

Barry E Parsons

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113
papers

10,858
citations

57
h-index

104
g-index

117
ext. papers

11,830
ext. citations

6.3
avg, IF

5.88
L-index

#	Paper	IF	Citations
113	An analysis of the variation of ocean floor bathymetry and heat flow with age. <i>Journal of Geophysical Research</i> , 1977 , 82, 803-827		2152
112	Mantle convection and the thermal structure of the plates. <i>Journal of Geophysical Research</i> , 1978 , 83, 4485		430
111	Toward mapping surface deformation in three dimensions using InSAR. <i>Geophysical Research Letters</i> , 2004 , 31,	4.9	424
110	On the interaction of two scales of convection in the mantle. <i>Journal of Geophysical Research</i> , 1975 , 80, 2529-2541		308
109	Oceans and continents: Similarities and differences in the mechanisms of heat loss. <i>Journal of Geophysical Research</i> , 1981 , 86, 11535		264
108	InSAR observations of low slip rates on the major faults of western Tibet. <i>Science</i> , 2004 , 305, 236-9	33.3	240
107	Multi-interferogram method for measuring interseismic deformation: Denali Fault, Alaska. <i>Geophysical Journal International</i> , 2007 , 170, 1165-1179	2.6	227
106	The relationship between surface topography, gravity anomalies, and temperature structure of convection. <i>Journal of Geophysical Research</i> , 1983 , 88, 1129		199
105	Surface displacements and source parameters of the 2003 Bam (Iran) earthquake from Envisat advanced synthetic aperture radar imagery. <i>Journal of Geophysical Research</i> , 2005 , 110,		191
104	InSAR slip rate determination on the Altyn Tagh Fault, northern Tibet, in the presence of topographically correlated atmospheric delays. <i>Geophysical Research Letters</i> , 2008 , 35, n/a-n/a	4.9	175
103	Comparison of long-wavelength residual elevation and free air gravity anomalies in the North Atlantic and possible implications for the thickness of the lithospheric plate. <i>Journal of Geophysical Research</i> , 1975 , 80, 1031-1052		169
102	The motion of crustal blocks driven by flow of the lower lithosphere and implications for slip rates of continental strike-slip faults. <i>Nature</i> , 1998 , 391, 655-659	50.4	163
101	Crustal strain in central Greece from repeated GPS measurements in the interval 1989-1997. <i>Geophysical Journal International</i> , 1998 , 135, 195-214	2.6	162
100	Geodetic determination of tectonic deformation in central Greece from 1900 to 1988. <i>Nature</i> , 1991 , 350, 124-129	50.4	160
99	Causes and consequences of the relation between area and age of the ocean floor. <i>Journal of Geophysical Research</i> , 1982 , 87, 289-302		156
98	Crustal deformation during 1994-1998 due to oblique continental collision in the central Southern Alps, New Zealand, and implications for seismic potential of the Alpine fault. <i>Journal of Geophysical Research</i> , 1999 , 104, 25233-25255		140
97	Measurement of interseismic strain accumulation across the North Anatolian Fault by satellite radar interferometry. <i>Geophysical Research Letters</i> , 2001 , 28, 2117-2120	4.9	136

96	A relation between the driving force and geoid anomaly associated with mid-ocean ridges. <i>Earth and Planetary Science Letters</i> , 1980 , 51, 445-450	5.3	132
95	Planform of mantle convection beneath the Pacific Ocean. <i>Nature</i> , 1980 , 288, 442-446	50.4	131
94	Source parameters of the 1 October 1995 Dinar (Turkey) earthquake from SAR interferometry and seismic bodywave modelling. <i>Earth and Planetary Science Letters</i> , 1999 , 172, 23-37	5.3	130
93	Post-seismic motion following the 1997 Manyi (Tibet) earthquake: InSAR observations and modelling. <i>Geophysical Journal International</i> , 2007 , 169, 1009-1027	2.6	123
92	The 1994 Sefidabeh (eastern Iran) earthquakes revisited: new evidence from satellite radar interferometry and carbonate dating about the growth of an active fold above a blind thrust fault. <i>Geophysical Journal International</i> , 2006 , 164, 202-217	2.6	123
91	The 2003 Bam (Iran) earthquake: Rupture of a blind strike-slip fault. <i>Geophysical Research Letters</i> , 2004 , 31, n/a-n/a	4.9	123
90	Deformation of western Turkey from a combination of permanent and campaign GPS data: Limits to block-like behavior. <i>Journal of Geophysical Research</i> , 2009 , 114,		122
89	The 1998 March 14 Fandoqa earthquake (Mw6.6) in Kerman province, southeast Iran: re-rupture of the 1981 Sirch earthquake fault, triggering of slip on adjacent thrusts and the active tectonics of the Gowk fault zone. <i>Geophysical Journal International</i> , 2001 , 146, 371-398	2.6	122
88	A new velocity field for Greece: Implications for the kinematics and dynamics of the Aegean. <i>Journal of Geophysical Research</i> , 2010 , 115,		119
87	The 2009 L'Aquila earthquake (central Italy): A source mechanism and implications for seismic hazard. <i>Geophysical Research Letters</i> , 2009 , 36,	4.9	119
86	Geodetic strain of Greece in the interval 1892-1992. <i>Journal of Geophysical Research</i> , 1997 , 102, 24571-24588		112
85	Evolution of Santorini Volcano dominated by episodic and rapid fluxes of melt from depth. <i>Nature Geoscience</i> , 2012 , 5, 749-754	18.3	109
84	Extension on the Tibetan plateau: recent normal faulting measured by InSAR and body wave seismology. <i>Geophysical Journal International</i> , 2010 , 183, 503-535	2.6	109
83	Displacement field and slip distribution of the 2005 Kashmir earthquake from SAR imagery. <i>Geophysical Research Letters</i> , 2006 , 33,	4.9	107
82	Venus tectonics: initial analysis from magellan. <i>Science</i> , 1991 , 252, 297-312	33.3	101
81	The rates of plate creation and consumption. <i>Geophysical Journal International</i> , 1981 , 67, 437-448	2.6	92
80	Heat flow observations on the Bermuda Rise and thermal models of midplate swells. <i>Journal of Geophysical Research</i> , 1986 , 91, 3701-3723		87
79	Geodetic estimate of seismic hazard in the Gulf of Korinthos. <i>Geophysical Research Letters</i> , 1997 , 24, 1303-1306	4.9	85

78	The Reykjanes Ridge: structure and tectonics of a hot-spot-influenced, slow-spreading ridge, from multibeam bathymetry, gravity and magnetic investigations. <i>Earth and Planetary Science Letters</i> , 1998 , 160, 463-478	5.3	85
77	Triggered slip: Observations of the 17 August 1999 Izmit (Turkey) Earthquake using radar interferometry. <i>Geophysical Research Letters</i> , 2001 , 28, 1079-1082	4.9	83
76	Mesozoic magnetic lineations in the Mozambique Basin. <i>Earth and Planetary Science Letters</i> , 1979 , 43, 260-264	5.3	82
75	The Origin of Outer Topographic Rises Associated with Trenches. <i>Geophysical Journal International</i> , 1976 , 45, 707-712	2.6	82
74	Slip in the 2010–2011 Canterbury earthquakes, New Zealand. <i>Journal of Geophysical Research</i> , 2012 , 117,		80
73	Eocene to recent development of the South-west Indian Ridge, a consequence of the evolution of the Indian Ocean Triple Junction. <i>Geophysical Journal of the Royal Astronomical Society</i> , 1981 , 64, 587-604		76
72	The effect of a shallow low viscosity zone on the apparent compensation of mid-plate swells. <i>Earth and Planetary Science Letters</i> , 1987 , 82, 335-348	5.3	75
71	Seismotectonic, rupture process, and earthquake-hazard aspects of the 2003 December 26 Bam, Iran, earthquake. <i>Geophysical Journal International</i> , 2006 , 166, 1270-1292	2.6	74
70	Fault identification for buried strike-slip earthquakes using InSAR: The 1994 and 2004 Al Hoceima, Morocco earthquakes. <i>Geophysical Journal International</i> , 2006 , 166, 1347-1362	2.6	71
69	Features on Venus generated by plate boundary processes. <i>Journal of Geophysical Research</i> , 1992 , 97, 13533		71
68	The Indian Ocean Triple Junction. <i>Journal of Geophysical Research</i> , 1980 , 85, 4723		70
67	Fault slip in the 1997 Manyi, Tibet earthquake from linear elastic modelling of InSAR displacements. <i>Geophysical Journal International</i> , 2007 , 169, 988-1008	2.6	67
66	The 2011 Mw 7.1 Van (Eastern Turkey) earthquake. <i>Journal of Geophysical Research: Solid Earth</i> , 2013 , 118, 1619-1637	3.6	66
65	Crustal deformation of the Marlborough Fault Zone in the South Island of New Zealand: Geodetic constraints over the interval 1982–1994. <i>Journal of Geophysical Research</i> , 1998 , 103, 30147-30165		66
64	Geodetic investigation of the 13 May 1995 Kozani-Grevena (Greece) Earthquake. <i>Geophysical Research Letters</i> , 1997 , 24, 707-710	4.9	65
63	The Dahuiyeh (Zarand) earthquake of 2005 February 22 in central Iran: reactivation of an intramountain reverse fault. <i>Geophysical Journal International</i> , 2006 , 164, 137-148	2.6	65
62	The crustal structure of the Madagascar Ridge. <i>Geophysical Journal International</i> , 1981 , 66, 351-377	2.6	64
61	Convective instabilities in a variable viscosity fluid cooled from above. <i>Physics of the Earth and Planetary Interiors</i> , 1985 , 39, 14-32	2.3	63

60	Observations of convection at rayleigh numbers up to 760,000 in a fluid with large prandtl number. <i>Geophysical and Astrophysical Fluid Dynamics</i> , 1977 , 9, 201-217	1.4	60
59	The vertical separation of mainshock rupture and microseismicity at Qeshm island in the Zagros fold-and-thrust belt, Iran. <i>Earth and Planetary Science Letters</i> , 2010 , 296, 181-194	5.3	59
58	Assessing the ability of Pleiades stereo imagery to determine height changes in earthquakes: A case study for the El Mayor-Cucapah epicentral area. <i>Journal of Geophysical Research: Solid Earth</i> , 2015 , 120, 8793-8808	3.6	58
57	Effect of a shallow low-viscosity zone on the formation of midplate swells. <i>Journal of Geophysical Research</i> , 1988 , 93, 3144		58
56	The 2010 MW 6.8 Yushu (Qinghai, China) earthquake: Constraints provided by InSAR and body wave seismology. <i>Journal of Geophysical Research</i> , 2011 , 116,		56
55	The relationship between gravity and bathymetry in the Pacific Ocean. <i>Geophysical Journal International</i> , 1985 , 83, 263-298	2.6	56
54	Aseismic deformation of a fold-and-thrust belt imaged by synthetic aperture radar interferometry near Shahdad, southeast Iran. <i>Geology</i> , 2004 , 32, 577	5	54
53	Gravity anomalies derived from Seasat, Geosat, ERS-1 and TOPEX/POSEIDON altimetry and ship gravity: a case study over the Reykjanes Ridge. <i>Geophysical Journal International</i> , 1995 , 122, 551-568	2.6	53
52	From quiescence to unrest: 20 years of satellite geodetic measurements at Santorini volcano, Greece. <i>Journal of Geophysical Research: Solid Earth</i> , 2015 , 120, 1309-1328	3.6	51
51	Global derivation of marine gravity anomalies from Seasat, Geosat, ERS-1 and TOPEX/POSEIDON altimeter data. <i>Geophysical Journal International</i> , 1998 , 134, 449-459	2.6	51
50	Dynamic topography and gravity anomalies for fluid layers whose viscosity varies exponentially with depth. <i>Geophysical Journal International</i> , 1987 , 90, 349-368	2.6	49
49	The 2005 Qeshm Island earthquake (Iran)-a link between buried reverse faulting and surface folding in the Zagros Simply Folded Belt?. <i>Geophysical Journal International</i> , 2007 , 171, 326-338	2.6	48
48	A note on the correction of ocean floor depths for sediment loading. <i>Journal of Geophysical Research</i> , 1982 , 87, 4715-4722		48
47	Geodetic constraints on glacial isostatic adjustment in Europe. <i>Geophysical Research Letters</i> , 2005 , 32,	4.9	47
46	Rapid strain accumulation on the Ashkabad fault (Turkmenistan) from atmosphere-corrected InSAR. <i>Journal of Geophysical Research: Solid Earth</i> , 2013 , 118, 3674-3690	3.6	45
45	Depth segmentation of the seismogenic continental crust: The 2008 and 2009 Qaidam earthquakes. <i>Geophysical Research Letters</i> , 2011 , 38, n/a-n/a	4.9	45
44	Constraining crustal velocity fields with InSAR for Eastern Turkey: Limits to the block-like behavior of Eastern Anatolia. <i>Journal of Geophysical Research: Solid Earth</i> , 2014 , 119, 5215-5234	3.6	44
43	Limitations of rupture forecasting exposed by instantaneously triggered earthquake doublet. <i>Nature Geoscience</i> , 2016 , 9, 330-336	18.3	43

42	Seamount abundances and distributions in the southeast Pacific. <i>Earth and Planetary Science Letters</i> , 1988 , 87, 137-151	5.3	42
41	Interseismic strain accumulation across the North Anatolian Fault from Envisat InSAR measurements. <i>Geophysical Research Letters</i> , 2011 , 38, n/a-n/a	4.9	41
40	The postseismic response to the 2002M7.9 Denali Fault earthquake: constraints from InSAR 2003-2005. <i>Geophysical Journal International</i> , 2009 , 176, 353-367	2.6	40
39	Relation between surface velocity field and shear wave splitting in the South Island of New Zealand. <i>Journal of Geophysical Research</i> , 2002 , 107, ETG 5-1-ETG 5-7		36
38	Combining InSAR and seismology to study the 2003 Siberian Altai earthquakes-dextral strike-slip and anticlockwise rotations in the northern India-Eurasia collision zone. <i>Geophysical Journal International</i> , 2007 , 169, 216-232	2.6	35
37	A major, intraplate, normal-faulting earthquake: The 1739 Yinchuan event in northern China. <i>Journal of Geophysical Research: Solid Earth</i> , 2016 , 121, 293-320	3.6	34
36	A method for the joint inversion of geodetic and seismic waveform data using ABIC: application to the 1997 Manyi, Tibet, earthquake. <i>Geophysical Journal International</i> , 2014 , 196, 1564-1579	2.6	33
35	Bathymetry of the Reykjanes Ridge. <i>Marine Geophysical Researches</i> , 1997 , 19, 55-64	2.3	33
34	Placing bounds on lithospheric deformation in the central Pacific Ocean. <i>Earth and Planetary Science Letters</i> , 1992 , 111, 123-139	5.3	32
33	High-Resolution Surface Velocities and Strain for Anatolia From Sentinel-1 InSAR and GNSS Data. <i>Geophysical Research Letters</i> , 2020 , 47, e2020GL087376	4.9	32
32	The 2013 Balochistan earthquake: An extraordinary or completely ordinary event?. <i>Geophysical Research Letters</i> , 2015 , 42, 6236-6243	4.9	28
31	Surface displacements in the September 2005 Afar rifting event from satellite image matching: Asymmetric uplift and faulting. <i>Geophysical Research Letters</i> , 2009 , 36, n/a-n/a	4.9	28
30	The 1998 Aiquile, Bolivia earthquake: A seismically active fault revealed with InSAR. <i>Earth and Planetary Science Letters</i> , 2005 , 232, 39-49	5.3	28
29	Interpreting gravity, geoid, and topography for convection with temperature dependent viscosity: Application to surface features on Venus. <i>Journal of Geophysical Research</i> , 1995 , 100, 21155		28
28	Seasat-derived gravity over the Musicians Seamounts. <i>Journal of Geophysical Research</i> , 1986 , 91, 8325		28
27	An optimal procedure for deriving marine gravity from multi-satellite altimetry. <i>Geophysical Journal International</i> , 1996 , 125, 705-718	2.6	26
26	Effect of a shallow low-viscosity zone on small-scale instabilities under the cooling oceanic plates. <i>Journal of Geophysical Research</i> , 1988 , 93, 3469		26
25	Blind Thrusting, Surface Folding, and the Development of Geological Structure in the Mw 6.3 2015 Pishan (China) Earthquake. <i>Journal of Geophysical Research: Solid Earth</i> , 2017 , 122, 9359-9382	3.6	25

24	The effect of a shallow low-viscosity zone on the mantle flow, the geoid anomalies and the geoid and depth-age relationships at fracture zones. <i>Geophysical Journal International</i> , 1988 , 93, 25-43	2.6	24
23	Scaling of viscous shear zones with depth-dependent viscosity and power-law stress-strain-rate dependence. <i>Geophysical Journal International</i> , 2015 , 202, 242-260	2.6	22
22	Coseismic and postseismic displacements from the 1978 M w 7.3 Tabas-e-Golshan earthquake in eastern Iran. <i>Earth and Planetary Science Letters</i> , 2016 , 452, 185-196	5.3	22
21	Cooling of the oceanic lithosphere—evidence from geoid anomalies across the Udintsev and Eltanin fracture zones. <i>Earth and Planetary Science Letters</i> , 1988 , 88, 289-307	5.3	21
20	Geoid lineations of 1000 km wavelength over the central Pacific. <i>Geophysical Research Letters</i> , 1995 , 22, 97-100	4.9	20
19	Interseismic strain accumulation across the Manyi fault (Tibet) prior to the 1997 Mw 7.6 earthquake. <i>Geophysical Research Letters</i> , 2011 , 38, n/a-n/a	4.9	19
18	The tectonics of the western Ordos Plateau, Ningxia, China: Slip rates on the Luoshan and East Helanshan Faults. <i>Tectonics</i> , 2016 , 35, 2754-2777	4.3	18
17	Seismotectonics and rupture process of the Mw 7.1 2011 Van reverse-faulting earthquake, eastern Turkey, and implications for hazard in regions of distributed shortening. <i>Geophysical Journal International</i> , 2016 , 206, 501-524	2.6	18
16	Time-dependent postseismic slip following the 1978 M 7.3 Tabas-e-Golshan, Iran earthquake revealed by over 20 years of ESA InSAR observations. <i>Earth and Planetary Science Letters</i> , 2018 , 483, 64-75	5.3	18
15	Radar interferometry time series analysis of Mashhad subsidence 2009 , 37, 147-156		15
14	Geoid anomalies over two South Atlantic fracture zones. <i>Earth and Planetary Science Letters</i> , 1990 , 100, 18-41	5.3	15
13	The 2006 March 25 Fin earthquakes (Iran) Insights into the vertical extents of faulting in the Zagros Simply Folded Belt. <i>Geophysical Journal International</i> , 2010 ,	2.6	14
12	Characterizing Complex Surface Ruptures in the 2013 Mw 7.7 Balochistan Earthquake Using Three-Dimensional Displacements. <i>Journal of Geophysical Research: Solid Earth</i> , 2018 , 123, 10,191-10,211	3.6	14
11	Mapping 3D fault geometry in earthquakes using high-resolution topography: Examples from the 2010 El Mayor-Cucapah (Mexico) and 2013 Balochistan (Pakistan) earthquakes. <i>Geophysical Research Letters</i> , 2016 , 43, 3134-3142	4.9	13
10	Comparison of seismic and geodetic strain rates at the margins of the Ordos Plateau, northern China. <i>Geophysical Journal International</i> , 2018 , 212, 988-1009	2.6	9
9	The inverse problem of constructing a gravimetric geoid. <i>Journal of Geophysical Research</i> , 1982 , 87, 1835		9
8	Co-seismic vertical displacements from a single post-seismic lidar DEM: example from the 2010 El Mayor-Cucapah earthquake. <i>Geophysical Journal International</i> , 2015 , 202, 328-346	2.6	8
7	A comparison of discrete and continuous intrusion models for the thermal structure of the plates. <i>Geophysical Journal of the Royal Astronomical Society</i> , 1982 , 70, 741-753		7

6	Post-Earthquake Fold Growth Imaged in the Qaidam Basin, China, With Interferometric Synthetic Aperture Radar. <i>Journal of Geophysical Research: Solid Earth</i> , 2021 , 126, e2020JB021241	3.6	5
5	Reply [to Comment on Geodetic investigation of the 13 May Kozani-Grevena (Greece) Earthquake by Clarke et al.] <i>Geophysical Research Letters</i> , 1998 , 25, 131-133	4.9	4
4	Reply [to Comments on Comparison of long-wavelength residual elevation and free air gravity anomalies in the North Atlantic and possible implications for the thickness of the lithospheric plate by John G. Sclater, Lawrence A. Lawver, and Barry Parsons] <i>Journal of Geophysical Research</i> , 1976 , 81, 4960-4964		4
3	The Relationship Between Seismic and Aseismic Slip on the Philippine Fault on Leyte Island: Bayesian Modeling of Fault Slip and Geothermal Subsidence. <i>Journal of Geophysical Research: Solid Earth</i> , 2020 , 125, e2020JB020052	3.6	4
2	A detailed gravity field over the Reykjanes Ridge from Seasat, Geosat, ERS-1 and TOPEX/POSEIDON altimetry and shipborne gravity. <i>Geophysical Research Letters</i> , 1994 , 21, 2841-2844	4.9	3
1	Gravity fields over mid-ocean ridges from GEOSAT GM data: Variations as a function of spreading rate. <i>Geophysical Research Letters</i> , 1994 , 21, 2837-2840	4.9	3