

Martin Pa Jackson

List of Publications by Year in descending order

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Version: 2024-02-01

50
papers

5,312
citations

87888

38
h-index

189892

50
g-index

50
all docs

50
docs citations

50
times ranked

2087
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 1 | Terra infirma: Understanding salt tectonics. <i>Earth-Science Reviews</i> , 2007, 82, 1-28. | 9.1 | 548 |
| 2 | The rise of diapirs during thin-skinned extension. <i>Marine and Petroleum Geology</i> , 1992, 9, 331-354. | 3.3 | 540 |
| 3 | External shapes, strain rates, and dynamics of salt structures. <i>Bulletin of the Geological Society of America</i> , 1986, 97, 305. | 3.3 | 341 |
| 4 | Rheological and tectonic modeling of salt provinces. <i>Tectonophysics</i> , 1993, 217, 143-174. | 2.2 | 327 |
| 5 | Regional extension as a geologic trigger for diapirism. <i>Bulletin of the Geological Society of America</i> , 1994, 106, 57-73. | 3.3 | 294 |
| 6 | The fall of diapirs during thin-skinned extension. <i>Marine and Petroleum Geology</i> , 1992, 9, 354-371. | 3.3 | 243 |
| 7 | Raft tectonics in the Kwanza Basin, Angola. <i>Marine and Petroleum Geology</i> , 1992, 9, 389-404. | 3.3 | 243 |
| 8 | Structural Dynamics of Salt Systems. <i>Annual Review of Earth and Planetary Sciences</i> , 1994, 22, 93-117. | 11.0 | 207 |
| 9 | Role of subaerial volcanic rocks and mantle plumes in creation of South Atlantic margins: implications for salt tectonics and source rocks. <i>Marine and Petroleum Geology</i> , 2000, 17, 477-498. | 3.3 | 162 |
| 10 | Mechanics of active salt diapirism. <i>Tectonophysics</i> , 1993, 228, 275-312. | 2.2 | 160 |
| 11 | Advance of allochthonous salt sheets in passive margins and orogens. <i>AAPG Bulletin</i> , 2006, 90, 1535-1564. | 1.5 | 151 |
| 12 | Regional restoration across the Kwanza Basin, Angola: Salt tectonics triggered by repeated uplift of a metastable passive margin. <i>AAPG Bulletin</i> , 2004, 88, 971-990. | 1.5 | 130 |
| 13 | Kinematic analysis of faults in a physical model of growth faulting above a viscous salt analogue. <i>Tectonophysics</i> , 1993, 228, 313-329. | 2.2 | 113 |
| 14 | Superposed deformation straddling the continental-oceanic transition in deep-water Angola. <i>Marine and Petroleum Geology</i> , 2000, 17, 1095-1109. | 3.3 | 102 |
| 15 | Inflation and deflation of deeply buried salt stocks during lateral shortening. <i>Journal of Structural Geology</i> , 2009, 31, 582-600. | 2.3 | 97 |
| 16 | Neoproterozoic allochthonous salt tectonics during the Lufilian orogeny in the Katangan Copperbelt, central Africa. <i>Bulletin of the Geological Society of America</i> , 2003, 115, 314-330. | 3.3 | 96 |
| 17 | Anatomy of mushroom-shaped diapirs. <i>Journal of Structural Geology</i> , 1989, 11, 211-230. | 2.3 | 95 |
| 18 | Structural segmentation, inversion, and salt tectonics on a passive margin: Evolution of the Inner Kwanza Basin, Angola. <i>Bulletin of the Geological Society of America</i> , 2002, 114, 1222-1244. | 3.3 | 82 |

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|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 19 | Enigmatic structures within salt walls of the Santos Basin—Part 1: Geometry and kinematics from 3D seismic reflection and well data. <i>Journal of Structural Geology</i> , 2015, 75, 135-162. | 2.3 | 76 |
| 20 | Initiation of gravitational collapse of an evaporite basin margin: The Messinian saline giant, Levant Basin, eastern Mediterranean. <i>Bulletin of the Geological Society of America</i> , 2008, 120, 399-413. | 3.3 | 75 |
| 21 | Early Archean foredeep sedimentation related to crustal shortening: a reinterpretation of the Barberton Sequence, Southern Africa. <i>Tectonophysics</i> , 1987, 136, 197-221. | 2.2 | 71 |
| 22 | Stratigraphic record of translation down ramps in a passive-margin salt detachment. <i>Journal of Structural Geology</i> , 2005, 27, 889-911. | 2.3 | 64 |
| 23 | Structural evolution of salt-influenced fold-and-thrust belts: A synthesis and new insights from basins containing isolated salt diapirs. <i>Journal of Structural Geology</i> , 2018, 114, 206-221. | 2.3 | 64 |
| 24 | An allochthonous salt canopy on Axel Heiberg Island, Sverdrup Basin, Arctic Canada. <i>Geology</i> , 2006, 34, 1045. | 4.4 | 58 |
| 25 | Structure and evolution of Upheaval Dome: A pinched-off salt diapir. <i>Bulletin of the Geological Society of America</i> , 1998, 110, 1547-1573. | 3.3 | 56 |
| 26 | Initiation and growth of salt-based thrust belts on passive margins: results from physical models. <i>Basin Research</i> , 2007, 19, 165-177. | 2.7 | 55 |
| 27 | Interaction between spreading salt canopies and their peripheral thrust systems. <i>Journal of Structural Geology</i> , 2009, 31, 1114-1129. | 2.3 | 54 |
| 28 | Diapiric spoke patterns. <i>Tectonophysics</i> , 1991, 188, 187-201. | 2.2 | 50 |
| 29 | Gum rosin (colophony): A suitable material for thermomechanical modelling of the lithosphere. <i>Tectonophysics</i> , 1992, 210, 255-271. | 2.2 | 50 |
| 30 | Diapirism on Triton: A record of crustal layering and instability. <i>Geology</i> , 1993, 21, 299. | 4.4 | 50 |
| 31 | Viscous flow during salt welding. <i>Tectonophysics</i> , 2011, 510, 309-326. | 2.2 | 50 |
| 32 | Geometry and evolution of salt structures in a marginal rift basin of the Gulf of Mexico, east Texas. <i>Geology</i> , 1983, 11, 131. | 4.4 | 48 |
| 33 | Understanding the kinematics of salt-bearing passive margins: A critical test of competing hypotheses for the origin of the Albian Gap, Santos Basin, offshore Brazil. <i>Bulletin of the Geological Society of America</i> , 2015, 127, 1730-1751. | 3.3 | 48 |
| 34 | Allochthonous salt in the sub-Alpine fold-and-thrust belt of Haute Provence, France. <i>Geological Society Special Publication</i> , 2012, 363, 595-615. | 1.3 | 47 |
| 35 | Evolution of the Cretaceous Astrid thrust belt in the ultradeep-water Lower Congo Basin, Gabon. <i>AAPG Bulletin</i> , 2008, 92, 487-511. | 1.5 | 46 |
| 36 | Origin and timing of layer-bound radial faulting around North Sea salt stocks: New insights into the evolving stress state around rising diapirs. <i>Marine and Petroleum Geology</i> , 2013, 48, 130-148. | 3.3 | 44 |

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|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 37 | Salt Tectonics. Scientific American, 1987, 257, 70-79. | 1.0 | 40 |
| 38 | The paradox of minibasin subsidence into salt: Clues to the evolution of crustal basins. Bulletin of the Geological Society of America, 2006, preprint, 1. | 3.3 | 40 |
| 39 | Strain partitioning in gravity-driven shortening of a thick, multilayered evaporite sequence. Geological Society Special Publication, 2012, 363, 449-470. | 1.3 | 39 |
| 40 | Enigmatic structures within salt walls of the Santos Basin—Part 2: Mechanical explanation from physical modelling. Journal of Structural Geology, 2015, 75, 163-187. | 2.3 | 39 |
| 41 | Lateral mobility of minibasins during shortening: Insights from the SE Precaspian Basin, Kazakhstan. Journal of Structural Geology, 2017, 97, 257-276. | 2.3 | 34 |
| 42 | Rb–Sr age and source of the Bimodal Suite of the Ancient Gneiss Complex, Swaziland. Nature, 1980, 283, 756-758. | 27.8 | 31 |
| 43 | Salt tectonics and collapse of Hebes Chasma, Valles Marineris, Mars. Geology, 2009, 37, 691-694. | 4.4 | 26 |
| 44 | Modeling the collapse of Hebes Chasma, Valles Marineris, Mars. Bulletin of the Geological Society of America, 2011, 123, 1596-1627. | 3.3 | 26 |
| 45 | The origin of salt-encased sediment packages: Observations from the SE Precaspian Basin (Kazakhstan). Journal of Structural Geology, 2017, 97, 237-256. | 2.3 | 26 |
| 46 | Continental-scale salt tectonics on Mars and the origin of Valles Marineris and associated outflow channels. Bulletin of the Geological Society of America, 2006, preprint, 1. | 3.3 | 25 |
| 47 | Predicting the depth of viscous stress peaks in moving salt sheets: Conceptual framework and implications for drilling. AAPG Bulletin, 2014, 98, 911-945. | 1.5 | 17 |
| 48 | Distinguishing salt welds from shale detachments on the inner Texas shelf, western Gulf of Mexico. Basin Research, 2009, 21, 47-59. | 2.7 | 15 |
| 49 | Origin of transverse folds in an extensional growth-fault setting: Evidence from an extensive seismic volume in the western Gulf of Mexico. Marine and Petroleum Geology, 2010, 27, 1494-1507. | 3.3 | 12 |
| 50 | Isochores and 3-D visualization of rising and falling salt diapirs. Marine and Petroleum Geology, 1999, 16, 849-861. | 3.3 | 5 |