

Simon McClusky

List of Publications by Year in descending order

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67
papers

8,723
citations

76196

40
h-index

102304

66
g-index

69
all docs

69
docs citations

69
times ranked

4728
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | GPS constraints on continental deformation in the Africa-Arabia-Eurasia continental collision zone and implications for the dynamics of plate interactions. <i>Journal of Geophysical Research</i> , 2006, 111, n/a-n/a. | 3.3 | 1,421 |
| 2 | Global Positioning System constraints on plate kinematics and dynamics in the eastern Mediterranean and Caucasus. <i>Journal of Geophysical Research</i> , 2000, 105, 5695-5719. | 3.3 | 1,168 |
| 3 | Global Positioning System constraints on plate kinematics and dynamics in the eastern Mediterranean and Caucasus. <i>Journal of Geophysical Research</i> , 2000, 105, 5695-5719. | 3.3 | 642 |
| 4 | GPS constraints on Africa (Nubia) and Arabia plate motions. <i>Geophysical Journal International</i> , 2003, 155, 126-138. | 1.0 | 597 |
| 5 | Global Positioning System measurements of present-day crustal movements in the Arabia-Africa-Eurasia plate collision zone. <i>Journal of Geophysical Research</i> , 1997, 102, 9983-9999. | 3.3 | 565 |
| 6 | Coseismic and Postseismic Fault Slip for the 17 August 1999, M = 7.5, Izmit, Turkey Earthquake. <i>Science</i> , 2000, 289, 1519-1524. | 6.0 | 273 |
| 7 | Geodetic constraints on the tectonic evolution of the Aegean region and strain accumulation along the Hellenic subduction zone. <i>Tectonophysics</i> , 2010, 488, 22-30. | 0.9 | 263 |
| 8 | Estimates of Seismic Potential in the Marmara Sea Region from Block Models of Secular Deformation Constrained by Global Positioning System Measurements. <i>Bulletin of the Seismological Society of America</i> , 2002, 92, 208-215. | 1.1 | 200 |
| 9 | Time-Dependent Distributed Afterslip on and Deep below the Izmit Earthquake Rupture. <i>Bulletin of the Seismological Society of America</i> , 2002, 92, 126-137. | 1.1 | 179 |
| 10 | Geodetic constraints on present-day motion of the Arabian Plate: Implications for Red Sea and Gulf of Aden rifting. <i>Tectonics</i> , 2010, 29, . | 1.3 | 174 |
| 11 | New GPS constraints on active deformation along the Africa-Iberia plate boundary. <i>Earth and Planetary Science Letters</i> , 2011, 308, 211-217. | 1.8 | 152 |
| 12 | A new velocity field for Greece: Implications for the kinematics and dynamics of the Aegean. <i>Journal of Geophysical Research</i> , 2010, 115, . | 3.3 | 144 |
| 13 | The strain rate field in the eastern Mediterranean region, estimated by repeated GPS measurements. <i>Tectonophysics</i> , 1998, 294, 237-252. | 0.9 | 142 |
| 14 | Present day kinematics of the Eastern California Shear Zone from a geodetically constrained block model. <i>Geophysical Research Letters</i> , 2001, 28, 3369-3372. | 1.5 | 139 |
| 15 | Istanbul's earthquake hot spots: Geodetic constraints on strain accumulation along faults in the Marmara seismic gap. <i>Geophysical Research Letters</i> , 2014, 41, 5783-5788. | 1.5 | 136 |
| 16 | Kinematics of the southern Red Sea-Afar Triple Junction and implications for plate dynamics. <i>Geophysical Research Letters</i> , 2010, 37, . | 1.5 | 132 |
| 17 | Deformation during the 12 November 1999 Duzce, Turkey, Earthquake, from GPS and InSAR Data. <i>Bulletin of the Seismological Society of America</i> , 2002, 92, 161-171. | 1.1 | 126 |
| 18 | Nubia-Arabia-Eurasia plate motions and the dynamics of Mediterranean and Middle East tectonics. <i>Geophysical Journal International</i> , 2011, 186, 971-979. | 1.0 | 126 |

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|----|---|-----|-----------|
| 19 | Active tectonics of the western Mediterranean: Geodetic evidence for rollback of a delaminated subcontinental lithospheric slab beneath the Rif Mountains, Morocco. <i>Geology</i> , 2006, 34, 529. | 2.0 | 122 |
| 20 | Izmit earthquake postseismic deformation and dynamics of the North Anatolian Fault Zone. <i>Journal of Geophysical Research</i> , 2009, 114, . | 3.3 | 117 |
| 21 | GPS evidence for northward motion of the Sinai Block: Implications for E. Mediterranean tectonics. <i>Earth and Planetary Science Letters</i> , 2005, 238, 217-224. | 1.8 | 116 |
| 22 | Global Positioning System measurements of strain accumulation and slip transfer through the restraining bend along the Dead Sea fault system in Lebanon. <i>Geophysical Journal International</i> , 2007, 168, 1021-1028. | 1.0 | 106 |
| 23 | Geodetic constraints on active tectonics of the Western Mediterranean: Implications for the kinematics and dynamics of the Nubia-Eurasia plate boundary zone. <i>Journal of Geodynamics</i> , 2010, 49, 123-129. | 0.7 | 99 |
| 24 | The kinematics of crustal deformation in Java from GPS observations: Implications for fault slip partitioning. <i>Earth and Planetary Science Letters</i> , 2017, 458, 69-79. | 1.8 | 99 |
| 25 | Seven years of postseismic deformation following the 1999, $M = 7.4$ and $M = 7.2$, Izmit earthquake sequence. <i>Journal of Geophysical Research</i> , 2009, 114, . | 3.3 | 90 |
| 26 | Lithospheric strength and strain localization in continental extension from observations of the East African Rift. <i>Journal of Geophysical Research</i> , 2012, 117, . | 3.3 | 87 |
| 27 | Crustal strain partitioning and the associated earthquake hazard in the eastern Sunda-Banda Arc. <i>Geophysical Research Letters</i> , 2016, 43, 1943-1949. | 1.5 | 85 |
| 28 | Estimating Slip Distribution for the Izmit Mainshock from Coseismic GPS, ERS-1, RADARSAT, and SPOT Measurements. <i>Bulletin of the Seismological Society of America</i> , 2002, 92, 138-160. | 1.1 | 80 |
| 29 | Crustal deformation in northwestern Arabia from GPS measurements in Syria: Slow slip rate along the northern Dead Sea Fault. <i>Geophysical Journal International</i> , 2010, 180, 125-135. | 1.0 | 78 |
| 30 | Distributed Nubia-Somalia relative motion and dike intrusion in the Main Ethiopian Rift. <i>Geophysical Journal International</i> , 2006, 165, 303-310. | 1.0 | 77 |
| 31 | Geodetic evidence for low coupling on the Hellenic subduction plate interface. <i>Earth and Planetary Science Letters</i> , 2014, 385, 122-129. | 1.8 | 73 |
| 32 | Postseismic Deformation near the Izmit Earthquake (17 August 1999, $M 7.5$) Rupture Zone. <i>Bulletin of the Seismological Society of America</i> , 2002, 92, 194-207. | 1.1 | 69 |
| 33 | Active surface deformation and sub-lithospheric processes in the western Mediterranean constrained by numerical models. <i>Geology</i> , 2010, 38, 823-826. | 2.0 | 58 |
| 34 | The GPS strain rate field in the Aegean Sea and western Anatolia. <i>Geophysical Research Letters</i> , 1999, 26, 2513-2516. | 1.5 | 54 |
| 35 | A decade of horizontal deformation from great earthquakes. <i>Journal of Geophysical Research: Solid Earth</i> , 2013, 118, 2371-2381. | 1.4 | 54 |
| 36 | Relation of ongoing deformation rates to the subduction zone process in southern Alaska. <i>Geophysical Research Letters</i> , 1997, 24, 2853-2856. | 1.5 | 49 |

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|----|---|-----|-----------|
| 37 | Preliminary estimates of plate convergence in the Caucasus Collision Zone from global positioning system measurements. <i>Geophysical Research Letters</i> , 1997, 24, 1815-1818. | 1.5 | 47 |
| 38 | Kinematics of the Mw=7.2, 12 November 1999, Düzce, Turkey Earthquake. <i>Geophysical Research Letters</i> , 2001, 28, 367-370. | 1.5 | 43 |
| 39 | Mouvements actuels des blocs tectoniques dans le Maroc Bédouien à partir des mesures GPS entre 1999 et 2005. <i>Comptes Rendus - Geoscience</i> , 2008, 340, 400-413. | 0.4 | 43 |
| 40 | Estimation of offsets in GPS time-series and application to the detection of earthquake deformation in the far-field. <i>Geophysical Journal International</i> , 2015, 200, 1207-1221. | 1.0 | 41 |
| 41 | Extracting White Noise Statistics in GPS Coordinate Time Series. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2013, 10, 563-567. | 1.4 | 37 |
| 42 | GPS constraints on active deformation in the Isparta Angle region of SW Turkey. <i>Geophysical Journal International</i> , 2013, 195, 1455-1463. | 1.0 | 37 |
| 43 | A model of the western Laurentide Ice Sheet, using observations of glacial isostatic adjustment. <i>Quaternary Science Reviews</i> , 2016, 139, 1-16. | 1.4 | 37 |
| 44 | Crustal deformation measured in Southern California. <i>Eos</i> , 1997, 78, 477. | 0.1 | 36 |
| 45 | The Al Hoceima (Morocco) earthquake of 24 February 2004, analysis and interpretation of data from ENVISAT ASAR and SPOT5 validated by ground-based observations. <i>Remote Sensing of Environment</i> , 2009, 113, 306-316. | 4.6 | 35 |
| 46 | New Insights into the present-day kinematics of the central and western Papua New Guinea from GPS. <i>Geophysical Journal International</i> , 2015, 202, 993-1004. | 1.0 | 33 |
| 47 | Empirical modelling of site-specific errors in continuous GPS data. <i>Journal of Geodesy</i> , 2014, 88, 887-900. | 1.6 | 30 |
| 48 | Active tectonics of the Black Sea with GPS. <i>Earth, Planets and Space</i> , 2000, 52, 747-751. | 0.9 | 28 |
| 49 | Relationship between glacial isostatic adjustment and gravity perturbations observed by GRACE. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a. | 1.5 | 25 |
| 50 | Slow slip events and the 2016 Te Araroa M_w 7.1 earthquake interaction: Northern Hikurangi subduction, New Zealand. <i>Geophysical Research Letters</i> , 2017, 44, 8336-8344. | 1.5 | 22 |
| 51 | A directional model of tropospheric horizontal gradients in Global Positioning System and its application for particular weather scenarios. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 4401-4425. | 1.2 | 18 |
| 52 | Geodetic Constraints on the Geodynamic Evolution of the Red Sea. <i>Springer Earth System Sciences</i> , 2015, , 135-149. | 0.1 | 18 |
| 53 | Postseismic deformation following the 1991 Racha, Georgia, earthquake. <i>Geophysical Research Letters</i> , 2007, 34, . | 1.5 | 14 |
| 54 | The ANU GRACE visualisation web portal. <i>Computers and Geosciences</i> , 2013, 52, 227-233. | 2.0 | 11 |

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|----|---|-----|-----------|
| 55 | Regional Ionospheric Corrections for High Accuracy GNSS Positioning. Remote Sensing, 2022, 14, 2463. | 1.8 | 9 |
| 56 | The Papua New Guinea Satellite Crustal Motion Surveys. Journal of Spatial Science, 1994, 39, 194-214. | 0.1 | 8 |
| 57 | Lineaments and earthquake ruptures on the East Japan megathrust. Lithosphere, 2018, 10, 512-522. | 0.6 | 8 |
| 58 | ANU GRACE Data Analysis: Orbit Modeling, Regularization and Inter-satellite Range Acceleration Observations. Journal of Geophysical Research: Solid Earth, 2022, 127, . | 1.4 | 8 |
| 59 | Instantaneous Best Integer Equivariant Position Estimation Using Google Pixel 4 Smartphones for Single- and Dual-Frequency, Multi-GNSS Short-Baseline RTK. Sensors, 2022, 22, 3772. | 2.1 | 8 |
| 60 | A Joint Analysis of GPS Displacement and GRACE Geopotential Data for Simultaneous Estimation of Geocenter Motion and Gravitational Field. Journal of Geophysical Research: Solid Earth, 2019, 124, 12241-12263. | 1.4 | 7 |
| 61 | ANU GRACE Data Analysis: Characteristics and Benefits of Using Irregularly Shaped Mascons. Journal of Geophysical Research: Solid Earth, 2022, 127, . | 1.4 | 7 |
| 62 | Investigating GNSS multipath effects induced by co-located Radar Corner Reflectors. Journal of Applied Geodesy, 2021, 15, 207-224. | 0.6 | 6 |
| 63 | Extracting Colored Noise Statistics in Time Series via Negentropy. IEEE Signal Processing Letters, 2013, 20, 857-860. | 2.1 | 4 |
| 64 | Wedge geometry, frictional properties and interseismic coupling of the Java megathrust. Tectonophysics, 2018, 734-735, 89-95. | 0.9 | 4 |
| 65 | Correction to "Relation of ongoing deformation rates to the subduction zone process in southern Alaska". Geophysical Research Letters, 1998, 25, 215-215. | 1.5 | 3 |
| 66 | Skewed orientation groups in scatter plots of earthquake fault plane solutions: Implications for extensional geometry at oceanic spreading centers. Journal of Geophysical Research: Solid Earth, 2014, 119, 2055-2067. | 1.4 | 3 |
| 67 | Analysis of uncertainties in the inference of groundwater dynamics from gravity recovery and climate experiment observations over Australia. , 2012, , . | | 0 |