MarÃ-a Charco

List of Publications by Year
in descending order

20	257	933447 10	940533 16
papers	citations	h-index	g-index

22	22	22	217
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Inflation or deflation? New results for Mayon Volcano applying elastic-gravitational modeling. Geophysical Research Letters, 2001, 28, 2349-2352.	4.0	36
2	Volcanic source inversion using a genetic algorithm and an elastic-gravitational layered earth model for magmatic intrusions. Computers and Geosciences, 2004, 30, 985-1001.	4.2	27
3	Perturbing effects of sub-lithospheric mass anomalies in GOCE gravity gradient and other gravity data modelling: Application to the Atlantic-Mediterranean transition zone. International Journal of Applied Earth Observation and Geoinformation, 2015, 35, 54-69.	2.8	27
4	Joint interpretation of displacement and gravity data in volcanic areas. A test example: Long Valley Caldera, California. Geophysical Research Letters, 2001, 28, 1063-1066.	4.0	26
5	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.	1.9	20
6	New Results at Mayon, Philippines, from a Joint Inversion of Gravity and Deformation Measurements. Pure and Applied Geophysics, 2004, 161, 1433-1452.	1.9	19
7	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
8	Efficient inversion of three-dimensional finite element models of volcano deformation. Geophysical Journal International, 2014, 196, 1441-1454.	2.4	13
9	Threeâ€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
10	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.	1.9	11
11	Interpretation of 1992â€“1994 Gravity Changes around Mayon Volcano, Philippines, Using Point Sources. Pure and Applied Geophysics, 2007, 164, 733-749.	1.9	11
12	Spatiotemporal gravity changes on volcanoes: Assessing the importance of topography. Geophysical Research Letters, 2009, 36, .	4.0	10
13	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.	4.2	9
14	Topography and self-gravitation interaction in elastic-gravitational modeling. Geochemistry, Geophysics, Geosystems, 2007, 8, n/a-n/a.	2.5	8
15	Magma Flow Rates and Temporal Evolution of the 2012â€“2014 Postâ€Eruptive Intrusions at El Hierro, Canary Islands. Journal of Geophysical Research: Solid Earth, 2019, 124, 12576-12592.	3.4	5
16	Time-Scales of Inter-Eruptive Volcano Uplift Signals: Three Sisters Volcanic Center, Oregon (United) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	1.8	5
17	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.	1.9	3
18	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.	0.6	1

#	Article	IF	Citations
19	Introduction to Mathematics and Geosciences: Global and Local Perspectives, Volume II. Pure and Applied Geophysics, 2016, 173, 731-737.	1.9	0
20	Finite Element Numerical Solution for Modelling Ground Deformation in Volcanic Areas. Understanding Complex Systems, 2011, , 223-237.	0.6	0