# Sanne Cottaar

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/7417032/publications.pdf

Version: 2024-02-01

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|---|---|---|---|
| 27 papers | 1,195 citations | 516710 16 h-index | 414414 32 g-index |
| 42 all docs | 42 docs citations | 42 times ranked | 1001 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Kilometer-scale structure on the coreâ€“mantle boundary near Hawaii. Nature Communications, 2022, 13, 2787. | 12.8 | 11 |
| 2 | Insights Into Deep Mantle Thermochemical Contributions to African Magmatism From Converted Seismic Phases. Geochemistry, Geophysics, Geosystems, 2021, 22, e2020GC009478. | 2.5 | 11 |
| 3 | AFRP20: New Pâ€Wavespeed Model for the African Mantle Reveals Two Wholeâ€Mantle Plumes Below East Africa and Neoproterozoic Modification of the Tanzania Craton. Geochemistry, Geophysics, Geosystems, 2021, 22, e2020GC009302. | 2.5 | 29 |
| 4 | Global receiver function observations of the X-discontinuity reveal recycled basalt beneath hotspots. Earth and Planetary Science Letters, 2021, 561, 116813. | 4.4 | 16 |
| 5 | A high-resolution map of Hawaiian ULVZ morphology from ScS phases. Earth and Planetary Science Letters, 2021, 563, 116885. | 4.4 | 17 |
| 6 | The morphology, evolution and seismic visibility of partial melt at the coreâ€“mantle boundary: implications for ULVZs. Geophysical Journal International, 2021, 227, 1028-1059. | 2.4 | 11 |
| 7 | The interior of Mars revealed. Science, 2021, 373, 388-389. | 12.6 | 3 |
| 8 | Geochemical Constraints on the Structure of the Earth's Deep Mantle and the Origin of the LLSVPs. Geochemistry, Geophysics, Geosystems, 2021, 22, e2021GC009932. | 2.5 | 6 |
| 9 | The Transition Zone Beneath West Argentinaâ€Central Chile Using P â€toâ€•S Converted Waves. Journal of Geophysical Research: Solid Earth, 2020, 125, e2020JB019446. | 3.4 | 0 |
| 10 | Effects of Heatâ€Producing Elements on the Stability of Deep Mantle Thermochemical Piles. Geochemistry, Geophysics, Geosystems, 2020, 21, e2019GC008895. | 2.5 | 9 |
| 11 | Receiver function mapping of mantle transition zone discontinuities beneath Alaska using scaled 3-D velocity corrections. Geophysical Journal International, 2019, 219, 1432-1446. | 2.4 | 18 |
| 12 | X-discontinuity and transition zone structure beneath Hawaii suggests a heterogeneous plume. Earth and Planetary Science Letters, 2019, 527, 115781. | 4.4 | 19 |
| 13 | A Refined Approach to Model Anisotropy in the Lowermost Mantle. IOP Conference Series: Materials Science and Engineering, 2018, 375, 012002. | 0.6 | 3 |
| 14 | Seismically determined elastic parameters for Earthâ€™s outer core. Science Advances, 2018, 4, eaar2538. | 10.3 | 60 |
| 15 | Crustal Formation on a Spreading Ridge Above a Mantle Plume: Receiver Function Imaging of the Icelandic Crust. Journal of Geophysical Research: Solid Earth, 2018, 123, 5190-5208. | 3.4 | 23 |
| 16 | Converted phases from sharp 1000 km depth mid-mantle heterogeneity beneath Western Europe. Earth and Planetary Science Letters, 2017, 459, 196-207. | 4.4 | 48 |
| 17 | Morphology of seismically slow lower-mantle structures. Geophysical Journal International, 2016, 207, 1122-1136. | 2.4 | 110 |
| 18 | Largeâ€scale mantle discontinuity topography beneath Europe: Signature of akimotoite in subducting slabs. Journal of Geophysical Research: Solid Earth, 2016, 121, 279-292. | 3.4 | 40 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Depressed mantle discontinuities beneath Iceland: Evidence of a garnet controlled 660 km discontinuity?. Earth and Planetary Science Letters, 2016, 433, 159-168. | 4.4 | 57 |
| 20 | High-pressure, temperature elasticity of Fe- and Al-bearing MgSiO3: Implications for the Earth's lower mantle. Earth and Planetary Science Letters, 2016, 434, 264-273. | 4.4 | 32 |
| 21 | Synthetic seismic anisotropy models within a slab impinging on the coreâ€“mantle boundary. Geophysical Journal International, 2014, 199, 164-177. | 2.4 | 34 |
| 22 | BurnMan: A lower mantle mineral physics toolkit. Geochemistry, Geophysics, Geosystems, 2014, 15, 1164-1179. | 2.5 | 89 |
| 23 | Observations of changing anisotropy across the southern margin of the African LLSVP. Geophysical Journal International, 2013, 195, 1184-1195. | 2.4 | 55 |
| 24 | Convection in the Earthâ€™s inner core. Physics of the Earth and Planetary Interiors, 2012, 198-199, 67-78. | 1.9 | 32 |
| 25 | An unsually large ULVZ at the base of the mantle near Hawaii. Earth and Planetary Science Letters, 2012, 355-356, 213-222. | 4.4 | 108 |
| 26 | Cluster analysis of global lower mantle tomography: A new class of structure and implications for chemical heterogeneity. Earth and Planetary Science Letters, 2012, 357-358, 68-77. | 4.4 | 270 |
| 27 | Deformation in the lowermost mantle: From polycrystal plasticity to seismic anisotropy. Earth and Planetary Science Letters, 2011, 306, 33-45. | 4.4 | 54 |