# Bjarne Almqvist

List of Publications by Year
in descending order



| 62 | 1,057 | 516561 16 | 477173 29 |
|---|---|---|---|
| papers | citations | h-index | g-index |

| 71 | 71 | 71 | 1202 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Elastic Wave Propagation in a Stainless-Steel Standard and Verification of a COMSOL Multiphysics Numerical Elastic Wave Toolbox. Resources, 2022, 11, 49. | 1.6 | 0 |
| 2 | Magnetic Fabric Signature Within a Thrust Imbricate; an Analog Modeling Approach. Tectonics, 2022, 41, . | 1.3 | 1 |
| 3 | Coreâ€Logâ€Seismic Integration in Metamorphic Rocks and Its Implication for the Regional Geology: A Case Study for the ICDP Drilling Project COSCâ€1, Sweden. Geochemistry, Geophysics, Geosystems, 2021, 22, e2020GC009376. | 1.0 | 6 |
| 4 | Influence of dÃ©collement friction on anisotropy of magnetic susceptibility in a fold-and-thrust belt model. Journal of Structural Geology, 2021, 144, 104274. | 1.0 | 7 |
| 5 | Crystal rotations and alignment in spatially varying magma flows: 2-D examples of common subvolcanic flow geometries. Geophysical Journal International, 2021, 226, 709-727. | 1.0 | 4 |
| 6 | Decrypting Magnetic Fabrics (AMS, AARM, AIRM) Through the Analysis of Mineral Shape Fabrics and Distribution Anisotropy. Journal of Geophysical Research: Solid Earth, 2021, 126, e2021JB021895. | 1.4 | 5 |
| 7 | Palaeoenvironmental implications from Lower Volga loess - Joint magnetic fabric and multi-proxy analyses. Quaternary Science Reviews, 2021, 267, 107057. | 1.4 | 11 |
| 8 | Seismic anisotropy of mid crustal orogenic nappes and their bounding structures: An example from the Middle Allochthon (Seve Nappe) of the Central Scandinavian Caledonides. Tectonophysics, 2021, 819, 229045. | 0.9 | 5 |
| 9 | Paleomagnetic studies of rapakivi complexes in the Fennoscandian shield â€“ Implications to the origin of Proterozoic massif-type anorthosite magmatism. Precambrian Research, 2021, 365, 106406. | 1.2 | 8 |
| 10 | Pressure, temperature and lithological dependence of seismic and magnetic susceptibility anisotropy in amphibolites and gneisses from the central Scandinavian Caledonides. Tectonophysics, 2021, 820, 229113. | 0.9 | 6 |
| 11 | Identification of gas inflow zones in the COSC-1 borehole (JÃmtland, central Sweden) by drilling mud gas monitoring, downhole geophysical logging and drill core analysis. Applied Geochemistry, 2020, 114, 104513. | 1.4 | 2 |
| 12 | Magnetic susceptibility parameters as proxies for desert sediment provenance. Aeolian Research, 2020, 46, 100615. | 1.1 | 12 |
| 13 | 3D rock fabric analysis using micro-tomography: An introduction to the open-source TomoFab MATLAB code. Computers and Geosciences, 2020, 138, 104444. | 2.0 | 12 |
| 14 | The Arctic Ocean Manganese Cycle, an Overlooked Mechanism in the Anomalous Palaeomagnetic Sedimentary Record. Frontiers in Earth Science, 2020, 8, . | 0.8 | 8 |
| 15 | Magnetic properties of pseudotachylytes from western JÃmtland, central Swedish Caledonides. Solid Earth, 2020, 11, 807-828. | 1.2 | 3 |
| 16 | The Collisional Orogeny in the Scandinavian Caledonides (COSC) project: Some results and current status. Acta Geologica Sinica, 2019, 93, 33-35. | 0.8 | 0 |
| 17 | Progressive Growth of the Cerro Bayo Cryptodome, ChachahuÃ©n Volcano, Argentinaâ€”Implications for Viscous Magma Emplacement. Journal of Geophysical Research: Solid Earth, 2019, 124, 7934-7961. | 1.4 | 21 |
| 18 | Late Pleistocene Chronology of Sediments From the Yermak Plateau and Uncertainty in Dating Based on Geomagnetic Excursions. Geochemistry, Geophysics, Geosystems, 2019, 20, 3289-3310. | 1.0 | 18 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Coring induced sediment fabrics at IODP Expedition 347 Sites M0061 and M0062 identified by anisotropy of magnetic susceptibility (AMS): criteria for accepting palaeomagnetic data. Geophysical Journal International, 2019, 217, 1089-1107. | 1.0 | 6 |
| 20 | Magnetic fabric development in the Lower Seve thrust from the COSC-1 drilling, Swedish Caledonides. Tectonophysics, 2019, 751, 212-228. | 0.9 | 5 |
| 21 | Magnetic characterisation of magnetite and hematite from the BlÃ¶tberget apatiteâ€‰â€“â€‰iron oxide deposits (Bergslagen), south-central Sweden. Canadian Journal of Earth Sciences, 2019, 56, 948-957. | 0.6 | 3 |
| 22 | Bulk strain in orogenic wedges based on insights from magnetic fabrics in sandbox models. Geology, 2018, 46, 483-486. | 2.0 | 18 |
| 23 | Initial surface failure and wear of cemented carbides in sliding contact with different rock types. Wear, 2018, 408-409, 43-55. | 1.5 | 6 |
| 24 | Syn-Emplacement Fracturing in the Sandfell Laccolith, Eastern Icelandâ€”Implications for Rhyolite Intrusion Growth and Volcanic Hazards. Frontiers in Earth Science, 2018, 6, . | 0.8 | 29 |
| 25 | Metamorphic Zonation by Outâ€ofâ€Sequence Thrusting at Backâ€Stepping Subduction Zones: Sequential Accretion of the Caledonian Internides, Central Sweden. Tectonics, 2018, 37, 3545-3576. | 1.3 | 24 |
| 26 | Image log analysis of in situ stress orientation, breakout growth, and natural geologic structures to 2.5Ākm depth in central Scandinavian Caledonides: Results from the COSCâ€1 borehole. Journal of Geophysical Research: Solid Earth, 2017, 122, 3999-4019. | 1.4 | 17 |
| 27 | Seismic properties and anisotropy of the continental crust: Predictions based on mineral texture and rock microstructure. Reviews of Geophysics, 2017, 55, 367-433. | 9.0 | 127 |
| 28 | Seismic anisotropy from compositional banding in granulites from the deep magmatic arc of Fiordland, New Zealand. Earth and Planetary Science Letters, 2017, 477, 156-167. | 1.8 | 16 |
| 29 | Magma transport in sheet intrusions of the AlnÃ¶ carbonatite complex, central Sweden. Scientific Reports, 2016, 6, 27635. | 1.6 | 17 |
| 30 | 3D magnetotelluric modelling of the AlnÃ¶ alkaline and carbonatite ring complex, central Sweden. Tectonophysics, 2016, 679, 218-234. | 0.9 | 5 |
| 31 | The Lake Natron Footprint Tuff (northern Tanzania): volcanic source, depositional processes and age constraints from field relations. Journal of Quaternary Science, 2016, 31, 526-537. | 1.1 | 13 |
| 32 | Seismic anisotropy in mid to lower orogenic crust: Insights from laboratory measurements of Vp and Vs in drill core from central Scandinavian Caledonides. Tectonophysics, 2016, 692, 14-28. | 0.9 | 20 |
| 33 | 3D reflection seismic imaging at the 2.5km deep COSC-1 scientific borehole, central Scandinavian Caledonides. Tectonophysics, 2016, 689, 40-55. | 0.9 | 32 |
| 34 | Determining the timing of formation of the Rawil Depression in the Helvetic Alps by palaeomagnetic and structural methods. Geological Society Special Publication, 2016, 425, 145-168. | 0.8 | 13 |
| 35 | Petrofabric development during experimental partial melting and recrystallization of a micaâ€schist analog. Geochemistry, Geophysics, Geosystems, 2015, 16, 3472-3483. | 1.0 | 1 |
| 36 | Mechanics, microstructure and AMS evolution of a synthetic porphyritic calcite aggregate deformed in torsion. Tectonophysics, 2015, 655, 41-57. | 0.9 | 4 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | The role of stress on chemical compaction of illite shale powder. Geological Society Special Publication, 2015, 409, 125-147. | 0.8 | 2 |
| 38 | Ultrasonic velocity drops and anisotropy reduction in mica-schist analogues due to melting with implications for seismic imaging of continental crust. Earth and Planetary Science Letters, 2015, 425, 24-33. | 1.8 | 15 |
| 39 | Texture and diagenesis of Ordovician shale from the Canning Basin, Western Australia: Implications for elastic anisotropy and geomechanical properties. Marine and Petroleum Geology, 2015, 59, 56-71. | 1.5 | 44 |
| 40 | The formation of the Namib Sand Sea inferred from the spatial pattern of magnetic rock fragments. Earth and Planetary Science Letters, 2014, 395, 168-172. | 1.8 | 6 |
| 41 | Numerical support of laboratory experiments: Attenuation and velocity estimations. Acta Geophysica, 2014, 62, 1-11. | 1.0 | 9 |
| 42 | The Ronda peridotite (Spain): A natural template for seismic anisotropy in subduction wedges. Geophysical Research Letters, 2014, 41, 8752-8758. | 1.5 | 12 |
| 43 | Impact of texture and diagenesis on the elastic anisotropy and geomechanical properties of shales. , 2014, , . | | 0 |
| 44 | Seismic anisotropy in the Morcles nappe shear zone: Implications for seismic imaging of crustal scale shear zones. Tectonophysics, 2013, 603, 162-178. | 0.9 | 19 |
| 45 | Synchrotron-based X-ray tomographic microscopy for rock physics investigations. Geophysics, 2013, 78, D53-D64. | 1.4 | 88 |
| 46 | Decoupling of paramagnetic and ferrimagnetic AMS development during the experimental chemical compaction of illite shale powder. Geophysical Journal International, 2013, 192, 975-985. | 1.0 | 4 |
| 47 | Seismic properties of the Kohistan oceanic arc root: Insights from laboratory measurements and thermodynamic modeling. Geochemistry, Geophysics, Geosystems, 2013, 14, 1819-1841. | 1.0 | 11 |
| 48 | Internal flow structures in columnar jointed basalt from HrepphÃ³lar, Iceland: II. Magnetic anisotropy and rock magnetic properties. Bulletin of Volcanology, 2012, 74, 1667-1681. | 1.1 | 21 |
| 49 | Unraveling magnetic fabrics. International Journal of Earth Sciences, 2012, 101, 613-624. | 0.9 | 20 |
| 50 | Digital rock physics: numerical prediction of pressure-dependent ultrasonic velocities using micro-CT imaging. Geophysical Journal International, 2012, 189, 1475-1482. | 1.0 | 134 |
| 51 | Anisotropy of magnetic susceptibility (AMS) and diamagnetic fabrics in the Durness Limestone, NW Scotland. Journal of Structural Geology, 2012, 34, 54-60. | 1.0 | 15 |
| 52 | Numerical support of laboratory experiments: Attenuation and velocity estimations. , 2012, , . | | 0 |
| 53 | Melt migration in basalt columns driven by crystallization-induced pressure gradients. Nature Communications, 2011, 2, 299. | 5.8 | 31 |
| 54 | Application of differential effective medium, magnetic pore fabric analysis, and X-ray microtomography to calculate elastic properties of porous and anisotropic rock aggregates. Journal of Geophysical Research, 2011, 116, . | 3.3 | 17 |

| # | Article | IF | Citations |
|---|---|---|---|
| 55 | Magnetic anisotropy reveals Neogene tectonic overprint in highly strained carbonate mylonites from the Morcles nappe, Switzerland. Journal of Structural Geology, 2011, 33, 1010-1022. | 1.0 | 16 |
| 56 | Magnetic susceptibility as a tool to study deformed calcite with variable impurity content. Geochemistry, Geophysics, Geosystems, 2010, 11, . | 1.0 | 15 |
| 57 | Elastic properties of anisotropic synthetic calciteâ€muscovite aggregates. Journal of Geophysical Research, 2010, 115, . | 3.3 | 9 |
| 58 | Magnetic fabrics of the Morcles Nappe complex. Tectonophysics, 2009, 466, 89-100. | 0.9 | 16 |
| 59 | Correcting distorted paleosecular variation in late glacial lacustrine clay. Physics of the Earth and Planetary Interiors, 2008, 166, 30-43. | 0.7 | 10 |
| 60 | Specimen size and improved precision with the Molspin spinner magnetometer. Earth and Planetary Science Letters, 2006, 241, 381-386. | 1.8 | 8 |
| 61 | COSC-1 â€“ drilling of a subduction-related allochthon in the Palaeozoic Caledonide orogen of Scandinavia. Scientific Drilling, 0, 19, 1-11. | 1.0 | 41 |
| 62 | COSC-2 â€“ drilling the basal dÃ©collement and underlying margin of palaeocontinent Baltica in the Paleozoic Caledonide Orogen of Scandinavia. Scientific Drilling, 0, 30, 43-57. | 1.0 | 4 |