Topic 4 - Top Papers Report

Total papers analyzed: 5781

Papers above threshold: 172

Threshold value: 0.2671

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| Title | Year | Type | Submitted By | Topic 4 Score |
| Climate Change in Antarctica | 2015 | ip | United Kingdom | 0.9683 |
| Recent Findings of IPCC on Antarctic Climate Change and Relevant Upcoming Activities | 2016 | ip | IPCC | 0.8856 |
| Antarctic Climate Change and the Environment – An Update | 2010 | ip | SCAR | 0.8801 |
| Antarctic Peninsula: rapid warming in a pristine environment | 2008 | ip | United Kingdom | 0.8597 |
| The Antarctic and Climate Change | 2005 | ip | ASOC | 0.8535 |
| Increasing evidence of critical sea-level rise with emissions above 1.5°C Paris agreement limit | 2023 | ip | ASOC | 0.8374 |
| The SCAR Antarctic Climate Evolution (ACE) Programme | 2011 | ip | SCAR | 0.8305 |
| Antarctic Climate Change and the Environment – 2019 Update | 2019 | ip | SCAR | 0.8289 |
| Update: The Future of the West Antarctic Ice Sheet | 2013 | ip | ASOC | 0.8073 |
| Revised Management Plan for Antarctic Specially Protected Area No. 121 Cape Royds, Ross Island | 2021 | wp | United States | 0.8005 |
| The Antarctic Peninsula under a 1.5°C global warming scenario | 2019 | wp | United Kingdom | 0.7995 |
| Antarctic Climate Change and the Environment 2016 Update | 2016 | ip | SCAR | 0.7886 |
| Antarctic Climate Change Report Card | 2016 | ip | ASOC | 0.7883 |
| The Antarctic Climate Change and the Environment (ACCE) Report: A Key Update | 2013 | wp | SCAR | 0.7865 |
| State of the Antarctic and Southern Ocean Climate System (SASOCS) | 2007 | ip | SCAR | 0.7805 |
| Policy-relevant science highlights from the Antarctic CORDEX project | 2023 | ip | WMO | 0.7802 |
| Antarctic Climate Change and the Environment: an Update | 2012 | ip | SCAR | 0.7657 |
| Antarctic Climate Change and the Environment – 2017 Update | 2017 | ip | SCAR | 0.7428 |
| Antarctica 2300 (ISMIP6) Projections | 2023 | ip | WMO | 0.7331 |
| Climate Change: an Antarctic Perspective | 2006 | ip | SCAR | 0.7279 |
| Antarctic Climate Change and the Environment – 2015 Update | 2015 | ip | SCAR | 0.7269 |
| Plans for an Antarctic Climate Assessment – Trends and Impacts | 2006 | ip | SCAR | 0.7192 |
| Antarctic Climate Change and the Environment – 2014 Update | 2014 | ip | SCAR | 0.7158 |
| Antarctic Peninsula: Ice shelf status | 2008 | ip | United Kingdom | 0.7153 |
| Antarctic Climate Change and the Environment – 2011 Update | 2011 | ip | SCAR | 0.7096 |
| Recent Developments in Indian Ice-core Drilling Program in Dronning Maud Land, East Antarctica | 2015 | ip | India | 0.7002 |
| Antarctica and climate change – implications for governance | 2007 | ip | United Kingdom | 0.6968 |
| Antarctic and Southern Ocean Climate Change in a Global Context | 2021 | wp | SCAR | 0.6962 |
| SCAR’s Antarctic Climate Change and the Environment (ACCE) review report | 2009 | ip | SCAR | 0.6880 |
| ATS Contributions 2005 | 2005 | ip | ATS | 0.6833 |
| Climate Change 2015: A Report Card | 2015 | ip | ASOC | 0.6817 |
| Antarctic Climate Change and the Environment: A Progress Report | 2008 | ip | SCAR | 0.6792 |
| Antarctic Climate Change Report Card 2014 | 2014 | ip | ASOC | 0.6719 |
| Antarctic warming: early signs of global climate change | 1995 | ip | ASOC | 0.6700 |
| Predicting the state of the Southern Ocean during the 21st century | 2003 | ip | SCAR | 0.6603 |
| Addressing management implication of loss of sea-ice | 2023 | wp | Norway, United Kingdom | 0.6548 |
| Climate changes and Antarctica | 1998 | ip | ASOC | 0.6525 |
| Climate Change Report Card | 2017 | ip | ASOC | 0.6412 |
| An Antarctic Climate Change Report Card | 2013 | ip | ASOC | 0.6229 |
| Antarctic Climate Change, Ice Sheet Dynamics and Irreversible Thresholds: ATCM Contributions to the IPCC and Policy Understanding | 2016 | ip | ASOC | 0.6199 |
| Understanding Future Sea-level Change Around Antarctica | 2023 | ip | SCAR, COMNAP | 0.6177 |
| Antarctic Climate Change and the Environment: A Decadal Synopsis. Research Imperatives | 2022 | wp | SCAR | 0.6130 |
| Regional climate downscaling through the Antarctic-CORDEX project | 2017 | ip | WMO | 0.6091 |
| The West Antarctic Ice Sheet in the Fifth Assessment Report of the Intergovernmental Panel on Climate Change (IPCC): a key threat, a key uncertainty | 2014 | ip | ASOC | 0.6069 |
| SCAR Lecture. "Climate Change and the Antarctic: What Next?" | 2007 | ip | SCAR | 0.6005 |
| SCAR Global Change Programme (SCARGCP) | 1997 | ip | SCAR | 0.5895 |
| The Future Challenges of Antarctic Research – The Finnish Perspective | 2017 | ip | Finland | 0.5853 |
| Climate change impacts on Antarctic ice-free areas | 2017 | ip | Australia | 0.5787 |
| Antarctic Sea-Ice Processes and Climate | 1999 | ip | SCAR | 0.5782 |
| Antarctic Lakes and Global Climate Perspectives: The Indian Footprint | 2015 | ip | India | 0.5718 |
| SCAR Global change research programme | 1998 | ip | SCAR | 0.5696 |
| International Polar Year Research: Project ANDRILL | 2007 | ip | New Zealand | 0.5668 |
| Antarctica in a Changing Climate | 2021 | wp | United Kingdom, Australia, Belgium, Finland, France, Germany, Netherlands, New Zealand, Norway, Spain, Sweden, United States | 0.5662 |
| Climate Changes | 2007 | wp | Norway | 0.5652 |
| Antarctica in a Changing Climate – Implementing ATCM Resolution 8 (2021) | 2022 | wp | United Kingdom, Australia, Belgium, Finland, France, Germany, Netherlands, Norway, Sweden, United States, SCAR, ASOC | 0.5651 |
| SCAR engagement with the United Nations Framework Convention on Climate Change (UNFCCC) | 2014 | ip | SCAR | 0.5620 |
| Ice Sheet Instability, Long-term Sea-level Rise, and Southern Ocean Acidification: Time for Coordinated Action by Antarctic Treaty Parties | 2022 | ip | ASOC | 0.5609 |
| Australia’s Antarctic climate science | 2023 | ip | Australia | 0.5540 |
| Conference on Climate Change and Governance, Wellington, March 2006 | 2006 | ip | New Zealand | 0.5351 |
| The Ross Sea: A Valuable Reference Area to Assess the Effects of Climate Change | 2011 | ip | ASOC | 0.5329 |
| Impacts of Climate Change on Antarctic Ecosystems | 2008 | ip | ASOC | 0.5303 |
| SAR-WG Search and Rescue Incidents in the Ross Sea Region: 2004 - 2013 | 2013 | ip | New Zealand | 0.5265 |
| Two recent International Climate Change Scientific Events held in Chile | 2010 | ip | Chile | 0.5245 |
| Projections of future population decline indicate the need to designate the emperor penguin as an Antarctic Specially Protected Species | 2021 | ip | SCAR | 0.5239 |
| A five-year assessment of the impacts on emperor penguins of low sea-ice extent | 2023 | wp | United Kingdom, France, Germany, United States | 0.5203 |
| Antarctic Climate Change and the Environment: A Decadal Synopsis and Recommendations for Action | 2022 | ip | SCAR | 0.5161 |
| COMNAP Sea Ice Challenges Workshop | 2015 | ip | COMNAP | 0.5148 |
| Policy implications arising from SCAR’s report: Antarctic climate change and the environment | 2009 | ip | ASOC | 0.5120 |
| The role of Antarctica in global climate processes | 2015 | wp | United Kingdom, Norway | 0.5097 |
| U.K./U.S. Research Initiative on Thwaites: The Future of Thwaites Glacier and its Contribution to Sea-level Rise | 2017 | ip | United States, United Kingdom | 0.5055 |
| Australia’s Antarctic and Southern Ocean Climate Science | 2008 | ip | Australia | 0.4855 |
| Report of Antarctic Parliamentarians Assembly 2-3 December 2019: London | 2021 | ip | United Kingdom | 0.4843 |
| Limiting global warming to 1.5°: the Antarctic context | 2019 | ip | ASOC | 0.4824 |
| The Value of Long-term Ecological Datasets to Evaluate Ecosystem Response to Environmental Change along the Antarctic Peninsula | 2022 | ip | United States | 0.4790 |
| The Recommendations of SCAR on Climate Action in the Antarctic: The Finnish Perspective | 2023 | wp | Finland | 0.4746 |
| The relevance of the MPA designation process in Domain 1 in the current climate change context | 2016 | ip | Argentina, Chile | 0.4741 |
| The Antarctic Treaty System, Climate Change and Strengthened Scientific Interface with Relevant Bodies of the United Nations Framework Convention on Climate Change (UNFCCC) | 2015 | ip | ASOC | 0.4725 |
| The Climate and Cryosphere (CliC) Project of the World Climate Research Programme (WCRP) | 2023 | ip | WMO | 0.4725 |
| International Thwaites Glacier Collaboration: The Future of Thwaites Glacier and its Contribution to Sea-level Rise | 2019 | ip | United States, United Kingdom | 0.4710 |
| United Kingdom’s Antarctic Science: Summary of British Antarctic Survey Science Priorities 2016-20 | 2016 | ip | United Kingdom | 0.4709 |
| Earth Hour Antarctica (2013) | 2012 | ip | ASOC, Australia, United Kingdom | 0.4617 |
| The Polar Climate Predictability Initiative of the World Climate Research Programme | 2017 | ip | WMO | 0.4564 |
| Agreement by CCAMLR to establish time-limited Special Areas for Scientific Study in newly exposed marine areas following ice shelf retreat or collapse in the Antarctic Peninsula region | 2017 | ip | United Kingdom, Belgium, Finland, France, Germany, Italy, Netherlands, Poland, Spain, Sweden | 0.4422 |
| Key Climate Change Actions in Antarctica: Emissions Reduction, Adaptation and Science | 2010 | ip | ASOC | 0.4412 |
| The Implications of Climate Change for the Antarctic Protected Areas System | 2010 | wp | United Kingdom | 0.4397 |
| Antarctic Climate Change and the Environment: A Decadal Synopsis. Findings and Policy Recommendations | 2022 | wp | SCAR | 0.4390 |
| Current tendencies of climatic changes based on data of Russian studies in the Antarctic | 2010 | wp | Russian Federation | 0.4321 |
| Identification of potential climate change refugia for emperor penguins: a science-based approach | 2013 | wp | United Kingdom | 0.4303 |
| DEAIS: Changes in the Drainage Pattern of the East Antarctic Ice Sheet through Time | 2023 | ip | Switzerland | 0.4300 |
| Ocean Acidification in the Southern Ocean | 2021 | wp | SCAR | 0.4285 |
| Oil spill modelling in the Weddell Sea | 1996 | ip | Belgium | 0.4243 |
| Remote Sensing Techniques for Improved Monitoring of Environment and Climate Change in Antarctica | 2011 | wp | United Kingdom | 0.4219 |
| The tendency of the dynamic changes in the Antarctic atmosphere according to the Russian Antarctic Stations Survey | 1994 | ip | Russian Federation | 0.4158 |
| Australian Antarctic Science Programme: highlights of the 2015/16 season | 2016 | ip | Australia | 0.4121 |
| Variability of Antarctic climate | 2008 | ip | Russian Federation | 0.4091 |
| Developing a Simple Methodology for Classifying Antarctic Specially Protected Areas According to their Vulnerability to Climate Change | 2011 | wp | United Kingdom, Norway | 0.4080 |
| Remote sensing: emperor penguins breeding on ice shelves | 2014 | ip | United Kingdom, United States | 0.4052 |
| Addressing critical knowledge gaps identified by the IPCC in Antarctica’s future contribution to sea level rise by international collaboration | 2023 | ip | Norway, SCAR | 0.4029 |
| Emperor penguins - vulnerable to projected rates of warming and sea ice loss; an international collaboration to inform species-related conservation decision-making and conservation planning | 2019 | ip | United Kingdom, Australia, Finland, France, Germany, Norway, Monaco, SCAR, ASOC | 0.3987 |
| Antarctic Blue Carbon | 2022 | ip | United Kingdom | 0.3978 |
| The SCAR lecture – Marine life and change in the Southern Ocean | 2009 | ip | SCAR | 0.3976 |
| International Thwaites Glacier Collaboration: The Future of Thwaites Glacier and its Contribution to Sea-Level Rise | 2022 | ip | United States, United Kingdom | 0.3968 |
| Frontiers in Understanding Climate Change and Polar Ecosystems Workshop Report | 2011 | ip | United States | 0.3919 |
| WMO Climate-related Activities in the Antarctic Region | 2016 | ip | WMO | 0.3908 |
| Current Russian results of studies of climate variability at present and in the past | 2016 | ip | Russian Federation | 0.3900 |
| An action plan for the Brazilian Antarctic science over the next 10 years | 2014 | ip | Brazil | 0.3885 |
| Inter-relationships of global change programmes | 1999 | ip | SCAR | 0.3867 |
| Effects of climate change on Antarctic marine food webs: new evidence from squid | 2022 | ip | Portugal, United Kingdom | 0.3860 |
| SCAR updates on Antarctic Climate Change and the Environment | 2023 | wp | SCAR | 0.3849 |
| Consideration of climate change within the Antarctic Protected Areas System | 2022 | ip | United Kingdom | 0.3849 |
| Emperor penguin population variability in a region subject to climate warming | 2018 | ip | ASOC, United Kingdom | 0.3817 |
| Subglacial Antarctic Lake Environments (SALE) in the International Polar Year 2007-2008 | 2007 | ip | SCAR | 0.3752 |
| Black Carbon and other Short-lived Climate Pollutants: Impacts on Antarctica | 2013 | ip | ASOC | 0.3727 |
| Irreversible near-term consequences of Southern Ocean acidification with current CO2 emissions pathways | 2023 | ip | ASOC | 0.3673 |
| Antarctic Climate Change Issues | 2008 | wp | Norway, United Kingdom | 0.3663 |
| NASA Operation IceBridge: An airborne mission for Earth’s polar ice | 2019 | ip | United States | 0.3598 |
| Logistical Challenges due to Changing Environmental Conditions: Experiences from the Korean Antarctic Program 2022-23 | 2023 | ip | Korea (ROK) | 0.3583 |
| What does the United Nations Paris Climate Agreement mean for Antarctica? | 2017 | ip | SCAR | 0.3566 |
| The SCAR Global Change Programme | 1996 | ip | SCAR | 0.3525 |
| New Zealand Antarctic and Southern Ocean Science: Directions and Priorities 2010 - 2020 | 2014 | bp | New Zealand | 0.3511 |
| Brief Introduction of the Fourth Chinese National Arctic Expedition | 2011 | ip | China | 0.3492 |
| DML-RINGS and Enderby Land RINGS – opening extensive international collaboration to close critical data gaps for sea-level projections | 2023 | wp | Norway, Germany, Australia, Belgium, China, Finland, India, Japan, Sweden, United States, SCAR | 0.3478 |
| Ross Sea Region State of the Environment Report An Update on Progress | 1999 | ip | New Zealand | 0.3449 |
| Consideration of current climate changes in the Antarctic Treaty System | 2018 | wp | Russian Federation | 0.3403 |
| Breeding of seabirds insensitive to shifting ocean temperatures | 2021 | ip | Portugal, Canada, New Zealand, South Africa, United Kingdom | 0.3399 |
| Understanding Risk to National Antarctic Program Operations and Personnel in Coastal Antarctica from Tsunami Events | 2012 | wp | COMNAP, SCAR | 0.3391 |
| Science Supported by Antarctica New Zealand 2006/2007 | 2007 | ip | New Zealand | 0.3339 |
| Near-term Antarctic Impacts of Black Carbon and Short-lived Climate Pollutant Mitigation | 2014 | ip | ASOC | 0.3337 |
| National Institute of Science and Technology of the Cryosphere | 2014 | bp | Brazil | 0.3330 |
| Management implications of climate change in the Antarctic region – an initial Australian assessment | 2010 | ip | Australia | 0.3318 |
| Science supported by Antarctica New Zealand 2008/2009 | 2009 | ip | New Zealand | 0.3287 |
| ATCM-CEP Joint Session on Climate Change: Portugal´s research and policy activities on climate change | 2023 | ip | Portugal | 0.3285 |
| Mapping SCAR affiliated research to climate change related science needs identified by the CEP | 2022 | ip | SCAR | 0.3226 |
| Enacting the Climate Change Response Work Programme under a Changing Antarctic Environment | 2018 | ip | ASOC | 0.3207 |
| Permafrost and Climate Change in the Maritime Antarctic (PERMANTAR) - an Excellent Example for International Collaboration | 2008 | ip | Bulgaria, Spain | 0.3196 |
| Global Outlook for Ice and Snow | 2007 | ip | UNEP | 0.3196 |
| Projected distribution of Southern Ocean seabirds and fisheries due to climate change | 2019 | ip | Portugal, South Africa, Spain, United Kingdom | 0.3188 |
| Management Implications of a Changing Antarctica - COMNAP Workshop | 2012 | ip | COMNAP | 0.3179 |
| An Antarctic Climate Change Communication Plan | 2011 | ip | ASOC | 0.3175 |
| A Ross Sea MPA: Preservation for science | 2009 | ip | ASOC | 0.3174 |
| Australia’s new Antarctic icebreaker | 2016 | bp | Australia | 0.3129 |
| Operational Ice Information around Antarctica | 2014 | ip | Germany | 0.3120 |
| Climate change and the Antarctic environment: Management implications | 2009 | wp | United Kingdom | 0.3107 |
| Latitudinal network of multiparametric stations in Antarctica and Climate Change Observatory | 2021 | ip | Chile | 0.3078 |
| Supporting Images for Working Paper: Ross Sea Heritage Restoration Project: A model for conserving heritage values in Antarctic Specially Protected Areas | 2015 | ip | New Zealand | 0.3074 |
| ATCM interests in international climate change discussions – options for enhanced engagement | 2012 | wp | Australia | 0.3056 |
| Belgian scientific activities planned for 1992-93 | 1992 | ip | Belgium | 0.3024 |
| Report on global change and the Antarctic | 1995 | ip | SCAR | 0.2979 |
| Establishing a monitoring programme to assess changes in vegetation at two Antarctic Specially Protected Areas | 2012 | wp | New Zealand | 0.2974 |
| A pin-point example on the possible exploitation of Antarctic research programme's results in the framework of Environmental Impact Evaluations | 1994 | ip | Belgium, South Africa | 0.2955 |
| Antarctic stratigraphic drilling east of Cape Roberts in southwest Ross Sea, Antarctic: update of activities | 1997 | ip | New Zealand | 0.2930 |
| Southern Ocean Sentinel: an international program to assess climate change impacts on marine ecosystems | 2010 | ip | Australia | 0.2900 |
| Australia’s Antarctic Scientific Research Programme 2007/08 | 2008 | ip | Australia | 0.2884 |
| Annual Report of the World Meteorological Organization (WMO) | 2023 | ip | WMO | 0.2881 |
| Ross Sea Region State of Environment Report | 1998 | ip | New Zealand | 0.2880 |
| Fostering Coordinated Antarctic Climate Change Monitoring | 2014 | wp | United States, Norway, United Kingdom | 0.2872 |
| Methodology for evaluating vulnerability to climate change in environmental impact assessments | 2022 | ip | Argentina | 0.2865 |
| Japan's Antarctic Research Highlights 2022 - 23 | 2023 | ip | Japan | 0.2859 |
| Systematic Environmental Protection In Antarctica – refining and reviewing the “proof of concept” Environmental Domains of Antarctica classification for a systematic environmental geographic framework | 2006 | wp | New Zealand | 0.2857 |
| Improving Sea Ice Information in Antarctica | 2015 | ip | Germany | 0.2853 |
| The Polar Challenge: towards a new paradigm for long-term under-ice observations | 2016 | ip | WMO | 0.2824 |
| SCAR Science Lecture 2019: What Does the Paris Climate Agreement mean for Antarctic and Southern Ocean Environmental Protection? | 2019 | ip | SCAR | 0.2817 |
| Shared science priorities and cooperation: systematic observations and modelling in the Southern Ocean | 2015 | wp | United States, Australia | 0.2795 |
| Remote sensing of environmental changes on King George Island (South Shetland Islands): establishing a new monitoring program | 2014 | bp | Poland | 0.2776 |
| Scientific and Science-related Collaborations with Other Parties During 2009-2010 | 2010 | ip | Korea (ROK) | 0.2758 |
| Banning Hydrocarbon Extraction in Antarctica Now: Reducing the Risks and Impacts of Global Climate Change | 2022 | ip | ASOC | 0.2758 |
| Current situation of the impact of climate change on the Sweden Refuge on Snow Hill Island (HSM No. 38) | 2022 | ip | Argentina, Sweden | 0.2721 |
| Finland’s research activities in the Antarctic | 2023 | bp | Finland | 0.2708 |
| Sixty Years of Treaty-Supported Antarctic Science | 2019 | wp | SCAR | 0.2703 |
| An update on the Antarctic Polar View sea ice information service | 2014 | ip | United Kingdom | 0.2689 |
| Education and Outreach Activities of the World Climate Research Programme | 2022 | ip | WMO | 0.2684 |
| The Republic of Korea’s contribution to Antarctic science by installing a new permanent station in Terra Nova Bay, Ross Sea | 2010 | ip | Korea (ROK) | 0.2671 |