

# Marc M Sosson

## List of Publications by Year in descending order

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73  
papers

2,933  
citations

117625

34  
h-index

175258

52  
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75  
all docs

75  
docs citations

75  
times ranked

1982  
citing authors

#	ARTICLE	IF	CITATIONS
1	Jurassic back-arc and Cretaceous hot-spot series In the Armenian ophiolites â€” Implications for the obduction process. <i>Lithos</i> , 2009, 112, 163-187.	1.4	143
2	Subductions, obduction and collision in the Lesser Caucasus (Armenia, Azerbaijan, Georgia), new insights. <i>Geological Society Special Publication</i> , 2010, 340, 329-352.	1.3	128
3	Back arc extension, tectonic inheritance, and volcanism in the Ligurian Sea, Western Mediterranean. <i>Tectonics</i> , 2002, 21, 6-1-6-23.	2.8	124
4	Evidence for âˆ¼480â€”75Ma subduction jump during Anatolideâ€”Taurideâ€”Armenian block accretion and âˆ¼448Ma Arabiaâ€”Eurasia collision in Lesser Caucasusâ€”East Anatolia. <i>Journal of Geodynamics</i> , 2012, 56-57, 76-85.	1.6	118
5	From oblique subduction to intra-continental transpression: Structures of the southern Kermadec-Hikurangi margin from multibeam bathymetry, side-scan sonar and seismic reflection. <i>Marine Geophysical Researches</i> , 1996, 18, 357-381.	1.2	116
6	Blueschists of the Amassia-Stepanavan Suture Zone (Armenia): linking Tethys subduction history from E-Turkey to W-Iran. <i>International Journal of Earth Sciences</i> , 2009, 98, 533-550.	1.8	109
7	Geology, geochemistry and <sup>40</sup> Ar/ <sup>39</sup> Ar dating of Sevan ophiolites (Lesser Caucasus, Armenia): Evidence for Jurassic Back-arc opening and hot spot event between the South Armenian Block and Eurasia. <i>Journal of Asian Earth Sciences</i> , 2009, 34, 135-153.	2.3	104
8	Oceanic-ridge subduction vs. slab break off: Plate tectonic evolution along the Baja California Sur continental margin since 15 Ma. <i>Geology</i> , 2006, 34, 13.	4.4	84
9	Prolonged Variscan to Alpine history of an active Eurasian margin (Georgia, Armenia) revealed by <sup>40</sup> Ar/ <sup>39</sup> Ar dating. <i>Gondwana Research</i> , 2011, 20, 798-815.	6.0	83
10	The Oligocene-Miocene Pacific-Australia plate boundary, south of New Zealand: Evolution from oceanic spreading to strike-slip faulting. <i>Earth and Planetary Science Letters</i> , 1997, 148, 129-139.	4.4	78
11	Development of the Gulf of Guayaquil (Ecuador) during the Quaternary as an effect of the North Andean block tectonic escape. <i>Tectonics</i> , 2006, 25, n/a-n/a.	2.8	74
12	Cenozoic-Recent tectonics and uplift in the Greater Caucasus: a perspective from Azerbaijan. <i>Geological Society Special Publication</i> , 2010, 340, 261-280.	1.3	74
13	The eastern Black Sea-Caucasus region during the Cretaceous: New evidence to constrain its tectonic evolution. <i>Comptes Rendus - Geoscience</i> , 2016, 348, 23-32.	1.2	67
14	Linking the NE Anatolian and Lesser Caucasus ophiolites: evidence for large-scale obduction of oceanic crust and implications for the formation of the Lesser Caucasus-Pontides Arc. <i>Geodinamica Acta</i> , 2013, 26, 311-330.	2.2	64
15	The denudation history of the Argentera Alpine External Crystalline Massif (Western Alps), Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 Acta, 2006, 19, 455-473.	2.2	57
16	Evidence for superposed MORB, oceanic plateau and volcanic arc series in the Lesser Caucasus (Stepanavan, Armenia). <i>Comptes Rendus - Geoscience</i> , 2007, 339, 482-492.	1.2	57
17	Late exhumation stages of the Alpujarride Complex (western Betic Cordilleras, Spain): new thermochronological and structural data on Los Reales and Ojen nappes. <i>Tectonophysics</i> , 1998, 285, 253-273.	2.2	55
18	The Armenian Ophiolite: insights for Jurassic back-arc formation, Lower Cretaceous hot spot magmatism and Upper Cretaceous obduction over the South Armenian Block. <i>Geological Society Special Publication</i> , 2010, 340, 353-382.	1.3	54

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19	New structural and petrological data on the Amasia ophiolites (NW Sevanâ€™Akerâ€™A sutures zone, Lesser Tj ETQq1 135-153.	1.0784314	54
20	Morphostructure of an incipient subduction zone along a transform plate boundary: Puysegur Ridge and Trench. <i>Geology</i> , 1995, 23, 519.	4.4	52
21	Neogene to Quaternary stress field evolution in Lesser Caucasus and adjacent regions using fault kinematics analysis and volcanic cluster data. <i>Geodynamica Acta</i> , 2005, 18, 401-416.	2.2	48
22	Crustal strain in the Southern Alps, France, 1948â€™1998. <i>Tectonophysics</i> , 2000, 319, 1-17.	2.2	47
23	From strike-slip faulting to oblique subduction: A survey of the Alpine Fault-Puysegur Trench transition, New Zealand, results of cruise Geodyn-sud leg 2. <i>Marine Geophysical Researches</i> , 1996, 18, 383-399.	1.2	45
24	Cenozoic denudation of Corsica in response to Ligurian and Tyrrhenian extension: Results from apatite fission track thermochronology. <i>Tectonics</i> , 2004, 23, n/a-n/a.	2.8	44
25	Pliocene deformation of the north-Ligurian margin (France) : consequences of a south-Alpine crustal thrust. <i>Bulletin - Societie Geologique De France</i> , 2004, 175, 197-211.	2.2	43
26	Recent tectonic stress evolution in the Lesser Caucasus and adjacent regions. <i>Geological Society Special Publication</i> , 2010, 340, 393-408.	1.3	43
27	Mass-transport deposits in the northern Ecuador subduction trench: Result of frontal erosion over multiple seismic cycles. <i>Earth and Planetary Science Letters</i> , 2010, 296, 89-102.	4.4	39
28	Seismic model of the crust and upper mantle in the Scythian Platform: the DOBRE-5 profile across the north western Black Sea and the Crimean Peninsula. <i>Geophysical Journal International</i> , 2015, 201, 406-428.	2.4	39
29	A review of the plate convergence history of the East Anatolia-Transcaucasus region during the Variscan: Insights from the Georgian basement and its connection to the Eastern Pontides. <i>Journal of Geodynamics</i> , 2016, 96, 131-145.	1.6	39
30	The East Anatoliaâ€™Lesser Caucasus ophiolite: An exceptional case of large-scale obduction, synthesis of data and numerical modelling. <i>Geoscience Frontiers</i> , 2020, 11, 83-108.	8.4	39
31	Offshore Oligo-Miocene volcanic fields within the Corsica-Liguria Basin: Magmatic diversity and slab evolution in the western Mediterranean Sea. <i>Journal of Geodynamics</i> , 2012, 58, 73-95.	1.6	37
32	Transition from the Farallon Plate subduction to the collision between South and Central America: Geological evolution of the Panama Isthmus. <i>Tectonophysics</i> , 2014, 622, 145-167.	2.2	37
33	A paleolatitude reconstruction of the South Armenian Block (Lesser Caucasus) for the Late Cretaceous: Constraints on the Tethyan realm. <i>Tectonophysics</i> , 2015, 644-645, 197-219.	2.2	35
34	Motion partitioning between the Pacific plate, Baja California and the North America plate: The Tosco-Abreojos fault revisited. <i>Geophysical Research Letters</i> , 2004, 31, .	4.0	34
35	Multi-stage metamorphism in the South Armenian Block during the Late Jurassic to Early Cretaceous: Tectonics over south-dipping subduction of Northern branch of Neotethys. <i>Journal of Asian Earth Sciences</i> , 2015, 102, 4-23.	2.3	34
36	Seabeam and seismic reflection imaging of the tectonic regime of the Andean continental margin off Peru (4â€™S to 10â€™S). <i>Earth and Planetary Science Letters</i> , 1988, 87, 111-126.	4.4	31

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37	Subsidence and strike-slip tectonism of the upper continental slope off Manzanillo, Mexico. <i>Tectonophysics</i> , 2005, 398, 115-140.	2.2	31
38	Diachronous cooling on both sides of a major strike slip fault in the Variscan Maures Massif (south-east France), as deduced from a detailed <sup>40</sup> Ar/ <sup>39</sup> Ar study. <i>Tectonophysics</i> , 2000, 321, 103-126.	2.2	30
39	Late Quaternary geomorphologic evolution of submarine canyons as a marker of active deformation on convergent margins: The example of the South Colombian margin. <i>Marine Geology</i> , 2012, 315-318, 77-97.	2.1	30
40	Obduction of old oceanic lithosphere due to reheating and plate reorganization: Insights from numerical modelling and the NE Anatolia " Lesser Caucasus case example. <i>Journal of Geodynamics</i> , 2016, 96, 35-49.	1.6	28
41	Reconstructing Upper Cretaceous (Cenomanian) paleoenvironments in Armenia based on Radiolaria and benthic Foraminifera; implications for the geodynamic evolution of the Tethyan realm in the Lesser Caucasus. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2014, 413, 123-132.	2.3	27
42	An offshore-onland transect across the north-eastern Black Sea basin (Crimean margin): Evidence of Paleocene to Pliocene two-stage compression. <i>Tectonophysics</i> , 2016, 688, 84-100.	2.2	27
43	Obduction triggered by regional heating during plate reorganization. <i>Terra Nova</i> , 2016, 28, 76-82.	2.1	27
44	Discovery of Middle Jurassic (Bajocian) Radiolaria from the sedimentary cover of the Vedi ophiolite (Lesser Caucasus, Armenia). <i>Comptes Rendus - Palevol</i> , 2008, 7, 327-334.	0.2	26
45	Sedimentary basin tectonics from the Black Sea and Caucasus to the Arabian Platform: introduction. <i>Geological Society Special Publication</i> , 2010, 340, 1-10.	1.3	25
46	SeaBeam and deep-sea submersible Nautilite surveys in the Chiclayo canyon off Peru (7°S): Subsidence and subduction-erosion of an Andean-type convergent margin since Pliocene times. <i>Marine Geology</i> , 1994, 118, 237-256.	2.1	24
47	Extension versus shortening models for hinterland-directed motions in the southern Quebec Appalachians. <i>Tectonophysics</i> , 1996, 267, 239-256.	2.2	24
48	From seafloor spreading to obduction: Jurassic-Cretaceous evolution of the northern branch of the Neotethys in the Northeastern Anatolian and Lesser Caucasus regions. <i>Geological Society Special Publication</i> , 2017, 428, 41-60.	1.3	23
49	Seafloor margin map helps in understanding subduction earthquakes. <i>Eos</i> , 2005, 86, 463.	0.1	22
50	Ordovician and Silurian metamorphic cooling ages along the Laurentian margin of the Quebec Appalachians: Bridging the gap between New England and Newfoundland. <i>Geology</i> , 1997, 25, 583.	4.4	21
51	Geological history of ophiolites in the Lesser Caucasus and correlation with the Izmir-Ankara-Erzincan suture zone: insights from radiolarian biochronology. <i>Bulletin - Societe Geologique De France</i> , 2012, 183, 331-342.	2.2	21
52	Progressive orocline formation in the Eastern Pontides-Lesser Caucasus. <i>Geological Society Special Publication</i> , 2017, 428, 117-143.	1.3	21
53	New and revised radiolarian biochronology for the sedimentary cover of ophiolites in the Lesser Caucasus (Armenia). <i>Geological Society Special Publication</i> , 2010, 340, 383-391.	1.3	20
54	Key problems of stratigraphy in the Eastern Crimea Peninsula: some insights from new dating and structural data. <i>Geological Society Special Publication</i> , 2017, 428, 265-306.	1.3	20

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55	Geochemistry of the Eocene magmatic rocks from the Lesser Caucasus area (Armenia): evidence of a subduction geodynamic environment. Geological Society Special Publication, 2017, 428, 73-98.	1.3	16
56	Tectonic Evolution of the Eastern Black Sea and Caucasus: an introduction. Geological Society Special Publication, 2017, 428, 1-9.	1.3	14
57	The deep structure of Corsica as inferred by a broad band seismological profile. Geophysical Research Letters, 1999, 26, 2661-2664.	4.0	12
58	Radiolarian biostratigraphic constraints for latest Jurassic-earliest Cretaceous submarine volcanic activity in the Tethyan oceanic realm of the Sevan ophiolite (Armenia). Bulletin - Societe Geologique De France, 2012, 183, 319-330.	2.2	11
59	New data on the tectonic evolution of the Khoy region, NW Iran. Geological Society Special Publication, 2017, 428, 99-116.	1.3	11
60	TECTONIC EVOLUTION OF THE NORTHERN MARGIN OF THE CENOZOIC ARARAT BASIN, LESSER CAUCASUS, ARMENIA. Journal of Petroleum Geology, 2018, 41, 495-511.	1.5	11
61	Influence of preexisting backstop structure on oblique tectonic accretion: The Fiordland margin (southwestern New Zealand). Geology, 1996, 24, 1045.	4.4	10
62	Multibeam bathymetry and sidescan imaging of the Rivera Transform-Moctezuma Spreading Segment junction, northern East Pacific Rise: New constraints on Rivera-Pacific relative plate motion. Tectonophysics, 2008, 454, 70-85.	2.2	10
63	Active Deformation along the Southern End of the Tosco-Abrejos Fault System: New Insights from Multibeam Swath Bathymetry. Pure and Applied Geophysics, 2011, 168, 1363-1372.	1.9	10
64	The Mid-Rivera-Transform Discordance: Morphology and Tectonic Development. Pure and Applied Geophysics, 2011, 168, 1391-1413.	1.9	9
65	Importance du volcanisme calco-alcalin miocène sur la marge sud-ouest de la Corse (campagne) Terre Et Des Planètes =, 1998, 327, 369-376.	0.2	6
66	Dénudations cénozoïques en Corse: une analyse thermochronologique par traces de fission sur apatites. Comptes Rendus De L'Académie Des Sciences Earth & Planetary Sciences Série II, Sciences De La Terre Et Des Planètes =, 2000, 331, 775-782.	0.2	5
67	Right-lateral active faulting between southern Baja California and the Pacific plate: The Tosco-Abrejos fault. , 2007, , .		5
68	Lithological nature of the subduction channel: Insights from the Karabakh suture zone (Lesser Caucasus) Tectonophysics, 2008, 454, 70-85.	1.6	5
69	Southwestern extension of the Papago Terrane into the Altar Desert region, northwestern Sonora, and its implications. , 1995, , 99-109.		3
70	Biostratigraphy and paleoenvironment of foraminiferal assemblages from neogene and quaternary deep-sea sediments collected during the nautimate cruise (Pacific Ocean, off Mexico, 18°N-21°N). Geodynamic implications. Revue De Micropaleontologie, 1997, 40, 97-111.	0.4	3
71	Palaeo-stress regimes and structural framework during the Mesozoic-Cenozoic tectonic evolution of the Crimean Mountains (the northern margin of the Black Sea). Journal of Asian Earth Sciences, 2021, 211, 104704.	2.3	2
72	Key problems of the eastern part of the Crimea Mountain stratigraphy. New micropaleontologic information for dating of flysch rocks. Geofizicheskiy Zhurnal, 2014, 36, 35-56.	0.2	2

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73	Northern Dobrogea and the Crimean Mountains: The Key Areas in the Tectonic Evolution of the Black Sea Basin. <i>Advances in Science, Technology and Innovation</i> , 2019, , 307-310.	0.4	0