Xianzhi Cao

List of Publications by Year
in descending order

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Version: 2024-02-01

117 papers	6,319 citations	109137 35 h-index	71532 76 g-index
121 all docs	121 docs citations	121 times ranked	2559 citing authors

#	Article	IF	Citations
1	A deforming plate tectonic model of the South China Block since the Jurassic. Gondwana Research, 2022, 102, 3-16.	3.0	30
2	The Yanshanian (Mesozoic) metallogenesis in China linked to crust-mantle interaction in the western Pacific margin: An overview from the Zhejiang Province. Gondwana Research, 2022, 102, 95-132.	3.0	7
3	Paleozoic to Mesozoic micro-block tectonics in the eastern Central Asian Orogenic Belt: Insights from magnetic and gravity anomalies. Gondwana Research, 2022, 102, 229-251.	3.0	11
4	High-silica rhyolites in the terminal stage of massive Cretaceous volcanism, SE China: Modified crustal sources and low-pressure magma chamber. Gondwana Research, 2022, 102, 133-150.	3.0	10
5	Deep-shallow coupling response of the Cenozoic Bohai Bay Basin to plate interactions around the Eurasian Plate. Gondwana Research, 2022, 102, 180-199.	3.0	14
6	Evolution of Meso-Cenozoic subduction zones in the ocean-continent connection zone of the eastern South China Block: Insights from gravity and magnetic anomalies. Gondwana Research, 2022, 102, 151-166.	3.0	11
7	Earth's surface responses during geodynamic evolution: Numerical insight from the southern East China Sea Continental Shelf Basin, West Pacific. Gondwana Research, 2022, 102, 167-179.	3.0	8
8	A tectonic transition from closure of the Paleo-Asian ÎŸcean to subduction of the Paleo-Pacific Plate: Insights from early Mesozoic igneous rocks in eastern Jilin Province, NE China. Gondwana Research, 2022, 102, 332-353.	3.0	29
9	Subductionâ€“collision and exhumation of eclogites in the Lhasa terrane, Tibet Plateau. Gondwana Research, 2022, 102, 394-404.	3.0	16
10	Late Cretaceous-Cenozoic cooling of the southern Lower Yangtze River area: A response to subduction of the Izanagi and Pacific plates. Gondwana Research, 2022, 102, 31-45.	3.0	6
11	Passive magmatism on Earth and Earth-like planets. Geosystems and Geoenvironment, 2022, 1, 100008.	1.7	29
12	The Indiaâ€Eurasia convergence system: Late Oligocene to early Miocene passive roof thrusting driven by deepâ€rooted duplex stacking. Geosystems and Geoenvironment, 2022, 1, 100006.	1.7	23
13	Flexural subsidence modelling of post-rift paleobathymetry and sedimentary infill in the northern South China Sea margin. Journal of Asian Earth Sciences, 2022, 226, 105076.	1.0	4
14	High-resolution teleseismic tomographic crustal imaging for potential seismogenic segment of the central Tan-Lu Fault Zone, East China. Tectonophysics, 2022, 823, 229196.	0.9	1
15	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. Journal of Asian Earth Sciences, 2022, 232, 105122.	1.0	5
16	Mantle transition zone discontinuities beneath Taiwan and its adjacent areas: Implications for slab subductions. Tectonophysics, 2022, 826, 229248.	0.9	0
17	Long-term Phanerozoic sea level change from solid Earth processes. Earth and Planetary Science Letters, 2022, 584, 117451.	1.8	21
18	Deep and surface driving forces to shape the Earth: Insights from the evolution of the northern South China Sea margin. Gondwana Research, 2022, , .	3.0	4

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19	Opposite thrust systems under the Subei-South Yellow Sea Basin: A synthesis on the closure of the eastern Tethyan Ocean. Earth-Science Reviews, 2022, 231, 104075.	4.0	7
20	A tectonic-rules-based mantle reference frame since 1 billion years ago â€“ implications for supercontinent cycles and plateâ€“mantle system evolution. Solid Earth, 2022, 13, 1127-1159.	1.2	16
21	Neoproterozoic Amdo and Jiayuqiao microblocks in the Tibetan Plateau: Implications for Rodinia reconstruction. Bulletin of the Geological Society of America, 2021, 133, 663-678.	1.6	18
22	Coupled Evolution of Plate Tectonics and Basal Mantle Structure. Geochemistry, Geophysics, Geosystems, 2021, 22, .	1.0	10
23	Porphyry copper and skarn fertility of the northern Qinghai-Tibet Plateau collisional granitoids. Earth-Science Reviews, 2021, 214, 103524.	4.0	21
24	The trials and tribulations of the Hawaii hot spot model. Earth-Science Reviews, 2021, 215, 103544.	4.0	5
25	Structural and kinematic analysis of Cenozoic rift basins in South China Sea: A synthesis. Earth-Science Reviews, 2021, 216, 103522.	4.0	38
26	Mesozoic subduction-related accretion of micro-blocks in the East Asian Ocean-Continent Connection Zone. Earth-Science Reviews, 2021, 216, 103575.	4.0	8
27	East Asian lithospheric evolution dictated by multistage Mesozoic flat-slab subduction. Earth-Science Reviews, 2021, 217, 103621.	4.0	43
28	Dynamic processes of the curved subduction system in Southeast Asia: A review and future perspective. Earth-Science Reviews, 2021, 217, 103647.	4.0	39
29	Ocean-continent transition architecture and breakup mechanism at the mid-northern South China Sea. Earth-Science Reviews, 2021, 217, 103620.	4.0	27
30	Spatio-temporal evolution and dynamic origin of Jurassic-Cretaceous magmatism in the South China Block. Earth-Science Reviews, 2021, 217, 103605.	4.0	24
31	The Bangong-Nujiang Suture Zone, Tibet Plateau: Its role in the tectonic evolution of the eastern Tethys Ocean. Earth-Science Reviews, 2021, 218, 103656.	4.0	14
32	Yanshanian mineralization and geodynamic evolution in the Western Pacific Margin: A review of metal deposits of Zhejiang Province, China. Ore Geology Reviews, 2021, 135, 104216.	1.1	1
33	A review of geohazards on the northern continental margin of the South China Sea. Earth-Science Reviews, 2021, 220, 103733.	4.0	10
34	Correlation of lithospheric â€œdeâ€•rootingâ€•of the <scp>Suluâ€Dabie Orogen</scp> to tectonicâ€•sedimentary process of the <scp>Hefei Basin</scp>: Constraints from <scp>Mesozoic</scp> coupling of basin and orogen. Geological Journal, 2020, 55, 694-711.	0.6	1
35	Early Jurassic and Late Cretaceous granites in the Tongka micro-block, Central Tibet: Implications for the evolution of the Bangong-Nujiang ocean. Journal of Asian Earth Sciences, 2020, 194, 104030.	1.0	10
36	The passive margin of northern Gondwana during Early Paleozoic: Evidence from the central Tibet Plateau. Gondwana Research, 2020, 78, 126-140.	3.0	14

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37	Implications of earthquakes for the slab subduction dynamic process in Southeast Asia. Journal of Asian Earth Sciences, 2020, 194, 103955.	1.0	2
38	Palaeomagnetic assessment of tectonic rotation in Northeast Asiaï¼šimplications for the coupling of intracontinental deformation and mantle convection. International Geology Review, 2020, 62, 2166-2188.	1.1	4
39	Plate tectonic control on the formation and tectonic migration of Cenozoic basins in northern margin of the South China Sea. Geoscience Frontiers, 2020, 11, 1231-1251.	4.3	33
40	Geodynamic mechanism and classification of basins in the Earth system. Gondwana Research, 2020, 102, 200-200.	3.0	12
41	Potential deep-buried petroleum systems in Meso-Neoproterozoic rifts of the southwestern North China Craton revealed by gravity anomalies. Precambrian Research, 2020, 346, 105764.	1.2	7
42	Slab Rollback Versus Delamination: Contrasting Fates of Flatâ€Slab Subduction and Implications for South China Evolution in the Mesozoic. Journal of Geophysical Research: Solid Earth, 2020, 125, e2019JB019164.	1.4	40
43	A missing link of the Proto-Tethys Ocean between the Qinling and Qilian orogens, China: Insights from geochronology and structural geology. Geoscience Frontiers, 2020, 11, 1495-1509.	4.3	7
44	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. Gondwana Research, 2020, 85, 55-75.	3.0	9
45	Destruction effect on Meso-Neoproterozoic oil-gas traps derived from Meso-Cenozoic deformation in the North China Craton. Precambrian Research, 2019, 333, 105427.	1.2	22
46	The generation and reworking of continental crust during early Paleozoic in Gondwanan affinity terranes from the Tibet Plateau. Earth-Science Reviews, 2019, 190, 486-497.	4.0	24
47	Eastward tectonic migration and transition of the Jurassic-Cretaceous Andean-type continental margin along Southeast China. Earth-Science Reviews, 2019, 196, 102884.	4.0	93
48	Mesozoic tectono-magmatic response in the East Asian ocean-continent connection zone to subduction of the Paleo-Pacific Plate. Earth-Science Reviews, 2019, 192, 91-137.	4.0	279
49	Incremental emplacement and syn-tectonic deformation of Late Triassic granites in the Qinling Orogen: Structural and geochronological constraints. Gondwana Research, 2019, 72, 194-212.	3.0	7
50	Contrastive analysis of gravity and magnetic anomalies between North China Craton and Indian Shield. Geological Journal, 2019, 54, 1090-1106.	0.6	5
51	Multistage anatexis during tectonic evolution from oceanic subduction to continental collision: A review of the North Qaidam UHP Belt, NW China. Earth-Science Reviews, 2019, 191, 190-211.	4.0	112
52	Mechanisms of submarine canyon formation on the northern continental slope of the South China Sea. Geological Journal, 2019, 54, 3389-3403.	0.6	9
53	The Dynamic Topography of Eastern China Since the Latest Jurassic Period. Tectonics, 2018, 37, 1274-1291.	1.3	35
54	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. Precambrian Research, 2018, 310, 305-319.	1.2	30

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55	Dynamics of exhumation and deformation of HP-UHP orogens in double subduction-collision systems: Numerical modeling and implications for the Western Dabie Orogen. Earth-Science Reviews, 2018, 182, 68-84.	4.0	34
56	Mesoâ€Cenozoic Evolution of Earth Surface System under the East Asian Tectonic Superconvergence. Acta Geologica Sinica, 2018, 92, 814-849.	0.8	17
57	Closure of the Proto-Tethys Ocean and Early Paleozoic amalgamation of microcontinental blocks in East Asia. Earth-Science Reviews, 2018, 186, 37-75.	4.0	371
58	Magmatic activities and their impacts on oil/gas formation in the southwestern <scp>O</scp>rdos <scp>B</scp>asin, <scp>C</scp>entral <scp>C</scp>hina. Geological Journal, 2018, 53, 178-189.	0.6	6
59	Causes of earthquake spatial distribution beneath the Izu-Bonin-Mariana Arc. Journal of Asian Earth Sciences, 2018, 151, 90-100.	1.0	18
60	Linkage between reactivation of the sinistral strike-slip faults and 28 September 2018 Mw7.5 Palu earthquake, Indonesia. Science Bulletin, 2018, 63, 1635-1640.	4.3	11
61	Geological reconstructions of the East Asian blocks: From the breakup of Rodinia to the assembly of Pangea. Earth-Science Reviews, 2018, 186, 262-286.	4.0	576
62	Tectonic units of the Early Precambrian basement within the North China Craton: Constraints from gravitational and magnetic anomalies. Precambrian Research, 2018, 318, 122-132.	1.2	11
63	Microplate tectonics: new insights from micro-blocks in the global oceans, continental margins and deep mantle. Earth-Science Reviews, 2018, 185, 1029-1064.	4.0	67
64	Neotectonic implications and regional stress field constraints on mud volcanoes in offshore southwestern Taiwan. Marine Geology, 2018, 403, 109-122.	0.9	10
65	Early Paleozoic Orocline in the Central China Orogen. Gondwana Research, 2018, 63, 85-104.	3.0	11
66	Triassic southeastward subduction of North China Block to South China Block: Insights from new geological, geophysical and geochemical data. Earth-Science Reviews, 2017, 166, 270-285.	4.0	208
67	Age of the subducting Pacific slab beneath East Asia and its geodynamic implications. Earth and Planetary Science Letters, 2017, 464, 166-174.	1.8	214
68	Origin and model of transform faults in the Okinawa Trough. Marine Geophysical Researches, 2017, 38, 137-147.	0.5	3
69	Thermochronology of the Sulu ultrahigh-pressure metamorphic terrane: Implications for continental collision and lithospheric thinning. Tectonophysics, 2017, 712-713, 10-29.	0.9	25
70	Dynamic processes and mechanisms for collision to postâ€orogenic extension in the Western Dabie Orogen: Insights from numerical modeling. Geological Journal, 2017, 52, 44-58.	0.6	9
71	Early Paleozoic Tarim Orocline: Insights from paleogeography and tectonic evolution in the Tarim Basin. Geological Journal, 2017, 52, 436-448.	0.6	14
72	Structural analysis of ductile shear zones in the North Qinling Orogen and its implications for the evolution of the Protoâ€Tethys Ocean. Geological Journal, 2017, 52, 202-214.	0.6	13

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73	Precambrian tectonic affinity of the <scp>N</scp>orth <scp>Q</scp>inling <scp>M</scp>icrocontinent: Constraints from the discovery of <scp>M</scp>esoproterozoic magmatic zircons in the <scp>Q</scp>inling <scp>G</scp>roup. Geological Journal, 2017, 52, 142-154.	0.6	18
74	Yanshanian deformation in Western Shandong, eastern North China Craton: Response to a transition from paleoâ€Pacific to Pacific Plate subduction. Geological Journal, 2017, 52, 32-43.	0.6	6
75	Early Mesozoic intracontinental deformation in the eastern North China Block: Implication for an indentation model of North China to South China blocks. Geological Journal, 2017, 52, 8-21.	0.6	11
76	Late Triassic Dabieâ€“Sulu Orocline: New exhumation model of the HPâ€“UHP rocks. Geological Journal, 2017, 52, 22-31.	0.6	11
77	Triassic orocline in East Asia: Insights from a transition from passive margin to foreland basin in eastern North China Block. Geological Journal, 2017, 52, 59-69.	0.6	5
78	Cenozoic faulting response of eastern North China to subduction of the Pacific Plate: A case of study of the Luxi Block. Geological Journal, 2017, 52, 70-80.	0.6	7
79	Temporal and spatial distribution of Cenozoic igneous rocks in the South China Sea and its adjacent regions: implications for tectonoâ€magmatic evolution. Geological Journal, 2016, 51, 429-447.	0.6	32
80	Formation, tectonic evolution and dynamics of the East China Sea Shelf Basin. Geological Journal, 2016, 51, 162-175.	0.6	20
81	The Earth evolution as a thermal system. Geological Journal, 2016, 51, 652-668.	0.6	8
82	Cenozoic positive inversion tectonics and its migration in the East China Sea Shelf Basin. Geological Journal, 2016, 51, 176-187.	0.6	24
83	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. Precambrian Research, 2016, 279, 1-16.	1.2	66
84	Lithospheric architecture and deformation of NE Tibet: New insights on the interplay of regional tectonic processes. Earth and Planetary Science Letters, 2016, 449, 89-95.	1.8	65
85	Source and accumulation of gas hydrate in the northern margin of the South China Sea. Marine and Petroleum Geology, 2016, 69, 127-145.	1.5	61
86	Holocene intracontinental deformation of the northern North China Plain: Evidence of tectonic ground fissures. Journal of Asian Earth Sciences, 2016, 119, 49-64.	1.0	27
87	Origin of the North Qinling Microcontinent and Proterozoic geotectonic evolution of the Kuanping Ocean, Central China. Precambrian Research, 2015, 266, 179-193.	1.2	41
88	Long history of a Grenville orogen relic â€“ The North Qinling terrane: Evolution of the Qinling orogenic belt from Rodinia to Gondwana. Precambrian Research, 2015, 271, 98-117.	1.2	47
89	Numerical modelling of stress fields and earthquakes jointly controlled by NE- and NW-trending fault zones in the Central North China Block. Journal of Asian Earth Sciences, 2015, 114, 28-40.	1.0	18
90	Coupling and transition of Mesoâ€“Cenozoic intracontinental deformation between the Taihang and Qinling Mountains. Journal of Asian Earth Sciences, 2015, 114, 188-202.	1.0	50

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91	Experimental study and active tectonics on the Zhangjiakou-Penglai fault zone across North China. Journal of Asian Earth Sciences, 2015, 114, 18-27.	1.0	32
92	Deep structures and surface boundaries among Proto-Tethyan micro-blocks: Constraints from seismic tomography and aeromagnetic anomalies in the Central China Orogen. Tectonophysics, 2015, 659, 109-121.	0.9	21
93	The northern boundary of the Proto-Tethys Ocean: Constraints from structural analysis and Uâ€“Pb zircon geochronology of the North Qinling Terrane. Journal of Asian Earth Sciences, 2015, 113, 560-574.	1.0	64
94	Cenozoic tectonic jumping and implications for hydrocarbon accumulation in basins in the East Asia Continental Margin. Journal of Asian Earth Sciences, 2014, 88, 28-40.	1.0	80
95	Seismic attenuation tomography of the Northeast Japan arc: Insight into the 2011 Tohoku earthquake (M_w9.0) and subduction dynamics. Journal of Geophysical Research: Solid Earth, 2014, 119, 1094-1118.	1.4	66
96	UPb zircon age and geochemical constraints on tectonic evolution of the Paleozoic accretionary orogenic system in the Tongbai orogen, central China. Tectonophysics, 2013, 599, 67-88.	0.9	104
97	Diachroneity of continental subduction and exhumation: Constraints from the Permian-Triassic HP metamorphic terrane in the Tongbai orogen, central China. Science Bulletin, 2013, 58, 4397-4404.	1.7	12
98	Tectonics of South China continent and its implications. Science China Earth Sciences, 2013, 56, 1804-1828.	2.3	423
99	BASIC STRCUTURAL PATTERN AND TECTONIC MODELS OF THE SOUTH CHINA SEA: PROBLEMS, ADVANCES AND CONTROVERSIES. Marine Geology & Quaternary Geology, 2013, 32, 35-53.	0.1	30
100	CENOZOIC TECTONICS AND DYNAMICS OF BASIN GROUPS OF THE NORTHERN SOUTH CHINA SEA. Marine Geology & Quaternary Geology, 2013, 32, 79-93.	0.1	21
101	Paleoproterozoic structural evolution of the southern segment of the Jiao-Liao-Ji Belt, North China Craton. Precambrian Research, 2012, 200-203, 59-73.	1.2	245
102	Structural anatomy and dynamics of evolution of the Qikou Sag, Bohai Bay Basin: Implications for the destruction of North China craton. Journal of Asian Earth Sciences, 2012, 47, 94-106.	1.0	52
103	Mesozoic basins in eastern China and their bearing on the deconstruction of the North China Craton. Journal of Asian Earth Sciences, 2012, 47, 64-79.	1.0	199
104	Cenozoic faulting of the Bohai Bay Basin and its bearing on the destruction of the eastern North China Craton. Journal of Asian Earth Sciences, 2012, 47, 80-93.	1.0	154
105	Intracontinental deformation in a frontier of super-convergence: A perspective on the tectonic milieu of the South China Block. Journal of Asian Earth Sciences, 2012, 49, 313-329.	1.0	133
106	Structural analysis of the northern Tongbai Metamorphic Terranes, Central China: Implications for Paleozoic accretionary process on the southern margin of the North China Craton. Journal of Asian Earth Sciences, 2012, 47, 143-154.	1.0	27
107	Geometry and timing of Mesozoic deformation in the western part of the Xuefeng Tectonic Belt, South China: Implications for intra-continental deformation. Journal of Asian Earth Sciences, 2012, 49, 330-338.	1.0	34
108	Evolution of the Asian continent and its continental margins. Journal of Asian Earth Sciences, 2012, 47, 1-4.	1.0	42

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109	Structural geology and tectonics in marine science: Perspectives in the research of deep sea and deep interior. Journal of Ocean University of China, 2012, 11, 257-266.	0.6	4
110	Thermochronological constraints on two-stage extrusion of HP/UHP terranes in the Dabieâ€“Sulu orogen, east-central China. Tectonophysics, 2011, 504, 25-42.	0.9	115
111	Structural geometry of an exhumed UHP terrane in the eastern Sulu Orogen, China: Implications for continental collisional processes. Journal of Structural Geology, 2010, 32, 423-444.	1.0	32
112	Two-stage Triassic exhumation of HPâ€“UHP terranes in the western Dabie orogen of China: Constraints from structural geology. Tectonophysics, 2010, 490, 267-293.	0.9	102
113	Two-stage collision-related extrusion of the western Dabie HPâ€“UHP metamorphic terranes, central China: Evidence from quartz c-axis fabrics and structures. Gondwana Research, 2009, 16, 294-309.	3.0	74
114	SHRIMP Uâ€“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. Precambrian Research, 2007, 158, 1-16.	1.2	435
115	Collision leading to multiple-stage large-scale extrusion in the Qinling orogen: Insights from the Mianlue suture. Gondwana Research, 2007, 12, 121-143.	3.0	238
116	Crustal structure of the southern Dabie ultrahigh-pressure orogen and Yangtze foreland from deep seismic reflection profiling. Terra Nova, 2004, 16, 319-324.	0.9	51
117	SHRIMP Uâ€“Pb zircon dating of a metagabbro and eclogites from western Dabieshan (Hong'an Block), China, and its tectonic implications. Tectonophysics, 2004, 394, 171-192.	0.9	123