

# Barry E Parsons

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Post-Earthquake Fold Growth Imaged in the Qaidam Basin, China, With Interferometric Synthetic Aperture Radar. <i>Journal of Geophysical Research: Solid Earth</i> , <b>2021</b> , 126, e2020JB021241	3.6	5
112	High-Resolution Surface Velocities and Strain for Anatolia From Sentinel-1 InSAR and GNSS Data. <i>Geophysical Research Letters</i> , <b>2020</b> , 47, e2020GL087376	4.9	32
111	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> , <b>2020</b> , 125, e2020JB020052	3.6	4
110	Comparison of seismic and geodetic strain rates at the margins of the Ordos Plateau, northern China. <i>Geophysical Journal International</i> , <b>2018</b> , 212, 988-1009	2.6	9
109	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> , <b>2018</b> , 483, 64-75	5.3	18
108	Characterizing Complex Surface Ruptures in the 2013 Mw 7.7 Balochistan Earthquake Using Three-Dimensional Displacements. <i>Journal of Geophysical Research: Solid Earth</i> , <b>2018</b> , 123, 10,191-10,211	3.6	14
107	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> , <b>2017</b> , 122, 9359-9382	3.6	25
106	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> , <b>2016</b> , 452, 185-196	5.3	22
105	The tectonics of the western Ordos Plateau, Ningxia, China: Slip rates on the Luoshan and East Helanshan Faults. <i>Tectonics</i> , <b>2016</b> , 35, 2754-2777	4.3	18
104	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> , <b>2016</b> , 43, 3134-3142	4.9	13
103	Limitations of rupture forecasting exposed by instantaneously triggered earthquake doublet. <i>Nature Geoscience</i> , <b>2016</b> , 9, 330-336	18.3	43
102	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> , <b>2016</b> , 206, 501-524	2.6	18
101	A major, intraplate, normal-faulting earthquake: The 1739 Yinchuan event in northern China. <i>Journal of Geophysical Research: Solid Earth</i> , <b>2016</b> , 121, 293-320	3.6	34
100	Scaling of viscous shear zones with depth-dependent viscosity and power-law stress-strain-rate dependence. <i>Geophysical Journal International</i> , <b>2015</b> , 202, 242-260	2.6	22
99	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> , <b>2015</b> , 120, 8793-8808	3.6	58
98	The 2013 Balochistan earthquake: An extraordinary or completely ordinary event?. <i>Geophysical Research Letters</i> , <b>2015</b> , 42, 6236-6243	4.9	28
97	Co-seismic vertical displacements from a single post-seismic lidar DEM: example from the 2010 El Mayor-Cucapah earthquake. <i>Geophysical Journal International</i> , <b>2015</b> , 202, 328-346	2.6	8

96	From quiescence to unrest: 20 years of satellite geodetic measurements at Santorini volcano, Greece. <i>Journal of Geophysical Research: Solid Earth</i> , <b>2015</b> , 120, 1309-1328	3.6	51
95	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> , <b>2014</b> , 196, 1564-1579	2.6	33
94	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> , <b>2014</b> , 119, 5215-5234	3.6	44
93	Rapid strain accumulation on the Ashkabad fault (Turkmenistan) from atmosphere-corrected InSAR. <i>Journal of Geophysical Research: Solid Earth</i> , <b>2013</b> , 118, 3674-3690	3.6	45
92	The 2011 Mw 7.1 Van (Eastern Turkey) earthquake. <i>Journal of Geophysical Research: Solid Earth</i> , <b>2013</b> , 118, 1619-1637	3.6	66
91	Evolution of Santorini Volcano dominated by episodic and rapid fluxes of melt from depth. <i>Nature Geoscience</i> , <b>2012</b> , 5, 749-754	18.3	109
90	Slip in the 2010-2011 Canterbury earthquakes, New Zealand. <i>Journal of Geophysical Research</i> , <b>2012</b> , 117,		80
89	Interseismic strain accumulation across the North Anatolian Fault from Envisat InSAR measurements. <i>Geophysical Research Letters</i> , <b>2011</b> , 38, n/a-n/a	4.9	41
88	Depth segmentation of the seismogenic continental crust: The 2008 and 2009 Qaidam earthquakes. <i>Geophysical Research Letters</i> , <b>2011</b> , 38, n/a-n/a	4.9	45
87	Interseismic strain accumulation across the Manyi fault (Tibet) prior to the 1997 Mw 7.6 earthquake. <i>Geophysical Research Letters</i> , <b>2011</b> , 38, n/a-n/a	4.9	19
86	The 2010 MW 6.8 Yushu (Qinghai, China) earthquake: Constraints provided by InSAR and body wave seismology. <i>Journal of Geophysical Research</i> , <b>2011</b> , 116,		56
85	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> , <b>2010</b> ,	2.6	14
84	Extension on the Tibetan plateau: recent normal faulting measured by InSAR and body wave seismology. <i>Geophysical Journal International</i> , <b>2010</b> , 183, 503-535	2.6	109
83	A new velocity field for Greece: Implications for the kinematics and dynamics of the Aegean. <i>Journal of Geophysical Research</i> , <b>2010</b> , 115,		119
82	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> , <b>2010</b> , 296, 181-194	5.3	59
81	Radar interferometry time series analysis of Mashhad subsidence <b>2009</b> , 37, 147-156		15
80	The postseismic response to the 2002 Mw 7.9 Denali Fault earthquake: constraints from InSAR 2003-2005. <i>Geophysical Journal International</i> , <b>2009</b> , 176, 353-367	2.6	40
79	The 2009 L'Aquila earthquake (central Italy): A source mechanism and implications for seismic hazard. <i>Geophysical Research Letters</i> , <b>2009</b> , 36,	4.9	119

78	Surface displacements in the September 2005 Afar rifting event from satellite image matching: Asymmetric uplift and faulting. <i>Geophysical Research Letters</i> , <b>2009</b> , 36, n/a-n/a	4.9	28
77	Deformation of western Turkey from a combination of permanent and campaign GPS data: Limits to block-like behavior. <i>Journal of Geophysical Research</i> , <b>2009</b> , 114,		122
76	InSAR slip rate determination on the Altyn Tagh Fault, northern Tibet, in the presence of topographically correlated atmospheric delays. <i>Geophysical Research Letters</i> , <b>2008</b> , 35, n/a-n/a	4.9	175
75	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> , <b>2007</b> , 169, 216-232	2.6	35
74	Post-seismic motion following the 1997 Manyi (Tibet) earthquake: InSAR observations and modelling. <i>Geophysical Journal International</i> , <b>2007</b> , 169, 1009-1027	2.6	123
73	Fault slip in the 1997 Manyi, Tibet earthquake from linear elastic modelling of InSAR displacements. <i>Geophysical Journal International</i> , <b>2007</b> , 169, 988-1008	2.6	67
72	Multi-interferogram method for measuring interseismic deformation: Denali Fault, Alaska. <i>Geophysical Journal International</i> , <b>2007</b> , 170, 1165-1179	2.6	227
71	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> , <b>2007</b> , 171, 326-338	2.6	48
70	Displacement field and slip distribution of the 2005 Kashmir earthquake from SAR imagery. <i>Geophysical Research Letters</i> , <b>2006</b> , 33,	4.9	107
69	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> , <b>2006</b> , 164, 202-217	2.6	123
68	The Dahuiyeh (Zarand) earthquake of 2005 February 22 in central Iran: reactivation of an intramountain reverse fault. <i>Geophysical Journal International</i> , <b>2006</b> , 164, 137-148	2.6	65
67	Seismotectonic, rupture process, and earthquake-hazard aspects of the 2003 December 26 Bam, Iran, earthquake. <i>Geophysical Journal International</i> , <b>2006</b> , 166, 1270-1292	2.6	74
66	Fault identification for buried strike-slip earthquakes using InSAR: The 1994 and 2004 Al Hoceima, Morocco earthquakes. <i>Geophysical Journal International</i> , <b>2006</b> , 166, 1347-1362	2.6	71
65	The 1998 Aiquile, Bolivia earthquake: A seismically active fault revealed with InSAR. <i>Earth and Planetary Science Letters</i> , <b>2005</b> , 232, 39-49	5.3	28
64	Geodetic constraints on glacial isostatic adjustment in Europe. <i>Geophysical Research Letters</i> , <b>2005</b> , 32,	4.9	47
63	Surface displacements and source parameters of the 2003 Bam (Iran) earthquake from Envisat advanced synthetic aperture radar imagery. <i>Journal of Geophysical Research</i> , <b>2005</b> , 110,		191
62	Aseismic deformation of a fold-and-thrust belt imaged by synthetic aperture radar interferometry near Shahdad, southeast Iran. <i>Geology</i> , <b>2004</b> , 32, 577	5	54
61	InSAR observations of low slip rates on the major faults of western Tibet. <i>Science</i> , <b>2004</b> , 305, 236-9	33.3	240

60	Toward mapping surface deformation in three dimensions using InSAR. <i>Geophysical Research Letters</i> , <b>2004</b> , 31,	4.9	424
59	The 2003 Bam (Iran) earthquake: Rupture of a blind strike-slip fault. <i>Geophysical Research Letters</i> , <b>2004</b> , 31, n/a-n/a	4.9	123
58	Relation between surface velocity field and shear wave splitting in the South Island of New Zealand. <i>Journal of Geophysical Research</i> , <b>2002</b> , 107, ETG 5-1-ETG 5-7		36
57	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> , <b>2001</b> , 146, 371-398	2.6	122
56	Measurement of interseismic strain accumulation across the North Anatolian Fault by satellite radar interferometry. <i>Geophysical Research Letters</i> , <b>2001</b> , 28, 2117-2120	4.9	136
55	Triggered slip: Observations of the 17 August 1999 Izmit (Turkey) Earthquake using radar interferometry. <i>Geophysical Research Letters</i> , <b>2001</b> , 28, 1079-1082	4.9	83
54	Source parameters of the 1 October 1995 Dinar (Turkey) earthquake from SAR interferometry and seismic bodywave modelling. <i>Earth and Planetary Science Letters</i> , <b>1999</b> , 172, 23-37	5.3	130
53	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> , <b>1999</b> , 104, 25233-25255		140
52	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> , <b>1998</b> , 391, 655-659	50.4	163
51	Global derivation of marine gravity anomalies from Seasat, Geosat, ERS-1 and TOPEX/POSEIDON altimeter data. <i>Geophysical Journal International</i> , <b>1998</b> , 134, 449-459	2.6	51
50	Crustal strain in central Greece from repeated GPS measurements in the interval 1989-1997. <i>Geophysical Journal International</i> , <b>1998</b> , 135, 195-214	2.6	162
49	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> , <b>1998</b> , 160, 463-478	5.3	85
48	Reply [to Comment on Geodetic investigation of the 13 May Kozani-Grevena (Greece) Earthquake] by Clarke et al. <i>Geophysical Research Letters</i> , <b>1998</b> , 25, 131-133	4.9	4
47	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> , <b>1998</b> , 103, 30147-30165		66
46	Geodetic strain of Greece in the interval 1892–1992. <i>Journal of Geophysical Research</i> , <b>1997</b> , 102, 24571-24588		112
45	Geodetic investigation of the 13 May 1995 Kozani-Grevena (Greece) Earthquake. <i>Geophysical Research Letters</i> , <b>1997</b> , 24, 707-710	4.9	65
44	Geodetic estimate of seismic hazard in the Gulf of Korinthos. <i>Geophysical Research Letters</i> , <b>1997</b> , 24, 1303-1306	4.9	85
43	Bathymetry of the Reykjanes Ridge. <i>Marine Geophysical Researches</i> , <b>1997</b> , 19, 55-64	2.3	33

42	An optimal procedure for deriving marine gravity from multi-satellite altimetry. <i>Geophysical Journal International</i> , <b>1996</b> , 125, 705-718	2.6	26
41	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> , <b>1995</b> , 122, 551-568	2.6	53
40	Geoid lineations of 1000 km wavelength over the central Pacific. <i>Geophysical Research Letters</i> , <b>1995</b> , 22, 97-100	4.9	20
39	Interpreting gravity, geoid, and topography for convection with temperature dependent viscosity: Application to surface features on Venus. <i>Journal of Geophysical Research</i> , <b>1995</b> , 100, 21155		28
38	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> , <b>1994</b> , 21, 2841-2844	4.9	3
37	Gravity fields over mid-ocean ridges from GEOSAT GM data: Variations as a function of spreading rate. <i>Geophysical Research Letters</i> , <b>1994</b> , 21, 2837-2840	4.9	3
36	Features on Venus generated by plate boundary processes. <i>Journal of Geophysical Research</i> , <b>1992</b> , 97, 13533		71
35	Placing bounds on lithospheric deformation in the central Pacific Ocean. <i>Earth and Planetary Science Letters</i> , <b>1992</b> , 111, 123-139	5.3	32
34	Geodetic determination of tectonic deformation in central Greece from 1900 to 1988. <i>Nature</i> , <b>1991</b> , 350, 124-129	50.4	160
33	Venus tectonics: initial analysis from magellan. <i>Science</i> , <b>1991</b> , 252, 297-312	33.3	101
32	Geoid anomalies over two South Atlantic fracture zones. <i>Earth and Planetary Science Letters</i> , <b>1990</b> , 100, 18-41	5.3	15
31	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> , <b>1988</b> , 93, 25-43	2.6	24
30	Seamount abundances and distributions in the southeast Pacific. <i>Earth and Planetary Science Letters</i> , <b>1988</b> , 87, 137-151	5.3	42
29	Cooling of the oceanic lithosphere—evidence from geoid anomalies across the Udintsev and Eltanin fracture zones. <i>Earth and Planetary Science Letters</i> , <b>1988</b> , 88, 289-307	5.3	21
28	Effect of a shallow low-viscosity zone on the formation of midplate swells. <i>Journal of Geophysical Research</i> , <b>1988</b> , 93, 3144		58
27	Effect of a shallow low-viscosity zone on small-scale instabilities under the cooling oceanic plates. <i>Journal of Geophysical Research</i> , <b>1988</b> , 93, 3469		26
26	The effect of a shallow low viscosity zone on the apparent compensation of mid-plate swells. <i>Earth and Planetary Science Letters</i> , <b>1987</b> , 82, 335-348	5.3	75
25	Dynamic topography and gravity anomalies for fluid layers whose viscosity varies exponentially with depth. <i>Geophysical Journal International</i> , <b>1987</b> , 90, 349-368	2.6	49

24	Heat flow observations on the Bermuda Rise and thermal models of midplate swells. <i>Journal of Geophysical Research</i> , <b>1986</b> , 91, 3701-3723		87
23	Seasat-derived gravity over the Musicians Seamounts. <i>Journal of Geophysical Research</i> , <b>1986</b> , 91, 8325		28
22	The relationship between gravity and bathymetry in the Pacific Ocean. <i>Geophysical Journal International</i> , <b>1985</b> , 83, 263-298	2.6	56
21	Convective instabilities in a variable viscosity fluid cooled from above. <i>Physics of the Earth and Planetary Interiors</i> , <b>1985</b> , 39, 14-32	2.3	63
20	The relationship between surface topography, gravity anomalies, and temperature structure of convection. <i>Journal of Geophysical Research</i> , <b>1983</b> , 88, 1129		199
19	Causes and consequences of the relation between area and age of the ocean floor. <i>Journal of Geophysical Research</i> , <b>1982</b> , 87, 289-302		156
18	The inverse problem of constructing a gravimetric geoid. <i>Journal of Geophysical Research</i> , <b>1982</b> , 87, 1835		9
17	A note on the correction of ocean floor depths for sediment loading. <i>Journal of Geophysical Research</i> , <b>1982</b> , 87, 4715-4722		48
16	A comparison of discrete and continuous intrusion models for the thermal structure of the plates. <i>Geophysical Journal of the Royal Astronomical Society</i> , <b>1982</b> , 70, 741-753		7
15	Oceans and continents: Similarities and differences in the mechanisms of heat loss. <i>Journal of Geophysical Research</i> , <b>1981</b> , 86, 11535		264
14	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> , <b>1981</b> , 64, 587-604		76
13	The rates of plate creation and consumption. <i>Geophysical Journal International</i> , <b>1981</b> , 67, 437-448	2.6	92
12	The crustal structure of the Madagascar Ridge. <i>Geophysical Journal International</i> , <b>1981</b> , 66, 351-377	2.6	64
11	Planform of mantle convection beneath the Pacific Ocean. <i>Nature</i> , <b>1980</b> , 288, 442-446	50.4	131
10	A relation between the driving force and geoid anomaly associated with mid-ocean ridges. <i>Earth and Planetary Science Letters</i> , <b>1980</b> , 51, 445-450	5.3	132
9	The Indian Ocean Triple Junction. <i>Journal of Geophysical Research</i> , <b>1980</b> , 85, 4723		70
8	Mesozoic magnetic lineations in the Mozambique Basin. <i>Earth and Planetary Science Letters</i> , <b>1979</b> , 43, 260-264	5.3	82
7	Mantle convection and the thermal structure of the plates. <i>Journal of Geophysical Research</i> , <b>1978</b> , 83, 4485		430

6	Observations of convection at rayleigh numbers up to 760,000 in a fluid with large prandtl number. <i>Geophysical and Astrophysical Fluid Dynamics</i> , <b>1977</b> , 9, 201-217	1.4	60
5	An analysis of the variation of ocean floor bathymetry and heat flow with age. <i>Journal of Geophysical Research</i> , <b>1977</b> , 82, 803-827		2152
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> , <b>1976</b> , 81, 4960-4964		4
3	The Origin of Outer Topographic Rises Associated with Trenches. <i>Geophysical Journal International</i> , <b>1976</b> , 45, 707-712	2.6	82
2	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> , <b>1975</b> , 80, 1031-1052		169
1	On the interaction of two scales of convection in the mantle. <i>Journal of Geophysical Research</i> , <b>1975</b> , 80, 2529-2541		308