

Xianzhi Cao

List of Publications by Year in descending order

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117
papers

6,319
citations

109137

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71532

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121
all docs

121
docs citations

121
times ranked

2559
citing authors

#	ARTICLE	IF	CITATIONS
1	Geological reconstructions of the East Asian blocks: From the breakup of Rodinia to the assembly of Pangea. <i>Earth-Science Reviews</i> , 2018, 186, 262-286.	4.0	576
2	SHRIMP U-Pb zircon geochronology of the Liaoji granitoids: Constraints on the evolution of the Paleoproterozoic Jiao-Liao-Ji belt in the Eastern Block of the North China Craton. <i>Precambrian Research</i> , 2007, 158, 1-16.	1.2	435
3	Tectonics of South China continent and its implications. <i>Science China Earth Sciences</i> , 2013, 56, 1804-1828.	2.3	423
4	Closure of the Proto-Tethys Ocean and Early Paleozoic amalgamation of microcontinental blocks in East Asia. <i>Earth-Science Reviews</i> , 2018, 186, 37-75.	4.0	371
5	Mesozoic tectono-magmatic response in the East Asian ocean-continent connection zone to subduction of the Paleo-Pacific Plate. <i>Earth-Science Reviews</i> , 2019, 192, 91-137.	4.0	279
6	Paleoproterozoic structural evolution of the southern segment of the Jiao-Liao-Ji Belt, North China Craton. <i>Precambrian Research</i> , 2012, 200-203, 59-73.	1.2	245
7	Collision leading to multiple-stage large-scale extrusion in the Qinling orogen: Insights from the Mianlue suture. <i>Gondwana Research</i> , 2007, 12, 121-143.	3.0	238
8	Age of the subducting Pacific slab beneath East Asia and its geodynamic implications. <i>Earth and Planetary Science Letters</i> , 2017, 464, 166-174.	1.8	214
9	Triassic southeastward subduction of North China Block to South China Block: Insights from new geological, geophysical and geochemical data. <i>Earth-Science Reviews</i> , 2017, 166, 270-285.	4.0	208
10	Mesozoic basins in eastern China and their bearing on the deconstruction of the North China Craton. <i>Journal of Asian Earth Sciences</i> , 2012, 47, 64-79.	1.0	199
11	Cenozoic faulting of the Bohai Bay Basin and its bearing on the destruction of the eastern North China Craton. <i>Journal of Asian Earth Sciences</i> , 2012, 47, 80-93.	1.0	154
12	Intracontinental deformation in a frontier of super-convergence: A perspective on the tectonic milieu of the South China Block. <i>Journal of Asian Earth Sciences</i> , 2012, 49, 313-329.	1.0	133
13	SHRIMP U-Pb zircon dating of a metagabbro and eclogites from western Dabieshan (Hong'an Block), China, and its tectonic implications. <i>Tectonophysics</i> , 2004, 394, 171-192.	0.9	123
14	Thermochronological constraints on two-stage extrusion of HP/UHP terranes in the Dabie-Sulu orogen, east-central China. <i>Tectonophysics</i> , 2011, 504, 25-42.	0.9	115
15	Multistage anatexis during tectonic evolution from oceanic subduction to continental collision: A review of the North Qaidam UHP Belt, NW China. <i>Earth-Science Reviews</i> , 2019, 191, 190-211.	4.0	112
16	UPb zircon age and geochemical constraints on tectonic evolution of the Paleozoic accretionary orogenic system in the Tongbai orogen, central China. <i>Tectonophysics</i> , 2013, 599, 67-88.	0.9	104
17	Two-stage Triassic exhumation of HP-UHP terranes in the western Dabie orogen of China: Constraints from structural geology. <i>Tectonophysics</i> , 2010, 490, 267-293.	0.9	102
18	Eastward tectonic migration and transition of the Jurassic-Cretaceous Andean-type continental margin along Southeast China. <i>Earth-Science Reviews</i> , 2019, 196, 102884.	4.0	93

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19	Cenozoic tectonic jumping and implications for hydrocarbon accumulation in basins in the East Asia Continental Margin. <i>Journal of Asian Earth Sciences</i> , 2014, 88, 28-40.	1.0	80
20	Two-stage collision-related extrusion of the western Dabie HPâ€“UHP metamorphic terranes, central China: Evidence from quartz c-axis fabrics and structures. <i>Gondwana Research</i> , 2009, 16, 294-309.	3.0	74
21	Microplate tectonics: new insights from micro-blocks in the global oceans, continental margins and deep mantle. <i>Earth-Science Reviews</i> , 2018, 185, 1029-1064.	4.0	67
22	Seismic attenuation tomography of the Northeast Japan arc: Insight into the 2011 Tohoku earthquake (<i>M_w</i> 9.0) and subduction dynamics. <i>Journal of Geophysical Research: Solid Earth</i> , 2014, 119, 1094-1118.	1.4	66
23	Detrital zircon geochronology of Neoproterozoic to early Paleozoic sedimentary rocks in the North Qinling Orogenic Belt: Implications for the tectonic evolution of the Kuanping Ocean. <i>Precambrian Research</i> , 2016, 279, 1-16.	1.2	66
24	Lithospheric architecture and deformation of NE Tibet: New insights on the interplay of regional tectonic processes. <i>Earth and Planetary Science Letters</i> , 2016, 449, 89-95.	1.8	65
25	The northern boundary of the Proto-Tethys Ocean: Constraints from structural analysis and Uâ€“Pb zircon geochronology of the North Qinling Terrane. <i>Journal of Asian Earth Sciences</i> , 2015, 113, 560-574.	1.0	64
26	Source and accumulation of gas hydrate in the northern margin of the South China Sea. <i>Marine and Petroleum Geology</i> , 2016, 69, 127-145.	1.5	61
27	Structural anatomy and dynamics of evolution of the Qikou Sag, Bohai Bay Basin: Implications for the destruction of North China craton. <i>Journal of Asian Earth Sciences</i> , 2012, 47, 94-106.	1.0	52
28	Crustal structure of the southern Dabie ultrahigh-pressure orogen and Yangtze foreland from deep seismic reflection profiling. <i>Terra Nova</i> , 2004, 16, 319-324.	0.9	51
29	Coupling and transition of Mesoâ€“Cenozoic intracontinental deformation between the Taihang and Qinling Mountains. <i>Journal of Asian Earth Sciences</i> , 2015, 114, 188-202.	1.0	50
30	Long history of a Grenville orogen relic â€“ The North Qinling terrane: Evolution of the Qinling orogenic belt from Rodinia to Gondwana. <i>Precambrian Research</i> , 2015, 271, 98-117.	1.2	47
31	East Asian lithospheric evolution dictated by multistage Mesozoic flat-slab subduction. <i>Earth-Science Reviews</i> , 2021, 217, 103621.	4.0	43
32	Evolution of the Asian continent and its continental margins. <i>Journal of Asian Earth Sciences</i> , 2012, 47, 1-4.	1.0	42
33	Origin of the North Qinling Microcontinent and Proterozoic geotectonic evolution of the Kuanping Ocean, Central China. <i>Precambrian Research</i> , 2015, 266, 179-193.	1.2	41
34	Slab Rollback Versus Delamination: Contrasting Fates of Flatâ€“Slab Subduction and Implications for South China Evolution in the Mesozoic. <i>Journal of Geophysical Research: Solid Earth</i> , 2020, 125, e2019JB019164.	1.4	40
35	Dynamic processes of the curved subduction system in Southeast Asia: A review and future perspective. <i>Earth-Science Reviews</i> , 2021, 217, 103647.	4.0	39
36	Structural and kinematic analysis of Cenozoic rift basins in South China Sea: A synthesis. <i>Earth-Science Reviews</i> , 2021, 216, 103522.	4.0	38

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37	The Dynamic Topography of Eastern China Since the Latest Jurassic Period. <i>Tectonics</i> , 2018, 37, 1274-1291.	1.3	35
38	Geometry and timing of Mesozoic deformation in the western part of the Xuefeng Tectonic Belt, South China: Implications for intra-continental deformation. <i>Journal of Asian Earth Sciences</i> , 2012, 49, 330-338.	1.0	34
39	Dynamics of exhumation and deformation of HP-UHP orogens in double subduction-collision systems: Numerical modeling and implications for the Western Dabie Orogen. <i>Earth-Science Reviews</i> , 2018, 182, 68-84.	4.0	34
40	Plate tectonic control on the formation and tectonic migration of Cenozoic basins in northern margin of the South China Sea. <i>Geoscience Frontiers</i> , 2020, 11, 1231-1251.	4.3	33
41	Structural geometry of an exhumed UHP terrane in the eastern Sulu Orogen, China: Implications for continental collisional processes. <i>Journal of Structural Geology</i> , 2010, 32, 423-444.	1.0	32
42	Experimental study and active tectonics on the Zhangjiakou-Penglai fault zone across North China. <i>Journal of Asian Earth Sciences</i> , 2015, 114, 18-27.	1.0	32
43	Temporal and spatial distribution of Cenozoic igneous rocks in the South China Sea and its adjacent regions: implications for tectono-magmatic evolution. <i>Geological Journal</i> , 2016, 51, 429-447.	0.6	32
44	Detrital zircon U-Pb geochronology and provenance of the Sanxiatian Formation (Huade Group) in the North China Craton: Implications for the breakup of the Columbia supercontinent. <i>Precambrian Research</i> , 2018, 310, 305-319.	1.2	30
45	A deforming plate tectonic model of the South China Block since the Jurassic. <i>Gondwana Research</i> , 2022, 102, 3-16.	3.0	30
46	BASIC STRCUTURAL PATTERN AND TECTONIC MODELS OF THE SOUTH CHINA SEA: PROBLEMS, ADVANCES AND CONTROVERSIES. <i>Marine Geology & Quaternary Geology</i> , 2013, 32, 35-53.	0.1	30
47	A tectonic transition from closure of the Paleo-Asian Ÿcean to subduction of the Paleo-Pacific Plate: Insights from early Mesozoic igneous rocks in eastern Jilin Province, NE China. <i>Gondwana Research</i> , 2022, 102, 332-353.	3.0	29
48	Passive magmatism on Earth and Earth-like planets. <i>Geosystems and Geoenvironment</i> , 2022, 1, 100008.	1.7	29
49	Structural analysis of the northern Tongbai Metamorphic Terranes, Central China: Implications for Paleozoic accretionary process on the southern margin of the North China Craton. <i>Journal of Asian Earth Sciences</i> , 2012, 47, 143-154.	1.0	27
50	Holocene intracontinental deformation of the northern North China Plain: Evidence of tectonic ground fissures. <i>Journal of Asian Earth Sciences</i> , 2016, 119, 49-64.	1.0	27
51	Ocean-continent transition architecture and breakup mechanism at the mid-northern South China Sea. <i>Earth-Science Reviews</i> , 2021, 217, 103620.	4.0	27
52	Thermochronology of the Sulu ultrahigh-pressure metamorphic terrane: Implications for continental collision and lithospheric thinning. <i>Tectonophysics</i> , 2017, 712-713, 10-29.	0.9	25
53	Cenozoic positive inversion tectonics and its migration in the East China Sea Shelf Basin. <i>Geological Journal</i> , 2016, 51, 176-187.	0.6	24
54	The generation and reworking of continental crust during early Paleozoic in Gondwanan affinity terranes from the Tibet Plateau. <i>Earth-Science Reviews</i> , 2019, 190, 486-497.	4.0	24

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55	Spatio-temporal evolution and dynamic origin of Jurassic-Cretaceous magmatism in the South China Block. <i>Earth-Science Reviews</i> , 2021, 217, 103605.	4.0	24
56	The India-Eurasia convergence system: Late Oligocene to early Miocene passive roof thrusting driven by deep-rooted duplex stacking. <i>Geosystems and Geoenvironment</i> , 2022, 1, 100006.	1.7	23
57	Destruction effect on Meso-Neoproterozoic oil-gas traps derived from Meso-Cenozoic deformation in the North China Craton. <i>Precambrian Research</i> , 2019, 333, 105427.	1.2	22
58	Deep structures and surface boundaries among Proto-Tethyan micro-blocks: Constraints from seismic tomography and aeromagnetic anomalies in the Central China Orogen. <i>Tectonophysics</i> , 2015, 659, 109-121.	0.9	21
59	Porphyry copper and skarn fertility of the northern Qinghai-Tibet Plateau collisional granitoids. <i>Earth-Science Reviews</i> , 2021, 214, 103524.	4.0	21
60	CENOZOIC TECTONICS AND DYNAMICS OF BASIN GROUPS OF THE NORTHERN SOUTH CHINA SEA. <i>Marine Geology & Quaternary Geology</i> , 2013, 32, 79-93.	0.1	21
61	Long-term Phanerozoic sea level change from solid Earth processes. <i>Earth and Planetary Science Letters</i> , 2022, 584, 117451.	1.8	21
62	Formation, tectonic evolution and dynamics of the East China Sea Shelf Basin. <i>Geological Journal</i> , 2016, 51, 162-175.	0.6	20
63	Numerical modelling of stress fields and earthquakes jointly controlled by NE- and NW-trending fault zones in the Central North China Block. <i>Journal of Asian Earth Sciences</i> , 2015, 114, 28-40.	1.0	18
64	Precambrian tectonic affinity of the North Qinling Microcontinent: Constraints from the discovery of Mesoproterozoic magmatic zircons in the Qinling Group. <i>Geological Journal</i> , 2017, 52, 142-154.	0.6	18
65	Causes of earthquake spatial distribution beneath the Izu-Bonin-Mariana Arc. <i>Journal of Asian Earth Sciences</i> , 2018, 151, 90-100.	1.0	18
66	Neoproterozoic Amdo and Jiayuqiao microblocks in the Tibetan Plateau: Implications for Rodinia reconstruction. <i>Bulletin of the Geological Society of America</i> , 2021, 133, 663-678.	1.6	18
67	Meso-Cenozoic Evolution of Earth Surface System under the East Asian Tectonic Superconvergence. <i>Acta Geologica Sinica</i> , 2018, 92, 814-849.	0.8	17
68	Subduction collision and exhumation of eclogites in the Lhasa terrane, Tibet Plateau. <i>Gondwana Research</i> , 2022, 102, 394-404.	3.0	16
69	A tectonic-rules-based mantle reference frame since 1 billion years ago – implications for supercontinent cycles and plate mantle system evolution. <i>Solid Earth</i> , 2022, 13, 1127-1159.	1.2	16
70	Early Paleozoic Tarim Orocline: Insights from paleogeography and tectonic evolution in the Tarim Basin. <i>Geological Journal</i> , 2017, 52, 436-448.	0.6	14
71	The passive margin of northern Gondwana during Early Paleozoic: Evidence from the central Tibet Plateau. <i>Gondwana Research</i> , 2020, 78, 126-140.	3.0	14
72	Deep-shallow coupling response of the Cenozoic Bohai Bay Basin to plate interactions around the Eurasian Plate. <i>Gondwana Research</i> , 2022, 102, 180-199.	3.0	14

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73	The Bangong-Nujiang Suture Zone, Tibet Plateau: Its role in the tectonic evolution of the eastern Tethys Ocean. <i>Earth-Science Reviews</i> , 2021, 218, 103656.	4.0	14
74	Structural analysis of ductile shear zones in the North Qinling Orogen and its implications for the evolution of the Proto-Tethys Ocean. <i>Geological Journal</i> , 2017, 52, 202-214.	0.6	13
75	Diachroneity of continental subduction and exhumation: Constraints from the Permian-Triassic HP metamorphic terrane in the Tongbai orogen, central China. <i>Science Bulletin</i> , 2013, 58, 4397-4404.	1.7	12
76	Geodynamic mechanism and classification of basins in the Earth system. <i>Gondwana Research</i> , 2020, 102, 200-200.	3.0	12
77	Early Mesozoic intracontinental deformation in the eastern North China Block: Implication for an indentation model of North China to South China blocks. <i>Geological Journal</i> , 2017, 52, 8-21.	0.6	11
78	Late Triassic Dabie-Sulu Orocline: New exhumation model of the HP-UHP rocks. <i>Geological Journal</i> , 2017, 52, 22-31.	0.6	11
79	Linkage between reactivation of the sinistral strike-slip faults and 28 September 2018 Mw7.5 Palu earthquake, Indonesia. <i>Science Bulletin</i> , 2018, 63, 1635-1640.	4.3	11
80	Tectonic units of the Early Precambrian basement within the North China Craton: Constraints from gravitational and magnetic anomalies. <i>Precambrian Research</i> , 2018, 318, 122-132.	1.2	11
81	Early Paleozoic Orocline in the Central China Orogen. <i>Gondwana Research</i> , 2018, 63, 85-104.	3.0	11
82	Paleozoic to Mesozoic micro-block tectonics in the eastern Central Asian Orogenic Belt: Insights from magnetic and gravity anomalies. <i>Gondwana Research</i> , 2022, 102, 229-251.	3.0	11
83	Evolution of Meso-Cenozoic subduction zones in the ocean-continent connection zone of the eastern South China Block: Insights from gravity and magnetic anomalies. <i>Gondwana Research</i> , 2022, 102, 151-166.	3.0	11
84	Neotectonic implications and regional stress field constraints on mud volcanoes in offshore southwestern Taiwan. <i>Marine Geology</i> , 2018, 403, 109-122.	0.9	10
85	Early Jurassic and Late Cretaceous granites in the Tongka micro-block, Central Tibet: Implications for the evolution of the Bangong-Nujiang ocean. <i>Journal of Asian Earth Sciences</i> , 2020, 194, 104030.	1.0	10
86	High-silica rhyolites in the terminal stage of massive Cretaceous volcanism, SE China: Modified crustal sources and low-pressure magma chamber. <i>Gondwana Research</i> , 2022, 102, 133-150.	3.0	10
87	Coupled Evolution of Plate Tectonics and Basal Mantle Structure. <i>Geochemistry, Geophysics, Geosystems</i> , 2021, 22, .	1.0	10
88	A review of geohazards on the northern continental margin of the South China Sea. <i>Earth-Science Reviews</i> , 2021, 220, 103733.	4.0	10
89	Dynamic processes and mechanisms for collision to post-orogenic extension in the Western Dabie Orogen: Insights from numerical modeling. <i>Geological Journal</i> , 2017, 52, 44-58.	0.6	9
90	Mechanisms of submarine canyon formation on the northern continental slope of the South China Sea. <i>Geological Journal</i> , 2019, 54, 3389-3403.	0.6	9

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91	2.8â€“1.7ÂGa history of the Jiao-Liao-Ji Belt of the North China Craton from the geochronology and geochemistry of mafic Liaohe meta-igneous rocks. <i>Gondwana Research</i> , 2020, 85, 55-75.	3.0	9
92	The Earth evolution as a thermal system. <i>Geological Journal</i> , 2016, 51, 652-668.	0.6	8
93	Earth's surface responses during geodynamic evolution: Numerical insight from the southern East China Sea Continental Shelf Basin, West Pacific. <i>Gondwana Research</i> , 2022, 102, 167-179.	3.0	8
94	Mesozoic subduction-related accretion of micro-blocks in the East Asian Ocean-Continent Connection Zone. <i>Earth-Science Reviews</i> , 2021, 216, 103575.	4.0	8
95	Cenozoic faulting response of eastern North China to subduction of the Pacific Plate: A case of study of the Luxi Block. <i>Geological Journal</i> , 2017, 52, 70-80.	0.6	7
96	Incremental emplacement and syn-tectonic deformation of Late Triassic granites in the Qinling Orogen: Structural and geochronological constraints. <i>Gondwana Research</i> , 2019, 72, 194-212.	3.0	7
97	The Yanshanian (Mesozoic) metallogensis in China linked to crust-mantle interaction in the western Pacific margin: An overview from the Zhejiang Province. <i>Gondwana Research</i> , 2022, 102, 95-132.	3.0	7
98	Potential deep-buried petroleum systems in Meso-Neoproterozoic rifts of the southwestern North China Craton revealed by gravity anomalies. <i>Precambrian Research</i> , 2020, 346, 105764.	1.2	7
99	A missing link of the Proto-Tethys Ocean between the Qinling and Qilian orogens, China: Insights from geochronology and structural geology. <i>Geoscience Frontiers</i> , 2020, 11, 1495-1509.	4.3	7
100	Opposite thrust systems under the Subei-South Yellow Sea Basin: A synthesis on the closure of the eastern Tethyan Ocean. <i>Earth-Science Reviews</i> , 2022, 231, 104075.	4.0	7
101	Yanshanian deformation in Western Shandong, eastern North China Craton: Response to a transition from paleoâ€Pacific to Pacific Plate subduction. <i>Geological Journal</i> , 2017, 52, 32-43.	0.6	6
102	Magmatic activities and their impacts on oil/gas formation in the southwestern <i>Journal of Earth System Science</i> , 2018, 193, 178-189.	0.6	6
103	Late Cretaceous-Cenozoic cooling of the southern Lower Yangtze River area: A response to subduction of the Izanagi and Pacific plates. <i>Gondwana Research</i> , 2022, 102, 31-45.	3.0	6
104	Triassic orocline in East Asia: Insights from a transition from passive margin to foreland basin in eastern North China Block. <i>Geological Journal</i> , 2017, 52, 59-69.	0.6	5
105	Contrastive analysis of gravity and magnetic anomalies between North China Craton and Indian Shield. <i>Geological Journal</i> , 2019, 54, 1090-1106.	0.6	5
106	The trials and tribulations of the Hawaii hot spot model. <i>Earth-Science Reviews</i> , 2021, 215, 103544.	4.0	5
107	Cambrianâ€“Silurian sediments in the southeastern Qilian Orogen, NE Tibetan Plateau: Constraints on crustal and tectonic evolution of microcontinents in the northern Proto-Tethys Ocean. <i>Journal of Asian Earth Sciences</i> , 2022, 232, 105122.	1.0	5
108	Structural geology and tectonics in marine science: Perspectives in the research of deep sea and deep interior. <i>Journal of Ocean University of China</i> , 2012, 11, 257-266.	0.6	4

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109	Palaeomagnetic assessment of tectonic rotation in Northeast Asia and implications for the coupling of intracontinental deformation and mantle convection. <i>International Geology Review</i> , 2020, 62, 2166-2188.	1.1	4
110	Flexural subsidence modelling of post-rift paleobathymetry and sedimentary infill in the northern South China Sea margin. <i>Journal of Asian Earth Sciences</i> , 2022, 226, 105076.	1.0	4
111	Deep and surface driving forces to shape the Earth: Insights from the evolution of the northern South China Sea margin. <i>Gondwana Research</i> , 2022, , .	3.0	4
112	Origin and model of transform faults in the Okinawa Trough. <i>Marine Geophysical Researches</i> , 2017, 38, 137-147.	0.5	3
113	Implications of earthquakes for the slab subduction dynamic process in Southeast Asia. <i>Journal of Asian Earth Sciences</i> , 2020, 194, 103955.	1.0	2
114	Correlation of lithospheric unroofing of the Sulu-Dabie Orogen to tectonic-sedimentary process of the Hefei Basin: Constraints from Mesozoic coupling of basin and orogen. <i>Geological Journal</i> , 2020, 55, 694-711.	0.6	1
115	Yanshanian mineralization and geodynamic evolution in the Western Pacific Margin: A review of metal deposits of Zhejiang Province, China. <i>Ore Geology Reviews</i> , 2021, 135, 104216.	1.1	1
116	High-resolution teleseismic tomographic crustal imaging for potential seismogenic segment of the central Tan-Lu Fault Zone, East China. <i>Tectonophysics</i> , 2022, 823, 229196.	0.9	1
117	Mantle transition zone discontinuities beneath Taiwan and its adjacent areas: Implications for slab subductions. <i>Tectonophysics</i> , 2022, 826, 229248.	0.9	0