

# Eulã lia Grã cia

## List of Publications by Year in descending order

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94  
papers

4,282  
citations

101384

36  
h-index

118652

62  
g-index

106  
all docs

106  
docs citations

106  
times ranked

4033  
citing authors

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | The quest for the Africa-Eurasia plate boundary west of the Strait of Gibraltar. Earth and Planetary Science Letters, 2009, 280, 13-50.   | 1.8 | 288       |
| 2  | Three-dimensional distribution of gas hydrate beneath southern Hydrate Ridge: constraints from ODP Leg 204. Earth and Planetary Science Letters, 2004, 222, 845-862.                                | 1.8 | 278       |
| 3  | Prospective randomized trial comparing conventional laparoscopic colectomy with hand-assisted laparoscopic colectomy. Surgical Endoscopy and Other Interventional Techniques, 2002, 16, 234-239.    | 1.3 | 176       |
| 4  | Diagenetic formation of greigite and pyrrhotite in gas hydrate marine sedimentary systems. Earth and Planetary Science Letters, 2007, 261, 350-366.   | 1.8 | 148       |
| 5  | Feeding methane vents and gas hydrate deposits at south Hydrate Ridge. Geophysical Research Letters, 2004, 31, .  | 1.5 | 146       |
| 6  | Holocene earthquake record offshore Portugal (SW Iberia): testing turbidite paleoseismology in a slow-convergence margin. Quaternary Science Reviews, 2010, 29, 1156-1172.                          | 1.4 | 135       |
| 7  | Mapping active faults offshore Portugal (36°N-38°N): Implications for seismic hazard assessment along the southwest Iberian margin. Geology, 2003, 31, 83.  | 2.0 | 132       |
| 8  | Historical and pre-historical tsunamis in the Mediterranean and its connected seas: Geological signatures, generation mechanisms and coastal impacts. Marine Geology, 2014, 354, 81-109.            | 0.9 | 128       |
| 9  | Crustal architecture and tectonic evolution of the Gulf of Cadiz (SW Iberian margin) at the convergence of the Eurasian and African plates. Tectonics, 2003, 22, n/a-n/a.                           | 1.3 | 122       |
| 10 | Active faulting offshore SE Spain (Alboran Sea): Implications for earthquake hazard assessment in the Southern Iberian Margin. Earth and Planetary Science Letters, 2006, 241, 734-749.             | 1.8 | 120       |
| 11 | Non-transform offsets along the Mid-Atlantic Ridge south of the Azores (38°N-34°N): ultramafic exposures and hosting of hydrothermal vents. Earth and Planetary Science Letters, 2000, 177, 89-103. | 1.8 | 115       |
| 12 | AMADEUS: advanced manipulation for deep underwater sampling. IEEE Robotics and Automation Magazine, 1997, 4, 34-45.   | 2.2 | 110       |
| 13 | Seismic evidence for the presence of Jurassic oceanic crust in the central Gulf of Cadiz (SW Iberian)   | 1.8 | 106       |
| 14 | Morphostructure and evolution of the central and Eastern Bransfield Basins (NW Antarctic)   | 0.5 | 99        |
| 15 | Very high-resolution seismoacoustic imaging of seagrass meadows (Mediterranean Sea): Implications for carbon sink estimates. Geophysical Research Letters, 2008, 35, .                              | 1.5 | 99        |
| 16 | Late Holocene Rupture of the Northern San Andreas Fault and Possible Stress Linkage to the Cascadia Subduction Zone. Bulletin of the Seismological Society of America, 2008, 98, 861-889.           | 1.1 | 92        |
| 17 | Sediment instability on the Portuguese continental margin under abrupt glacial climate changes (last)   | 1.4 | 73        |
| 18 | Seismic evidence of exhumed mantle rock basement at the Goringe Bank and the adjacent Horseshoe and Tagus abyssal plains (SW Iberia). Earth and Planetary Science Letters, 2013, 365, 120-131.      | 1.8 | 71        |

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|----|--|-----|-----------|
| 19 | Submersible observations of Equatorial Atlantic mantle: The St. Paul Fracture Zone region. <i>Marine Geophysical Researches</i> , 2000, 21, 529-560.   | 0.5 | 65        |
| 20 | The West Melilla cold water coral mounds, Eastern Alboran Sea: Morphological characterization and environmental context. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2014, 99, 316-326.  | 0.6 | 63        |
| 21 | Seismic and gravity constraints on the nature of the basement in the Africa-Eurasia plate boundary: New insights for the geodynamic evolution of the SW Iberian margin. <i>Journal of Geophysical Research: Solid Earth</i> , 2014, 119, 127-149.          | 1.4 | 61        |
| 22 | Deep sea explosive activity on the Mid-Atlantic Ridge near 34°50'N: Magma composition, vesicularity and volatile content. <i>Journal of Volcanology and Geothermal Research</i> , 2000, 98, 49-77.   | 0.8 | 59        |
| 23 | Ecological characterisation of a Mediterranean cold-water coral reef: Cabliers Coral Mound Province (Alboran Sea, western Mediterranean). <i>Progress in Oceanography</i> , 2019, 175, 245-262.  | 1.5 | 59        |
| 24 | Second-order segmentation; the relationship between volcanism and tectonism at the MAR, 38°N-35°40'N. <i>Earth and Planetary Science Letters</i> , 2000, 178, 231-251.   | 1.8 | 57        |
| 25 | Seafloor characterization and backscatter variability of the Almería Margin (Alboran Sea, SW) <i>Tectonophysics</i> , 2019, 770, 1027-1040.  | 0.9 | 57        |
| 26 | Strike-slip faults mediate the rise of crustal-derived fluids and mud volcanism in the deep sea. <i>Geology</i> , 2015, 43, 339-342.   | 2.0 | 56        |
| 27 | Large, deepwater slope failures: Implications for landslide-generated tsunamis. <i>Geology</i> , 2012, 40, 931-934.  | 2.0 | 50        |
| 28 | Central and eastern Bransfield basins (Antarctica) from high-resolution swath-bathymetry data. <i>Antarctic Science</i> , 1997, 9, 168-180.  | 0.5 | 48        |
| 29 | Cenozoic deformational structures on the Galicia Bank Region (NW Iberian continental margin). <i>Marine Geology</i> , 2008, 249, 128-149.  | 0.9 | 46        |
| 30 | Marine Transform Faults and Fracture Zones: A Joint Perspective Integrating Seismicity, Fluid Flow and Life. <i>Frontiers in Earth Science</i> , 2019, 7, .  | 0.8 | 46        |
| 31 | Rise of the base of the gas hydrate zone since the last glacial recorded by rock magnetism. <i>Geology</i> , 2006, 34, 117.  | 2.0 | 45        |
| 32 | Evidence for active strike-slip faulting along the Eurasia-Africa convergence zone: Implications for seismic hazard in the southwest Iberian margin. <i>Geology</i> , 2012, 40, 495-498.   | 2.0 | 43        |
| 33 | Active deformation in old oceanic lithosphere and significance for earthquake hazard: Seismic imaging of the Coral Patch Ridge area and neighboring abyssal plains (SW Iberian Margin). <i>Geochemistry, Geophysics, Geosystems</i> , 2013, 14, 2206-2231. | 1.0 | 42        |
| 34 | Thrust-wrench interference between major active faults in the Gulf of Cadiz (Africa-Eurasia plate) <i>Tectonophysics</i> , 2012, 548-549, 1-21.  | 0.9 | 40        |
| 35 | Along-axis magmatic oscillations and exposure of ultramafic rocks in a second-order segment of the Mid-Atlantic Ridge (33°43'N to 34°07'N). <i>Geology</i> , 1997, 25, 1059.   | 2.0 | 39        |
| 36 | Compressional tectonic inversion of the Algero-Balearic basin: Latest Miocene to present oblique convergence at the Palomares margin (Western Mediterranean). <i>Tectonics</i> , 2015, 34, 1516-1543.  | 1.3 | 37        |

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|----|--|-----|-----------|
| 37 | High-resolution seismic stratigraphy of the Galicia Bank Region and neighbouring abyssal plains (NW Tj ETQq1 1 0,784314 rgBT /Ove  | 0,9 | 36        |
| 38 | Seismicity and active tectonics in the Alboran Sea, Western Mediterranean: Constraints from an offshore–onshore seismological network and swath bathymetry data. <i>Journal of Geophysical Research: Solid Earth</i> , 2015, 120, 8348-8365. | 1.4 | 36        |
| 39 | The tributary valley systems of the Almeria Canyon (Alboran Sea, SW Mediterranean): Sedimentary architecture. <i>Marine Geology</i> , 2006, 226, 207-223.  | 0.9 | 33        |
| 40 | Acoustic and seismic imaging of the Adra Fault (NE Alboran Sea): in search of the source of the 1910 Adra earthquake. <i>Natural Hazards and Earth System Sciences</i> , 2012, 12, 3255-3267.  | 1.5 | 33        |
| 41 | The Crustal Domains of the Alboran Basin (Western Mediterranean). <i>Tectonics</i> , 2018, 37, 3352-3377.  | 1.3 | 30        |
| 42 | Identifying instrumental and historical earthquake records in the SW Iberian margin using <sup>210</sup> Pb turbidite chronology. <i>Geophysical Research Letters</i> , 2006, 33, .  | 1.5 | 29        |
| 43 | Detailed geological mapping of two contrasting second-order segments of the Mid-Atlantic Ridge between Oceanographer and Hayes fracture zones (33°30'N-35°N). <i>Journal of Geophysical Research</i> , 1999, 104, 22903-22921.               | 3.3 | 28        |
| 44 | Seismic imaging of staircase layers below the Mediterranean Undercurrent. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2010, 57, 1345-1353.  | 0.6 | 28        |
| 45 | The Bajo Segura Fault Zone: Active blind thrusting in the Eastern Betic Cordillera (SE Spain). <i>Journal of Iberian Geology</i> , 2012, 38, .   | 0.7 | 26        |
| 46 | Geological characterization of the Prestige sinking area. <i>Marine Pollution Bulletin</i> , 2006, 53, 208-219.  | 2.3 | 24        |
| 47 | Earthquake crisis unveils the growth of an incipient continental fault system. <i>Nature Communications</i> , 2019, 10, 3482.  | 5.8 | 24        |
| 48 | Kinematics of active spreading in the central North Fiji Basin (Southwest Pacific). <i>Marine Geology</i> , 1994, 116, 69-87.  | 0.9 | 23        |
| 49 | Title is missing!. <i>Marine Geophysical Researches</i> , 1998, 20, 425-458.   | 0.5 | 22        |
| 50 | Quaternary tectonic activity of the Carboneras Fault in the La Serrata range (SE Iberia): Geomorphological and chronological constraints. <i>Tectonophysics</i> , 2015, 663, 78-94.  | 0.9 | 22        |
| 51 | Characterization of the submesoscale energy cascade in the Alboran Sea thermocline from spectral analysis of high-resolution MCS data. <i>Geophysical Research Letters</i> , 2016, 43, 6461-6468.  | 1.5 | 22        |
| 52 | Probabilistic mapping of earthquake-induced submarine landslide susceptibility in the South-West Iberian margin. <i>Marine Geology</i> , 2020, 429, 106296.  | 0.9 | 22        |
| 53 | Active tectonics and drainage evolution in the Tunisian Atlas driven by interaction between crustal shortening and mantle dynamics. <i>Geomorphology</i> , 2020, 351, 106954.  | 1.1 | 21        |
| 54 | Propagating rift and overlapping spreading center in the North Fiji Basin. <i>Marine Geology</i> , 1994, 116, 37-56.   | 0.9 | 20        |

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|----|---|-----|-----------|
| 55 | Active oceanic spreading in the northern North Fiji Basin: Results of the NOFI cruise of R/V L'Atalante (newstarmer project). <i>Marine Geophysical Researches</i> , 1996, 18, 225-247.   | 0.5 | 20        |
| 56 | AMADEUS: advanced manipulator for deep underwater sampling. , 0, , .  |     | 20        |
| 57 | Recent sedimentary processes in the Prestige site area (Galicia Bank, NW Iberian Margin) evidenced by high-resolution marine geophysical methods. <i>Marine Geology</i> , 2008, 249, 21-45.   | 0.9 | 20        |
| 58 | Geomorphology and Neogene tectonic evolution of the Palomares continental margin (Western) Tj ETQq0 0 0 rgBT/Overlock 10 Tf 50 6  | 0.9 | 20        |
| 59 | Quaternary active tectonic structures in the offshore Bajo Segura basin (SE Iberian Peninsula "Tj ETQq1 1 0.784314 rgBT/Overlock 19   | 1.5 | 19        |
| 60 | Seismostratigraphy and tectonic architecture of the Carboneras Fault offshore based on multiscale seismic imaging: Implications for the Neogene evolution of the NE Alboran Sea. <i>Tectonophysics</i> , 2016, 689, 115-132.  | 0.9 | 18        |
| 61 | Morphostructure, tectono-sedimentary evolution and seismic potential of the Horseshoe Fault, <scp>SW</scp> Iberian Margin. <i>Basin Research</i> , 2018, 30, 382-400.   | 1.3 | 18        |
| 62 | The evolution of the westernmost Mediterranean basins. <i>Earth-Science Reviews</i> , 2021, 214, 103445.  | 4.0 | 18        |
| 63 | The Lithospheric Structure of the Gibraltar Arc System From Wide-Angle Seismic Data. <i>Journal of Geophysical Research: Solid Earth</i> , 2020, 125, e2020JB019854.  | 1.4 | 16        |
| 64 | Multi-scale morphologic variability of the North Fiji Basin ridge (Southwest Pacific). <i>Marine Geology</i> , 1994, 116, 133-151.  | 0.9 | 15        |
| 65 | Propagating rift west of the Fiji Archipelago (North Fiji Basin, SW Pacific). <i>Journal of Geophysical Research</i> , 1995, 100, 17823-17835.  | 3.3 | 15        |
| 66 | Preface: Marine and Lake Paleoseismology. <i>Natural Hazards and Earth System Sciences</i> , 2013, 13, 3469-3478.   | 1.5 | 14        |
| 67 | Tracking the Mediterranean outflow in the Gulf of Cadiz. <i>Progress in Oceanography</i> , 2017, 157, 47-71.  | 1.5 | 14        |
| 68 | Tectonic evolution, geomorphology and influence of bottom currents along a large submarine canyon system: The SÁ&o Vicente Canyon (SW Iberian margin). <i>Marine Geology</i> , 2020, 426, 106219.   | 0.9 | 14        |
| 69 | Kinematic analysis of secondary faults within a distributed shear-zone reveals fault linkage and increased seismic hazard. <i>Marine Geology</i> , 2018, 399, 23-33.  | 0.9 | 13        |
| 70 | The Alpine Orogeny in the West and Southwest Iberia Margins. <i>Regional Geology Reviews</i> , 2019, , 487-505.   | 1.2 | 13        |
| 71 | Gas hydrate disturbance fabrics of southern Hydrate Ridge sediments (ODP Leg 204): Relationship with texture and physical properties. <i>Geo-Marine Letters</i> , 2007, 27, 279-288.  | 0.5 | 12        |
| 72 | Automatic Segmentation of Multi-Beam Data for Predictive Mapping of Benthic Habitats on the Chella Seamount (North-Eastern Alboran Sea, Western Mediterranean). <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2011, 4, 809-813. | 2.3 | 12        |

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|----|--|-----|-----------|
| 73 | Evidences of human impact on megabenthic assemblages of bathyal sediments in the Alboran Sea (western Mediterranean). <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2020, 165, 103369.  | 0.6 | 12        |
| 74 | Variability of the axial morphology and of the gravity structure along the Central Spreading Ridge (North Fiji Basin): evidence for contrasting thermal regimes. <i>Marine Geophysical Researches</i> , 1996, 18, 249-273.                                 | 0.5 | 11        |
| 75 | Volcano-tectonic variability along segments of the Mid-Atlantic Ridge between Azores platform and Hayes fracture zone: evidence from submersible and high-resolution sidescan sonar data. <i>Geological Society Special Publication</i> , 1998, 148, 1-15. | 0.8 | 11        |
| 76 | A mixed turbidite “contourite system related to a major submarine canyon: The Marquês de Pombal Drift (southwest Iberian margin). <i>Sedimentology</i> , 2021, 68, 2069-2096.  | 1.6 | 11        |
| 77 | Evidence for sinistral strike-slip deformation in The Solomon Island arc. <i>Geo-Marine Letters</i> , 1994, 14, 232-237.   | 0.5 | 10        |
| 78 | Quaternary Seismostratigraphy and Tectonosedimentary Evolution of the North Tunisian Continental Margin. <i>Tectonics</i> , 2020, 39, e2020TC006243.   | 1.3 | 10        |
| 79 | Genesis of mud volcano fluids in the Gulf of Cadiz using a novel basin-scale model approach. <i>Geochimica Et Cosmochimica Acta</i> , 2018, 243, 186-204.  | 1.6 | 9         |
| 80 | Seismic Diffraction Imaging to Characterize Mass Transport Complexes: Examples From the Gulf of Cadiz, South West Iberian Margin. <i>Journal of Geophysical Research: Solid Earth</i> , 2021, 126, e2020JB021474.  | 1.4 | 9         |
| 81 | 15 Habitat Mapping of Cold-Water Corals in the Mediterranean Sea. <i>Coral Reefs of the World</i> , 2019, , 157-171.   | 0.3 | 8         |
| 82 | Habitats of the Chella Bank, Eastern Alboran Sea (Western Mediterranean). , 2012, , 681-690.   |     | 7         |
| 83 | Glacial-aged development of the Tunisian Coral Mound Province controlled by glacio-eustatic oscillations and changes in surface productivity. <i>Marine Geology</i> , 2022, 446, 106772.   | 0.9 | 7         |
| 84 | From gravity cores to overpressure history: the importance of measured sediment physical properties in hydrogeological models. <i>Geological Society Special Publication</i> , 2020, 500, 289-300.   | 0.8 | 6         |
| 85 | The Horseshoe Abyssal plain Thrust could be the source of the 1755 Lisbon earthquake and tsunami. <i>Communications Earth &amp; Environment</i> , 2021, 2, .   | 2.6 | 6         |
| 86 | Active Faults in Iberia. <i>Regional Geology Reviews</i> , 2020, , 33-75.  | 1.2 | 4         |
| 87 | Rock Magnetic Identification of Magnetic Iron Sulfides and Its Bearing on the Occurrence of Gas Hydrates, ODP Leg 204 (Hydrate Ridge). , 0, , .  |     | 4         |
| 88 | Near-pristine benthic habitats on the Francesc Pagès Bank, Alboran Sea, western Mediterranean. , 2020, , 889-901.  |     | 3         |
| 89 | Data Report: Grain-Size and Bulk and Clay Mineralogy of Sediments from the Summit and Flanks of Southern Hydrate Ridge, Sites 1244-1250, ODP Leg 204. , 0, , .   |     | 3         |
| 90 | Sensitivity of Tsunami Scenarios to Complex Fault Geometry and Heterogeneous Slip Distribution: Case Studies for SW Iberia and NW Morocco. <i>Journal of Geophysical Research: Solid Earth</i> , 2021, 126, e2021JB022127.                                 | 1.4 | 3         |

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|----|---|-----|-----------|
| 91 | Active Tectonics of the North Tunisian Continental Margin. <i>Tectonics</i> , 2022, 41, .   | 1.3 | 2         |
| 92 | Quantitative textural analyses of TOBI sonar imagery along the Almería Canyon, Almería Margin, Alborán Sea, SE Spain. <i>Geological Society Special Publication</i> , 2005, 244, 141-154. | 0.8 | 1         |
| 93 | MDPI Oceans: A New Publication Channel for Open Access Science Focused on the Ocean. <i>Oceans</i> , 2019, 1, 1-5.  | 0.6 | 1         |
| 94 | A first appraisal of the seismogenic and tsunamigenic potential of the largest fault systems in the westernmost Mediterranean. <i>Marine Geology</i> , 2022, 445, 106749.                 | 0.9 | 1         |