

# Zhen Sun

## List of Publications by Year in descending order

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73  
papers

2,726  
citations

236925

25  
h-index

197818

49  
g-index

82  
all docs

82  
docs citations

82  
times ranked

1163  
citing authors

#	ARTICLE	IF	CITATIONS
1	Ages and magnetic structures of the South China Sea constrained by deep tow magnetic surveys and IODP Expedition 349. <i>Geochemistry, Geophysics, Geosystems</i> , 2014, 15, 4958-4983.	2.5	419
2	The sedimentary and tectonic evolution of the Yinggehai-Song Hong basin and the southern Hainan margin, South China Sea: Implications for Tibetan uplift and monsoon intensification. <i>Journal of Geophysical Research</i> , 2006, 111, n/a-n/a.	3.3	208
3	Rapid transition from continental breakup to igneous oceanic crust in the South China Sea. <i>Nature Geoscience</i> , 2018, 11, 782-789.	12.9	183
4	3D analogue modeling of the South China Sea: A discussion on breakup pattern. <i>Journal of Asian Earth Sciences</i> , 2009, 34, 544-556.	2.3	163
5	Seismic stratigraphy of the central South China Sea basin and implications for neotectonics. <i>Journal of Geophysical Research: Solid Earth</i> , 2015, 120, 1377-1399.	3.4	155
6	Mesozoic paleogeography and tectonic evolution of South China Sea and adjacent areas in the context of Tethyan and Paleoc-Pacific interconnections. <i>Island Arc</i> , 2008, 17, 186-207.	1.1	137
7	Structures within the oceanic crust of the central South China Sea basin and their implications for oceanic accretionary processes. <i>Earth and Planetary Science Letters</i> , 2018, 488, 115-125.	4.4	97
8	The role of magmatism in the thinning and breakup of the South China Sea continental margin. <i>National Science Review</i> , 2019, 6, 871-876.	9.5	95
9	Possible Spatial Distribution of the Mesozoic Volcanic Arc in the Present-Day South China Sea Continental Margin and Its Tectonic Implications. <i>Journal of Geophysical Research: Solid Earth</i> , 2018, 123, 6215-6235.	3.4	72
10	Lateral evolution of the rift-to-drift transition in the South China Sea: Evidence from multi-channel seismic data and IODP Expeditions 367&368 drilling results. <i>Earth and Planetary Science Letters</i> , 2020, 531, 115932.	4.4	72
11	Mesozoic subduction-accretion zone in northeastern south china sea inferred from geophysical interpretations. <i>Science in China Series D: Earth Sciences</i> , 2006, 49, 471-482.	0.9	67
12	The mechanism of post-rift fault activities in Baiyun sag, Pearl River Mouth basin. <i>Journal of Asian Earth Sciences</i> , 2014, 89, 76-87.	2.3	67
13	The South China Sea is not a mini-Atlantic: plate-edge rifting <i>vs</i> intra-plate rifting. <i>National Science Review</i> , 2019, 6, 902-913.	9.5	52
14	The dynamic mechanism of post-rift accelerated subsidence in Qiongdongnan Basin, northern South China Sea. <i>Marine Geophysical Researches</i> , 2013, 34, 295-308.	1.2	45
15	Cenozoic tectonic subsidence in the Qiongdongnan Basin, northern South China Sea. <i>Basin Research</i> , 2018, 30, 269-288.	2.7	45
16	Research on the dynamics of the South China Sea opening: Evidence from analogue modeling. <i>Science in China Series D: Earth Sciences</i> , 2006, 49, 1053-1069.	0.9	44
17	Filling history and post-breakup acceleration of sedimentation in Baiyun Sag, deepwater northern South China Sea. <i>Journal of Earth Science (Wuhan, China)</i> , 2009, 20, 160-171.	3.2	44
18	Structural differences between the western and eastern Qiongdongnan Basin: evidence of Indochina block extrusion and South China Sea seafloor spreading. <i>Marine Geophysical Researches</i> , 2013, 34, 309-323.	1.2	37

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19	Stretching characteristics and its dynamic significance of the northern continental margin of South China Sea. <i>Science in China Series D: Earth Sciences</i> , 2008, 51, 422-430.	0.9	35
20	Geophysical investigations of crust-scale structural model of the Qiongdongnan Basin, Northern South China Sea. <i>Marine Geophysical Researches</i> , 2013, 34, 259-279.	1.2	34
21	Patterns and dynamics of rifting on passive continental margin from shelf to slope of the northern South China Sea: Evidence from 3D analogue modeling. <i>Journal of Earth Science (Wuhan, China)</i> , 2009, 20, 136-146.	3.2	32
22	Dynamic analysis on rifting stage of Pearl River Mouth basin through analogue modeling. <i>Journal of Earth Science (Wuhan, China)</i> , 2010, 21, 439-454.	3.2	32
23	Expedition 349 summary. <i>Proceedings of the International Ocean Discovery Program</i> , 0, , .	0.0	31
24	Syn-rift magmatic characteristics and evolution at a sediment-rich margin: Insights from high-resolution seismic data from the South China Sea. <i>Gondwana Research</i> , 2021, 91, 81-96.	6.0	30
25	Tectono-Sedimentary Analysis of the Hyperextended Liwan Sag Basin (Midnorthern Margin of the) <i>Tj ETQq1 1 0.784314 rgBT /Overl</i>	2.8	27
26	Ocean-continent transition architecture and breakup mechanism at the mid-northern South China Sea. <i>Earth-Science Reviews</i> , 2021, 217, 103620.	9.1	27
27	The mechanics of continental extension in Qiongdongnan Basin, northern South China Sea. <i>Marine Geophysical Researches</i> , 2015, 36, 197-210.	1.2	26
28	Mantle upwelling beneath the South China Sea and links to surrounding subduction systems. <i>National Science Review</i> , 2019, 6, 877-881.	9.5	26
29	Structure and kinematic analysis of the deepwater area of the Qiongdongnan Basin through a seismic interpretation and analogue modeling experiments. <i>Acta Oceanologica Sinica</i> , 2015, 34, 32-40.	1.0	25
30	Origin of the Dongsha Event in the South China Sea. <i>Marine Geophysical Researches</i> , 2017, 38, 357-371.	1.2	25
31	The Latest Spreading Periods of the South China Sea: New Constraints From Macrostructure Analysis of IODP Expedition 349 Cores and Geophysical Data. <i>Journal of Geophysical Research: Solid Earth</i> , 2019, 124, 9980-9998.	3.4	21
32	Continental Interior and Edge Breakup at Convergent Margins Induced by Subduction Direction Reversal: A Numerical Modeling Study Applied to the South China Sea Margin. <i>Tectonics</i> , 2020, 39, e2020TC006409.	2.8	19
33	Expedition 367/368 methods. <i>Proceedings of the International Ocean Discovery Program</i> , 0, , .	0.0	18
34	Along-strike variability in shelf-margin morphology and accretion pattern: An example from the northern margin of the South China Sea. <i>Basin Research</i> , 2019, 31, 431-460.	2.7	17
35	Discovery of Mega-scale Sheath Folds Flooring the Liwan Subbasin (South China Sea): Implications for the Rheology of Hyperextended Crust. <i>Geochemistry, Geophysics, Geosystems</i> , 2020, 21, e2020GC009023.	2.5	17
36	Tectonic Analysis of the Breakup and Collision Unconformities in the Nansha Block. <i>Chinese Journal of Geophysics</i> , 2011, 54, 1069-1083.	0.2	16

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37	Crustal structure and deformation associated with seamount subduction at the north Manila Trench represented by analog and gravity modeling. <i>Marine Geophysical Researches</i> , 2013, 34, 393-406.	1.2	15
38	Lithospheric 3-D flexural modelling of subducted oceanic plate with variable effective elastic thickness along the Manila Trench. <i>Geophysical Journal International</i> , 2018, 215, 2071-2092.	2.4	15
39	Low-Viscosity Crustal Layer Controls the Crustal Architecture and Thermal Distribution at Hyperextended Margins: Modeling Insight and Application to the Northern South China Sea Margin. <i>Geochemistry, Geophysics, Geosystems</i> , 2019, 20, 3248-3267.	2.5	15
40	Analyses on the tectonic thermal evolution and influence factors in the deep-water Qiongdongnan Basin. <i>Acta Oceanologica Sinica</i> , 2014, 33, 107-117.	1.0	14
41	Cenozoic Subsidence and Lithospheric Stretching Deformation of the Baiyun Deepwater Area. <i>Chinese Journal of Geophysics</i> , 2011, 54, 1161-1168.	0.2	12
42	Expedition 367/368 summary. <i>Proceedings of the International Ocean Discovery Program</i> , 0, , .	0.0	11
43	Tectonic differences between eastern and western sub-basins of the Qiongdongnan Basin and their dynamics. <i>Marine Geophysical Researches</i> , 2015, 36, 61-79.	1.2	10
44	Site U1500. <i>Proceedings of the International Ocean Discovery Program</i> , 0, , .	0.0	10
45	Strontium isotope stratigraphy and LA-ICP-MS U-Pb carbonate age constraints on the Cenozoic tectonic evolution of the southern South China Sea. <i>Bulletin of the Geological Society of America</i> , 2023, 135, 271-285.	3.3	9
46	The relationship between extension of lower crust and displacement of the shelf break. <i>Science China Earth Sciences</i> , 2014, 57, 550-557.	5.2	8
47	Expedition 367 Preliminary Report: South China Sea Rifted Margin. <i>Preliminary Report</i> , 0, , .	0.0	8
48	Lithospheric flexural modelling of the seaward and trenchward of the subducting oceanic plates. <i>International Geology Review</i> , 2020, 62, 908-923.	2.1	7
49	Microstructures documenting Cenozoic extension processes in the northern continental margin of the South China Sea. <i>International Geology Review</i> , 2020, 62, 1094-1107.	2.1	7
50	Site U1501. <i>Proceedings of the International Ocean Discovery Program</i> , 0, , .	0.0	7
51	A study of faulting patterns in the Pearl River Mouth Basin through analogue modeling. <i>Marine Geophysical Researches</i> , 2013, 34, 209-219.	1.2	6
52	The Red River sediment budget in the Yinggehai and Qiongdongnan basins, northwestern South China Sea, and its tectonic implications. <i>International Geology Review</i> , 2020, 62, 1019-1035.	2.1	6
53	Site U1499. <i>Proceedings of the International Ocean Discovery Program</i> , 0, , .	0.0	6
54	Site U1502. <i>Proceedings of the International Ocean Discovery Program</i> , 0, , .	0.0	5

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55	Subduction initiation of the western Paleo-Asian Ocean linked to global tectonic reorganization: Insights from Cambrian island-arc magmatism within the West Junggar, NW China. <i>Bulletin of the Geological Society of America</i> , 2022, 134, 3099-3112.	3.3	5
56	Marginal basins of the NW Pacific and Eastern Eurasia. <i>International Geology Review</i> , 2020, 62, 781-788.	2.1	4
57	Site U1504. <i>Proceedings of the International Ocean Discovery Program</i> , 0, , .	0.0	4
58	The effects of plateau subduction on plate bending, stress and intraplate seismicity. <i>Terra Nova</i> , 2022, 34, 113-122.	2.1	4
59	The evolution of the slope breaks in Qiongdongnan Basin and their controlling factors. <i>Marine Geophysical Researches</i> , 2015, 36, 211-226.	1.2	3
60	Influence of mid-crustal rheology on the deformation behavior of continental crust in the continental subduction zone. <i>Journal of Geodynamics</i> , 2018, 117, 88-99.	1.6	3
61	Multi-stage carbonate veins at IODP Site U1504 document Early Cretaceous to early Cenozoic extensional events on the South China Sea margin. <i>Marine Geology</i> , 2021, 442, 106656.	2.1	3
62	Site U1503. <i>Proceedings of the International Ocean Discovery Program</i> , 0, , .	0.0	3
63	The paleo-lithospheric structure and rifting-magmatic processes of the northern South China Sea passive margin. <i>Gondwana Research</i> , 2023, 120, 162-174.	6.0	3
64	Fast generation of micro structured surface by applying PCD tools in micro turning. <i>International Journal of Advanced Manufacturing Technology</i> , 2017, 90, 1165-1176.	3.0	2
65	The structure, depositional style and accumulation characteristics of continental margin with diachronous breakup in the northern South China Sea. <i>International Geology Review</i> , 2020, 62, 1006-1018.	2.1	2
66	Compression-induced Anomalous Subsidence in the Extensional Sedimentary Basin: A Numerical Study From the Pearl River Mouth Basin, Northern South China Sea Margin. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL094750.	4.0	2
67	Site U1505. <i>Proceedings of the International Ocean Discovery Program</i> , 0, , .	0.0	2
68	Return to Site U1503. <i>Proceedings of the International Ocean Discovery Program</i> , 0, , .	0.0	2
69	Maturation of East Junggar oceanic arc related to supracrustal recycling driven by arc-arc collision: perspectives from zircon Hf-O isotopes. <i>International Journal of Earth Sciences</i> , 2022, 111, 2519-2533.	1.8	2
70	The spatial-temporal variations in dynamic uplift and deep mantle upwelling in the northwest South China Sea margin: Insights into continental rifting and magmatism. <i>Gondwana Research</i> , 2023, 120, 145-161.	6.0	2
71	Expedition 368X summary. <i>Proceedings of the International Ocean Discovery Program</i> , 0, , .	0.0	1
72	Expedition 368X methods supplement. <i>Proceedings of the International Ocean Discovery Program</i> , 0, , .	0.0	1

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73	Introduction to tectonics and sedimentation of Southeast Asian continental margin and marginal seas. Marine Geophysical Researches, 2015, 36, 99-100.	1.2	0