

Charlotte M Krawczyk

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5031637/publications.pdf>

Version: 2024-02-01

67
papers

2,169
citations

279701

23
h-index

243529

44
g-index

95
all docs

95
docs citations

95
times ranked

1934
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Dynamic strain determination using fibre-optic cables allows imaging of seismological and structural features. <i>Nature Communications</i> , 2018, 9, 2509. | 5.8 | 360 |
| 2 | Estimation of depth to the bottom of magnetic sources by a modified centroid method for fractal distribution of sources: An application to aeromagnetic data in Germany. <i>Geophysics</i> , 2011, 76, L11-L22. | 1.4 | 119 |
| 3 | Preserved Collisional Crustal Structure of the Southern Urals Revealed by Vibroseis Profiling. <i>Science</i> , 1996, 274, 224-226. | 6.0 | 110 |
| 4 | An integrated study of the NE German Basin. <i>Tectonophysics</i> , 1999, 314, 285-307. | 0.9 | 97 |
| 5 | Post-Variscan (end Carboniferous-Early Permian) basin evolution in Western and Central Europe. <i>Geological Society Memoir</i> , 2006, 32, 355-388. | 0.9 | 91 |
| 6 | Sinkholes in the city of Hamburg – New urban shear-wave reflection seismic system enables high-resolution imaging of subsurface structures. <i>Journal of Applied Geophysics</i> , 2012, 78, 133-143. | 0.9 | 87 |
| 7 | Geophysical assessment and geotechnical investigation of quick clay landslides – a Swedish case study. <i>Near Surface Geophysics</i> , 2013, 11, 341-352. | 0.6 | 66 |
| 8 | Crustal structure across the Colorado Basin, offshore Argentina. <i>Geophysical Journal International</i> , 2006, 165, 850-864. | 1.0 | 65 |
| 9 | Fibre optic distributed acoustic sensing of volcanic events. <i>Nature Communications</i> , 2022, 13, 1753. | 5.8 | 54 |
| 10 | Evolution of a fault surface from 3D attribute analysis and displacement measurements. <i>Journal of Structural Geology</i> , 2008, 30, 690-700. | 1.0 | 53 |
| 11 | Reflection seismic constraints on Paleozoic crustal structure and Moho beneath the NE German Basin. <i>Tectonophysics</i> , 1999, 314, 241-253. | 0.9 | 52 |
| 12 | Structure and quantification of processes controlling the evolution of the inverted NE-German Basin. <i>Marine and Petroleum Geology</i> , 2002, 19, 601-618. | 1.5 | 48 |
| 13 | Seismic evidence of Caledonian deformed crust and uppermost mantle structures in the northern part of the Trans-European Suture Zone, SW Baltic Sea. <i>Tectonophysics</i> , 2002, 360, 215-244. | 0.9 | 46 |
| 14 | Shear-wave reflection seismics as a valuable tool for near-surface urban applications. <i>The Leading Edge</i> , 2013, 32, 256-263. | 0.4 | 45 |
| 15 | Style and evolution of salt pillows and related structures in the northern part of the Northeast German Basin. <i>International Journal of Earth Sciences</i> , 2000, 89, 652-664. | 0.9 | 44 |
| 16 | Prediction of subseismic faults and fractures: Integration of three-dimensional seismic data, three-dimensional retrodeformation, and well data on an example of deformation around an inverted fault. <i>AAPG Bulletin</i> , 2008, 92, 473-485. | 0.7 | 43 |
| 17 | Strain partitioning due to salt: insights from interpretation of a 3D seismic data set in the NW German Basin. <i>Basin Research</i> , 2007, 19, 579-597. | 1.3 | 42 |
| 18 | Asymmetry of high-velocity lower crust on the South Atlantic rifted margins and implications for the interplay of magmatism and tectonics in continental breakup. <i>Solid Earth</i> , 2014, 5, 1011-1026. | 1.2 | 38 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | The formation of passive margins: constraints from the crustal structure and segmentation of the deep Galicia margin, Spain. Geological Society Special Publication, 1995, 90, 71-91. | 0.8 | 37 |
| 20 | The crustal structure of the southern Argentine margin. Geophysical Journal International, 2012, 189, 1483-1504. | 1.0 | 31 |
| 21 | Strain Associated with the Fault-Parallel Flow Algorithm During Kinematic Fault Displacement. Mathematical Geosciences, 2014, 46, 59-73. | 1.4 | 31 |
| 22 | Cyclical geothermal unrest as a precursor to Iceland's 2021 Fagradalsfjall eruption. Nature Geoscience, 2022, 15, 397-404. | 5.4 | 29 |
| 23 | Detachment tectonics during Atlantic rifting: analysis and interpretation of the S reflection, the west Galicia margin. Geological Society Special Publication, 1995, 90, 93-109. | 0.8 | 25 |
| 24 | 18. High-Resolution SH-Wave Seismic Reflection for Characterization of Onshore Ground Conditions in the Trondheim Harbor, Central Norway. , 2010, , 297-312. | | 23 |
| 25 | Geophysical constraints on exhumation mechanisms of high-pressure rocks: the Saxo-Thuringian case between the Franconian Line and Elbe Zone. Geological Society Special Publication, 2000, 179, 303-322. | 0.8 | 21 |
| 26 | Performance of piezoelectric transducers in terms of amplitude and waveform. Geophysics, 2009, 74, T33-T45. | 1.4 | 21 |
| 27 | High-resolution shear-wave seismic reflection as a tool to image near-surface subsrosion structures – a case study in Bad Frankenhausen, Germany. Solid Earth, 2016, 7, 1491-1508. | 1.2 | 21 |
| 28 | Shear wave reflection seismic yields subsurface dissolution and subsrosion patterns: application to the Ghor Al-Haditha sinkhole site, Dead Sea, Jordan. Solid Earth, 2018, 9, 1079-1098. | 1.2 | 20 |
| 29 | On the comparison of strain measurements from fibre optics with a dense seismometer array at Etna volcano (Italy). Solid Earth, 2021, 12, 993-1003. | 1.2 | 20 |
| 30 | Anomalies of the Earth's total magnetic field in Germany - the first complete homogenous data set reveals new opportunities for multiscale geoscientific studies. Geophysical Journal International, 2011, 184, 1113-1118. | 1.0 | 19 |
| 31 | Near-surface fault detection using high-resolution shear wave reflection seismics at the CO2CRC Otway Project site, Australia. Journal of Geophysical Research: Solid Earth, 2016, 121, 6510-6532. | 1.4 | 19 |
| 32 | Structural analysis of S-wave seismics around an urban sinkhole: evidence of enhanced dissolution in a strike-slip fault zone. Natural Hazards and Earth System Sciences, 2017, 17, 2335-2350. | 1.5 | 18 |
| 33 | Survey provides seismic insights into an old suture zone. Eos, 1998, 79, 151-151. | 0.1 | 17 |
| 34 | Tectono-sedimentary evolution of the northernmost margin of the NE German Basin between uppermost Carboniferous and Late Permian (Rotliegend). Geological Journal, 2001, 36, 19-37. | 0.6 | 17 |
| 35 | Coherent diffraction imaging for enhanced fault and fracture network characterization. Solid Earth, 2020, 11, 1891-1907. | 1.2 | 17 |
| 36 | 3-D seismic analysis of a carbonate platform in the Molasse Basin - reef distribution and internal separation with seismic attributes. Tectonophysics, 2012, 572-573, 16-25. | 0.9 | 16 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 37 | Fault-controlled lithospheric detachment of the volcanic southern Atlantic rift. <i>Geochemistry, Geophysics, Geosystems</i> , 2016, 17, 887-894. | 1.0 | 16 |
| 38 | Geological structure and kinematics of normal faults in the Otway Basin, Australia, based on quantitative analysis of seismic reflection data. <i>Basin Research</i> , 2017, 29, 129-148. | 1.3 | 16 |
| 39 | Cable reverberations during wireline distributed acoustic sensing measurements: their nature and methods for elimination. <i>Geophysical Prospecting</i> , 2021, 69, 1034-1054. | 1.0 | 16 |
| 40 | Quantitative fracture prediction from seismic data. <i>Petroleum Geoscience</i> , 2008, 14, 369-377. | 0.9 | 15 |
| 41 | Effects of mass-wasting on the stratigraphic architecture of a fjord-valley fill: Correlation of onshore, shear-wave seismic and marine seismic data at Trondheim, Norway. <i>Sedimentary Geology</i> , 2013, 289, 1-18. | 1.0 | 14 |
| 42 | Caledonian tectonics. , 0, , 303-381. | | 14 |
| 43 | Restoration of the Cretaceous uplift of the Harz Mountains, North Germany: evidence for the geometry of a thick-skinned thrust. <i>International Journal of Earth Sciences</i> , 2017, 106, 2963-2972. | 0.9 | 13 |
| 44 | 3-D seismic exploration across the deep geothermal research platform Groÿ-Schnebeck north of Berlin/Germany. <i>Geothermal Energy</i> , 2019, 7, . | 0.9 | 13 |
| 45 | Dynamics of hydrological and geomorphological processes in evaporite karst at the eastern Dead Sea – a multidisciplinary study. <i>Hydrology and Earth System Sciences</i> , 2021, 25, 3351-3395. | 1.9 | 13 |
| 46 | Basement control on oblique thrust sheet evolution: seismic imaging of the active deformation front of the Central Andes in Bolivia. <i>Tectonophysics</i> , 2002, 355, 23-39. | 0.9 | 12 |
| 47 | Wavelet transform-based seismic facies classification and modelling: application to a geothermal target horizon in the NE German Basin. <i>Geophysical Prospecting</i> , 2020, 68, 466-482. | 1.0 | 12 |
| 48 | Seismic imaging of sandbox experiments – laboratory hardware setup and first reflection seismic sections. <i>Solid Earth</i> , 2013, 4, 93-104. | 1.2 | 11 |
| 49 | Pore-scale tomography and imaging: applications, techniques and recommended practice. <i>Solid Earth</i> , 2016, 7, 1141-1143. | 1.2 | 11 |
| 50 | Structural Evolution at the Northeast North German Basin Margin: From Initial Triassic Salt Movement to Late Cretaceous-Cenozoic Remobilization. <i>Tectonics</i> , 2020, 39, e2019TC005927. | 1.3 | 11 |
| 51 | Zero-Offset VSP Monitoring of CO ₂ Storage: Impedance Inversion and Wedge Modelling at the Ketzin Pilot Site. <i>International Journal of Geophysics</i> , 2014, 2014, 1-15. | 0.4 | 10 |
| 52 | Seismic and Sub-seismic Deformation Prediction in the Context of Geological Carbon Trapping and Storage. <i>Advanced Technologies in Earth Sciences</i> , 2015, , 97-113. | 0.9 | 10 |
| 53 | The Trans-European Fault: a critical reassessment. <i>Geological Magazine</i> , 2001, 138, 19-29. | 0.9 | 9 |
| 54 | Evaluation of controlling factors on facies distribution and evolution in an arid continental environment: an example from the Rotliegendes of the NE German Basin. <i>Geological Society Special Publication</i> , 2003, 208, 71-94. | 0.8 | 9 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 55 | Local Earthquake Tomography at Los Humeros Geothermal Field (Mexico). <i>Journal of Geophysical Research: Solid Earth</i> , 2020, 125, e2020JB020390. | 1.4 | 9 |
| 56 | Integration of SH seismic reflection and Love-wave dispersion data for shear wave velocity determination over quick clays. <i>Geophysical Journal International</i> , 2017, 210, 1922-1931. | 1.0 | 8 |
| 57 | Optimized experimental network design for earthquake location problems: Applications to geothermal and volcanic field seismic networks. <i>Journal of Volcanology and Geothermal Research</i> , 2020, 391, 106433. | 0.8 | 8 |
| 58 | Wireline distributed acoustic sensing allows 4.2â€‰km deep vertical seismic profiling of the Rotliegend 150â€‰Â°C geothermal reservoir in the North German Basin. <i>Solid Earth</i> , 2021, 12, 521-537. | 1.2 | 8 |
| 59 | Fault imaging in sparsely sampled 3D seismic data using commonâ€œreflectionâ€œsurface processing and attribute analysis â€œ a study in the Upper Rhine Graben. <i>Geophysical Prospecting</i> , 2014, 62, 443-452. | 1.0 | 6 |
| 60 | Salt tectonics of the eastern border of the Leinetal Graben, Lower Saxony, Germany, as deduced from seismic reflection data. <i>Interpretation</i> , 2015, 3, T169-T181. | 0.5 | 6 |
| 61 | Finite-difference modelling to evaluate seismic P-wave and shear-wave field data. <i>Solid Earth</i> , 2015, 6, 33-47. | 1.2 | 5 |
| 62 | Seismic anisotropy of Opalinus Clay: tomographic investigations using the infrastructure of an underground rock laboratory (URL). <i>Swiss Journal of Geosciences</i> , 2021, 114, . | 0.5 | 5 |
| 63 | Subseismic pathway prediction by three-dimensional structural restoration and strain analysis based on seismic interpretation. <i>AAPG Bulletin</i> , 2019, 103, 2317-2342. | 0.7 | 3 |
| 64 | Dynamic motion monitoring of a 3.6â€‰km long steel rod in a borehole during cold-water injection with distributed fiber-optic sensing. <i>Solid Earth</i> , 2022, 13, 161-176. | 1.2 | 3 |
| 65 | Fiber Optic Distributed Strain Sensing for Seismic Applications. <i>Encyclopedia of Earth Sciences Series</i> , 2020, , 1-5. | 0.1 | 1 |
| 66 | Preface: From orogenesis to geoscience in the service of society: the scientific legacy of Prof.ÂAndrÃ©s PÃ©rez-EstaÃ±n. <i>Solid Earth</i> , 2016, 7, 1199-1205. | 1.2 | 0 |
| 67 | Fiber Optic Distributed Strain Sensing for Seismic Applications. <i>Encyclopedia of Earth Sciences Series</i> , 2021, , 379-383. | 0.1 | 0 |