

The first stage of this review was to compare the original search string to the targets listed under the Sustainable Development Goal (SDG).

SDG targets listed here: <https://sustainabledevelopment.un.org/sdg1>

The purpose of this stage was to understand whether the Scopus results correctly reflected the theme of the SDG. The SDGs were unanimously agreed by member states of the United Nations, with very deliberate language and scope/ exclusions, so the results of this analysis should accurately reflect the specific SDG themes.

The theme of the SDG promotes the **eradication of extreme poverty** and aims to reduce the amount of people living in poverty by half. Appropriate **social protection systems**, which distinguishes a variety of segments of a country's population, should be in place or should be established. Each individual should have **equal rights to economic resources** and should have **access to basic services, tenure rights and ownership** and control of property, natural resources, technology and financial services. Resilience of the poor and others to reduce vulnerability to climate-related events or other economic, social or environmental disasters.

A Scopus search was conducted using the original search string. This returned 210,613 document results.

The top 20 cited articles were reviewed. 19 of the 20 articles do not closely reflect the theme of the SDG. Except for two articles, one on environmental pollution and one on innovation, all articles relate to the field of medicine and healthcare. The main keyword that led to the inclusion of these articles is 'income'. Several articles made comparisons between income classes and disease, or focussed on low- and middle 'income' countries, which explains the hits. However, whereas low income or poverty might play a role as a variable, these articles primarily focus on disease-related studies. One article is considered to be closely related to the theme of the SDG. This article related health issues in underdeveloped countries to the access of poor communities to healthcare and interventions, which could be classified as a basic service.

Top 20 most cited articles listed in Scopus from the original search string:

*red text shows articles which do not closely match the theme of the SDG

Title	Year	Source title	Cited by	EID
Global cancer statistics, 2012	2015	CA Cancer Journal for Clinicians	14632	2-s2.0-84924271853
Global, regional, and national age-sex specific all-cause and cause-specific mortality for 240 causes of death, 1990-2013: A systematic analysis for the Global Burden of Disease Study 2013	2015	The Lancet	3196	2-s2.0-84920703518
The global distribution and burden of dengue	2013	Nature	3187	2-s2.0-84876804736
Maternal and child undernutrition and overweight in low-income and middle-income countries	2013	The Lancet	2151	2-s2.0-84881182352
Global estimates of diabetes prevalence for 2013 and projections for 2035	2014	Diabetes Research and Clinical Practice	1873	2-s2.0-84895832615
The global prevalence of dementia: A systematic review and metaanalysis	2013	Alzheimer's and Dementia	1804	2-s2.0-84872109456
Global, regional, and national life expectancy, all-cause mortality, and cause-specific mortality for 249 causes of death, 1980-2015: a systematic analysis for the Global Burden of Disease Study 2015	2016	The Lancet	1614	2-s2.0-84994158650

Global, regional, and national incidence, prevalence, and years lived with disability for 310 diseases and injuries, 1990–2015: a systematic analysis for the Global Burden of Disease Study 2015	2016	The Lancet	1490	2-s2.0-84994092049
Global and regional burden of stroke during 1990-2010: Findings from the Global Burden of Disease Study 2010	2014	The Lancet	1485	2-s2.0-84892515796
Burden and aetiology of diarrhoeal disease in infants and young children in developing countries (the Global Enteric Multicenter Study, GEMS): A prospective, case-control study	2013	The Lancet	1327	2-s2.0-84880508179
Plastic waste inputs from land into the ocean	2015	Science	1240	2-s2.0-84923095173
Commentary: The materials project: A materials genome approach to accelerating materials innovation	2013	APL Materials	1157	2-s2.0-84886996545
Global, regional, and national comparative risk assessment of 79 behavioural, environmental and occupational, and metabolic risks or clusters of risks in 188 countries, 1990-2013: A systematic analysis for the Global Burden of Disease Study 2013	2015	The Lancet	1096	2-s2.0-85049491557
Breastfeeding in the 21st century: Epidemiology, mechanisms, and lifelong effect	2016	The Lancet	1077	2-s2.0-84959450310
Comparison of global estimates of prevalence and risk factors for peripheral artery disease in 2000 and 2010: A systematic review and analysis	2013	The Lancet	1000	2-s2.0-84885871253
Global, regional, and national cancer incidence, mortality, years of life lost, years lived with disability, and disability-adjusted life-years for 32 cancer groups, 1990 to 2015: A Systematic Analysis for the Global Burden of Disease Study Global Burden of Disease Cancer Collaboration	2017	JAMA Oncology	986	2-s2.0-85018321414
Forecasting the impact of heart failure in the united states a policy statement from the american heart association	2013	Circulation: Heart Failure	959	2-s2.0-84879202874
Evidence-based interventions for improvement of maternal and child nutrition: What can be done and at what cost?	2013	The Lancet	900	2-s2.0-84881141592
Rapid health transition in China, 1990-2010: Findings from the Global Burden of disease study 2010	2013	The Lancet	900	2-s2.0-84878642879
Global cancer incidence and mortality rates and trends - An update	2016	Cancer Epidemiology Biomarkers and Prevention	889	2-s2.0-84955299344

In addition, a randomised sample of 20 articles was reviewed. 19 of the 20 articles do not closely reflect the theme of the SDG. Specifically, these articles related to the field of medicine, environmental sciences and economics unrelated to poverty alleviation. One article was related to the theme of the SDG, on rural poverty alleviation in Brazil.

Randomised sample of 20 articles listed in Scopus from the original search string:

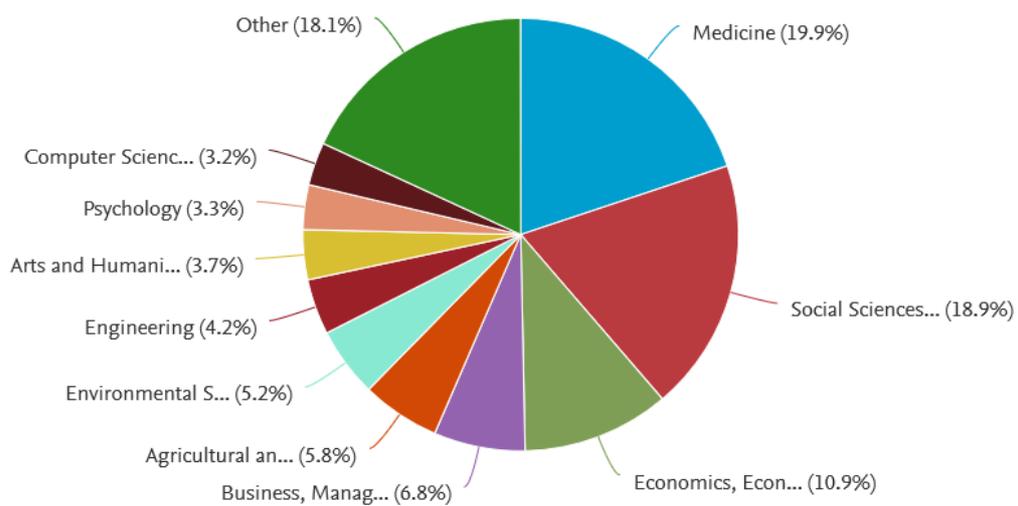
*red text shows articles which do not closely match the theme of the SDG

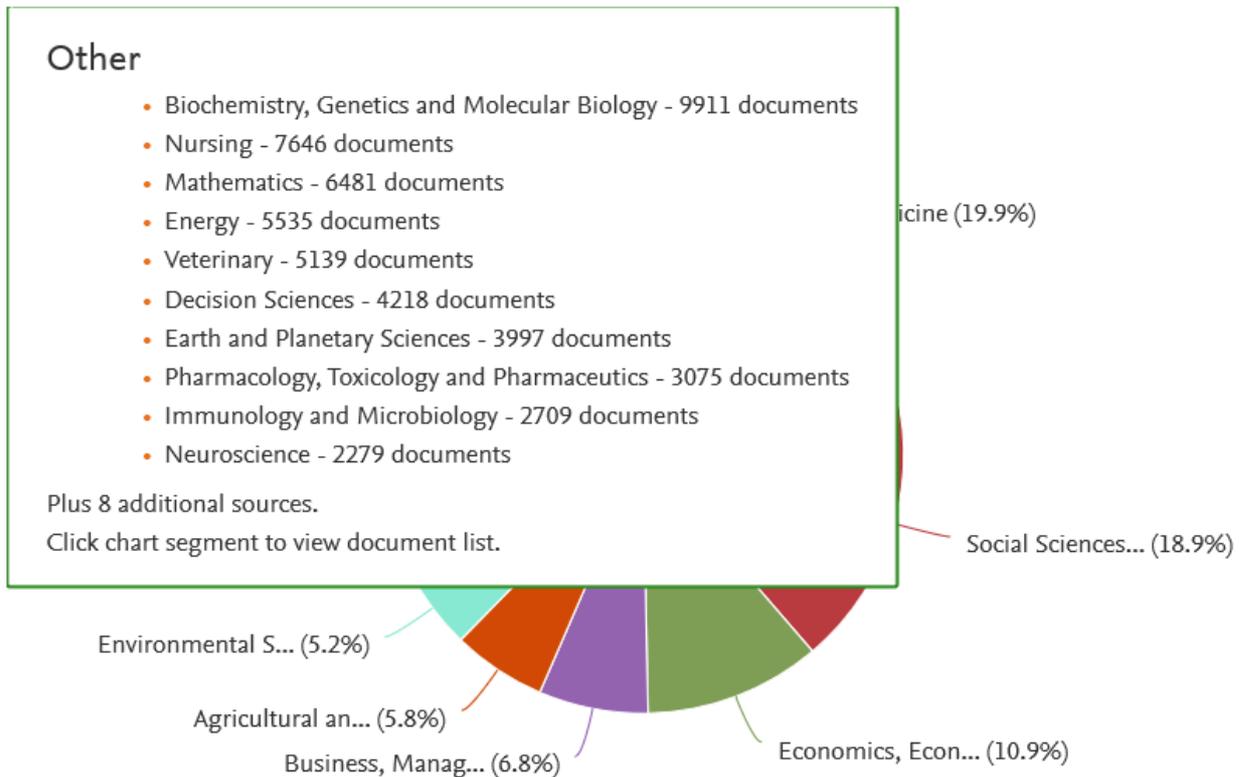
Title	Year	Source title	Cited by	EID
Generalized friendship paradox in complex networks: The case of scientific collaboration	2014	Scientific Reports	29	2-s2.0-84898416584
Prevalence and associated factors of hypertension among adults in durame town, Southern Ethiopia	2014	PLoS ONE	24	2-s2.0-84911911595
Sitting time in Germany: An analysis of socio-demographic and environmental correlates	2013	BMC Public Health	22	2-s2.0-84874514672
Bridging the human resource gap in primary health care delivery systems of developing countries with mhealth: Narrative literature review	2013	Journal of Medical Internet Research	17	2-s2.0-84891799730
Energy efficiency investments in the context of split incentives among French households	2015	Energy Policy	15	2-s2.0-84945545424
Valuation compressions in VCG-based combinatorial auctions	2013	Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics)	10	2-s2.0-84893102742
Examining the text-based, on-demand, analytical writing of mainstreamed Latino English learners in a randomized field trial of the Pathway Project intervention	2014	Reading and Writing	8	2-s2.0-84902289161
Which subsidy mode improves the financial performance of renewable energy firms? A panel data analysis of wind and solar energy companies between 2009 and 2014	2015	Sustainability (Switzerland)	7	2-s2.0-84952322277
Investment risk and the transition into homeownership	2016	Journal of Regional Science	6	2-s2.0-34247344479
Identifying barriers to follow-up eye care for children after failed vision screening in a primary care setting	2013	Journal of AAPOS	6	2-s2.0-84883442908
Persistence of social inequalities in modern welfare states: Explanation of a paradox	2017	Scandinavian Journal of Public Health	5	2-s2.0-85013173163
Learning groups: the effects of group diversity on the quality of group reflection	2017	Accounting Education	2	2-s2.0-85019547483
Veterinary management of starved and neglected horses	2014	In Practice	2	2-s2.0-84896790419
Efeitos do pronaf sobre a pobreza rural no Brasil (2001-2009)	2014	Revista de Economia e Sociologia Rural	1	2-s2.0-84928896527
Urban core transit access to low-income jobs	2013	Transportation Research Record	1	2-s2.0-84885456682
Inflation and welfare in retail markets: Prior production and imperfectly directed search	2013	Journal of Money, Credit and Banking	1	2-s2.0-84880377939
NAITRE study on the impact of conditional cash transfer on poor pregnancy outcomes in underprivileged women: Protocol for a nationwide pragmatic cluster-randomised superiority clinical trial in France	2017	BMJ Open	0	2-s2.0-85032709612

Drought mitigation practices	2017	Handbook of Drought and Water Scarcity: Management of Drought and Water Scarcity	0	2-s2.0-85053300561
Utility and Rationality	2015	Intelligent Systems Reference Library	0	2-s2.0-84940717524
Tax strategies for the small business owner: Reduce your taxes and fatten your profits	2013	Tax Strategies for the Small Business Owner: Reduce Your Taxes and Fatten Your Profits	0	2-s2.0-84933524396

Reflection on subject areas that should be excluded (incl. pie charts)

Documents by subject area





The pie charts confirm the results found in the top 20 and the randomised sample. About 1/5 of the articles retrieved with this search query relate to the field of medicine. Whereas some studies can cover a relationship between poverty and access to health care, it is highly unlikely that the majority of these articles will be relevant for the SDG theme, as confirmed by the results of the analyses. Both the fields of 'Social sciences' and 'Economics' take up a large proportion of the results. Whereas a proportion of these articles will be relevant for the SDG, some are not closely related as demonstrated by the irrelevant articles on economics in the randomised sample. Finally, the 'Other' field takes up a large proportion of the results. Articles on 'Biochemistry, Genetics and Molecular Biology' or 'Nursing' are not relevant for the SDG. These findings show that this query needs to be cleaned up and narrower keywords are required to generate results that closely reflect theme of the SDG.

Update 1) The search keywords were edited to remove the broader search terms, or to make them more specific by combining with other search keywords.

Original search string: 210,613 document results

TITLE-ABS-KEY ((*poverty* OR *income** OR *finance** OR {*distributional effect*} OR {*distributional effects*} OR {*child labor*} OR {*child labour*} OR {*development aid*} OR {*social protection*} OR *microfinanc** OR *micro-financ** OR {*resilience of the poor*} OR (*resilien** AND *poor*) OR {*safety net*} OR {*safety nets*} OR {*economic resource*} OR {*economic resources*} OR *welfare* OR {*food bank*} OR {*food banks*})) AND PUBYEAR < 2018 AND PUBYEAR > 2012

Rationale for edits to the search keywords:

<u>query term</u>	<u>decision</u>	<u>rationale</u>
Poverty	Changed to: {extreme poverty} {poverty alleviation} {poverty eradication} {poverty	Narrowed down to include keywords that specifically relate to the targets

	reduction} {international poverty line}	
Income*	Deleted	Income* is far too broad and leads to hits on many articles unrelated to the theme of the SDG. Deleted as poverty already indicates low income.
Finance*	Deleted	Too broad, microfinance* is included as a keyword. It seems better to delete this keyword and add more narrow keywords in return (see below)
{Financial aid} AND {poverty}	Added	
{Financial aid} AND {poor}	Added	
{Financial aid} AND {north-south divide}	Added	
{financial development} AND {poverty}	Added	
{financial empowerment}	Added	
{social protection} AND access	ADDED	
{social protection system}	Added	
{safety net}	Changed to ({safety net} AND {poor} OR {vulnerable})	Changed to narrow the results down to safety nets for poor and vulnerable segments of the population and to disregard results on medical studies, engineering studies, etc
{safety nets}	Deleted	See {safety net}
{resilienc* AND poor}	Deleted	This part of the query on its own does not bring up any results, deleted
Economic resource	Changed to {economic resource} and access	Too broad on its own
Economic resources	Changed to {economic resources} and access	Too broad on its own
Welfare	Deleted	Welfare is too general on its own and leads to hits on many articles unrelated to the SDG, deleted

Updated search string (first update): 10,387 document results

TITLE-ABS-KEY (({extreme poverty} OR {poverty alleviation} OR {poverty eradication} OR {poverty reduction} OR {international poverty line} OR ({financial aid} AND {poverty}) OR ({financial aid} AND {poor}) OR ({financial aid} AND {north-south divide}) OR ({financial development} AND {poverty}) OR {financial empowerment} OR {distributional effect} OR {distributional effects} OR {child labor} OR {child labour} OR {development aid} OR {social protection} OR {social protection system} OR ({social protection} AND access) OR microfinanc* OR micro-financ* OR {resilience of the poor} OR ({safety net} AND {poor} OR {vulnerable}) OR ({economic resource} AND access) OR ({economic resources} AND access) OR {food bank} OR {food banks})) AND PUBYEAR < 2018 AND PUBYEAR > 2012

The results of the updated search were reviewed to check whether they aligned closely with the SDG theme.

The updated search returned 10,387 document results, compared to 210,613 document results for the original search.

The top 20 cited articles were reviewed. Two out of 20 articles were not closely related to the theme of the SDG. These two articles related to health issues, either in relation to political dimensions causing them or potential improvements regarding interventions.

Top 20 most cited articles listed in Scopus from search string version 1:

*red text shows articles which do not closely match the theme of the SDG

Title	Year	Source title	Cited by	EID
Evidence-based interventions for improvement of maternal and child nutrition: What can be done and at what cost?	2013	The Lancet	900	2-s2.0-84881141592
Financial crisis, austerity, and health in Europe	2013	The Lancet	660	2-s2.0-84876170314
Ten principles for a landscape approach to reconciling agriculture, conservation, and other competing land uses	2013	Proceedings of the National Academy of Sciences of the United States of America	395	2-s2.0-84878155029
On the psychology of poverty	2014	Science	236	2-s2.0-84901218210
The diffusion of microfinance	2013	Science	232	2-s2.0-84880712969
The political origins of health inequity: Prospects for change	2014	The Lancet	217	2-s2.0-84893823818
An overview of global rice production, supply, trade, and consumption	2014	Annals of the New York Academy of Sciences	194	2-s2.0-84908689393
The miracle of microfinance? Evidence from a randomized evaluation	2015	American Economic Journal: Applied Economics	182	2-s2.0-84921522993
The impoverished gut - A triple burden of diarrhoea, stunting and chronic disease	2013	Nature Reviews Gastroenterology and Hepatology	182	2-s2.0-84876406258
Nurturing care: promoting early childhood development	2017	The Lancet	178	2-s2.0-85001960795
Sea cucumber fisheries: Global analysis of stocks, management measures and drivers of overfishing	2013	Fish and Fisheries	170	2-s2.0-84873465625
New financial alternatives in seeding entrepreneurship: Microfinance, crowdfunding, and peer-to-peer innovations	2015	Entrepreneurship: Theory and Practice	166	2-s2.0-84920747088
The politics of reducing malnutrition: Building commitment and accelerating progress	2013	The Lancet	163	2-s2.0-84881479246
African Agriculture in 50 Years: Smallholders in a Rapidly Changing World?	2014	World Development	161	2-s2.0-84905023027
Why Do Women Not Use Antenatal Services in Low- and Middle-Income Countries? A Meta-Synthesis of Qualitative Studies	2013	PLoS Medicine	157	2-s2.0-84873869182
Confronting suburban poverty in America	2013	Confronting Suburban Poverty in America	146	2-s2.0-84946819468

Central and South America	2015	Climate Change 2014: Impacts, Adaptation and Vulnerability: Part B: Regional Aspects: Working Group II Contribution to the Fifth Assessment Report of the Intergovernmental Panel on Climate Change	143	2-s2.0-84954290473
Safe and just operating spaces for regional social-ecological systems	2014	Global Environmental Change	143	2-s2.0-84910642430
A multifaceted program causes lasting progress for the very poor: Evidence from six countries	2015	Science	139	2-s2.0-84929378459
Contribution of Fisheries and Aquaculture to Food Security and Poverty Reduction: Assessing the Current Evidence	2016	World Development	137	2-s2.0-84897044389

In addition, a randomised sample of 20 articles were reviewed. 19 of the 20 articles do not closely reflect the theme of the SDG. Specifically, these related to the field of medicine, environmental sciences and economics unrelated to poverty alleviation. One article was related to the theme of the SDG, on rural poverty alleviation in Brazil.

Randomised sample of 20 articles listed in Scopus from search string version 1:

*red text shows articles which do not closely match the theme of the SDG

Title	Year	Source title	Cited by	EID
Korea: Balancing economic growth and social protection for older adults	2013	Gerontologist	23	2-s2.0-84877592229
CSR, tax and development	2013	Third World Quarterly	21	2-s2.0-84878539505
Towards an integrated framework for sdgs: Ultimate and enabling goals for the Case of energy	2013	Sustainability (Switzerland)	18	2-s2.0-84887146741
Impact of microfinance on sustainable entrepreneurship development	2015	Development Studies Research	10	2-s2.0-85006339728
Do Developing-country WTO Members Receive More Aid for Trade (Aft)?	2015	World Economy	10	2-s2.0-84941192350
Should student employment be subsidized? Conditional counterfactuals and the outcomes of work-study participation	2016	Economics of Education Review	9	2-s2.0-84937509745
The Unique Identity (UID) Project, Biometrics and Re-Imagining Governance in India	2014	Oxford Development Studies	9	2-s2.0-84918828848
Index Insurance for Developing Country Agriculture: A Reassessment	2017	Annual Review of Resource Economics	8	2-s2.0-85031097989
Stress-testing Africa's recent growth and poverty performance	2015	Journal of Policy Modeling	7	2-s2.0-84931576268

Broadening the Global Development Framework Post 2015: Embracing Policy Coherence and Global Public Goods	2016	European Journal of Development Research	5	2-s2.0-84952802589
emotional testimonies: An ethnographic study of emotional suffering related to migration from Mexico to arizona	2015	Frontiers in Public Health	5	2- s2.0-85020482183
Does group inclusion hurt financial inclusion? Evidence from ultra-poor members of Ugandan savings groups	2017	Journal of Development Economics	3	2-s2.0-85016127200
Venezuelan Adults' Views on the Indivisibility of Human Rights: A Preliminary Study	2014	Psicologica	3	2-s2.0-84919675499
Fuel Efficiency Improvements: Feedback Mechanisms and Distributional Effects in the Oil Market	2017	Environmental and Resource Economics	2	2-s2.0-85015931289
Toward equitable oil governance: Improving the benefits for local people in the Cepu Block, Indonesia	2016	International Journal of Civic, Political, and Community Studies	1	2-s2.0-85012231826
Parents' decision on child labour and school attendance: evidence from Iranian households	2017	Journal of Education and Work	0	2-s2.0-85024502513
Current trends of legal regulation of relationships in the social protection sphere	2017	Man in India	0	2-s2.0-85024132210
Social protection in Italy and Spain, between crisis and illegal phenomena [La protezione sociale nell'ordinamento italiano e spagnolo, tra crisi e fenomeni di illegalità]	2015	Lavoro e Diritto	0	2-s2.0-84955576430
Pro-Poor microfinance: Rethinking policies and practices in urban India	2014	Inclusive Urbanization: Rethinking Policy, Practice and Research in the Age of Climate Change	0	2-s2.0-84955390555
The contribution of the ILO declaration on fundamental principles and rights at work to the elimination of child labour	2013	Child Labour in a Globalized World: A Legal Analysis of ILO Action	0	2-s2.0-84937418553

Graphical summary of co-occurrence of terms from 2000 randomly selected results:

The global distribution and burden of dengue	2013	Nature	3187	2-s2.0-84876804736
Maternal and child undernutrition and overweight in low-income and middle-income countries	2013	The Lancet	2151	2-s2.0-84881182352
Global estimates of diabetes prevalence for 2013 and projections for 2035	2014	Diabetes Research and Clinical Practice	1873	2-s2.0-84895832615
The global prevalence of dementia: A systematic review and metaanalysis	2013	Alzheimer's and Dementia	1804	2-s2.0-84872109456
Global, regional, and national life expectancy, all-cause mortality, and cause-specific mortality for 249 causes of death, 1980–2015: a systematic analysis for the Global Burden of Disease Study 2015	2016	The Lancet	1614	2-s2.0-84994158650
Global, regional, and national incidence, prevalence, and years lived with disability for 310 diseases and injuries, 1990–2015: a systematic analysis for the Global Burden of Disease Study 2015	2016	The Lancet	1490	2-s2.0-84994092049
Global and regional burden of stroke during 1990-2010: Findings from the Global Burden of Disease Study 2010	2014	The Lancet	1485	2-s2.0-84892515796
Burden and aetiology of diarrhoeal disease in infants and young children in developing countries (the Global Enteric Multicenter Study, GEMS): A prospective, case-control study	2013	The Lancet	1327	2-s2.0-84880508179
Plastic waste inputs from land into the ocean	2015	Science	1240	2-s2.0-84923095173
Commentary: The materials project: A materials genome approach to accelerating materials innovation	2013	APL Materials	1157	2-s2.0-84886996545
Global, regional, and national comparative risk assessment of 79 behavioural, environmental and occupational, and metabolic risks or clusters of risks in 188 countries, 1990-2013: A systematic analysis for the Global Burden of Disease Study 2013	2015	The Lancet	1096	2-s2.0-85049491557
Breastfeeding in the 21st century: Epidemiology, mechanisms, and lifelong effect	2016	The Lancet	1077	2-s2.0-84959450310
Comparison of global estimates of prevalence and risk factors for peripheral artery disease in 2000 and 2010: A systematic review and analysis	2013	The Lancet	1000	2-s2.0-84885871253
Global, regional, and national cancer incidence, mortality, years of life lost, years lived with disability, and disability-adjusted life-years for 32 cancer groups, 1990 to 2015: A Systematic Analysis for the Global Burden of Disease Study Global Burden of Disease Cancer Collaboration	2017	JAMA Oncology	986	2-s2.0-85018321414
Forecasting the impact of heart failure in the united states a policy statement from the american heart association	2013	Circulation: Heart Failure	959	2-s2.0-84879202874
Rapid health transition in China, 1990-2010: Findings from the Global Burden of disease study 2010	2013	The Lancet	900	2-s2.0-84878642879
Global cancer incidence and mortality rates and trends - An update	2016	Cancer Epidemiology Biomarkers and Prevention	889	2-s2.0-84955299344

Role of the microbiota in immunity and inflammation	2014	Cell	870	2-s2.0-84897138296
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The first update provides a better focus on the targets of SDG 1. The top 20 cited and the randomised sample that were reviewed show that improvements have been made and the search query primarily retrieves articles that are closely related to the theme of the SDG. The co-occurrence of the keywords shows that the targets on ending poverty are well-covered. It also shows that this leads to hits on studies related to healthcare and educational aspects. This can be explained as studies on poverty reduction regularly cover aspects to alleviate poverty in the future, such as education or better and accessible healthcare, which forms a vicious circle with poverty alleviation. Therefore, it is unlikely that such articles and related keywords will be completely excluded from the results of (updated) search queries.