

Martin Melles

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7649420/publications.pdf>

Version: 2024-02-01

110
papers

4,628
citations

109264

35
h-index

114418

63
g-index

112
all docs

112
docs citations

112
times ranked

4538
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | 2.8 Million Years of Arctic Climate Change from Lake Elâ€™gygytgy, NE Russia. <i>Science</i> , 2012, 337, 315-320. | 6.0 | 383 |
| 2 | Maximum extent of the Eurasian ice sheets in the Barents and Kara Sea region during the Weichselian. <i>Boreas</i> , 1999, 28, 234-242. | 1.2 | 322 |
| 3 | A community-based geological reconstruction of Antarctic Ice Sheet deglaciation since the Last Glacial Maximum. <i>Quaternary Science Reviews</i> , 2014, 100, 1-9. | 1.4 | 228 |
| 4 | Pliocene Warmth, Polar Amplification, and Stepped Pleistocene Cooling Recorded in NE Arctic Russia. <i>Science</i> , 2013, 340, 1421-1427. | 6.0 | 216 |
| 5 | Antarctic glacial history since the Last Glacial Maximum: an overview of the record on land. <i>Antarctic Science</i> , 1998, 10, 326-344. | 0.5 | 206 |
| 6 | Significance of clay mineral assemblages in the Antarctic Ocean. <i>Marine Geology</i> , 1992, 107, 249-273. | 0.9 | 147 |
| 7 | Sedimentary geochemistry of core PG1351 from Lake Elâ€™gygytgyâ€™a sensitive record of climate variability in the East Siberian Arctic during the past three glacialâ€™ interglacial cycles. <i>Journal of Paleolimnology</i> , 2006, 37, 89-104. | 0.8 | 122 |
| 8 | Glacial forcing of central Indonesian hydroclimate since 60,000 y B.P.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 5100-5105. | 3.3 | 118 |
| 9 | Mediterranean winter rainfall in phase with African monsoons during theâ€™past 1.36â€™million years. <i>Nature</i> , 2019, 573, 256-260. | 13.7 | 111 |
| 10 | Late Pleistocene and Holocene Vegetation and Climate on the Taymyr Lowland, Northern Siberia. <i>Quaternary Research</i> , 2002, 57, 138-150. | 1.0 | 107 |
| 11 | Late Weichselian Glaciation of the Russian High Arctic. <i>Quaternary Research</i> , 1999, 52, 273-285. | 1.0 | 92 |
| 12 | A revised age model for core PG1351 from Lake Elâ€™gygytgy, Chukotka, based on magnetic susceptibility variations tuned to northern hemisphere insolation variations. <i>Journal of Paleolimnology</i> , 2006, 37, 65-76. | 0.8 | 85 |
| 13 | Reconstruction of changes in the Weddell Sea sector of the Antarctic Ice Sheet since the Last Glacial Maximum. <i>Quaternary Science Reviews</i> , 2014, 100, 111-136. | 1.4 | 85 |
| 14 | Late Pleistocene and Holocene vegetation and climate on the northern Taymyr Peninsula, Arctic Russia. <i>Boreas</i> , 2003, 32, 484-505. | 1.2 | 85 |
| 15 | Title is missing!. <i>Journal of Paleolimnology</i> , 2001, 26, 67-87. | 0.8 | 82 |
| 16 | Overview and significance of a 250â€™ka paleoclimate record from Elâ€™gygytgy Crater Lake, NE Russia. <i>Journal of Paleolimnology</i> , 2006, 37, 1-16. | 0.8 | 81 |
| 17 | Glacial legacies on interglacial vegetation at the Pliocene-Pleistocene transition in NE Asia. <i>Nature Communications</i> , 2016, 7, 11967. | 5.8 | 81 |
| 18 | Fourier transform infrared spectroscopy, a new cost-effective tool for quantitative analysis of biogeochemical properties in long sediment records. <i>Journal of Paleolimnology</i> , 2008, 40, 689-702. | 0.8 | 78 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Holocene climate history of Geographical Society Å, East Greenland â€” evidence from lake sediments. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2000, 160, 45-68. | 1.0 | 77 |
| 20 | Post-glacial regional climate variability along the East Antarctic coastal marginâ€”Evidence from shallow marine and coastal terrestrial records. <i>Earth-Science Reviews</i> , 2011, 104, 199-212. | 4.0 | 67 |
| 21 | A combined oxygen and silicon diatom isotope record of Late Quaternary change in Lake El'gygytgyn, North East Siberia. <i>Quaternary Science Reviews</i> , 2010, 29, 774-786. | 1.4 | 66 |
| 22 | Late- and post-glacial vegetation and climate history of the south-western Taymyr Peninsula, central Siberia, as revealed by pollen analysis of a core from Lake Lama. <i>Vegetation History and Archaeobotany</i> , 1997, 6, 1-8. | 1.0 | 61 |
| 23 | Late Pleistocene and Holocene history of Lake Terrasovoje, Amery Oasis, East Antarctica, and its climatic and environmental implications. <i>Journal of Paleolimnology</i> , 2004, 32, 321-339. | 0.8 | 60 |
| 24 | Demographic estimates of hunterâ€”gatherers during the Last Glacial Maximum in Europe against the background of palaeoenvironmental data. <i>Quaternary International</i> , 2016, 425, 49-61. | 0.7 | 55 |
| 25 | â€œClimatic fluctuations in the hyperarid core of the Atacama Desert during the past 215 kaâ€” <i>Scientific Reports</i> , 2019, 9, 5270. | 1.6 | 55 |
| 26 | Continuous and discrete on-site detection of radon-222 in ground- and surface waters by means of an extraction module. <i>Applied Radiation and Isotopes</i> , 2008, 66, 1939-1944. | 0.7 | 52 |
| 27 | Applying SAR-IRSL methodology for dating fine-grained sediments from Lake Elâ€™gygytgyn, north-eastern Siberia. <i>Quaternary Geochronology</i> , 2007, 2, 187-194. | 0.6 | 43 |
| 28 | Late Quaternary mass movement events in Lake Elâ€™gygytgyn, Northâ€”eastern Siberia. <i>Sedimentology</i> , 2009, 56, 2155-2174. | 1.6 | 41 |
| 29 | Lithostratigraphic and geochronological framework for the paleoenvironmental reconstruction of the last âˆ¼436 ÅBP from a sediment record from Lake Iznik (NW Turkey). <i>Quaternary International</i> , 2012, 07, 274, 73-87. | 0.7 | 41 |
| 30 | Glacial and postglacial sedimentation in the Fryxell basin, Taylor Valley, southern Victoria Land, Antarctica. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2006, 241, 320-337. | 1.0 | 40 |
| 31 | Sub-bottom profiling and sedimentological studies in the southern Weddell Sea, Antarctica: evidence for large-scale erosional/depositional processes. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 1993, 40, 739-760. | 0.6 | 38 |
| 32 | The diatom flora and limnology of lakes in the Amery Oasis, East Antarctica. <i>Polar Biology</i> , 2004, 27, 513. | 0.5 | 38 |
| 33 | Lake Banyoles (northeastern Spain): A Last Glacial to Holocene multi-proxy study with regard to environmental variability and human occupation. <i>Quaternary International</i> , 2012, 274, 205-218. | 0.7 | 38 |
| 34 | Marine geological constraints for the grounding-line position of the Antarctic Ice Sheet on the southern Weddell Sea shelf at the Last Glacial Maximum. <i>Quaternary Science Reviews</i> , 2012, 32, 25-47. | 1.4 | 38 |
| 35 | Colonization, succession, and extinction of marine floras during a glacial cycle: A case study from the Windmill Islands (east Antarctica) using biomarkers. <i>Paleoceanography</i> , 2003, 18, n/a-n/a. | 3.0 | 37 |
| 36 | Palaeoclimatic significance of late Quaternary diatom assemblages from southern Windmill Islands, East Antarctica. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2003, 195, 261-280. | 1.0 | 36 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 37 | Non-glacial paleoenvironments and the extent of Weichselian ice sheets on Severnaya Zemlya, Russian High Arctic. <i>Quaternary Science Reviews</i> , 2003, 22, 2267-2283. | 1.4 | 35 |
| 38 | The Towuti Drilling Project: paleoenvironments, biological evolution, and geomicrobiology of a tropical Pacific lake. <i>Scientific Drilling</i> , 0, 21, 29-40. | 1.0 | 34 |
| 39 | Luminescence geochronology for sediments from Lake El'gygytyn, northeast Siberia, Russia: constraining the timing of paleoenvironmental events for the past 200 Åka. <i>Journal of Paleolimnology</i> , 2006, 37, 77-88. | 0.8 | 32 |
| 40 | Late Quaternary lake-level changes of Lake El'gygytyn, NE Siberia. <i>Quaternary Research</i> , 2011, 76, 441-451. | 1.0 | 32 |
| 41 | Title is missing!. <i>Journal of Paleolimnology</i> , 2002, 28, 253-267. | 0.8 | 31 |
| 42 | El'gygytyn impact crater, Chukotka, Arctic Russia: Impact cratering aspects of the 2009 ICDP drilling project. <i>Meteoritics and Planetary Science</i> , 2013, 48, 1108-1129. | 0.7 | 31 |
| 43 | Late Quaternary environmental and climate history of Rauer Group, East Antarctica. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2010, 297, 201-213. | 1.0 | 30 |
| 44 | Chironomids as indicators of the Holocene climatic and environmental history of two lakes in Northeast Greenland. <i>Boreas</i> , 2011, 40, 116-130. | 1.2 | 30 |
| 45 | Late Quaternary environment of southern Windmill Islands, East Antarctica. <i>Antarctic Science</i> , 2002, 14, 385-394. | 0.5 | 29 |
| 46 | Luminescence chronology of non-glacial sediments in Changeable Lake, Russian High Arctic, and implications for limited Eurasian ice-sheet extent during the LGM. <i>Journal of Quaternary Science</i> , 2004, 19, 513-523. | 1.1 | 29 |
| 47 | A multidisciplinary study of Holocene sediment records from Hjort SÃ, on Store Koldewey, Northeast Greenland. <i>Journal of Paleolimnology</i> , 2008, 39, 381-398. | 0.8 | 28 |
| 48 | Depositional modes and lake-level variability at Lake Towuti, Indonesia, during the past ~29 Åkyr BP. <i>Journal of Paleolimnology</i> , 2015, 54, 359-377. | 0.8 | 28 |
| 49 | The Holocene evolution and palaeosalinity history of Beall Lake, Windmill Islands (East Antarctica) using an expanded diatom-based weighted averaging model. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2004, 208, 121-140. | 1.0 | 27 |
| 50 | Impact processes, permafrost dynamics, and climate and environmental variability in the terrestrial Arctic as inferred from the unique 3.6 ÅMyr record of Lake El'gygytyn, Far East Russia – A review. <i>Quaternary Science Reviews</i> , 2016, 147, 221-244. | 1.4 | 27 |
| 51 | Deglaciation history of Lake Ladoga (northwestern Russia) based on varved sediments. <i>Boreas</i> , 2019, 48, 330-348. | 1.2 | 27 |
| 52 | Impact of early diagenesis and bulk particle grain size distribution on estimates of relative geomagnetic palaeointensity variations in sediments from Lama Lake, northern Central Siberia. <i>Geophysical Journal International</i> , 2001, 145, 300-306. | 1.0 | 26 |
| 53 | Holocene climatic and environmental evolution on the southwestern Iberian Peninsula: A high-resolution multi-proxy study from Lake Medina (CÃdiz, SW Spain). <i>Quaternary Science Reviews</i> , 2018, 198, 208-225. | 1.4 | 26 |
| 54 | Modern sedimentation processes in Lake Towuti, Indonesia, revealed by the composition of surface sediments. <i>Sedimentology</i> , 2019, 66, 675-698. | 1.6 | 25 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 55 | Organic matter mineralization in modern and ancient ferruginous sediments. <i>Nature Communications</i> , 2021, 12, 2216. | 5.8 | 25 |
| 56 | Late Pleistocene and Holocene vegetation and climate on the northern Taymyr Peninsula, Arctic Russia. <i>Boreas</i> , 2003, 32, 484-505. | 1.2 | 24 |
| 57 | Insights into the evolution of the young Lake Ohrid ecosystem and vegetation succession from a southern European refugium during the Early Pleistocene. <i>Quaternary Science Reviews</i> , 2020, 227, 106044. | 1.4 | 24 |
| 58 | Radiocarbon dating of lacustrine and marine sediments from the Bunger Hills, East Antarctica. <i>Antarctic Science</i> , 1994, 6, 375-378. | 0.5 | 23 |
| 59 | Seasonal hydrochemical changes and spatial sedimentological variations in Lake Iznik (NW Turkey). <i>Quaternary International</i> , 2012, 274, 102-111. | 0.7 | 22 |
| 60 | Lithological and biochemical properties in sediments of Lama Lake as indicators for the late Pleistocene and Holocene ecosystem development of the southern Taymyr Peninsula, Central Siberia. <i>Boreas</i> , 1999, 28, 167-180. | 1.2 | 20 |
| 61 | East Antarctic Climate and Environmental Variability over the Last 9400 Years Inferred from Marine Sediments of the Bunger Oasis. <i>Arctic, Antarctic, and Alpine Research</i> , 2001, 33, 223-230. | 0.4 | 20 |
| 62 | A 68-ka precipitation record from the hyperarid core of the Atacama Desert in northern Chile. <i>Global and Planetary Change</i> , 2020, 184, 103054. | 1.6 | 20 |
| 63 | Lake sediments from Store Koldewey, Northeast Greenland, as archive of Late Pleistocene and Holocene climatic and environmental changes. <i>Boreas</i> , 2009, 38, 59-71. | 1.2 | 18 |
| 64 | East Antarctic Climate and Environmental Variability over the Last 9400 Years Inferred from Marine Sediments of the Bunger Oasis. <i>Arctic, Antarctic, and Alpine Research</i> , 2001, 33, 223. | 0.4 | 18 |
| 65 | Holocene climate changes reflected in a diatom succession from Basalts, East Greenland. <i>Canadian Journal of Botany</i> , 2001, 79, 649-656. | 1.2 | 17 |
| 66 | Millennial-scale vegetation changes in the north-eastern Russian Arctic during the Pliocene/Pleistocene transition (2.7-2.5 Ma) inferred from the pollen record of Lake El'gygytyn. <i>Quaternary Science Reviews</i> , 2016, 147, 245-258. | 1.4 | 17 |
| 67 | The late quaternary tectonic, biogeochemical, and environmental evolution of ferruginous Lake Towuti, Indonesia. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2020, 556, 109905. | 1.0 | 17 |
| 68 | Unglaciated areas in East Antarctica during the Last Glacial (Marine Isotope Stage 3) – New evidence from Rauer Group. <i>Quaternary Science Reviews</i> , 2016, 153, 1-10. | 1.4 | 16 |
| 69 | Vegetation and climate changes in northwestern Russia during the Lateglacial and Holocene inferred from the Lake Ladoga pollen record. <i>Boreas</i> , 2019, 48, 349-360. | 1.2 | 16 |
| 70 | Chronological Assessment of the Balta Alba Kurgan Loess-Paleosol Section (Romania) – A Comparative Study on Different Dating Methods for a Robust and Precise Age Model. <i>Frontiers in Earth Science</i> , 2021, 8, . | 0.8 | 16 |
| 71 | High-latitude vegetation and climate changes during the Mid-Pleistocene Transition inferred from a palynological record from Lake El'gygytyn, NE Russian Arctic. <i>Boreas</i> , 2018, 47, 137-149. | 1.2 | 15 |
| 72 | Environmental conditions in northwestern Russia during MIS5 inferred from the pollen stratigraphy in a sediment core from Lake Ladoga. <i>Boreas</i> , 2019, 48, 377-386. | 1.2 | 14 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 73 | A rock magnetic record from Lama Lake, Taymyr Peninsula, northern Central Siberia. <i>Journal of Paleolimnology</i> , 2000, 23, 227-241. | 0.8 | 13 |
| 74 | Climatic and tectonic controls on source-to-sink processes in the tropical, ultramafic catchment of Lake Towuti, Indonesia. <i>Journal of Paleolimnology</i> , 2019, 61, 279-295. | 0.8 | 12 |
| 75 | Whitepaper: Earth " Evolution at the dry limit. <i>Global and Planetary Change</i> , 2020, 193, 103275. | 1.6 | 11 |
| 76 | Climatic and environmental changes in the Yana Highlands of north-eastern Siberia over the lastc. 57 000 years, derived from a sediment core from Lake Emanda. <i>Boreas</i> , 2021, 50, 114-133. | 1.2 | 11 |
| 77 | Glacial history of east Greenland explored. <i>Eos</i> , 1995, 76, 353-353. | 0.1 | 10 |
| 78 | Characterization of Iron in Lake Towuti sediment. <i>Chemical Geology</i> , 2019, 512, 11-30. | 1.4 | 10 |
| 79 | Holocene glacier fluctuations and environmental changes in subantarctic South Georgia inferred from a sediment record from a coastal inlet. <i>Quaternary Research</i> , 2019, 91, 132-148. | 1.0 | 10 |
| 80 | <i>Larix</i> species range dynamics in Siberia since the Last Glacial captured from sedimentary ancient DNA. <i>Communications Biology</i> , 2022, 5, . | 2.0 | 10 |
| 81 | Short Note: New marine core record of Late Pleistocene glaciation history, Rauer Group, East Antarctica. <i>Antarctic Science</i> , 2009, 21, 299-300. | 0.5 | 9 |
| 82 | Northern Eurasian lakes " late Quaternary glaciation and climate history " introduction. <i>Boreas</i> , 2019, 48, 269-272. | 1.2 | 9 |
| 83 | No significant ice-sheet expansion beyond present ice margins during the past 4500 yr at Rauer Group, East Antarctica. <i>Quaternary Research</i> , 2010, 74, 23-25. | 1.0 | 8 |
| 84 | Postglacial evolution of marine and lacustrine water bodies in Bunger Hills. <i>Antarctic Science</i> , 2020, 32, 107-129. | 0.5 | 8 |
| 85 | Indications of Holocene sea-level rise in Beaver Lake, East Antarctica. <i>Antarctic Science</i> , 2007, 19, 125-128. | 0.5 | 7 |
| 86 | Was South Georgia covered by an ice cap during the Last Glacial Maximum?. <i>Geological Society Special Publication</i> , 2018, 461, 49-59. | 0.8 | 7 |
| 87 | Vegetation and climate during the penultimate interglacial of the northeastern Russian Arctic: the Lake El'gygytyn pollen record. <i>Boreas</i> , 2019, 48, 507-515. | 1.2 | 7 |
| 88 | Processes influencing differences in Arctic and Antarctic trough mouth fan sedimentology. <i>Geological Society Special Publication</i> , 2019, 475, 203-221. | 0.8 | 7 |
| 89 | Lateglacial and Holocene environmental history of the central Kola region, northwestern Russia revealed by a sediment succession from Lake Imandra. <i>Boreas</i> , 2021, 50, 76-100. | 1.2 | 7 |
| 90 | Increased petrogenic and biospheric organic carbon burial in sub-Antarctic fjord sediments in response to recent glacier retreat. <i>Limnology and Oceanography</i> , 2021, 66, 4347-4362. | 1.6 | 7 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 91 | The Holocene environmental history of Lake Hoare, Taylor Valley, Antarctica, reconstructed from sediment cores. <i>Antarctic Science</i> , 2011, 23, 307-319. | 0.5 | 6 |
| 92 | Middle to Late Pleistocene lake-level fluctuations of Lake El'gygytgyn, far-east Russian Arctic. <i>Boreas</i> , 2019, 48, 516-533. | 1.2 | 6 |
| 93 | Mineral Magnetic Characterization of High-Latitude Sediments From Lake Levinson-Lessing, Siberia. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL093026. | 1.5 | 6 |
| 94 | Palaeoenvironmental implications derived from a piston core from east lobe Bonney, Taylor Valley, Antarctica. <i>Antarctic Science</i> , 2010, 22, 522-530. | 0.5 | 5 |
| 95 | Shallow hypersaline lakes as paleoclimate archives: A case study from the Laguna Salada, Mıjaga province, southern Spain. <i>Quaternary International</i> , 2018, 485, 76-88. | 0.7 | 5 |
| 96 | Climate, glacial and vegetation history of the polar Ural Mountains since c. 27 cal ka bp, inferred from a 54 m long sediment core from Lake Bolshoye Shchuchye. <i>Journal of Quaternary Science</i> , 0, , . | 1.1 | 5 |
| 97 | Millennial-scale vegetation history of the north-eastern Russian Arctic during the mid-Pliocene inferred from the Lake El'gygytgyn pollen record. <i>Global and Planetary Change</i> , 2020, 186, 103111. | 1.6 | 4 |
| 98 | Climate and environmental history at Lake Levinson-Lessing, Taymyr Peninsula, during the last 62 kyr. <i>Journal of Quaternary Science</i> , 2022, 37, 836-850. | 1.1 | 4 |
| 99 | Lateglacial and Holocene palaeoenvironments on Bolshevik Island (Severnaya Zemlya), Russian High Arctic. <i>Boreas</i> , 2020, 49, 375-388. | 1.2 | 3 |
| 100 | Sedimentation history of Lake Taymyr, Central Russian Arctic, since the Last Glacial Maximum. <i>Journal of Quaternary Science</i> , 0, , . | 1.1 | 3 |
| 101 | Late Quaternary paleoenvironmental reconstructions from sediments of Lake Emanda (Verkhoyansk) Tj ETQq1 1 0.784314 rgBT /Over | 1.1 | 3 |
| 102 | Iron Mineralogy and Sediment Color in a 100 m Drill Core From Lake Towuti, Indonesia Reflect Catchment and Diagenetic Conditions. <i>Geochemistry, Geophysics, Geosystems</i> , 2021, 22, e2020GC009582. | 1.0 | 2 |
| 103 | Millennial-Scale Arctic Climate Change of the last 3.6 Million Years: Scientific Drilling at Lake El'gygytgyn, Northeast Russia. <i>Oceanography</i> , 2011, 24, 80-81. | 0.5 | 2 |
| 104 | A 62 kyr geomagnetic palaeointensity record from the Taymyr Peninsula, Russian Arctic. <i>Geochronology</i> , 2022, 4, 87-107. | 1.0 | 2 |
| 105 | Quaternary environmental and climatic history of the northern high latitudes – recent contributions and perspectives from lake sediment records. <i>Journal of Quaternary Science</i> , 2022, 37, 721-728. | 1.1 | 2 |
| 106 | The first dated preglacial diatom record in Lake Ladoga: long-term marine influence or redeposition story?. <i>Journal of Paleolimnology</i> , 2021, 65, 85-99. | 0.8 | 1 |
| 107 | The Environment at Lake El'gygytgyn Area (Northeastern Russian Arctic) Prior to and After the Meteorite Impact at 3.58 Ma. <i>Frontiers in Earth Science</i> , 2021, 9, . | 0.8 | 1 |
| 108 | Highly variable sediment deposition in Lake Imandra, NW Russia, since the Late Pleistocene. <i>Journal of Quaternary Science</i> , 0, , . | 1.1 | 1 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 109 | Quaternary environmental changes in central Chukotka (NE Russia) inferred from the Lake El'gygytgyn pollen records. <i>Journal of Quaternary Science</i> , 2022, 37, 915-927. | 1.1 | 1 |
| 110 | Modern sedimentation processes in Laguna de Medina, southern Spain, derived from lake surface sediment and catchment soil samples. <i>Journal of Limnology</i> , 0, , . | 0.3 | 0 |