

# Donald Argus

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3722071/publications.pdf>

Version: 2024-02-01

49  
papers

13,705  
citations

126907

33  
h-index

197818

49  
g-index

50  
all docs

50  
docs citations

50  
times ranked

8641  
citing authors

| #  | ARTICLE                                                                                                                                                                                                                                  | IF   | CITATIONS |
|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 1  | Current plate motions. <i>Geophysical Journal International</i> , 1990, 101, 425-478.                                                                                                                                                    | 2.4  | 3,443     |
| 2  | Effect of recent revisions to the geomagnetic reversal time scale on estimates of current plate motions. <i>Geophysical Research Letters</i> , 1994, 21, 2191-2194.                                                                      | 4.0  | 2,961     |
| 3  | Geologically current plate motions. <i>Geophysical Journal International</i> , 2010, 181, 1-80.                                                                                                                                          | 2.4  | 2,076     |
| 4  | Space geodesy constrains ice age terminal deglaciation: The global ICE-6G_C (VM5a) model. <i>Journal of Geophysical Research: Solid Earth</i> , 2015, 120, 450-487.                                                                      | 3.4  | 890       |
| 5  | Geologically current motion of 56 plates relative to the no-net-rotation reference frame. <i>Geochemistry, Geophysics, Geosystems</i> , 2011, 12, n/a-n/a.                                                                               | 2.5  | 455       |
| 6  | The Antarctica component of postglacial rebound model ICE-6G_C (VM5a) based on GPS positioning, exposure age dating of ice thicknesses, and relative sea level histories. <i>Geophysical Journal International</i> , 2014, 198, 537-563. | 2.4  | 365       |
| 7  | No-net-rotation model of current plate velocities incorporating plate motion model NUVEL1. <i>Geophysical Research Letters</i> , 1991, 18, 2039-2042.                                                                                    | 4.0  | 355       |
| 8  | Comment on "An Assessment of the ICE-6G_C (VM5a) Glacial Isostatic Adjustment Model" by Purcell et al.. <i>Journal of Geophysical Research: Solid Earth</i> , 2018, 123, 2019-2028.                                                      | 3.4  | 232       |
| 9  | The angular velocities of the plates and the velocity of Earth's centre from space geodesy. <i>Geophysical Journal International</i> , 2010, 180, 913-960.                                                                               | 2.4  | 221       |
| 10 | Seasonal variation in total water storage in California inferred from GPS observations of vertical land motion. <i>Geophysical Research Letters</i> , 2014, 41, 1971-1980.                                                               | 4.0  | 220       |
| 11 | GRACE Groundwater Drought Index: Evaluation of California Central Valley groundwater drought. <i>Remote Sensing of Environment</i> , 2017, 198, 384-392.                                                                                 | 11.0 | 196       |
| 12 | Present tectonic motion across the Coast Ranges and San Andreas fault system in central California. <i>Bulletin of the Geological Society of America</i> , 2001, 113, 1580-1592.                                                         | 3.3  | 181       |
| 13 | Current Sierra Nevada-North America motion from very long baseline interferometry: Implications for the kinematics of the western United States. <i>Geology</i> , 1991, 19, 1085.                                                        | 4.4  | 176       |
| 14 | GPS as an independent measurement to estimate terrestrial water storage variations in Washington and Oregon. <i>Journal of Geophysical Research: Solid Earth</i> , 2015, 120, 552-566.                                                   | 3.4  | 136       |
| 15 | A revised estimate of Pacific-North America motion and implications for Western North America Plate boundary zone tectonics. <i>Geophysical Research Letters</i> , 1987, 14, 911-914.                                                    | 4.0  | 133       |
| 16 | Kinematic constraints on distributed lithospheric deformation in the equatorial Indian Ocean from present motion between the Australian and Indian Plates. <i>Tectonics</i> , 1990, 9, 409-422.                                          | 2.8  | 126       |
| 17 | Plate motion and crustal deformation estimated with geodetic data from the Global Positioning System. <i>Geophysical Research Letters</i> , 1995, 22, 1973-1976.                                                                         | 4.0  | 122       |
| 18 | Sustained Water Loss in California's Mountain Ranges During Severe Drought From 2012 to 2015 Inferred From GPS. <i>Journal of Geophysical Research: Solid Earth</i> , 2017, 122, 10,559.                                                 | 3.4  | 115       |

| #  | ARTICLE                                                                                                                                                                                                                             | IF   | CITATIONS |
|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 19 | Interseismic strain accumulation and anthropogenic motion in metropolitan Los Angeles. <i>Journal of Geophysical Research</i> , 2005, 110, .                                                                                        | 3.3  | 95        |
| 20 | Sustained Groundwater Loss in California's Central Valley Exacerbated by Intense Drought Periods. <i>Water Resources Research</i> , 2018, 54, 4449-4460.                                                                            | 4.2  | 95        |
| 21 | Tests of the rigid-plate hypothesis and bounds on intraplate deformation using geodetic data from very long baseline interferometry. <i>Journal of Geophysical Research</i> , 1996, 101, 13555-13572.                               | 3.3  | 87        |
| 22 | Horizontal motion in elastic response to seasonal loading of rain water in the Amazon Basin and monsoon water in Southeast Asia observed by GPS and inferred from GRACE. <i>Geophysical Research Letters</i> , 2013, 40, 6048-6053. | 4.0  | 87        |
| 23 | Defining the translational velocity of the reference frame of Earth. <i>Geophysical Journal International</i> , 2007, 169, 830-838.                                                                                                 | 2.4  | 72        |
| 24 | Large-scale global surface mass variations inferred from GPS measurements of load-induced deformation. <i>Geophysical Research Letters</i> , 2003, 30, .                                                                            | 4.0  | 68        |
| 25 | Constraining models of postglacial rebound using space geodesy: a detailed assessment of model ICE-5G (VM2) and its relatives. <i>Geophysical Journal International</i> , 2010, , .                                                 | 2.4  | 65        |
| 26 | Tracking the weight of Hurricane Harvey's stormwater using GPS data. <i>Science Advances</i> , 2018, 4, eaau2477.                                                                                                                   | 10.3 | 62        |
| 27 | Aquifer Mechanical Properties and Decelerated Compaction in Tucson, Arizona. <i>Journal of Geophysical Research: Solid Earth</i> , 2017, 122, 8402-8416.                                                                            | 3.4  | 53        |
| 28 | Glacial isostatic adjustment observed using very long baseline interferometry and satellite laser ranging geodesy. <i>Journal of Geophysical Research</i> , 1999, 104, 29077-29093.                                                 | 3.3  | 51        |
| 29 | Statistical tests for closure of plate motion circuits. <i>Geophysical Research Letters</i> , 1987, 14, 587-590.                                                                                                                    | 4.0  | 49        |
| 30 | Shortening and thickening of metropolitan Los Angeles measured and inferred by using geodesy. <i>Geology</i> , 1999, 27, 703.                                                                                                       | 4.4  | 45        |
| 31 | The angular velocity of Nubia relative to Somalia and the location of the Nubia-Somalia-Antarctica triple junction. <i>Geophysical Journal International</i> , 2005, 162, 221-238.                                                  | 2.4  | 45        |
| 32 | Multivariate analysis of GPS position time series of JPL second reprocessing campaign. <i>Journal of Geodesy</i> , 2017, 91, 685-704.                                                                                               | 3.6  | 40        |
| 33 | Uncertainty in the velocity between the mass center and surface of Earth. <i>Journal of Geophysical Research</i> , 2012, 117, .                                                                                                     | 3.3  | 39        |
| 34 | Postglacial rebound from VLBI geodesy: On establishing vertical reference. <i>Geophysical Research Letters</i> , 1996, 23, 973-976.                                                                                                 | 4.0  | 33        |
| 35 | Downscaling Vertical GPS Observations to Derive Watershed-Scale Hydrologic Loading in the Northern Rockies. <i>Water Resources Research</i> , 2019, 55, 391-401.                                                                    | 4.2  | 30        |
| 36 | A Review of GNSS/GPS in Hydrogeodesy: Hydrologic Loading Applications and Their Implications for Water Resource Research. <i>Water Resources Research</i> , 2022, 58, .                                                             | 4.2  | 30        |

| #  | ARTICLE                                                                                                                                                                                                                                         | IF  | CITATIONS |
|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 37 | An estimate of motion between the spin axis and the hotspots over the past century. <i>Geophysical Research Letters</i> , 2004, 31, n/a-n/a.                                                                                                    | 4.0 | 29        |
| 38 | Rise of the Ellsworth mountains and parts of the East Antarctic coast observed with GPS. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.                                                                                               | 4.0 | 28        |
| 39 | The coseismic geodetic signature of the 1999 Hector Mine earthquake. <i>Geophysical Research Letters</i> , 2000, 27, 2733-2736.                                                                                                                 | 4.0 | 26        |
| 40 | Atmospheric pressure loading in GPS positions: dependency on GPS processing methods and effect on assessment of seasonal deformation in the contiguous USA and Alaska. <i>Journal of Geodesy</i> , 2020, 94, 1.                                 | 3.6 | 25        |
| 41 | Comparison of a GPS-defined global reference frame with ITRF2000. <i>GPS Solutions</i> , 2002, 6, 72-75.                                                                                                                                        | 4.3 | 23        |
| 42 | Glacial isostatic adjustment observed using very long baseline interferometry and satellite laser ranging geodesy. <i>Journal of Geophysical Research</i> , 1999, 104, 29077-29094.                                                             | 3.3 | 23        |
| 43 | External Evaluation of the Terrestrial Reference Frame: Report of the Task Force of the IAG Sub-commission 1.2. <i>International Association of Geodesy Symposia</i> , 2014, , 197-202.                                                         | 0.4 | 20        |
| 44 | The Viscosity of the Top Third of the Lower Mantle Estimated Using GPS, GRACE, and Relative Sea Level Measurements of Glacial Isostatic Adjustment. <i>Journal of Geophysical Research: Solid Earth</i> , 2021, 126, e2020JB021537.             | 3.4 | 20        |
| 45 | Rise of Great Lakes Surface Water, Sinking of the Upper Midwest of the United States, and Viscous Collapse of the Forebulge of the Former Laurentide Ice Sheet. <i>Journal of Geophysical Research: Solid Earth</i> , 2020, 125, e2020JB019739. | 3.4 | 19        |
| 46 | Space geodetic test of kinematic models for the Indo-Australian composite plate. <i>Geology</i> , 2008, 36, 827.                                                                                                                                | 4.4 | 14        |
| 47 | Interseismic Strain Accumulation on Faults Beneath Los Angeles, California. <i>Journal of Geophysical Research: Solid Earth</i> , 2018, 123, 7126.                                                                                              | 3.4 | 11        |
| 48 | Site velocities before and after the Loma Prieta and Gulf of Alaska earthquakes determined from VLBI. <i>Geophysical Research Letters</i> , 1994, 21, 333-336.                                                                                  | 4.0 | 10        |
| 49 | Constraints on interseismic deformation at Japan Trench from VLBI data. <i>Geophysical Research Letters</i> , 1993, 20, 611-614.                                                                                                                | 4.0 | 8         |