

Major (SCI) Papers on Polar Research

(Published during the Period of September 2014 to September 2015)

Earth Sciences

Number	Title	Journal	Year/Volume/ Page	Impact Factor	First Author	The First Author From
1	Ocean-driven thinning enhances iceberg calving and retreat of Antarctic ice shelves	Proceedings of the National Academy of Sciences of the United States of America	2015,112,(11) ,3263-3268	9.674	Liu, Yan	Beijing Normal University
2	Penguins significantly increased phosphine formation and phosphorus contribution in maritime Antarctic soils	Scientific Reports	2014,4,9	5.578	Zhu, Renbin	University of Science and Technology of China
3	An atmospheric origin of the multi-decadal bipolar seesaw	Scientific Reports	2015,5	5.578	Wang, Zhaomin	Nanjing University of Information Science and Technology
4	delta C-13-CH4 reveals CH4 variations over oceans from mid-latitudes to the Arctic	Scientific Reports	2015,5	5.578	Yu, Juan	University of Science and Technology of China
5	Extra-long interglacial in Northern Hemisphere during MISs 15-13 arising from limited extent of Arctic ice sheets in glacial MIS 14	Scientific Reports	2015,5	5.578	Hao, Qingzhen	Institute of Geology and Geophysics, Chinese Academy of Sciences
6	Fluorescent water-soluble organic aerosols in the HighArctic atmosphere	Scientific Reports	2015,5	5.578	Fu, Pingqing	Institute of Atmospheric Physics, Chinese Academy of Sciences
7	Occurrence of chiral organochlorine compounds in the environmental matrices from King George Island and Ardley Island, west Antarctica	Scientific Reports	2015,5	5.578	Wang, Pu	Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences
8	Occurrence, distribution and ecological risk assessment of multiple classes of UV filters in surface waters from different countries	Water Research	2014,67,55-65	5.528	Tsui, Mirabelle M. P.	City University of Hong Kong

9	Numerical simulations and observations of the role of katabatic winds in the creation and maintenance of Scharffenbergbotnen blue ice area, Antarctica	Cryosphere	2015,9,(4),14 15-1426	5.516	Zwinger, T.	Beijing Normal University
10	Global Inventory, Long-Range Transport and Environmental Distribution of Dicofol	Environmental Science & Technology	2015,49,(1),2 12-222	5.33	Li, Li	Peking University
11	Iodine-129 in Snow and Seawater in the Antarctic: Level and Source	Environmental Science & Technology	2015,49,(11), 6691-6700	5.33	Xing, Shan	Institute of Earth Environment, Chinese Academy of Sciences
12	Investigation of post-depositional processing of nitrate in East Antarctic snow: isotopic constraints on photolytic loss, re-oxidation, and source inputs	Atmospheric Chemistry and Physics	2015,15,(16), 9435-9453	5.053	Shi, G.	Polar Research Institute of China
13	Prediction of gas/particle partitioning of polybrominateddiphenyl ethers (PBDEs) in global air: A theoretical study	Atmospheric Chemistry and Physics	2015,15,(4),1 669-1681	5.053	Li, Y. F.	Harbin Institute of Technology
14	Step changes in persistent organic pollutants over theArctic and their implications	Atmospheric Chemistry and Physics	2015,15,(6),3 479-3495	5.053	Zhao, Y.	Lanzhou University
15	Solar forcing of Holocene summer sea-surface temperatures in the northern North Atlantic	Geology	2015,43,,(3),2 03-206	4.884	Jiang, Hui	East China Normal University
16	Spatial distribution of O-17-excess in surface snow along a traverse from Zhongshan station to Dome A, East Antarctica	Earth and Planetary Science Letters	2015,414,126 -133	4.734	Pang, Hongxi	Nanjing University
17	Transport and reaction of iron and iron stable isotopes in glacial meltwaters on Svalbard near Kongsfjorden: From rivers to estuary to ocean	Earth and Planetary Science Letters	2015,424,201 -211	4.734	Zhang, Ruifeng	East China Normal University

18	Multifractal detrended fluctuation analysis of the delta (18) O record of NGRIP ice core	Climate Dynamics	2014,43,(7-8),2105-2109	4.673	Shao, Zhigang	South China Normal University
19	An interdecadal change in the influence of the spring Arctic Oscillation on the subsequent ENSO around the early 1970s	Climate Dynamics	2015,44,3-4	4.673	Chen, Shangfeng	Institute of Atmospheric Physics, Chinese Academy of Sciences
20	Vertical structure, physical properties, and energy exchange of the East Asian trough in boreal winter	Climate Dynamics	2015,45,(5-6),1635-1656	4.673	Leung, Marco Yu-Ting	City University of Hong Kong
21	Modulation of Aleutian Low and Antarctic Oscillation co-variability by ENSO	Climate Dynamics	2015,44,(5-6),1245-1256	4.673	Li, Fei	Institute of Atmospheric Physics, Chinese Academy of Sciences
22	The influence of meltwater on the Labrador Current in Heinrich event 1 and the Younger Dryas	Quaternary Science Reviews	2015,107,129-137	4.572	Li, Gang	South China Sea Institute of Oceanology, Chinese Academy of Sciences
23	On the Long-Term Climate Memory in the Surface Air Temperature Records over Antarctica: A Nonnegligible Factor for Trend Evaluation	Journal of Climate	2015,28,(15),5922-5934	4.453	Yuan, Naiming	Chinese Academy of Meteorological Sciences
24	Extratropical Ocean Warming and Winter Arctic Sea Ice Cover since the 1990s	Journal of Climate	2015,28,(14),5510-5522	4.435	Li, Fei	Institute of Atmospheric Physics, Chinese Academy of Sciences
25	The North China/Northeastern Asia Severe Summer Drought in 2014	Journal of Climate	2015,28,(17),6667-6681	4.435	Wang, Huijun	Institute of Atmospheric Physics, Chinese Academy of Sciences
26	Patterns of Asian Winter Climate Variability and Links to Arctic Sea Ice	Journal of Climate	2015,28,(17),6841-6858	4.435	Wu, Bingyi	Chinese Academy of Meteorological Sciences
27	Assessment of Sea Ice Albedo Radiative Forcing and Feedback over the Northern Hemisphere from 1982 to 2009 Using Satellite and Reanalysis Data	Journal of Climate	2015,28,(3),1248-1259	4.435	Cao, Yunfeng	Beijing Normal University
28	Response of sea surface	Geophysical Research	2015,42,(10),	4.196	Xue, Liang	The First Institute of

	fugacity of CO2 to the SAM shift south of Tasmania: Regional differences	Letters	3973-3979			Oceanography, State Oceanic Administration
29	Effects of Arctic haze on surface cloud radiative forcing	Geophysical Research Letters	2015,42,(2),557-564	4.196	Zhao, Chuanfeng	Beijing Normal University
30	Early Neoproterozoic granulite facies metamorphism of mafic dykes from the Vestfold Block, east Antarctica	Journal of Metamorphic Geology	2014,32,9	4.147	Liu, X. C.	Institute of Geomechanics, Chinese Academy of Geological Sciences
31	Comparative study on PCDD/F pollution in soil from the Antarctic, Arctic and Tibetan Plateau	Science of the Total Environment	2014,497, 353-359	4.099	Jia, Shenglan	Peking University
32	PERIODIC ANALYSIS OF SOLAR ACTIVITY AND ITS LINK WITH THE ARCTIC OSCILLATION PHENOMENON	Astronomical Journal	2014,148,(6), 11	4.024	Qu, Weizheng	Ocean University of China
33	Multi-molecular tracers of terrestrial carbon transfer across the pan-Arctic: comparison of hydrolyzable components with plant wax lipids and lignin phenols	Biogeosciences	2015,12,(15), 4841-4860	3.978	Feng, X.	Institute of Botany, Chinese Academy of Sciences
34	Metals and metalloids in precipitation collected during CHINARE campaign from Shanghai, China, to Zhongshan Station, Antarctica: Spatial variability and source identification	Global Biogeochemical Cycles	2015,29,(6),760-774	3.965	Shi, G.	Polar Research Institute of China
35	Immersion freezing by natural dust based on a soccer ball model with the Community Atmospheric Model version 5: climate effects	Environmental Research Letters	2014,9,(12),7	3.906	Wang, Yong	Institute of Atmospheric Physics, Chinese Academy of Sciences
36	Spring-summer albedo variations of Antarctic sea ice from 1982 to 2009	Environmental Research Letters	2015,10,(6)	3.906	Shao, Zhude	Nanjing University
37	Asymmetric influence of boreal spring Arctic Oscillation on subsequent ENSO	Journal of Geophysical Research-Atmospheres	2014,119,(19), 11135-11150	3.426	Chen, Shangfeng	Institute of Atmospheric Physics, Chinese Academy of Sciences
38	Impact of geolocations of	Journal of Geophysical	2015,120,(14)	3.426	Ma, Qian	Beijing Normal

	validation data on the evaluation of surface incident shortwave radiation from Earth System Models	Research-Atmospheres	,6825-6844			University
39	Assimilating SMOS sea ice thickness into a coupled ice-ocean model using a local SEIK filter	Journal of Geophysical Research-Oceans	2014,119,(10),6680-6692	3.426	Yang, Qinghua	National Marine Environmental Forecasting Center
40	A vertical gradient of nitrous oxide below the subsurface of the Canada Basin and its formation mechanisms	Journal of Geophysical Research-Oceans	2015,120,(3),2401-2411	3.426	Zhan, Liyang	The Third Institute of Oceanography, State Oceanic Administration
41	Persistent organic pollutants in ocean sediments from the North Pacific to the Arctic Ocean	Journal of Geophysical Research-Oceans	2015,120,(4),2723-2735	3.426	Ma, Yuxin	Shanghai Ocean University
42	S-velocity model and inferred Moho topography beneath the Antarctic Plate from Rayleigh waves	Journal of Geophysical Research-Solid Earth	2015,120,(1),359-383	3.426	An, Meijian	Chinese Academy of Geological Sciences
43	Polychlorinated biphenyls (PCBs) and polybrominated biphenyl ethers (PBDEs) in environmental samples from Ny-Alesund and London Island, Svalbard, the Arctic	Chemosphere	2015,126,40-46	3.34	Zhu, Chaofei	Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences
44	The spatial distribution of organochlorine pesticides and halogenated flame retardants in the surface sediments of an Arctic fjord: The influence of ocean currents vs. glacial runoff	Chemosphere	2015,119,953-960	3.34	Ma, Yuxin	Polar Research Institute of China
45	Summertime CO2 fluxes and ecosystem respiration from marine animal colony tundra in maritime Antarctica	Atmospheric Environment	2014,98,190-201	3.281	Zhu, Renbin	Institute of Soil Science, Chinese Academy of Sciences
46	The role of atmospheric uncertainty in Arctic summer sea ice data assimilation and prediction	Quarterly Journal of the Royal Meteorological Society	2015,141,(691),2314-2323	3.252	Yang, Qinghua	National Marine Environmental Forecasting Center
47	Autumn Eurasian snow depth, autumn Arctic sea ice cover and East Asian winter	International Journal of Climatology	2014,34,(13),3616-3625	3.157	Li, Fei	Institute of Atmospheric Physics, Chinese Academy of

	monsoon					Sciences
48	Summer droughts in the northern Yellow River basin in association with recent Arctic ice loss	International Journal of Climatology	2015,35,(10), 2849-2859	3.157	Zhang, Jie	Nanjing University of Information Science and Technology
49	Bacterial Communities in Marine Aerosols Revealed by 454 Pyrosequencing of the 16S rRNA Gene	Journal of the Atmospheric Sciences	2015,72,(8),2 997-3008	3.143	Xia, Xiaomin	Hong Kong University of Science and Technology
50	ANCIENT SILICIFICATION ON ASTEROID 4 VESTA: EVIDENCE FROM A EUCRITE GROVE MOUNTAINS (GRV)13001 FROM ANTARCTIC	Meteoritics&Planetary Science	2015,50,SI,1	3.104	Chen, H.	Guilin University of Technology
51	PARTIAL TRANSFORMED HIGH PRESSURE PHASES IN SHOCKED-INDUCED MELT VEIN OF ANTARCTICGRV METEORITES	Meteoritics& Planetary Science	2015,50,SI,1	3.104	Xie, Zhidong	Nanjing University
52	Distribution and transfer pattern of Polychlorinated Biphenyls (PCBs) among the selected environmental media of Ny-Alesund, the Arctic: As a case study	Marine Pollution Bulletin	2014,89,(1),2 67-275	2.991	Zhang, Peng	National Marine Environmental Monitoring Center
53	Distribution and transfer pattern of Polychlorinated Biphenyls (PCBs) among the selected environmental media of Ny-Alesund, the Arctic: As a case study	Marine Pollution Bulletin	2014,89,(1-2) ,267-275	2.991	Zhang, Peng	National Marine Environmental Monitoring Center
54	Spatiotemporal variations of monocarboxylic acids in snow layers along a transect from Zhongshan Station to Dome A, eastern Antarctica	Atmospheric Research	2015,158,79- 87	2.844	Li, Chuanjin	Cold and Arid Regions Environmental and Engineering Research Institute, Chinese Academy of Sciences
55	Total mercury and methylmercury distributions in surface sediments from Kongsfjorden, Svalbard,	Environmental Science and Pollution Research	2015,22,(11), 8603-8610	2.828	Liu, Yang	Tongji University

	Norwegian Arctic					
56	Effect of natural organic matter on the adsorption and fractionation of thorium and protactinium on nanoparticles in seawater	Marine Chemistry	2015,173,291-301	2.735	Lin, Peng	Xiamen University
57	Effect of natural organic matter on the adsorption and fractionation of thorium and protactinium on nanoparticles in seawater	Marine Chemistry	2015,173,291-301	2.735	Lin, Peng	Xiamen University
58	A bibliometric analysis of research on Antarctica during 1993-2012	Scientometrics	2014,101,(3), 1925-1939	2.183	Ji, Qing	Chinese Antarctic Center of Surveying and Mapping
59	Spatial and temporal variations of total mercury in Antarctic snow along the transect from Zhongshan Station to Dome A	Tellus Series B-Chemical and Physical Meteorology	2014,66	2.147	Li, Chuanjin	Cold and Arid Regions Environmental and Engineering Research Institute, Chinese Academy of Sciences
60	Temporal variations in marine chemical concentrations in coastal areas of eastern Antarctica and associated climatic causes	Quaternary International	2014,352,16-25	2.062	Li, Chuanjin	Cold and Arid Regions Environmental and Engineering Research Institute, Chinese Academy of Sciences
61	Variations in stable hydrogen and oxygen isotopes in atmospheric water vapor in the marine boundary layer across a wide latitude range	Journal of Environmental Sciences-China	2014,26,(11), 2266-2276	2.002	Liu, Jingfeng	Cold and Arid Regions Environmental and Engineering Research Institute, Chinese Academy of Sciences
62	Distribution characteristics and indicator significance of Dechloranes in multi-matrices at Ny-Alesund in the Arctic	Journal of Environmental Sciences-China	2015,28,8-13	2.002	Na, Guangshui	National Marine Environmental Monitoring Center
63	A Parallel Computational Model for Three-Dimensional, Thermo-Mechanical Stokes Flow Simulations of Glaciers and Ice Sheets	Communications in Computational Physics	2014,16,(4),1 056-1080	1.943	Leng, Wei	The State Key Laboratory of Scientific and Engineering Computing, Chinese

						Academy of Sciences
64	Finite element three-dimensional Stokes ice sheet dynamics model with enhanced local mass conservation	Communications in Computational Physics	2014,274,299-311	1.943	Leng, Wei	The State Key Laboratory of Scientific and Engineering Computing, Chinese Academy of Sciences
65	A Multi-Interface Ice and Snow Remote Monitoring Platform in the Polar Region	IEEE Sensors Journal	2014,14,(11), 3738-3744	1.762	Li, Xiuhong	Beijing Normal University

Tellus Series

66	The Arctic and Polar cells act on the Arctic sea ice variation	A-Dynamic Meteorology and Oceanography	2015,67,1-18	1.756	Qian, Weihong	Peking University
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	Grove Mountain area, Eastern Antarctica					Engineering Research Institute, Chinese Academy of Sciences
74	Phytoplankton and chlorophyll a relationships with ENSO in Prydz Bay, East Antarctica	Science China-Earth Sciences	2014,57,(12), 3073-3083	1.491	Zhang, HaiSheng	The Second Institute of Oceanography, State Oceanic Administration
75	Arctic Sea Ice and Eurasian Climate: A Review	Advances in Atmospheric Sciences	2015,32,(1),9 2-114	1.479	Gao, Yongqi	Institute of Atmospheric Physics, Chinese Academy of Sciences
76	On the Weakened Relationship between Spring Arctic Oscillation and Following Summer Tropical Cyclone Frequency over the Western North Pacific: A Comparison between 1968-1986 and 1989-2007	Advances in Atmospheric Sciences	2015,32,(10)1 319-1328	1.479	Cao, Xi	Institute of Atmospheric Physics, Chinese Academy of Sciences
77	Mineralogy, petrology and evolution history of Lunar meteorite MIL05035 from Antarctica	Acta Petrologica Sinica	2015,31,(4),1 171-1182	1.455	Chen, Hongyi	Guilin University of Technology
78	Mechanism of an Abrupt Decrease in Sea-Ice Cover in the Pacific Sector of the Arctic during the Late 1980s	Atmosphere-Ocean	2014,52,(5),1 3	1.398	Wei, Jianfen	Ocean University of China
79	Extrusion of Antarctic krill (<i>Euphausia superba</i>) meal and its effect on oil extraction	international Journal of Food Science and Technology	2015,50,(3),6 33-639	1.384	Yin, Fawen	Dalian Polytechnic University
80	Characteristics of the seasonal variation of the global tropopause revealed by COSMIC/GPS data	Advances in Space Research	2014,54,(11), 2274-2285	1.358	Liu, Yan	Numerical Weather Prediction Center of CMA
81	Simultaneous ground-based optical and SuperDARN observations of the shock aurora at MLT noon	Earth Planets and Space	2015,67	1.328	Liu, Jianjun	Polar Research Institute of China
82	On the Conversion of Antarctic Ice-Mass Change to Sea Level Equivalent	Marine Geodesy	2015,38,(1),8 8-97	1.306	Tian, Yixiang	Tongji University
83	Photosynthetic performance in Antarctic lichens with	Polish Polar Research	2015,36,(2),1 75-188	1.275	Cao, Shu'nan	Polar Research Institute of China

	different growth forms reflect the diversity of lichenized algal adaptation to microhabitats					
84	Representation of global precipitation anomalies using four major climate patterns	Science China-Technological Sciences	2015,58,(5),927-934	1.192	Chen, Ji	The University of Hong Kong
85	Spatial Distribution of Methanesulphonic Acid in the Arctic Aerosol Collected during the Chinese Arctic Research Expedition	Atmosphere	2015,6,(5),699-712	1.132	Ye, Peipei	University of Science and Technology of China
86	Comparison and analysis of subglacial bedrock core drilling technology in Polar Regions	Polar Science	2015,9,(2),208-220	0.952	Wang, Jinsong	Jilin University
87	Impact of Stratospheric Sudden Warming on East Asian Winter Monsoons	Advances in Meteorology	2015	0.946	Chen, Quanliang	Chengdu University of Information Technology
88	Determination of Fluoride Concentration in Antarctic Krill (<i>Euphausia superba</i>) using Dielectric Spectroscopy	Bulletin of the Korean Chemical Society	2015,36,(6),1557-1562	0.797	Lu, Jianfeng	Shanghai Ocean University
89	An Arctic sea ice thickness variability revealed from satellite altimetric measurements	Acta Oceanologica Sinica	2014,33,(11),134-140	0.747	Bi, Haibo	Key Laboratory of Marine Geology and Environment, Chinese Academy of Sciences

	PCBs from the North Pacific to the Arctic Ocean					
94	Carbon and nitrogen isotopic composition of particulate organic matter and its biogeochemical implication in the Bering Sea	ActaOceanologicaSinica	2014,33,(12),40-47	0.747	Lin, Feng	Xiamen University
95	The Beaufort Gyre variation and its impacts on the Canada Basin in 2003-2012	ActaOceanologicaSinica	2015,34,(7),19-31	0.747	Zhong, Wenli	Ocean University of China
96	Comparing the steric height in the Nordic Seas with satellite altimeter sea surface height	ActaOceanologicaSinica	2015,34,(7),32-37	0.747	Shao, Qiuli	Ocean University of China
97	A study of multiyear ice concentration retrieval algorithms using AMSR-E data	ActaOceanologicaSinica	2015,34,(9),,102-109	0.747	Hao, Guanghua	Ocean University of China
98	Causes for different spatial distributions of minimum Arctic sea-ice extent in 2007 and 2012	ActaOceanologicaSinica	2015,34,(9),94-101	0.747	Cui, Hongyan	Ocean University of China
99	The uniaxial compressive strength of the Arctic summer sea ice	ActaOceanologicaSinica	2015,34,(1),129-136	0.747	Han, Hongwei	Dalian Polytechnic University
100	An analytical validation for the attenuation of lateral propagating light in sea ice	ActaOceanologicaSinica	2015,34,(3),1-8	0.747	Zhao, Jinping	Ocean University of China
101	Deep waters warming in the Nordic seas from 1972 to 2013	ActaOceanologicaSinica	2015,34,(3),18-24	0.747	Wang, Xiaoyu	Ocean University of China
102	An assessment of arctic sea ice concentration retrieval based on "HY-2" scanning radiometer data using field observations during CHINARE-2012 and other satellite instruments	ActaOceanologicaSinica	2015,34,(3),42-50	0.747	Shi, Lijiang	National Satellite Ocean Application Service
103	Ice rafting history and paleoceanographic reconstructions of Core 08P23 from southern Chukchi Plateau, western Arctic Ocean since Marine Isotope Stage 3	ActaOceanologicaSinica	2015,34,(3),68-75	0.747	Zhang, Taoliang	Tongji University
104	Deep water distribution and	ActaOceanologicaSinica	2015,34,(3),9	0.747	He, Yan	Ocean University of

	transport in the Nordic seas from climatological hydrological data	ca	-17			China
105	Regional characteristics of sea ice thickness in Canadian shelf and Arctic Archipelago measured by Ground Penetrating Radar	ActaOceanologicaSinica	2015,34,(5),10-116	0.747	Li, Tao	Ocean University of China
106	Observed features of temperature, salinity and current in central Chukchi Sea during the summer of 2012	ActaOceanologicaSinica	2015,34,(5),51-59	0.747	He, Yan	The First Institute of Oceanography, State Oceanic Administration
107	Zooplankton diel vertical migration and influence of upwelling on the biomass in the Chukchi Sea during summer	ActaOceanologicaSinica	2015,34,(5),68-74	0.747	Wang, Huiwu	The First Institute of Oceanography, State Oceanic Administration
108	Estimation of annual variation of water vapor in the Arctic Ocean between 80A degrees-87A degrees N using shipborne GPS data based on kinematic precise point positioning	ActaOceanologicaSinica	2015,34,(6),1-4	0.747	Luo, Xiaowen	The Second Institute of Oceanography, State Oceanic Administration
109	The level and bioaccumulation of Cd, Cu, Cr and Zn in benthopelagic species from the Bering Sea	ActaOceanologicaSinica	2015,34,(6),21-25	0.747	Shi, Ronggui	Xiamen University
110	Insights into the coupling of upper ocean-benthic carbon dynamics in the western Arctic Ocean from an isotopic (C-13, Th-234) perspective	ActaOceanologicaSinica	2015,34,(6),26-33	0.747	Zhang, Run	Xiamen University
111	Mantle melting factors and amagmatic crustal accretion of the Gakkell ridge, Arctic Ocean	ActaOceanologicaSinica	2015,34,(6),42-48	0.747	Zhang, Tao	State Oceanic Administration of China
112	Ice sheet mass balance in Antarctica measured by GRACE and its uncertainty	Chinese Journal of Geophysics-Chinese Edition	2015,58,(3),780-792	0.703	Gao, Chunchun	Institute of Geodesy and Geophysics, Chinese Academy of Sciences
113	Decadal/interannual linking between autumn Arctic sea	Chinese Journal of Geophysics-Chinese	2015,58,(4),1089-1102	0.703	He, Jinhai	Nanjing University of Information Science

	ice and following winter Eurasian air temperature	Edition				and Technology
114	Removing correlative errors in GRACE data by the smoothness priors method	Chinese Journal of Geophysics-Chinese Edition	2015,58,(4),1135-1144	0.703	Zhan, Jingang	Institute of Geodesy and Geophysics, Chinese Academy of Sciences
115	The distribution characteristics of total ozone and its relationship with stratospheric temperature during boreal winter in the recent 30 years	Chinese Journal of Geophysics-Chinese Edition	2015,58,(5),1475-1491	0.703	Li, Gang	PLA University of Science and Technology
116	Determination of Fluoride in Antarctic Krill (<i>Euphausiasuperba</i>) Using Ion Chromatography and its Pretreatments Selection	Czech Journal of Food Sciences	2015,33,(1),77-82	0.675	Zhao, Yanling	Chinese Academy of Fishery sciences
117	Ca-, Al-Rich Inclusions in Two New Carbonaceous Chondrites from Grove Mountains, Antarctica	Earth Moon and Planets	2015,115,(1-4),101-114	0.667	Dai, D.	Hunan University of Science and Technology
118	Particulate organic carbon export fluxes on Chukchi Shelf, western Arctic Ocean, derived from Po-210/Pb-210 disequilibrium	Chinese Journal of Geophysics-Chinese Edition	2015,33,(3),741-747	0.657	He, Jianhua	The Third Institute of Oceanography, State Oceanic Administration
119	Dispute over the Applicable Scope of the Svalbard Treaty: A Chinese Lawyer's Perspective	Journal of East Asia and international Law	2015,8,(1),149-170	0.087	Qin, Tianbao	Wuhan University
120	Progress in studies of cryospheric changes and their impacts on climate of china	Journal of Meteorological Research	2014,28,(5),732-746		Qin, Dahe	State Key Laboratory of Cryospheric Sciences
121	Some advances in studies of the climatic impacts of the Southern Hemisphere annular mode	Journal of Meteorological Research	2014,28,(5),820-835		Zheng, Fei	Institute of Atmospheric Physics, Chinese Academy of Sciences
122	A freeze-on ice zone along the Zhongshan-Kunlun ice sheet profile, East Antarctica, by a new ground-based ice-penetrating radar	Science Bulletin	2015,60,(5),574-576		Tang, Xueyuan	Polar Research Institute of China

Biology and Ecology

Number	Title	Journal	Year/Volume /Page	Impact Factor	First Author	The First Author From
1	An association analysis between psychophysical characteristics and genome-wide gene expression changes in human adaptation to the extreme climate at the Antarctic Dome Argus	Molecular Psychiatry	2015,20,(4),536-544	14.496	Xu, C.	Chinese Academy of Medical Sciences
2	Evidence for a weakening relationship between interannual temperature variability and northern vegetation activity	Nature Communications	2014,5, 7	11.47	Piao, Shilong	Institute of Tibetan Plateau Research, Chinese Academy of Sciences
3	Filamentous phages prevalent in <i>Pseudoalteromonas</i> spp. confer properties advantageous to host survival in Arcticsea ice	Isme Journal	2015,9,(4),871-881	9.302	Yu, Zichao	Shandong University
4	Evolutionary suppression of erythropoiesis via the modulation of TGF-beta signalling in an Antarctic icefish	Molecular Ecology	2015,24,(18),4664-4678	6.494	Xu, Qianghua	Shanghai Ocean University
5	Methane-derived carbon flow through microbial communities in arctic lake sediments	Environmental Microbiology	2015,17,(9),3233-3250	6.201	He, Ruo	Zhejiang University
6	Bacterioplankton community shifts associated with epipelagic and mesopelagic waters in the Southern Ocean	Scientific Reports	2015,5	5.578	Yu, Zheng	Institute of Urban Environment, Chinese Academy of Sciences
7	Do Arctic breeding geese track or overtake a green wave during spring migration?	Scientific Reports	2015,5	5.578	Si, Yali	Tsinghua University
8	From warm to cold: migration of Adelie penguins within Cape Bird, Ross Island	Scientific Reports	2015,5	5.578	Nie, Yaguang	University of Science and Technology of China
9	Exopolysaccharide of Antarctic bacterium <i>Pseudoaltermonas</i> S-5 induces apoptosis in K562 cells	Carbohydrate Polymers	2015,121,107-114	4.074	Chen, Guochuan	Wannan Medical College

10	Distribution of PAHs and the PAH-degrading bacteria in the deep-sea sediments of the high-latitude Arctic Ocean	Biogeosciences	2015,12,(7),2163-2177	3.978	Dong, C.	The Third Institute of Oceanography, State Oceanic Administration
11	Multi-scale variability analysis reveals the importance of spatial distance in shaping Arctic soil microbial functional communities	Soil Biology & Biochemistry	2015,86,126-134	3.932	Shi, Yu	Institute of Soil Science, Chinese Academy of Sciences
12	Three new indolyldiketopiperazine metabolites from the antarctic soil-derived fungus <i>Penicillium</i> sp. SCSIO 05705	Rsc Advances	2015,5,(84),68736-68742	3.84	Wang, Junfeng	South China Sea Institute of Oceanology, Chinese Academy of Sciences
13	Chrodrimanins I and J from the Antarctic Moss-Derived Fungus <i>Penicillium funiculosum</i> GWT2-24	Journal of Natural Products	2015,78,(6),1442-1445	3.798	Zhou, Haibo	Ocean University of China
14	Cyclobutane pyrimidine dimers photolyase from extremophilic microalga: Remarkable UVB resistance and efficient DNA damage repair	Mutation Research-Fundamental and Molecular Mechanisms of Mutagenesis	2015,773,37-42	3.68	Li, Chongjie	The First Institute of Oceanography, State Oceanic Administration
15	Vegetation-Associated Impacts on Arctic Tundra Bacterial and Microeukaryotic Communities	Applied and Environmental Microbiology	2015,81,(2),492-501	3.668	Shi, Yu	Institute of Soil Science, Chinese Academy of Sciences
16	Endophytic Fungal Communities Associated with Vascular Plants in the High Arctic Zone Are Highly Diverse and Host-Plant Specific	Plos One	2015,10,(6)	3.234	Zhang, Tao	Institute of Microbiology, Chinese Academy of Sciences
17	Distributions and Biomass of Benthic Ciliates, Foraminifera and Amoeboid Protists in Marine, Brackish, and Freshwater Sediments	Journal of Eukaryotic Microbiology	2014,61,(5),493-508	3.217	Lei, Yanli	Institute of Oceanology, Chinese Academy of Sciences
18	Spatial patterns in pelagic ciliate community responses to various habitats in the Amundsen Sea (Antarctica)	Progress in Oceanography	2014,128,49-59	3.025	Jiang, Yong	Ocean University of China

19	Preparation and anti-osteoporotic activities in vivo of phosphorylated peptides from Antarctic krill (<i>Euphausiasuperba</i>)	Peptides	2015,68,239-245	2.618	Wang, Yanchao	Ocean University of China
20	Adaptation involved in nitrogen metabolism in sea ice alga <i>Chlamydomonassp ICE-L</i> to Antarctic extreme environments	Journal of Applied Phycology	2015,27,(2),787-796	2.559	Wang, Dong S.	Qingdao Agricultural University
21	<i>Terrimonasarcticaspnov.</i> , isolated from Arctic tundra soil	International Journal of Systematic and Evolutionary Microbiology	2014,64,(Pt 11) , 3798-3803	2.511	Jiang, Fan	Wuhan University
22	<i>Deinococcusantarcticusspnov.</i> , isolated from soil	International Journal of Systematic and Evolutionary Microbiology	2015,65,(Pt 2),331-335	2.511	Dong, Ning	Polar Research Institute of China
23	<i>Roseovariusantarcticusspnov.</i> , isolated from a decayed whale bone	International Journal of Systematic and Evolutionary Microbiology	2015,65,2326-2333	2.511	Deng, Sangsang	Wuhan University
24	<i>Parablastomonasarctica gen. nov.</i> , <i>spnov.</i> , isolated from high Arctic glacial till	international Journal of Systematic and Evolutionary Microbiology	2015,65,260-266	2.511	Ren, Lvzhi	Wuhan University
25	Optimization and evaluation of a novel technique for hydrolyzing Antarctic krill (<i>Euphausiasuperba</i>) proteins	Food and Bioproducts Processing	2015,94,629-636	2.474	Wang, Lingzhao	Huaihai Institute of Technology
26	Transcriptome-wide analysis of DEAD-box RNA helicase gene family in an Antarctic psychrophilic alga <i>Chlamydomonassp ICE-L</i>	Extremophiles	2015,19,(5),921-931	2.306	Liu, Chenlin	The First Institute of Oceanography, State Oceanic Administration
27	Diversity of bacterioplankton in the surface seawaters of Drake Passage near the Chinese Antarctic station	Fems Microbiology Letters	2015,362,(14)	2.121	Xing, Mengxin	Chinese Academy of Fishery sciences
28	Species diversity of myxomycetes associated with different terrestrial ecosystems, substrata (microhabitats) and	Mycological Progress	2015,14,(5)	1.913	Liu, Qisha	Nanjing Normal University

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29	Purification and characterization of a novel cold-adapted phytase from <i>Rhodotorulamucilaginos</i> a strain JMUY14 isolated from Antarctic	Journal of Basic Microbiology	2015,55,(8),1029-1039	1.823	Yu, Peng	Jimei University
30	<i>Colwelliaarcticasp</i> nov., isolated from Arctic marine sediment	Antonie Van Leeuwenhoek international Journal of General and Molecular Microbiology	2015,107,(3),723-729	1.806	Wang, Fengqing	Shandong University
31	Complete genome of <i>Bacillus</i> sp Pc3 isolated from the Antarctic seawater with antimicrobial activity	Marine Genomics	2015,20,1-2	1.792	Guo, Wenbin	The Third Institute of Oceanography, State Oceanic Administration
32	Draft genome of <i>Bacillus</i> sp A053 isolated from the Arctic seawater with antimicrobial activity	Marine Genomics	2015,22,19-21	1.792	Guo, Wenbin	The Third Institute of Oceanography, State Oceanic Administration
33	Screening of Microorganisms from Deep-Sea Mud for Antarctic Krill (<i>Euphausiasuperba</i>) Fermentation and Evaluation of the Bioactive Compounds	Applied Biochemistry and Biotechnology	2015,175,(3),1664-1667	1.735	Sun, Jianan	Ocean University of China
34	A Novel Receptor-like Kinase (PnRLK-1) from the Antarctic Moss <i>Pohlianutans</i> Enhances Salt and Oxidative Stress Tolerance	Plant Molecular Biology Reporter	2015,33,(4),1156-1170	1.656	Zhang, Pengying	Shandong University
35	Ciliate Diversity, Community Structure, and Novel Taxa in Lakes of the McMurdo Dry Valleys, Antarctica	Biological Bulletin	2014,227,(2),175-190	1.638	Xu, Yuan	Ocean University of China
36	Biogeochemical responses to nutrient, moisture and temperature manipulations of soil from Signy Island, South Orkney Islands in the Maritime Antarctic	Antarctic Science	2014,26,(5),513-520	1.606	Sun Benhua	Northwest University of Agriculture and Forestry
37	Dominance of picophytoplankton in the newly	Polar Biology	2015,38,(7),1081-1089	1.586	Zhang, Fang	Polar Research Institute of China

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38	A new haloacid dehalogenase from the Arctic psychrotrophic <i>Pseudoalteromonas</i> BSW20308	Polar Biology	2015,38,(8),161-1169	1.586	Liao, Li	Polar Research Institute of China
39	Paleodietary changes by penguins and seals in association with Antarctic climate and sea ice extent	Chinese Science Bulletin	2014,59,(33),4456-4464	1.579	Huang, Tao	University of Science and Technology of China
40	Identification and characterization of aldehyde dehydrogenase 9 from <i>Lampetra japonica</i> and its protective role against cytotoxicity	Comparative Biochemistry and Physiology B-Biochemistry & Molecular Biology	2015,187,102-109	1.551	Zhao, Chunhui	Liaoning Normal University
41	Immobilization of Cold-Active Cellulase from Antarctic Bacterium and Its Use for Kelp Cellulose Ethanol Fermentation	Bioresources	2015,10,(1),1757-1772	1.425	Wang, Yibin	The First Institute of Oceanography, State Oceanic Administration
42	High-Performance Thin-Layer Chromatography for Quantification of 1-Octacosanol in Antarctic Krill (<i>Euphausia superba</i> Dana)	Journal of Chromatographic Science	2015,53,(5),811-815	1.363	Gao, Wenfang	Shandong Normal University
43	Medical Care Experiences of the 30th Chinese Antarctic Research Expedition: A Retrospective Study	Chinese Medical Journal	2015,128,(3),398-400	1.053	Lou, Zheng	The Second Military Medical University
44	Chlorinated phenolic sesquiterpenoids from the Arctic fungus <i>Nectria</i> B-13	Biochemical Systematics and Ecology	2015,59,22-25	0.967	Liu, Xiaoyu	The Second Military Medical University
45	Purification and Characterization of Cold Adapted Trypsins from Antarctic krill (<i>Euphausia superba</i>)	International Journal of Peptide Research and Therapeutics	2014,20,(4),531-543	0.905	Wu, Zhiqiang	Ocean University of China
46	Two new free-living nematode species of <i>Setosabatieria</i> (Comesomatidea) from the East China Sea and the Chukchi Sea	Journal of Natural History	2015,49,(33-34),201-203	0.881	Guo, Y. Q.	Jimei University

47	Leptin and leptin receptor gene polymorphisms are correlated with production performance in the Arctic fox	Genetics and Molecular Research	2015,14,(2),5560-5570	0.775	Zhang, M.	Liaoning Medical University
48	Bacterial and archaeal community structures in the Arctic deep-sea sediment	Acta Oceanologica Sinica	2015,34,(2),93-113	0.747	Li, Yan	Institute of Oceanology, Chinese Academy of Sciences
49	Expression and enzymatic characterization of a cold-adapted beta-agarase from Antarctic bacterium <i>Pseudoalteromonas</i> NJ21	Chinese Journal of Oceanology and Limnology	2015,33,(2),319-327	0.657	Li, Jiang	The First Institute of Oceanography, State Oceanic Administration
50	Purification and characterization of cold-adapted beta-agarase from an Antarctic psychrophilic strain	Brazilian Journal of Microbiology	2015,46,(3),683-690	0.592	Li, Jiang	The First Institute of Oceanography, State Oceanic Administration

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1	Eclipsing binaries from the CSTAR project at Dome A, Antarctica	Astrophysical Journal Supplement Series	2015,217,(2),28	11.215	Yang, Ming	Nanjing University
2	Photometric variability in the CSTAR field: results from the 2008 data set	Astrophysical Journal Supplement Series	2015,218,(2),20	11.215	Wang, Songhu	Nanjing University
3	Improving InSAR elevation models in Antarctica using laser altimetry, accounting for ice motion, orbital errors and atmospheric delays	Remote Sensing of Environment	2015,162,112-118	6.393	Zhou, Yu	Wuhan University
4	Estimating mountain glacier surface temperatures from Landsat-ETM plus thermal infrared data: A case study of Qiyi glacier, China	Remote Sensing of Environment	2015,163,286-295	6.393	Wu, Yuwei	Cold and Arid Regions Environmental and Engineering Research Institute, Chinese Academy of Sciences
5	Assessment of sea ice simulations in the CMIP5 models	Cryosphere	2015,9,(1),39-409	5.516	Shu, Q.	The First Institute of Oceanography, State Oceanic Administration

6	Alignment metrology for the Antarctica Kunlun Dark Universe Survey Telescope	Monthly Notices of the Royal Astronomical Society	2015,449,(1),425-430	5.107	Li, Zhengyang	Nanjing Institute of Astronomical Optics and Technology, National Astronomical Observatories, Chinese Academy of Sciences
7	A global survey of cloud overlap based on CALIPSO and CloudSat measurements	Atmospheric Chemistry and Physics	2015,15,(1),519-536	5.053	Li, J.	Lanzhou University
8	Interdecadal hydroclimate teleconnections between Asia and North America over the past 600 years	Climate Dynamics	2015,44,(7-8),1777-1787	4.673	Fang, Keyan	Fujian Normal University
9	Decomposing the meridional heat transport in the climate system	Climate Dynamics	2015,44,(9-10),2751-2768	4.673	Yang, Haijun	Tsinghua University
10	Effect of wind forcing on the meridional heat transport in a coupled climate model: equilibrium response	Climate Dynamics	2015,45,(5-6),1451-1470	4.673	Yang, Haijun	Peking University
11	A Decadal-Scale Teleconnection between the North Atlantic Oscillation and Subtropical Eastern Australian Rainfall	Journal of Climate	2015,28,(3),1074-1092	4.435	Sun, Cheng	Beijing Normal University
12	Hemispheric asymmetry of the structure of dayside auroral oval	Geophysical Research Letters	2014,41,(24),8696-8703	4.196	Hu, Zejun	Polar Research Institute of China
13	Comparison of wave propagation through ice covers in calm and storm conditions	Geophysical Research Letters	2015,42,(14),5935-5941	4.196	Li, Jingkai	Ocean University of China
14	Pulsations and period changes of the non-Blazhko RR Lyrae variable Y OCT observed from Dome A, Antarctica	Astronomical Journal	2015,149,(1),20	4.024	Huang, Zihua	Beijing Normal University
15	Discovery of multiple pulsations in the new delta SCUTI STAR HD 92277: Asteroseismology from Dome A, Antarctica	Astronomical Journal	2015,149,(2),84	4.024	Zong, Weikai	Beijing Normal University
16	Focused Synthetic Aperture Radar Processing of Ice-Sounding Data Collected	IEEE Transactions on Geoscience and Remote Sensing	2015,53,(8),4496-4509	3.514	Lang, Shinan	Institute of Electronics, Chinese Academy of Sciences

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17	An improved methodology for deriving high-resolution surface shortwave radiative fluxes from MODIS in the Arctic region	Journal of Geophysical Research-Atmospheres	2015,120,(6), 2382-2393	3.426	Niu, Xiaolei	Institute of Tibetan Plateau Research, Chinese Academy of Sciences
18	Monthly gravity field models derived from GRACE Level 1B data using a modified short-arc approach	Journal of Geophysical Research-Solid Earth	2015,120,(3), 1804-1819	3.426	Chen, Qiujie	Tongji University
19	F-lacuna at cusp latitude and its associated TEC variation	Journal of Geophysical Research-Space Physics	2014,119,(12), 10384-10396	3.426	Yang, Shenggao	PLA University of Science and Technology
20	Modulation of the dayside diffuse auroral intensity by the solar wind dynamic pressure	Journal of Geophysical Research-Space Physics	2014,119,12, 8	3.426	Shi, Run	Polar Research Institute of China
21	Theoretical study of zonal differences of electron density at midlatitudes with GITM simulation	Journal of Geophysical Research-Space Physics	2015,120,(4), 2951-2966	3.426	Wang, Hui	Wuhan University
22	Accurate Determination of Glacier Surface Velocity Fields with a DEM-Assisted Pixel-Tracking Technique from SAR Imagery	Remote Sensing	2015,7,(8),10 898-10917	3.18	Yan, Shiyong	China University of Mining and Technology
23	Dynamical seasonal predictability of the Arctic Oscillation using a CGCM	international Journal of Climatology	2015,35,(7),1 342-1353	3.157	Sun, Jianqi	Institute of Atmospheric Physics, Chinese Academy of Sciences
24	Interhemispheric Propagation of Stationary Rossby Waves in a Horizontally Nonuniform Background Flow	Journal of the Atmospheric Sciences	2015,72,(8),3 233-3256	3.143	Li, Yanjie	Institute of Atmospheric Physics, Chinese Academy of Sciences
25	A Novel Technique for Radar Depth Sounding of Fast Outlet Glaciers and Ice-Sheet Margins	IEEE Geoscience and Remote Sensing Letters	2015,12,(3),5 87-591	2.095	Wu, Chao	Institute of Electronics, Chinese Academy of Sciences
26	Accuracy and Performance of CryoSat-2 SARIn Mode Data	IEEE Geoscience and Remote Sensing	2015,12,(7),1 516-1520	2.095	Wang, Fang	Beijing Normal University

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27	Observations of thermospheric vector wind over Yellow River Station during auroral substorm events	Chinese Science Bulletin	2014,59,(29-30),3884-3893	1.579	Liu, Jue	Wuhan University
28	Comparative studies on ionospheric climatological features of NmF2 among the Arctic and Antarctic stations	Journal of Atmospheric and Solar-Terrestrial Physics	2014,119,63-70	1.474	Xu, Sheng	Xidian University
29	Correlation between solar activity and the local temperature of Antarctica during the past 11,000 years	Journal of Atmospheric and Solar-Terrestrial Physics	2015,112,26-33	1.474	Zhao, X. H.	National Space Science Center, Chinese Academy of Sciences
30	ONE-DIMENSIONAL HEAT CONDUCTION EQUATION OF THE POLAR BEAR HAIR	Thermal Science	2015,19,(1),S179-S181	1.222	Zhu, Weihong	Qijing Normal University
31	A new technique for deriving the quiet day curve from imaging riometer data at Zhongshan Station, Antarctic	Science China-Technological Sciences	2014,57,(10),1967-1976	1.192	He, Fang	Polar Research Institute of China
32	Observations of gravity wave activity during stratospheric sudden warmings in the Northern Hemisphere	Science China-Technological Sciences	2015,58,(6),951-960	1.192	Jia, Yue	Wuhan University
33	Dayside aurora classification via BIFs-based sparse representation using manifold learning	International Journal of Computer Mathematics	2014,91,(11),2415-2426	0.824	Han, Bing	Xidian University
34	From Arctic high, Antarctic low to three-dimensional heteroclinic orbit connecting south pole and north pole	ActaPhysicaSinica	2014,63,(21),4	0.813	Liu, Shida	Peking University
35	Sound velocity and related properties of seafloor sediments in the Bering Sea and Chukchi Sea	ActaOceanologicaSinica	2015,34,(5),75-80	0.747	Meng, Xiangmei	The First Institute of Oceanography, State Oceanic Administration
36	Comparative studies on solar activity variations of NmF2 at the Arctic and Antarctic Stations	Chinese Journal of Geophysics-Chinese Edition	2014,57,(11),3502-3512	0.703	Xu, Sheng	Xidian University
37	A method for vertical neutral wind in the thermosphere deduced from all-sky FPI measurements	Chinese Journal of Geophysics-Chinese Edition	2014,57,(11),3695-3702	0.703	Hu Guoyuan	Wuhan University

38	A comparative study of the cosmic noise absorption Keograms generated by two different quiet day curve techniques	Chinese Journal of Geophysics-Chinese Edition	2015,58,(1),1-11	0.703	He, Fang	Key Laboratory for Polar Science of State Oceanic Administration
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