

David B Snyder

List of Publications by Year in descending order

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95
papers

3,094
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174990

52
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118
all docs

118
docs citations

118
times ranked

1801
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Evidence for early Proterozoic plate tectonics from seismic reflection profiles in the Baltic shield. <i>Nature</i> , 1990, 348, 34-38. | 13.7 | 274 |
| 2 | Foreland shortening and crustal balancing in the Andes at 30°S latitude. <i>Tectonics</i> , 1990, 9, 789-809. | 1.3 | 236 |
| 3 | Deep crustal structure and flexure of the Arabian Plate Beneath the Zagros collisional mountain belt as inferred from gravity observations. <i>Tectonics</i> , 1986, 5, 361-373. | 1.3 | 172 |
| 4 | Precambrian crustal evolution: Seismic constraints from the Canadian Shield. <i>Earth and Planetary Science Letters</i> , 2010, 297, 655-666. | 1.8 | 102 |
| 5 | Precambrian crust beneath the Mesozoic northern Canadian Cordillera discovered by Lithoprobe seismic reflection profiling. <i>Tectonics</i> , 2004, 23, n/a-n/a. | 1.3 | 92 |
| 6 | Crustal structure beneath the Faroe Islands and the Faroe-Iceland Ridge. <i>Tectonophysics</i> , 1998, 300, 159-180. | 0.9 | 89 |
| 7 | The crust as a heterogeneous "optical" medium, or "crocodiles in the mist". <i>Tectonophysics</i> , 1994, 232, 281-297. | 0.9 | 86 |
| 8 | A deep seismic reflection transect across the Irish Caledonides. <i>Journal of the Geological Society</i> , 1991, 148, 149-164. | 0.9 | 82 |
| 9 | The Iapetus suture zone in England, Scotland and eastern Ireland: a reconciliation of geological and deep seismic data. <i>Journal of the Geological Society</i> , 1992, 149, 697-700. | 0.9 | 77 |
| 10 | A dual doubly vergent orogen in the Banda Arc continent-arc collision zone as observed on deep seismic reflection profiles. <i>Tectonics</i> , 1996, 15, 34-53. | 1.3 | 75 |
| 11 | Geophysical Detection of Relict Metasomatism from an Archean (~3.5 Ga) Subduction Zone. <i>Science</i> , 2009, 326, 1089-1091. | 6.0 | 66 |
| 12 | A Caledonian age for reflectors within the mantle lithosphere north and west of Scotland. <i>Tectonics</i> , 1990, 9, 903-922. | 1.3 | 65 |
| 13 | Magnetotelluric and teleseismic study across the Snowbird Tectonic Zone, Canadian Shield: A Neoproterozoic mantle suture?. <i>Geophysical Research Letters</i> , 2002, 29, 10-1-10-4. | 1.5 | 59 |
| 14 | Stacked uppermost mantle layers within the Slave craton of NW Canada as defined by anisotropic seismic discontinuities. <i>Tectonics</i> , 2008, 27, . | 1.3 | 59 |
| 15 | Deep seismic survey images crustal structure of Tornquist Zone beneath southern Baltic Sea. <i>Geophysical Research Letters</i> , 1991, 18, 1091-1094. | 1.5 | 52 |
| 16 | Proterozoic Prism Arrests Suspect Terranes: Insights into the Ancient Cordilleran Margin from Seismic Reflection Data. <i>GSA Today</i> , 2002, 12, 4. | 1.1 | 49 |
| 17 | Reflections from mantle fault zones around the British Isles. <i>Geology</i> , 1990, 18, 528. | 2.0 | 47 |
| 18 | Lithospheric growth at margins of cratons. <i>Tectonophysics</i> , 2002, 355, 7-22. | 0.9 | 46 |

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|----|--|-----|-----------|
| 19 | A comparison of cratonic roots through consistent analysis of seismic surface waves. <i>Lithos</i> , 2009, 109, 81-95. | 0.6 | 46 |
| 20 | Crustal structure beneath Hudson Bay from ambient-noise tomography: implications for basin formation. <i>Geophysical Journal International</i> , 2011, 184, 65-82. | 1.0 | 46 |
| 21 | Deep-crustal mineral assemblages and potential for crustal rocks below the Moho in the Scottish Caledonides. <i>Geophysical Journal International</i> , 1995, 123, 323-339. | 1.0 | 45 |
| 22 | The Antrim-Galway Line: a resolution of the Highland Border Fault enigma of the Caledonides of Britain and Ireland. <i>Geological Magazine</i> , 1995, 132, 171-184. | 0.9 | 43 |
| 23 | Precambrian plate tectonics: Seismic evidence from northern Hudson Bay, Canada. <i>Geology</i> , 2011, 39, 91-94. | 2.0 | 43 |
| 24 | Seismic anisotropy of the Slave craton, NW Canada, from joint interpretation of SKS and Rayleigh waves. <i>Geophysical Journal International</i> , 2007, 169, 170-188. | 1.0 | 42 |
| 25 | Downhole seismic imaging of a massive sulfide orebody with mode-converted waves, Halfmile lake, New Brunswick, Canada. <i>Geophysics</i> , 2004, 69, 318-329. | 1.4 | 40 |
| 26 | Mapping the mantle lithosphere for diamond potential using teleseismic methods. <i>Lithos</i> , 2004, 77, 859-872. | 0.6 | 38 |
| 27 | New constraints on the upper mantle structure of the Slave craton from Rayleigh wave inversion. <i>Geophysical Research Letters</i> , 2007, 34, . | 1.5 | 38 |
| 28 | Construction and destruction of some North American cratons. <i>Tectonophysics</i> , 2017, 694, 464-485. | 0.9 | 38 |
| 29 | Seismic anisotropy and mantle structure of the Rae craton, central Canada, from joint interpretation of SKS splitting and receiver functions. <i>Precambrian Research</i> , 2013, 232, 189-208. | 1.2 | 37 |
| 30 | Thick-skinned deformation observed on deep seismic reflection profiles in western Argentina. <i>Tectonics</i> , 1990, 9, 773-788. | 1.3 | 36 |
| 31 | Implications of a simple mantle transition zone beneath cratonic North America. <i>Earth and Planetary Science Letters</i> , 2011, 312, 28-36. | 1.8 | 34 |
| 32 | Crustal structure and lithology of the northern Canadian Cordillera: alternative interpretations of SNORCLE seismic reflection lines 2a and 2b. <i>Canadian Journal of Earth Sciences</i> , 2005, 42, 1149-1161. | 0.6 | 31 |
| 33 | Tectonic and Metallogenic Implications of Regional Seismic Profiles in the Timmins Mining Camp. <i>Economic Geology</i> , 2008, 103, 1135-1150. | 1.8 | 30 |
| 34 | A Paleoproterozoic Andean-type iron oxide copper-gold environment, the Great Bear magmatic zone, Northwest Canada. <i>Ore Geology Reviews</i> , 2017, 81, 123-139. | 1.1 | 29 |
| 35 | Magnetotelluric investigations of the lithosphere beneath the central Rae craton, mainland Nunavut, Canada. <i>Journal of Geophysical Research: Solid Earth</i> , 2014, 119, 2415-2439. | 1.4 | 28 |
| 36 | Acquisition and Processing of Wider Bandwidth Seismic Data in Crystalline Crust: Progress with the Metal Earth Project. <i>Minerals (Basel, Switzerland)</i> , 2019, 9, 145. | 0.8 | 28 |

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|----|--|-----|-----------|
| 37 | Lithospheric architecture of the Slave craton, northwest Canada, as determined from an interdisciplinary 3D model. <i>Geochemistry, Geophysics, Geosystems</i> , 2014, 15, 1895-1910. | 1.0 | 25 |
| 38 | Linkage between mantle and crustal structures and its bearing on inherited structures in northwestern Scotland. <i>Journal of the Geological Society</i> , 1997, 154, 79-83. | 0.9 | 24 |
| 39 | Monte Carlo analysis of seismic reflections from Moho and the W reflector. <i>Journal of Geophysical Research</i> , 1997, 102, 2969-2981. | 3.3 | 24 |
| 40 | The Moine Thrust in the BIRPS data set. <i>Journal of the Geological Society</i> , 1990, 147, 81-86. | 0.9 | 22 |
| 41 | High-resolution seismic imaging of crooked two-dimensional profiles in greenstone belts of the Canadian shield: results from the Swayze area, Ontario, Canada. <i>Geophysical Prospecting</i> , 2020, 68, 62-81. | 1.0 | 22 |
| 42 | Recording marine airgun shots at offsets between 300 and 700 km. <i>Geophysical Research Letters</i> , 1991, 18, 645-648. | 1.5 | 21 |
| 43 | On Archean craton growth and stabilisation: Insights from lithospheric resistivity structure of the Superior Province. <i>Earth and Planetary Science Letters</i> , 2021, 562, 116853. | 1.8 | 21 |
| 44 | Upper mantle reflector structure and origin beneath the Scottish Caledonides. <i>Tectonics</i> , 1995, 14, 1351-1367. | 1.3 | 20 |
| 45 | Estimates of upper-crustal heterogeneity in the Baltic Shield from seismic scattering and borehole logs. <i>Tectonophysics</i> , 1998, 286, 171-183. | 0.9 | 20 |
| 46 | Two anisotropic layers in the Slave craton. <i>Lithos</i> , 2003, 71, 529-539. | 0.6 | 20 |
| 47 | Seismic reflection profiling of the Pyhäsalmi VHMS-deposit: A complementary approach to the deep base metal exploration in Finland. <i>Geophysics</i> , 2012, 77, WC15-WC23. | 1.4 | 19 |
| 48 | Deep Into the Chibougamau Area, Abitibi Greenstone Belt: Structure of a Neoproterozoic Crust Revealed by Seismic Reflection Profiling. <i>Tectonics</i> , 2020, 39, e2020TC006223. | 1.3 | 19 |
| 49 | The Hudson Bay Lithospheric Experiment (HuBLE): insights into Precambrian plate tectonics and the development of mantle keels. <i>Geological Society Special Publication</i> , 2015, 389, 41-67. | 0.8 | 18 |
| 50 | Reflections from a mylonitized zone in central Sweden. <i>Journal of Geophysical Research</i> , 1997, 102, 8411-8425. | 3.3 | 16 |
| 51 | Kimberlite trends in NW Canada. <i>Journal of the Geological Society</i> , 2005, 162, 737-740. | 0.9 | 16 |
| 52 | Does seismically anisotropic subcontinental mantle lithosphere require metasomatic wehrlite-pyroxenite dyke stockworks?. <i>Lithos</i> , 2009, 112, 961-965. | 0.6 | 16 |
| 53 | Crustal-Scale Geology and Fault Geometry Along the Gold-Endowed Matheson Transect of the Abitibi Greenstone Belt. <i>Economic Geology</i> , 2021, 116, 1053-1072. | 1.8 | 16 |
| 54 | Weakly magnetic crust in the Canadian Cordillera. <i>Earth and Planetary Science Letters</i> , 2006, 248, 476-485. | 1.8 | 14 |

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| 55 | Lithoprobe™s impact on the Canadian diamond-exploration industry This article is one of a series of papers published in this Special Issue on the theme <i>Lithoprobe â€” parameters, processes, and the evolution of a continent</i>. Earth Sciences Sector Contribution 20070261; Lithoprobe Contribution 1479.. Canadian Journal of Earth Sciences, 2010, 47, 783-800. | 0.6 | 14 |
| 56 | Broadband receiver response from dualâ€streamer data and applications in deep reflection seismology. Geophysics, 1996, 61, 232-243. | 1.4 | 14 |
| 57 | Contrasting seismic characteristics of three major faults in northwestern Canada. Canadian Journal of Earth Sciences, 2005, 42, 1223-1237. | 0.6 | 13 |
| 58 | 2D-3C high-resolution seismic data from the Abitibi Greenstone Belt, Canada. Tectonophysics, 2009, 472, 226-237. | 0.9 | 13 |
| 59 | Seismic velocities and composition of the Canadian crust. Tectonophysics, 2014, 633, 256-267. | 0.9 | 13 |
| 60 | Reflections from a relic Moho in Scotland?. Geodynamic Series, 1991, , 307-313. | 0.1 | 12 |
| 61 | Mantle roots of major Precambrian shear zones inferred from structure of the Great Slave Lake shear zone, northwest Canada. Lithosphere, 2013, 5, 539-546. | 0.6 | 12 |
| 62 | The 3â€dimensional construction of the <sc>R</sc>ae craton, central <sc>C</sc>anada. Geochemistry, Geophysics, Geosystems, 2015, 16, 3555-3574. | 1.0 | 12 |
| 63 | Magmatic, hydrothermal and ore element transfer processes of the southeastern Archean Superior Province implied from electrical resistivity structure. Gondwana Research, 2022, 105, 84-95. | 3.0 | 12 |
| 64 | Crustal and mantle reflectors from Palaeoproterozoic orogens and their relation to arc-continent collisions. Geological Society Special Publication, 1996, 112, 1-23. | 0.8 | 11 |
| 65 | Australia-Banda Arc collision as an analogue for early stages in Iapetus closure. Journal of the Geological Society, 1997, 154, 589-592. | 0.9 | 11 |
| 66 | The underestimated Proterozoic component of the Canadian Cordillera accretionary margin. Geological Society Special Publication, 2009, 318, 257-271. | 0.8 | 11 |
| 67 | Detailed processing of seismic reflection data from the frontal part of the Timor trough accretionary wedge, eastern Indonesia. Geological Society Special Publication, 1996, 106, 75-83. | 0.8 | 10 |
| 68 | Some problems in velocity analysis for marine deep seismic profiles. First Break, 1993, 11, . | 0.2 | 10 |
| 69 | The sampling of fault populations in dolerite sills of Central Sweden and implications for resolution of seismic data. Journal of Structural Geology, 1997, 19, 687-701. | 1.0 | 9 |
| 70 | Seismic reflection patterns associated with continental convergent margins through time. Tectonophysics, 2016, 692, 3-13. | 0.9 | 9 |
| 71 | Mantle composition, age and geotherm beneath the Darby kimberlite field, west central Rae Craton. Mineralogy and Petrology, 2018, 112, 57-70. | 0.4 | 9 |
| 72 | Pre-critical wide-angle reflections from the Baltic shield: evidence for a 1.8 Ga subduction complex. Tectonophysics, 1994, 232, 179-194. | 0.9 | 8 |

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|----|---|-----|-----------|
| 73 | New insights into the structure of the Sudbury Igneous Complex from downhole seismic studies. Canadian Journal of Earth Sciences, 2002, 39, 943-951. | 0.6 | 8 |
| 74 | Teleseismic studies of the Canadian landmass: Lithoprobe and its legacy This article is one of a series of papers published in this Special Issue on the theme "Lithoprobe – parameters, processes, and the evolution of a continent". ESS Contribution 20090305.. Canadian Journal of Earth Sciences, 2010, 47, 445-461. | 0.6 | 8 |
| 75 | Enhancing hardrock seismic images: Reprocessing of high resolution seismic reflection data from Vihanti, Finland. Journal of Applied Geophysics, 2013, 93, 1-11. | 0.9 | 8 |
| 76 | Geophysical evidence for local indentor tectonics in the Banda arc east of Timor. Geological Society Special Publication, 1996, 106, 61-73. | 0.8 | 7 |
| 77 | Imaging Archaean-age whole mineral systems. Precambrian Research, 2013, 229, 125-132. | 1.2 | 7 |
| 78 | Imaging Neoproterozoic crustal structures: An integrated geologic-seismic-magnetotelluric study in the western Wabigoon and Winnipeg River terranes, Superior craton. Precambrian Research, 2021, 364, 106339. | 1.2 | 7 |
| 79 | CAN-UK: An a Priori Crustal Model for the Canadian Shield. Seismological Research Letters, 2015, 86, 1374-1382. | 0.8 | 6 |
| 80 | Regional seismic wave propagation (Lg & Sn phases) in the Amerasia Basin and High Arctic. Polar Science, 2015, 9, 130-145. | 0.5 | 6 |
| 81 | Cratons, kimberlites and diamonds: selected papers of the 11th International Kimberlite Conference. Mineralogy and Petrology, 2018, 112, 1-3. | 0.4 | 6 |
| 82 | Processing of pre-critical wide-angle seismic reflection data from the BABEL project. Geophysical Journal International, 1995, 122, 1-15. | 1.0 | 5 |
| 83 | Seismic imaging across fault systems in the Abitibi greenstone belt – an analysis of pre- and post-stack migration approaches in the Chibougamau area, Quebec, Canada. Solid Earth, 2021, 12, 1143-1164. | 1.2 | 5 |
| 84 | Crustal architecture and structural evolution of a Neoproterozoic sedimentary basin: geological and geophysical evidence from Metal Earth Chicobi transect in the Abitibi Subprovince, Superior Province, Quebec, Canada. Precambrian Research, 2021, 365, 106391. | 1.2 | 5 |
| 85 | Resolution and uncertainty in lithospheric 3-D geological models. Mineralogy and Petrology, 2018, 112, 133-147. | 0.4 | 4 |
| 86 | POLARIS Update: Fall 2002. Seismological Research Letters, 2003, 74, 41-43. | 0.8 | 3 |
| 87 | Multidisciplinary Modeling of Mantle Lithosphere Structure Within the Superior Craton, North America. Geochemistry, Geophysics, Geosystems, 2021, 22, e2020GC009566. | 1.0 | 3 |
| 88 | Potential-field modelling of the prospective Chibougamau area (northeastern Abitibi subprovince,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 Earth Sciences, 2021, 58, 297-312. | 0.6 | 2 |
| 89 | Determination of Poisson's ratio from pre-critical wide-angle seismic reflection data from the BABEL project. Geophysical Journal International, 1995, 122, 16-32. | 1.0 | 1 |
| 90 | Seismic tomographic cross-sections of the Bowser Basin in northwest British Columbia, Canada. Bulletin of Canadian Petroleum Geology, 2007, 55, 275-284. | 0.3 | 1 |

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| 91 | Active and Passive Seismic Imaging of the Central Abitibi Greenstone Belt, Larder Lake, Ontario. Journal of Geophysical Research: Solid Earth, 2022, 127, . | 1.4 | 1 |
| 92 | Addressing geometrical attributes and seismic imaging capability of fault systems in a world-class metal endowed region: Abitibi Greenstone Belt, Canada. Tectonophysics, 2022, 833, 229361. | 0.9 | 1 |
| 93 | The Australian Lithosphere (Special Publication 17) Barry Drummond (Ed.), Geological Society of Australia Inc., Sydney, 1991.. Geophysical Journal International, 1993, 112, 302-302. | 1.0 | 0 |
| 94 | Resolution properties and 3-D reconstruction from multi-azimuth wide-angle data in the Baltic region. Tectonophysics, 2000, 329, 345-359. | 0.9 | 0 |
| 95 | Proterozoic prism arrests suspect terranes: Insights into the ancient Cordilleran margin from seismic reflection data: Reply. GSA Today, 2003, 13, 20. | 1.1 | 0 |