Dhama, Kuldeep
<b>Personal Protective Equipment and Headaches: Cross-Sectional Study Among Moroccan Healthcare Workers During COVID-19 Pandemic</b>	Hajjij, Amal; Aasfara, Jehanne; Khalis, Mohamed; Ouhabi, Hamid; Benariba, Fouad, Jr.; El Kettani, Chafik
<b>Connectedness among regional financial markets in the context of the COVID-19</b>	Ben Amar, Amine; Belaid, Fateh; Ben Youssef, Adel; Guesmi, Khaled
<b>Current Trends in Analytical Methods for the Determination of Hydroxychloroquine and Its Application as Treatment for COVID-19</b>	El Mhammedi, Moulay Abderrahim; Saqrane, Sanaa; Lahrich, Sara; Laghrib, Fathallah; El Bouabi, Younes; Farahi, Abdelfettah; Bakasse, Mina
<b>What Open-Lung Biopsy Teaches Us about ARDS in COVID-19 Patients: Mechanisms, Pathology, and Therapeutic Implications</b>	Abourida, Yassamine; Rebahi, Houssam; Chichou, Hajar; Fenane, Hicham; Msougar, Yassine; Fakhri, Anas; Hazmiri, Fatima Ezzahra; Ismail, Ayman; Rais, Hanane; Sora, Nabila; Samkaoui, Mohammed Abdenasser

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<b>Where we missed? Middle East Respiratory Syndrome (MERS-CoV) epidemiology in Saudi Arabia; 2012-2019</b>	Khan, Saman; El Morabet, Rachida; Khan, Roohul Abad; Bindajam, Ahmad; Alqadhi, Saeed; Alsubih, Majed; Khan, Nadeem Ahmad
<b>Is there a shift contagion among stock markets during the COVID-19 crisis? Further insights from TYDL causality test</b>	Ben Amar, Amine; Hachicha, Nejib; Halouani, Nihel
<b>Research Activity among Academic Medical Staff during the COVID-19 Pandemic in Marrakesh</b>	Adarmouch, Latifa; Sebbani, Majda; Amine, Mohamed
<b>Coronavirus disease 2019 (COVID-19): An overview of the immunopathology, serological diagnosis and management</b>	Anka, Abubakar Umar; Tahir, Mohammed Ibrahim; Abubakar, Sharafudeen Dahiru; Alsabbagh, Mohamed; Zian, Zeineb; Hamedifar, Haleh; Sabzevari, Araz; Azizi, Gholamreza
<b>Structural violence and hope in catastrophic times: from Camus' The Plague to Covid-19</b>	Kabel, Ahmed; Phillipson, Robert
<b>Augmented reality for relaunching tourism post-COVID-19: socially distant, virtually connected</b>	Mohanty, Priyakrushna; Hassan, Azizul; Ekis, Erdogan
<b>COVID-19 national lockdown in morocco: Impacts on air quality and public health</b>	Khomsji, K.; Najmi, H.; Amghar, H.; Chelhaoui, Y.; Souhaili, Z.
<b>ASSESSMENT OF MEDICAL EDUCATION IN THE TIME OF COVID 19: EXPERIENCE OF TANGIER MEDICAL SCHOOL IN MOROCCO</b>	El Bahloul, M.; Belafki, H.; Najdi, A.; Madani, M.; Ahlat, M.
<b>Mathematical modeling of the spread of COVID-19 among different age groups in Morocco: Optimal control approach for intervention strategies</b>	Kada, Driss; Kouidere, Abdelfatah; Balatif, Omar; Rachik, Mostafa; Labriji, El Houssine
<b>Repurposing anticancer drugs for the management of COVID-19</b>	El Bairi, Khalid; Trapani, Dario; Petrillo, Angelica; Le Page, Cecile; Zbakh, Hanaa; Daniele, Bruno; Belbaraka, Rhizlane; Curigliano, Giuseppe; Afqir, Said
<b>COVID-19 Impact on Neurosurgical Practice: Lockdown Attitude and Experience of a European Academic Center</b>	Lubansu, Alphonse; Assamadi, Mouhssine; Barrit, Sami; Dembour, Victoria; Yao, Gedeon; El Hadwe, Salim; De Witte, Olivier
<b>Structure-guided discovery approach identifies potential lead compounds targeting Mpro of SARS-CoV-2.</b>	Elmessaoudi-Idrissi, Mohcine; Tsukiyama-Kohara, Kyoko; Nourlil, Jalal; Kettani, Anass; Windisch, Marc P; Kohara, Michinori; Malik, Yashpal Singh; Dhama, Kuldeep; Benjelloun, Soumaya; Ezzikouri, Sayeh
<b>Dynamics of a stochastic coronavirus (COVID-19) epidemic model with Markovian switching</b>	Boukanjime, Brahim; Caraballo, Tomas; El Fatini, Mohamed; El Khalifi, Mohamed

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<b>Why Do We Need Serological Tests for Severe Acute Respiratory Syndrome Coronavirus-2 Diagnosis?</b>	Ghazi, Bouchra; Elghanmi, Adil
<b>Mechanisms of retinal damage in patients with COVID-19</b>	Chahbi, M.; Bennani, M.; Massamba, N.; Sandali, O.; Hassani, R. Tahiri Joutei
<b>Assessment of effective imidazole derivatives against SARS-CoV-2 main protease through computational approach</b>	Belhassan, Assia; En-nahli, Fatima; Zaki, Hanane; Lakhlifi, Tahar; Bouachrine, Mohammed
<b>The COVID-19: macroeconomics scenarii and role of containment in Morocco</b>	Firano, Zakaria; Adib Fatine, Filali
<b>The Changing Landscape of Alcohol Use and Alcohol Use Disorder During the COVID-19 Pandemic-Perspectives of Early Career Professionals in 16 Countries</b>	Calvey, Tanya; Scheibein, Florian; Saad, Noha Ahmed; Shirasaka, Tomohiro; Dannatt, Lisa; Stowe, M. J.; Shah, Bigya; Narasimha, Venkata Lakshmi; Bruschi, Angelo; Peyron, Eric; Gumikiriza-Onoria, Joy Louise; Ghosh, Abhishek; Pant, Sagun Ballav; Yee, Anne; Ratta-Apha, Woraphat; Vadivel, Ramyadarshni; Siste, Kristiana; Maiti, Tanay; Boujraf, Said; Grandinetti, Paolo; Morgan, Nirvana; Arya, Sidharth
<b>Access to Healthcare and Harm Reduction Services During the COVID-19 Pandemic for People Who Use Drugs</b>	Stowe, M. J.; Calvey, Tanya; Scheibein, Florian; Arya, Sidharth; Saad, Noha Ahmed; Shirasaka, Tomohiro; Dannatt, Lisa; Ghosh, Abhishek; Yee, Anne; Ratta-Apha, Woraphat; Vadivel, Ramyadarshni; Siste, Kristiana; Shah, Bigya; Ramalho, Rodrigo; Narasimha, Venkata Lakshmi; Delic, Mirjana; Peyron, Eric; Gumikiriza-Onoria, Joy Louise; Pant, Sagun Ballav; Boujraf, Said; Grandinetti, Paolo; Morgan, Nirvana
<b>Pregnancy and COVID-19: What we Need to Know</b>	Addi, Rachid Ait; Benksim, Abdelhafid; Cherkaoui, Mohamed
<b>Ensuring a safe and adequate blood supply during the COVID-19 pandemic: the Moroccan National Blood Center experience</b>	Bouhou, Sabah; Benajiba, Mohammed
<b>Access denied: the shortage of digitized fitness resources for people with disabilities</b>	Stratton, Catherine; Kadakia, Shevali; Balikuddembe, Joseph K.; Peterson, Mark; Hajjioui, Abderrazak; Cooper, Rory; Hong, Bo-Young; PandiyanJ, Uma; Paulina Munoz-Velasco, Laura; Joseph, James; Krassioukov, Andrei; Tripathi, Deo Rishi; Tuakli-Wosornu, Yetsa A.
<b>Study of Clinical and Biological Characteristics of Moroccan Covid-19 Patients With and Without Olfactory and/or Gustatory Dysfunction</b>	Benkirane, Hasnae; Heikel, Jaafar; Laamiri, Fatima Zahra; Bouziani, Amina; Lahmam, Houria; Al-Jawaldeh, Ayoub; El Haloui, Nouredine; Ennibi, Khalid; Akhtar-Khan, Naim; El Fahime, El Mostafa; Obtel, Majdouline; Barkat, Amina; Aguentaou, Hassan



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<b>COVID-19: Oxidative Preconditioning as a Potential Therapeutic Approach</b>	Akki, Rachid; Fath, Nada; Mohti, Hicham
<b>Stock market liquidity, the great lockdown and the COVID-19 global pandemic nexus in MENA countries</b>	Alaoui Mdaghri, Anas; Raghibi, Abdessamad; Thanh, Cuong Nguyen; Oubdi, Lahsen
<b>Impact of COVID-19 pandemic on management of autoimmune and inflammatory diseases in Morocco</b>	Wafa, Ammouri; Hicham, Harmouche; Hajar, Khibri; Mouna, Maamar; Zoubida, Mezalek Tazi; Mohamed, Adnaoui
<b>Consultation liaison psychiatry for COVID-19 inpatients: A novel care delivery program in Morocco</b>	Benjelloun, Roukaya; Otheman, Yassine; El Kettani, Chafik
<b>A stochastic time-delayed model for the effectiveness of Moroccan COVID-19 deconfinement strategy</b>	Zine, Houssine; Boukhouima, Adnane; Lotfi, El Mehdi; Mahrouf, Marouane; Torres, Delfim F. M.; Yousfi, Noura
<b>Large scale genomic analysis of 3067 SARS-CoV-2 genomes reveals a clonal geo-distribution and a rich genetic variations of hotspots mutations</b>	Laamarti, Meriem; Alouane, Tarek; Kartti, Souad; Chemaou-Elfihri, M. W.; Hakmi, Mohammed; Essabbar, Abdelomunim; Laamarti, Mohamed; Hlali, Haitam; Bendani, Houda; Boumajdi, Nassma; Benhrif, Oussama; Allam, Loubna; El Hafidi, Naima; El Jaoudi, Rachid; Allali, Imane; Marchoudi, Nabila; Fekkak, Jamal; Benrahma, Houda; Nejari, Chakib; Amzazi, Saaid; Belyamani, Lahcen; Ibrahimi, Azeddine
<b>Nanobodies: an unexplored opportunity to combat COVID-19</b>	Ezzikouri, Sayeh; Nourlil, Jalal; Tsukiyama-Kohara, Kyoko; Kohara, Michinori; El Ossmani, Hicham; Windisch, Marc P.; Benjelloun, Soumaya
<b>Platelets Can Associate With SARS-CoV-2 RNA and Are Hyperactivated in COVID-19</b>	Zaid, Younes; Puhm, Florian; Allaey, Isabelle; Naya, Abdallah; Oudghiri, Mounia; Khalki, Loubna; Limami, Youness; Zaid, Nabil; Sadki, Khalid; Ben El Haj, Rafiqua; Mahir, Wissal; Belayachi, Lamiae; Belefquih, Bouchra; Benouda, Amina; Cheikh, Amine; Langlois, Marc-Andre; Cherrah, Yahia; Flamand, Louis; Guessous, Fadila; Boilard, Eric
<b>How can clinical immunology laboratories contribute to the management of severe COVID-19 cases in limited resource contexts?</b>	Admou, Brahim; Hachimi, Abdelhamid; Samkaoui, Mohamed Abdenasser
<b>Mortality &amp; Hydroxychloroquine; Politics &amp; Pandemic: Strange liaisons lead to strange correlations</b>	Elbazidi, H.; Erraih, O.
<b>The Specificity of the Novel Coronavirus Infection in Transplantation Recipients</b>	Elkabbaj, Driss; Bahadi, Abdelali

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<b>CVDNet: A novel deep learning architecture for detection of coronavirus (Covid-19) from chest x-ray images</b>	Ouchicha, Chaimae; Ammor, Ouafae; Meknassi, Mohammed
<b>Impact assessment of containment measure against COVID-19 spread in Morocco</b>	Hammoumi, Aayah; Qesmi, Redouane
<b>Effect of restricted emissions during Covid-19 lockdown on air quality in Rabat - Morocco</b>	Elass, K.; Eddaif, A.; Radey, O.; Aitzaouit, O.; Yakoubi, M. E.; Chelhaoui, Y.
<b>Is there a link between endocrine disruptors and COVID-19 severe pneumonia?</b>	Ouleghzal, Hassan; Rafai, Mostafa; Elbenaye, Jalal
<b>Letter to the Editor Regarding "Letter to the Editor: Spinal and Neurosurgical Publications During the COVID-19 Era"</b>	Akhaddar, Ali; Akhaddar, Hiba
<b>Saliva specimens for detection of severe acute respiratory syndrome coronavirus 2 in Kuwait: A cross-sectional study</b>	Altawalah, Haya; AlHuraish, Fatma; Alkandari, Wafaa Ali; Ezzikouri, Sayeh
<b>Modeling the Impact of Unreported Cases of the COVID-19 in the North African Countries</b>	Djilali, Salih; Benahmadi, Lahbib; Tridane, Abdessamad; Niri, Khadija
<b>Tackling Childhood Stunting in the Eastern Mediterranean Region in the Context of COVID-19</b>	Al Jawaldehy, Ayoub; Doggui, Radhouene; Borghi, Elaine; Aguenou, Hassan; Ammari, Laila El; Abul-Fadl, Azza; McColl, Karen
<b>Optimal Containment Control Strategy of the Second Phase of the COVID-19 Lockdown in Morocco</b>	Lhous, Mustapha; Zakary, Omar; Rachik, Mostafa; Magri, El Mostafa; Tridane, Abdessamad
<b>Burn patients' management during the COVID-19 pandemic: An institutional report from the Mohammed Vth Teaching Armed Forces Hospital in Morocco</b>	Fouadi, Fatima Ezzahra; Ababou, Karim; Belkouch, Ahmed; El Khatib, Karim; Siah, Samir
<b>Fecal calprotectin and RT-PCR from both nasopharyngeal swab and stool samples prior to treatment decision in IBD patients during CoVID-19 outbreak</b>	Younes, Cherradi
<b>Organization of a radiotherapy service during the COVID-19 epidemic: Experience of Regional Center of Oncology of Agadir, Morocco</b>	Amaoui, B.; Semghouli, S.; Benjaafar, N.
<b>Infectious Waste Management Strategy during COVID-19 Pandemic in Africa: an Integrated Decision-Making Framework for Selecting Sustainable Technologies</b>	Belhadi, Amine; Kamble, Sachin S.; Khan, Syed Abdul Rehman; Touriki, Fatima Ezahra; Kumar M., Dileep

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<b>In silico analysis of ACE2 orthologues to predict animal host range with high susceptibility to SARS-CoV-2</b>	Bouricha, El Mehdi; Hakmi, Mohammed; Akachar, Jihane; Belyamani, Lahcen; Ibrahim, Azeddine
<b>Spontaneous Pneumomediastinum Associated with COVID-19 Pneumonia</b>	Mimouni, Hamza; Diyas, Soufiane; Ouachaou, Jamal; Laaribi, Ilyas; Oujidi, Younes; Merbouh, Manal; Bkiyar, Houssam; Housni, Brahim
<b>Maintaining education, research and innovation in orthopaedic surgery during the COVID-19 pandemic. The role of virtual platforms. From presential to virtual, front and side effects of the pandemic</b>	Scarlat, Marius M.; Sun, Jing; Fucs, Patricia M. B.; Giannoudis, Peter; Mavrogenis, Andreas F.; Benzakour, Thami; Quaile, Andrew; Waddell, James P.
<b>Third Cranial Nerve Palsy Presenting with Unilateral Diplopia and Strabismus in a 24-Year-Old Woman with COVID-19</b>	Belghmaidi, Sarah; Nassih, Houda; Boutgayout, Saloua; El Fakiri, Karima; El Qadiry, Rabi; Hajji, Ibtissam; Bourrahouate, Aicha; Moutaouakil, Abdeljalil
<b>Diabetes Care During Hajj</b>	Shaikh, Shehla; Ashraf, Hamid; Shaikh, Khalid; Iraqi, Hinde; Ndour Mbaye, Maimouna; Kake, Amadou; Mohamed, Gaman Ali; Selim, Shahjada; Wali Naseri, Mohammad; Syed, Imran; Said, Jamil Abdul Kadir; Raza, S. Abbas; Kassim, Hidayat; Aydin, Hasan; Latheef, Ali; Beebeejaun, Mehjabeen; Uloko, Andrew E.; Pastakia, Sonak D.; Kalra, Sanjay
<b>Coronavirus disease-19 (COVID-19) associated with acute pancreatitis: case report</b>	Simou, El Mehdi; Louardi, Mounir; Khaoury, Mane; Abidi, Med Amine; Mansour, Akram; El Louadghiri, Aymane; Fahmaoui, Kawtar; Ezzouine, Hanane; Charra, Boubaker
<b>Agriculture supply chain risks and COVID-19: mitigation strategies and implications for the practitioners</b>	Sharma, Rohit; Shishodia, Anjali; Kamble, Sachin; Gunasekaran, Angappa; Belhadi, Amine
<b>SARS-CoV2 disease seen through the prism of acutely decompensated chronic kidney disease and ischemic stroke: What lesson we have learned from using prophylaxis therapy of vascular thromboembolism?</b>	Hazim, Asmaa; Aasfara, Jehanne; Slassi, Ilham; Canaud, Bernard; Haoudar, Amal; Naitlhou, Abdelhamid; El Kettani, Chafik
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<b>In silico exploration of small-molecule alpha-helix mimetics as inhibitors of SARS-COV-2 attachment to ACE2</b>	Hakmi, Mohammed; Bouricha, E. L. Mehdi; Akachar, Jihane; Lmimouni, Badreddine; El Harti, Jaouad; Belyamani, Lahcen; Ibrahim, Azeddine
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