

# Thomas Opel

## List of Publications by Year in descending order

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Version: 2024-02-01

45  
papers

1,615  
citations

304602

22  
h-index

315616

38  
g-index

80  
all docs

80  
docs citations

80  
times ranked

2070  
citing authors

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | Observing Muostakh disappear: permafrost thaw subsidence and erosion of a ground-ice-rich island in response to arctic summer warming and sea ice reduction. <i>Cryosphere</i> , 2015, 9, 151-178.  | 1.5 | 142       |
| 2  | Long-term winter warming trend in the Siberian Arctic during the mid- to late Holocene. <i>Nature Geoscience</i> , 2015, 8, 122-125.  | 5.4 | 117       |
| 3  | Last Glacial Maximum records in permafrost of the East Siberian Arctic. <i>Quaternary Science Reviews</i> , 2011, 30, 3139-3151.  | 1.4 | 77        |
| 4  | Ice Complex formation in arctic East Siberia during the MIS3 Interstadial. <i>Quaternary Science Reviews</i> , 2014, 84, 39-55.   | 1.4 | 75        |
| 5  | Permafrost hydrology in changing climatic conditions: seasonal variability of stable isotope composition in rivers in discontinuous permafrost. <i>Environmental Research Letters</i> , 2015, 10, 095003.   | 2.2 | 73        |
| 6  | Permafrost evidence for severe winter cooling during the Younger Dryas in northern Alaska. <i>Geophysical Research Letters</i> , 2010, 37, .  | 1.5 | 70        |
| 7  | Lateglacial and Holocene isotopic and environmental history of northern coastal Alaska – Results from a buried ice-wedge system at Barrow. <i>Quaternary Science Reviews</i> , 2010, 29, 3720-3735.   | 1.4 | 58        |
| 8  | Extreme climate after massive eruption of Alaska’s Okmok volcano in 43 BCE and effects on the late Roman Republic and Ptolemaic Kingdom. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 15443-15449. | 3.3 | 57        |
| 9  | Palaeoclimatic information from stable water isotopes of Holocene ice wedges on the Dmitrii Laptev Strait, northeast Siberia, Russia. <i>Permafrost and Periglacial Processes</i> , 2011, 22, 84-100.   | 1.5 | 53        |
| 10 | A Method for Continuous <sup>239</sup> Pu Determinations in Arctic and Antarctic Ice Cores. <i>Environmental Science &amp; Technology</i> , 2016, 50, 7066-7073.  | 4.6 | 51        |
| 11 | Pervasive Arctic lead pollution suggests substantial growth in medieval silver production modulated by plague, climate, and conflict. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 14910-14915.    | 3.3 | 50        |
| 12 | Ice wedges as archives of winter paleoclimate: A review. <i>Permafrost and Periglacial Processes</i> , 2018, 29, 199-209.   | 1.5 | 47        |
| 13 | The Iso2k database: a global compilation of paleo- $\delta^{18}\text{O}$ and $\delta^2\text{H}$ records to aid understanding of Common Era climate. <i>Earth System Science Data</i> , 2020, 12, 2261-2288.   | 3.7 | 46        |
| 14 | Eurasian Arctic climate over the past millennium as recorded in the Akademii Nauk ice core (Severnaya) Tj ETQq0 0 0 rgBT /Overlock 10   | 1.3 | 42        |
| 15 | Dissolved organic carbon (DOC) in Arctic ground ice. <i>Cryosphere</i> , 2015, 9, 737-752.  | 1.5 | 42        |
| 16 | Rapid Fluvio-Thermal Erosion of a Yedoma Permafrost Cliff in the Lena River Delta. <i>Frontiers in Earth Science</i> , 2020, 8, .   | 0.8 | 38        |
| 17 | Ice Complex permafrost of MIS5 age in the Dmitry Laptev Strait coastal region (East Siberian Arctic). <i>Quaternary Science Reviews</i> , 2016, 147, 298-311.   | 1.4 | 37        |
| 18 | Ground-ice stable isotopes and cryostratigraphy reflect late Quaternary palaeoclimate in the Northeast Siberian Arctic (Oyogos Yar coast, Dmitry Laptev Strait). <i>Climate of the Past</i> , 2017, 13, 587-611.  | 1.3 | 36        |

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|----|---|-----|-----------|
| 19 | Past climate and continentality inferred from ice wedges at Batagay megaslump in the Northern Hemisphere's most continental region, Yana Highlands, interior Yakutia. <i>Climate of the Past</i> , 2019, 15, 1443-1461. | 1.3 | 35        |
| 20 | A 275 year ice-core record from Akademii Nauk ice cap, Severnaya Zemlya, Russian Arctic. <i>Annals of Glaciology</i> , 2005, 42, 361-366.   | 2.8 | 29        |
| 21 | What we talk about when we talk about seasonality – A transdisciplinary review. <i>Earth-Science Reviews</i> , 2022, 225, 103843.   | 4.0 | 28        |
| 22 | Holocene thermokarst and pingo development in the Kolyma Lowland (NE Siberia). <i>Permafrost and Periglacial Processes</i> , 2018, 29, 182-198.   | 1.5 | 26        |
| 23 | Ice Complex formation on Bol'shoy Lyakhovskiy Island (New Siberian Archipelago, East Siberian Arctic) since about 200 ka. <i>Quaternary Research</i> , 2019, 92, 530-548.   | 1.0 | 26        |
| 24 | Recent advances in paleoclimatological studies of Arctic wedge – and pore – ice stable – water isotope records. <i>Permafrost and Periglacial Processes</i> , 2020, 31, 429-441.  | 1.5 | 26        |
| 25 | A multimethod dating study of ancient permafrost, Batagay megaslump, east Siberia. <i>Quaternary Research</i> , 2022, 105, 1-22.  | 1.0 | 24        |
| 26 | Aromatic acids in a Eurasian Arctic ice core: a 2600-year proxy record of biomass burning. <i>Climate of the Past</i> , 2017, 13, 395-410.  | 1.3 | 23        |
| 27 | Sea-level evolution of the Laptev Sea and the East Siberian Sea since the last glacial maximum. <i>Arktos</i> , 2015, 1, 1.   | 1.0 | 22        |
| 28 | Spatial and temporal oxygen isotope variability in northern Greenland – implications for a new climate record over the past millennium. <i>Climate of the Past</i> , 2016, 12, 171-188.                                 | 1.3 | 22        |
| 29 | Northeast Siberian ice wedges confirm Arctic winter warming over the past two millennia. <i>Holocene</i> , 2017, 27, 1789-1796.   | 0.9 | 22        |
| 30 | 115 year ice-core data from Akademii Nauk ice cap, Severnaya Zemlya: high-resolution record of Eurasian Arctic climate change. <i>Journal of Glaciology</i> , 2009, 55, 21-31.  | 1.1 | 20        |
| 31 | Halogen-based reconstruction of Russian Arctic sea ice area from the Akademii Nauk ice core (Severnaya Zemlya). <i>Cryosphere</i> , 2016, 10, 245-256.  | 1.5 | 20        |
| 32 | Ratio of $^{36}\text{Cl}/\text{Cl}$ in ground ice of east Siberia and its application for chronometry. <i>Geochemistry, Geophysics, Geosystems</i> , 2009, 10, .  | 1.0 | 19        |
| 33 | Sea ice dynamics in the Bransfield Strait, Antarctic Peninsula, during the past 240 years: a multi-proxy intercomparison study. <i>Climate of the Past</i> , 2020, 16, 2459-2483.                                       | 1.3 | 19        |
| 34 | Northeast Siberian Permafrost Ice – Wedge Stable Isotopes Depict Pronounced Last Glacial Maximum Winter Cooling. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL092087.   | 1.5 | 17        |
| 35 | Organic carbon characteristics in ice-rich permafrost in alas and Yedoma deposits, central Yakutia, Siberia. <i>Biogeosciences</i> , 2020, 17, 3797-3814.   | 1.3 | 17        |
| 36 | The cryostratigraphy of the Yedoma cliff of Sobo-Sise Island (Lena delta) reveals permafrost dynamics in the central Laptev Sea coastal region during the last 52 – kyr. <i>Cryosphere</i> , 2020, 14, 4525-4551.       | 1.5 | 17        |

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|----|--|-----|-----------|
| 37 | Greenhouse gas production in degrading ice-rich permafrost deposits in northeastern Siberia. <i>Biogeosciences</i> , 2018, 15, 5423-5436.  | 1.3 | 14        |
| 38 | Is the 20th century warming unprecedented in the Siberian north?. <i>Quaternary Science Reviews</i> , 2013, 73, 93-102.  | 1.4 | 11        |
| 39 | Pleistocene glacial and interglacial ecosystems inferred from ancient <sup>DNA</sup> analyses of permafrost sediments from Batagay megaslump, East Siberia. <i>Environmental DNA</i> , 2022, 4, 1265-1283. | 3.1 | 11        |
| 40 | Stable water isotopes and accumulation rates in the Union Glacier region, Ellsworth Mountains, West Antarctica, over the last 35 years. <i>Cryosphere</i> , 2020, 14, 881-904.                             | 1.5 | 8         |
| 41 | Geochemistry and Weathering Indices of Yedoma and Alas Deposits beneath Thermokarst Lakes in Central Yakutia. <i>Frontiers in Earth Science</i> , 2021, 9, .   | 0.8 | 7         |
| 42 | <sup>10</sup>Be in the Akademii Nauk ice core â€“ first results for CE 1590â€“1950 and implications for future chronology validation. <i>Journal of Glaciology</i> , 2017, 63, 514-522.                    | 1.1 | 5         |
| 43 | Attempts to understand potential deficiencies in chemical procedures for AMS. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2019, 456, 186-192.   | 0.6 | 5         |
| 44 | Stable isotope signatures of Holocene syngenetic permafrost trace seabird presence in the Thule District (NW Greenland). <i>Biogeosciences</i> , 2019, 16, 4261-4275.                                      | 1.3 | 4         |
| 45 | Short-Term Meteorological and Environmental Signals Recorded in a Firn Core from a High-Accumulation Site on Plateau Laclavere, Antarctic Peninsula. <i>Geosciences (Switzerland)</i> , 2021, 11, 428.     | 1.0 | 4         |