

# Jose Fernandez

## List of Publications by Year in descending order

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139  
papers

2,909  
citations

147566

31  
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214527

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149  
all docs

149  
docs citations

149  
times ranked

2454  
citing authors

#	ARTICLE	IF	CITATIONS
1	Estimation of the Block Adjustment Error in UAV Photogrammetric Flights in Flat Areas. Remote Sensing, 2022, 14, 2877.	1.8	2
2	Radar Interferometry as a Monitoring Tool for an Active Mining Area Using Sentinel-1 C-Band Data, Case Study of Riotinto Mine. Remote Sensing, 2022, 14, 3061.	1.8	3
3	Detection of volcanic unrest onset in La Palma, Canary Islands, evolution and implications. Scientific Reports, 2021, 11, 2540.	1.6	31
4	Tidal Influence on Seismic Activity During the 2011–2013 El Hierro Volcanic Unrest. Tectonics, 2021, 40, e2020TC006201.	1.3	7
5	Upgraded software for structural gravity inversion and application to El Hierro (Canary Islands). Computers and Geosciences, 2021, 150, 104720.	2.0	9
6	On the Construction of Bootstrap Confidence Intervals for Estimating the Correlation Between Two Time Series Not Sampled on Identical Time Points. Mathematical Geosciences, 2021, 53, 1813.	1.4	1
7	A free-geometry geodynamic modelling of surface gravity changes using Growth-dg software. Scientific Reports, 2021, 11, 23442.	1.6	5
8	Interseismic Strain Accumulation Near Lisbon (Portugal) From Space Geodesy. Geophysical Research Letters, 2021, 48, .	1.5	2
9	3D multi-source model of elastic volcanic ground deformation. Earth and Planetary Science Letters, 2020, 547, 116445.	1.8	12
10	Geodetic Study of the 2006–2010 Ground Deformation in La Palma (Canary Islands): Observational Results. Remote Sensing, 2020, 12, 2566.	1.8	7
11	Geodetic Deformation versus Seismic Crustal Moment-Rates: Insights from the Ibero-Maghrebian Region. Remote Sensing, 2020, 12, 952.	1.8	20
12	Deep volcanic morphology below Lanzarote, Canaries, from gravity inversion: New results for Timanfaya and implications. Journal of Volcanology and Geothermal Research, 2019, 369, 64-79.	0.8	8
13	Moho depth determination beneath the Zagros Mountains from 3D inversion of gravity data. Arabian Journal of Geosciences, 2018, 11, 1.	0.6	4
14	Site scale modeling of slow-moving landslides, a 3D viscoplastic finite element modeling approach. Landslides, 2018, 15, 257-272.	2.7	18
15	Suitability Assessment of X-Band Satellite SAR Data for Geotechnical Monitoring of Site Scale Slow Moving Landslides. Remote Sensing, 2018, 10, 936.	1.8	10
16	Modeling the two- and three-dimensional displacement field in Lorca, Spain, subsidence and the global implications. Scientific Reports, 2018, 8, 14782.	1.6	42
17	PAF: A software tool to estimate free-geometry extended bodies of anomalous pressure from surface deformation data. Computers and Geosciences, 2018, 111, 235-243.	2.0	4
18	Principal component analysis of MSBAS DInSAR time series from Campi Flegrei, Italy. Journal of Volcanology and Geothermal Research, 2017, 344, 139-153.	0.8	12

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19	An improved data integration algorithm to constrain the 3D displacement field induced by fast deformation phenomena tested on the Napa Valley earthquake. <i>Computers and Geosciences</i> , 2017, 109, 206-215.	2.0	8
20	Volcano Geodesy: Recent developments and future challenges. <i>Journal of Volcanology and Geothermal Research</i> , 2017, 344, 1-12.	0.8	61
21	Mapping Vulnerable Urban Areas Affected by Slow-Moving Landslides Using Sentinel-1 InSAR Data. <i>Remote Sensing</i> , 2017, 9, 876.	1.8	76
22	A-DInSAR Monitoring of Landslide and Subsidence Activity: A Case of Urban Damage in Arcos de la Frontera, Spain. <i>Remote Sensing</i> , 2017, 9, 787.	1.8	24
23	Joint Terrestrial and Aerial Measurements to Study Ground Deformation: Application to the Sciarra Del Fuoco at the Stromboli Volcano (Sicily). <i>Remote Sensing</i> , 2016, 8, 463.	1.8	8
24	3D displacement field retrieved by integrating Sentinel-1 InSAR and GPS data: the 2014 South Napa earthquake. <i>European Journal of Remote Sensing</i> , 2016, 49, 1-13.	1.7	27
25	Introduction to Mathematics and Geosciences: Global and Local Perspectives, Volume II. <i>Pure and Applied Geophysics</i> , 2016, 173, 731-737.	0.8	0
26	Real Time Tracking of Magmatic Intrusions by means of Ground Deformation Modeling during Volcanic Crises. <i>Scientific Reports</i> , 2015, 5, 10970.	1.6	36
27	3D Stability Analysis of the Portalet Landslide Using Finite Element Method. , 2015, , 1519-1524.		3
28	An Overview of Geodetic Volcano Research in the Canary Islands. <i>Pure and Applied Geophysics</i> , 2015, 172, 3189-3228.	0.8	12
29	Structure of Alluvial Valleys from 3-D Gravity Inversion: The Low Andarax Valley (Almería, Spain) Test Case. <i>Pure and Applied Geophysics</i> , 2015, 172, 3107-3121.	0.8	1
30	Introduction to Mathematics and Geosciences: Global and Local Perspectives, Volume I. <i>Pure and Applied Geophysics</i> , 2015, 172, 1-5.	0.8	8
31	Twenty-year advanced DInSAR analysis of severe land subsidence: The Alto Guadalentán Basin (Spain) case study. <i>Engineering Geology</i> , 2015, 198, 40-52.	2.9	67
32	The Diffuse Plate boundary of Nubia and Iberia in the Western Mediterranean: Crustal deformation evidence for viscous coupling and fragmented lithosphere. <i>Earth and Planetary Science Letters</i> , 2015, 430, 439-447.	1.8	77
33	The Canary Islands hot spot: New insights from 3D coupled geophysicalâ€“petrological modelling of the lithosphere and uppermost mantle. <i>Earth and Planetary Science Letters</i> , 2015, 409, 71-88.	1.8	37
34	Detailed multidisciplinary monitoring reveals pre- and co-eruptive signals at Nyamulagira volcano (North Kivu, Democratic Republic of Congo). <i>Bulletin of Volcanology</i> , 2014, 76, 1.	1.1	31
35	Radar interferometry techniques for the study of ground subsidence phenomena: a review of practical issues through cases in Spain. <i>Environmental Earth Sciences</i> , 2014, 71, 163-181.	1.3	135
36	Spatiotemporal analysis and interpretation of 1993â€“2013 ground deformation at Campi Flegrei, Italy, observed by advanced DInSAR. <i>Geophysical Research Letters</i> , 2014, 41, 6101-6108.	1.5	37

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37	Removal of systematic seasonal atmospheric signal from interferometric synthetic aperture radar ground deformation time series. <i>Geophysical Research Letters</i> , 2014, 41, 6123-6130.	1.5	36
38	An Update GPS Velocity and Strain Rate Fields for the Iberian Region. <i>Lecture Notes in Earth System Sciences</i> , 2014, , 369-372.	0.5	2
39	Spatiotemporal Analysis of Ground Deformation at Campi Flegrei and Mt Vesuvius, Italy, Observed by Envisat and Radarsat-2 InSAR During 2003â€“2013. <i>Lecture Notes in Earth System Sciences</i> , 2014, , 377-382.	0.5	3
40	Magma storage and migration associated with the 2011â€“2012 El Hierro eruption: Implications for crustal magmatic systems at oceanic island volcanoes. <i>Journal of Geophysical Research: Solid Earth</i> , 2013, 118, 4361-4377.	1.4	83
41	Strain and stress fields along the Gibraltar Orogenic Arc: Constraints on active geodynamics. <i>Gondwana Research</i> , 2013, 23, 1071-1088.	3.0	51
42	Determinaci3n geod3sica del deslizamiento de falla para el terremoto de Lorca del 11 de Mayo de 2011 usando interferometr4a radar y GPS. <i>F4sica De La Tierra</i> , 2013, 24, .	0.1	0
43	Expanding maps, shrinking targets and hitting times. <i>Nonlinearity</i> , 2012, 25, 2443-2471.	0.6	11
44	The 2011 Lorca earthquake slip distribution controlled by groundwater crustal unloading. <i>Nature Geoscience</i> , 2012, 5, 821-825.	5.4	123
45	Using a Mesoscale Meteorological Model to Reduce the Effect of Tropospheric Water Vapour from DInSAR Data: A Case Study for the Island of Tenerife, Canary Islands. <i>Pure and Applied Geophysics</i> , 2012, 169, 1425-1441.	0.8	13
46	An Elliptical Model for Deformation Due to Groundwater Fluctuations. <i>Pure and Applied Geophysics</i> , 2012, 169, 1443-1456.	0.8	4
47	Deformation and Gravity Change: Indicators of Isostasy, Tectonics, Volcanism and Climate Change, Volume III. Introduction. <i>Pure and Applied Geophysics</i> , 2012, 169, 1329-1330.	0.8	1
48	A new gravity inversion method for multiple subhorizontal discontinuity interfaces and shallow basins. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	25
49	Simultaneous inversion of surface deformation and gravity changes by means of extended bodies with a free geometry: Application to deforming calderas. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	28
50	Error estimation in multitemporal InSAR deformation time series, with application to Lanzarote, Canary Islands. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	56
51	Drought-driven transient aquifer compaction imaged using multitemporal satellite radar interferometry. <i>Geology</i> , 2011, 39, 551-554.	2.0	47
52	Source parameters of the 2008 Bukavu-Cyangugu earthquake estimated from InSAR and teleseismic data. <i>Geophysical Journal International</i> , 2011, 184, 934-948.	1.0	29
53	Ground deformation in the Taupo Volcanic Zone, New Zealand, observed by ALOS PALSAR interferometry. <i>Geophysical Journal International</i> , 2011, 187, 147-160.	1.0	32
54	The 3-D gravity inversion package GROWTH2.0 and its application to Tenerife Island, Spain. <i>Computers and Geosciences</i> , 2011, 37, 621-633.	2.0	39

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55	3D analytical and numerical modelling of the regional topography influence on the surface deformation due to underground heat source. Contributions To Geophysics and Geodesy, 2011, 41, 251-265.	0.2	1
56	Space- and Time-Dependent Probabilities for Earthquake Fault Systems from Numerical Simulations: Feasibility Study and First Results. Pure and Applied Geophysics, 2010, 167, 967-977.	0.8	7
57	Coseismic Horizontal Offsets and Fault-Trace Mapping Using Phase Correlation of IRS Satellite Images: The 1999 Izmit (Turkey) Earthquake. IEEE Transactions on Geoscience and Remote Sensing, 2010, 48, 2242-2250.	2.7	16
58	Optical satellite images for co-seismic horizontal offsets estimate and fault trace mapping using Phase-corr technique. , 2010, , .		0
59	Long-term versus short-term deformation processes at Tenerife (Canary Islands). Journal of Geophysical Research, 2010, 115, .	3.3	11
60	Shallow flank deformation at Cumbre Vieja volcano (Canary Islands): Implications on the stability of steep-sided volcano flanks at oceanic islands. Earth and Planetary Science Letters, 2010, 297, 545-557.	1.8	51
61	Characterization of the distribution of water vapour for DInSAR studies on the volcanic island of Tenerife, Canary Islands. , 2009, , .		1
62	Coseismic Three-Dimensional Displacements Determined Using SAR Data: Theory and an Application Test. Pure and Applied Geophysics, 2009, 166, 1403-1424.	0.8	13
63	GPS Monitoring of the Tropical Storm Delta along the Canary Islands Track, November 28-29, 2005. Pure and Applied Geophysics, 2009, 166, 1519-1531.	0.8	13
64	Geodetic and Structural Research in La Palma, Canary Islands, Spain: 1992-2007 Results. Pure and Applied Geophysics, 2009, 166, 1461-1484.	0.8	15
65	Deformation and Gravity Change: Indicators of Isostasy, Tectonics, Volcanism and Climate Change, Volume II. Introduction. Pure and Applied Geophysics, 2009, 166, 1165-1166.	0.8	1
66	Spatiotemporal gravity changes on volcanoes: Assessing the importance of topography. Geophysical Research Letters, 2009, 36, .	1.5	10
67	Gravity-driven deformation of Tenerife measured by InSAR time series analysis. Geophysical Research Letters, 2009, 36, .	1.5	47
68	Structural results for La Palma island using 3D gravity inversion. Journal of Geophysical Research, 2009, 114, .	3.3	33
69	Geodetic and Structural Research in La Palma, Canary Islands, Spain: 1992-2007 Results. , 2009, , 1461-1484.		1
70	Coseismic Three-Dimensional Displacements Determined Using SAR Data: Theory and an Application Test. , 2009, , 1403-1424.		0
71	On the Mathematical Analysis of an Elastic-gravitational Layered Earth Model for Magmatic Intrusion: The Stationary Case. Pure and Applied Geophysics, 2008, 165, 1465-1490.	0.8	2
72	Time Evolution of Deformation Using Time Series of Differential Interferograms: Application to La Palma Island (Canary Islands). Pure and Applied Geophysics, 2008, 165, 1531-1554.	0.8	15

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73	Introduction: Linking Earth Sciences and Mathematics. Pure and Applied Geophysics, 2008, 165, 997-1001.	0.8	1
74	An Upper Limit to Ground Deformation in the Island of Tenerife, Canary Islands, for the Period 1997-2006. Pure and Applied Geophysics, 2008, 165, 1049-1070.	0.8	10
75	Postseismic Deformation Following the 1994 Northridge Earthquake Identified Using the Localized Hartley Transform Filter. Pure and Applied Geophysics, 2008, 165, 1577-1602.	0.8	3
76	Introduction to Earth Sciences and Mathematics, Volume II. Pure and Applied Geophysics, 2008, 165, 1459-1463.	0.8	1
77	A gravity gradient method for characterizing the post-seismic deformation field for a finite fault. Geophysical Journal International, 2008, 173, 802-805.	1.0	6
78	A general method for calculating co-seismic gravity changes in complex fault systems. Computers and Geosciences, 2008, 34, 1541-1549.	2.0	0
79	4D volcano gravimetry. Geophysics, 2008, 73, WA3-WA18.	1.4	119
80	On the interpretation of gravity tide residuals in the Iberian Peninsula. Journal of Geodynamics, 2008, 45, 18-31.	0.7	3
81	Shallow structure beneath the Central Volcanic Complex of Tenerife from new gravity data: Implications for its evolution and recent reactivation. Physics of the Earth and Planetary Interiors, 2008, 168, 212-230.	0.7	89
82	DInSAR, GPS and gravity observation results in La Palma, Canary islands. , 2008, , .		2
83	Systematic InSAR monitoring of African active volcanic zones: What we have learned in three years, or an harvest beyond our expectations. , 2008, , .		10
84	Surface deformation studies of Tenerife Island, Spain from joint GPS-DInSAR observations. , 2008, , .		1
85	An Upper Limit to Ground Deformation in the Island of Tenerife, Canary Islands, for the Period 1997-2006. , 2008, , 1049-1070.		1
86	On the Mathematical Analysis of an Elastic-gravitational Layered Earth Model for Magmatic Intrusion: The Stationary Case. , 2008, , 1465-1490.		0
87	Postseismic Deformation Following the 1994 Northridge Earthquake Identified Using the Localized Hartley Transform Filter. , 2008, , 1577-1602.		0
88	Topography and self-gravitation interaction in elastic-gravitational modeling. Geochemistry, Geophysics, Geosystems, 2007, 8, n/a-n/a.	1.0	8
89	Three-dimensional indirect boundary element method for deformation and gravity changes in volcanic areas: Application to Teide volcano (Tenerife, Canary Islands). Journal of Geophysical Research, 2007, 112, .	3.3	11
90	Some Insights into Topographic, Elastic and Self-gravitation Interaction in Modelling Ground Deformation and Gravity Changes in Active Volcanic Areas. Pure and Applied Geophysics, 2007, 164, 865-878.	0.8	11

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91	A Hybrid Model for the Summit Region of Merapi Volcano, Java, Indonesia, Derived from Gravity Changes and Deformation Measured between 2000 and 2002. Pure and Applied Geophysics, 2007, 164, 837-850.	0.8	1
92	Shear-wave Velocity Structure around Teide Volcano: Results Using Microtremors with the SPAC Method and Implications for Interpretation of Geodetic Results. Pure and Applied Geophysics, 2007, 164, 697-720.	0.8	9
93	Interpretation of 1992â€“1994 Gravity Changes around Mayon Volcano, Philippines, Using Point Sources. Pure and Applied Geophysics, 2007, 164, 733-749.	0.8	11
94	Modeling of Stress Changes at Mayon Volcano, Philippines. Pure and Applied Geophysics, 2007, 164, 819-835.	0.8	0
95	Deformation and Gravity Change: Indicators of Isostasy, Tectonics, Volcanism and Climate Change. Introduction. Pure and Applied Geophysics, 2007, 164, 633-635.	0.8	1
96	Shear-wave Velocity Structure around Teide Volcano: Results Using Microtremors with the SPAC Method and Implications for Interpretation of Geodetic Results. , 2007, , 697-720.		0
97	Modeling of Stress Changes at Mayon Volcano, Philippines. , 2007, , 819-835.		0
98	Interpretation of 1992â€“1994 Gravity Changes around Mayon Volcano, Philippines, Using Point Sources. , 2007, , 733-749.		0
99	On the relative importance of self-gravitation and elasticity in modeling volcanic ground deformation and gravity changes. Journal of Geophysical Research, 2006, 111, n/a-n/a.	3.3	15
100	Gravity changes from a stress evolution earthquake simulation of California. Journal of Geophysical Research, 2006, 111, .	3.3	16
101	New evidence for the reawakening of Teide volcano. Geophysical Research Letters, 2006, 33, .	1.5	55
102	Spatiotemporal variations in vertical gravity gradients at the Campi Flegrei caldera (Italy): a case for source multiplicity during unrest?. Geophysical Journal International, 2006, 167, 1089-1096.	1.0	35
103	A revision of the FORTRAN codes GRAVW to compute deformation produced by a point magma intrusion in elastic-gravitational layered earth models. Computers and Geosciences, 2006, 32, 275-281.	2.0	9
104	On the interpretation of vertical gravity gradients produced by magmatic intrusions. Journal of Geodynamics, 2005, 39, 475-492.	0.7	16
105	Modeling the density at Merapi volcano area, Indonesia, via the inverse gravimetric problem. Geochemistry, Geophysics, Geosystems, 2005, 6, n/a-n/a.	1.0	34
106	Deeper understanding of non-linear geodetic data inversion using a quantitative sensitivity analysis. Nonlinear Processes in Geophysics, 2005, 12, 373-379.	0.6	8
107	Detection of displacements on Tenerife Island, Canaries, using radar interferometry. Geophysical Journal International, 2004, 160, 33-45.	1.0	38
108	Volcanic source inversion using a genetic algorithm and an elastic-gravitational layered earth model for magmatic intrusions. Computers and Geosciences, 2004, 30, 985-1001.	2.0	27

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109	Geodetic and Geophysical Effects Associated with Seismic and Volcanic Hazards. Pure and Applied Geophysics, 2004, 161, 1301-1303.	0.8	0
110	GPS Monitoring in the N-W Part of the Volcanic Island of Tenerife, Canaries, Spain: Strategy and Results. Pure and Applied Geophysics, 2004, 161, 1359-1377.	0.8	20
111	Study of Volcanic Sources at Long Valley Caldera, California, Using Gravity Data and a Genetic Algorithm Inversion Technique. Pure and Applied Geophysics, 2004, 161, 1399-1413.	0.8	3
112	New Results at Mayon, Philippines, from a Joint Inversion of Gravity and Deformation Measurements. Pure and Applied Geophysics, 2004, 161, 1433-1452.	0.8	19
113	Postseismic viscoelastic-gravitational half space computations: Problems and solutions. Geophysical Research Letters, 2004, 31, n/a-n/a.	1.5	11
114	Study of Volcanic Sources at Long Valley Caldera, California, Using Gravity Data and a Genetic Algorithm Inversion Technique. , 2004, , 1399-1413.		0
115	New Results at Mayon, Philippines, from a Joint Inversion of Gravity and Deformation Measurements. , 2004, , 1433-1452.		5
116	GPS Monitoring in the N-W Part of the Volcanic Island of Tenerife, Canaries, Spain: Strategy and Results. , 2004, , 1359-1377.		4
117	A new approach to the monitoring of deformation on Lanzarote (Canary Islands): an 8-year radar perspective. Bulletin of Volcanology, 2003, 65, 1-7.	1.1	6
118	New geodetic monitoring system in the volcanic island of Tenerife, Canaries, Spain. Combination of InSAR and GPS techniques. Journal of Volcanology and Geothermal Research, 2003, 124, 241-253.	0.8	43
119	InSAR volcano and seismic monitoring in Spain. Results for the period 1992â€“2000 and possible interpretations. Optics and Lasers in Engineering, 2002, 37, 285-297.	2.0	21
120	Joint interpretation of displacement and gravity data in volcanic areas. A test example: Long Valley Caldera, California. Geophysical Research Letters, 2001, 28, 1063-1066.	1.5	26
121	Inflation or deflation? New results for Mayon Volcano applying elastic-gravitational modeling. Geophysical Research Letters, 2001, 28, 2349-2352.	1.5	36
122	Interpretation of tidal gravity anomalies in Lanzarote, Canary Islands. Journal of Geodynamics, 2001, 31, 341-354.	0.7	20
123	Viscoelastic displacement and gravity changes due to point magmatic intrusions in a gravitational layered solid earth. Geophysical Journal International, 2001, 146, 155-170.	1.0	27
124	Ground deformation in a viscoelastic medium composed of a layer overlying a half-space: a comparison between point and extended sources. Geophysical Journal International, 2000, 140, 37-50.	1.0	49
125	Spherical and ellipsoidal volcanic sources at Long Valley caldera, California, using a genetic algorithm inversion technique. Journal of Volcanology and Geothermal Research, 2000, 102, 189-206.	0.8	113
126	Sensitivity test of the geodetic network in Las CaÃ±adas Caldera, Tenerife, for volcano monitoring. Journal of Volcanology and Geothermal Research, 2000, 103, 393-407.	0.8	19



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127	Geodetic methods for detecting volcanic unrest: a theoretical approach. Bulletin of Volcanology, 1999, 60, 534-544.	1.1	32
128	Inverting the parameters of an earthquake-ruptured fault with a genetic algorithm. Computers and Geosciences, 1998, 24, 173-182.	2.0	16
129	Programs to compute deformation due to a magma intrusion in elastic-gravitational layered Earth models. Computers and Geosciences, 1997, 23, 231-249.	2.0	35
130	Surface deformation due to a strike-slip fault in an elastic gravitational layer overlying a viscoelastic gravitational half-space. Journal of Geophysical Research, 1996, 101, 3199-3214.	3.3	23
131	Horizontal viscoelastic-gravitational displacement due to a rectangular dipping thrust fault in a layered Earth model. Journal of Geophysical Research, 1996, 101, 13581-13594.	3.3	22
132	Some comments on the effects of earth models on ground deformation modelling. Studia Geophysica Et Geodaetica, 1996, 40, 14-24.	0.3	5
133	Deformation produced by a rectangular dipping fault in a viscoelastic-gravitational layered earth model. Part I: Thrust faultâ€™FLTGRV and FLTGRH FORTRAN programs. Computers and Geosciences, 1996, 22, 735-750.	2.0	21
134	Deformation produced by a rectangular dipping fault in a viscoelastic-gravitational layered earth model. Part II: Strike-slip faultâ€™STRGRV and STRGRH FORTRAN programs. Computers and Geosciences, 1996, 22, 751-764.	2.0	7
135	FORTRAN program to compute displacement, potential, and gravity changes resulting from a magma intrusion in a multilayered Earth model. Computers and Geosciences, 1994, 20, 461-510.	2.0	26
136	Gravity changes and deformation due to a magmatic intrusion in a two-layered crustal model. Journal of Geophysical Research, 1994, 99, 2737-2746.	3.3	61
137	Investigations on crustal thickness, heat flow and gravity tide relationship in Lanzarote Island. Physics of the Earth and Planetary Interiors, 1992, 74, 199-208.	0.7	13
138	Application of multi-sensor advanced DInSAR analysis to severe land subsidence recognition: Alto GuadaleitÃn Basin (Spain). Proceedings of the International Association of Hydrological Sciences, 0, 372, 45-48.	1.0	2
139	DETECCIÃ“N DEL INICIO DE REACTIVACIÃ“N VOLCÃ“NICA EN LA ISLA DE LA PALMA, ISLAS CANARIAS, Y ESTUDIO DE SU EVOLUCIÃ“N TEMPORAL. , 0, , .		0