Sheng-Rong Song

List of Publications by Year
in descending order

114 papers	3,055 citations	126907 33 h-index	189892 50 g-index
114 all docs	114 docs citations	114 times ranked	2442 citing authors

#	Article	IF	Citations
1	Slip zone and energetics of a large earthquake from the Taiwan Chelungpu-fault Drilling Project. Nature, 2006, 444, 473-476.	27.8	203
2	Characteristics of the fault-related rocks, fault zones and the principal slip zone in the Wenchuan Earthquake Fault Scientific Drilling Project Hole-1 (WFSD-1). Tectonophysics, 2013, 584, 23-42.	2.2	187
3	Coseismic fluidâ€“rock interactions at high temperatures in the Chelungpu fault. Nature Geoscience, 2008, 1, 679-683.	12.9	113
4	Microscale anatomy of the 1999 Chiâ€Chi earthquake fault zone. Geochemistry, Geophysics, Geosystems, 2009, 10, .	2.5	96
5	Oxygen and carbon isotopic systematics of aragonite speleothems and water in Furong Cave, Chongqing, China. Geochimica Et Cosmochimica Acta, 2011, 75, 4140-4156.	3.9	87
6	Clay mineral anomalies in the fault zone of the Chelungpu Fault, Taiwan, and their implications. Geophysical Research Letters, 2009, 36, .	4.0	77
7	High magnetic susceptibility of fault gouge within Taiwan Chelungpu fault: Nondestructive continuous measurements of physical and chemical properties in fault rocks recovered from Hole B, TCDP. Geophysical Research Letters, 2006, 33, .	4.0	75
8	The Ti/Al molar ratio as a new proxy for tracing sediment transportation processes and its application in aeolian events and sea level change in East Asia. Journal of Asian Earth Sciences, 2013, 73, 31-38.	2.3	75
9	Clay mineral reactions caused by frictional heating during an earthquake: An example from the Taiwan Chelungpu fault. Geophysical Research Letters, 2008, 35, .	4.0	66
10	Synchrotron X-ray computed microtomography: studies on vesiculated basaltic rocks. Bulletin of Volcanology, 2001, 63, 252-263.	3.0	64
11	Thermal history estimation of the Taiwan Chelungpu fault using rock-magnetic methods. Geophysical Research Letters, 2006, 33, .	4.0	62
12	Clay clast aggregates in gouges: New textural evidence for seismic faulting. Journal of Geophysical Research, 2010, 115, .	3.3	59
13	Tectonics of short-lived intra-arc basins in the arc-continent collision terrane of the Coastal Range, eastern Taiwan. Tectonics, 1995, 14, 19-38.	2.8	57
14	Metabolic stratification driven by surface and subsurface interactions in a terrestrial mud volcano. ISME Journal, 2012, 6, 2280-2290.	9.8	54
15	Temporal variations of gas compositions of fumaroles in the Tatun Volcano Group, northern Taiwan. Journal of Volcanology and Geothermal Research, 2008, 178, 624-635.	2.1	52
16	A chemical kinetic approach to estimate dynamic shear stress during the 1999 Taiwan Chiâ€Chi earthquake. Geophysical Research Letters, 2007, 34, .	4.0	51
17	Temperature estimates of coseismic heating in clay-rich fault gouges, the Chelungpu fault zones, Taiwan. Tectonophysics, 2011, 502, 315-327.	2.2	50
18	Core Description and Characteristics of Fault Zones from Hole-A of the Taiwan Chelungpu-Fault Drilling Project. Terrestrial, Atmospheric and Oceanic Sciences, 2007, 18, 327.	0.6	50

#	Article	IF	Citations
19	Characterization of slip zone associated with the 1999 Taiwan Chi-Chi earthquake: X-ray CT image analyses and microstructural observations of the Taiwan Chelungpu fault. Tectonophysics, 2008, 449, 63-84.	2.2	49
20	High magnetic susceptibility produced by thermal decomposition of core samples from the Chelungpu fault in Taiwan. Earth and Planetary Science Letters, 2008, 272, 372-381.	4.4	49
21	Fumarolic Gas Composition of the Tatun Volcano Group,Northern Taiwan. Terrestrial, Atmospheric and Oceanic Sciences, 2005, 16, 843.	0.6	48
22	Characteristics of the Lithology, Fault-Related Rocks and Fault Zone Structures in TCDP Hole-A. Terrestrial, Atmospheric and Oceanic Sciences, 2007, 18, 243.	0.6	48
23	Nondestructive continuous physical property measurements of core samples recovered from hole B, Taiwan Chelungpuâ€Fault Drilling Project. Journal of Geophysical Research, 2007, 112, .	3.3	45
24	A multiproxy lake record from Inner Mongolia displays a late Holocene teleconnection between Central Asian and North Atlantic climates. Quaternary International, 2010, 227, 170-182.	1.5	43
25	Compositions and flux of soil gas in Liu-Huang-Ku hydrothermal area, northern Taiwan. Journal of Volcanology and Geothermal Research, 2007, 165, 32-45.	2.1	42
26	Current stress state and principal stress rotations in the vicinity of the Chelungpu fault induced by the 1999 Chiâ€Chi, Taiwan, earthquake. Geophysical Research Letters, 2007, 34, .	4.0	41
27	Changes to magnetic minerals caused by frictional heating during the 1999 Taiwan Chi-Chi earthquake. Earth, Planets and Space, 2009, 61, 797-801.	2.5	41
28	Integrating borehole-breakout dimensions, strength criteria, and leak-off test results, to constrain the state of stress across the Chelungpu Fault, Taiwan. Tectonophysics, 2010, 482, 65-72.	2.2	39
29	Mineralogical and geochemical investigations of sediment-source region changes in the Okinawa Trough during the past 100ka (IMAGES core MD012404). Journal of Asian Earth Sciences, 2011, 40, 1238-1249.	2.3	39
30	True triaxial strength and deformability of the siltstone overlying the Chelungpu fault (Chi-Chi) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 302	4.0	37
31	Variations in monsoonal rainfall over the last 21 kyr inferred from sedimentary organic matter in Tung-Yuan Pond, southern Taiwan. Quaternary Science Reviews, 2011, 30, 3413-3422.	3.0	37
32	Structural, Mineralogical, and Geochemical Characterization of the Chelungpu Thrust Fault, Taiwan. Terrestrial, Atmospheric and Oceanic Sciences, 2007, 18, 183.	0.6	35
33	Preliminary Results of Stress Measurement Using Drill Cores of TCDP Hole-A: an Application of Anelastic Strain Recovery Method to Three-Dimensional In-Situ Stress Determination. Terrestrial, Atmospheric and Oceanic Sciences, 2007, 18, 379.	0.6	35
34	Evolution and Function of Dinosaur Teeth at Ultramicrostructural Level Revealed Using Synchrotron Transmission X-ray Microscopy. Scientific Reports, 2015, 5, 15202.	3.3	34
35	High magnetic susceptibility produced in highâ€velocity frictional tests on core samples from the Chelungpu fault in Taiwan. Geophysical Research Letters, 2007, 34, .	4.0	29
36	A 2 Ma record of explosive volcanism in southwestern Luzon: Implications for the timing of subducted slab steepening. Geochemistry, Geophysics, Geosystems, 2009, 10, .	2.5	28

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37	Pyrite alteration and neoformed magnetic minerals in the fault zone of the Chiâ€Chi earthquake (M_w7.6, 1999): Evidence for frictional heating and coâ€seismic fluids. Geochemistry, Geophysics, Geosystems, 2012, 13, .	2.5	28
38	Fault mirrors in seismically active fault zones: A fossil of small earthquakes at shallow depths. Geophysical Research Letters, 2016, 43, 1950-1959.	4.0	28
39	Hydrogeochemical Anomalies in the Springs of the Chiayi Area in West-central Taiwan as Possible Precursors to Earthquakes. Pure and Applied Geophysics, 2006, 163, 675-691.	1.9	27
40	Anisotropy of magnetic susceptibility and P-wave velocity in core samples from the Taiwan Chelungpu-Fault Drilling Project (TCDP). Journal of Structural Geology, 2008, 30, 948-962.	2.3	27
41	Mesoscopic Structural Observations of Cores from the Chelungpu Fault System, Taiwan Chelungpu-Fault Drilling Project Hole-A, Taiwan. Terrestrial, Atmospheric and Oceanic Sciences, 2007, 18, 359.	0.6	27
42	Low total and inorganic carbon contents within the Taiwan Chelungpu fault system. Geochemical Journal, 2007, 41, 391-396.	1.0	26
43	Energy taken up by coâ€seismic chemical reactions during a large earthquake: An example from the 1999 Taiwan Chiâ€Chi earthquake. Geophysical Research Letters, 2009, 36, .	4.0	26
44	Mineralogical and geochemical changes in the sediments of the Okhotsk Sea during deglacial periods in the past 500Âkyrs. Global and Planetary Change, 2006, 53, 47-57.	3.5	24
45	Choosing optimal exposure times for <scp>XRF</scp> coreâ€scanning: Suggestions based on the analysis of geological reference materials. Geochemistry, Geophysics, Geosystems, 2016, 17, 1558-1566.	2.5	24
46	Precession and atmospheric CO2 modulated variability of sea ice in the central Okhotsk Sea since 130,000 years ago. Earth and Planetary Science Letters, 2018, 488, 36-45.	4.4	23
47	Characteristics and Origins of Hot Springs in the Tatun Volcano Group in Northern Taiwan. Terrestrial, Atmospheric and Oceanic Sciences, 2011, 22, 475.	0.6	22
48	Age, geochemical and isotopic variations in volcanic rocks from the Coastal Range of Taiwan: Implications for magma generation in the Northern Luzon Arc. Lithos, 2017, 272-273, 92-115.	1.4	21
49	Lithofacies of volcanic rocks in the central Coastal Range, eastern Taiwan: implications for island arc evolution. Journal of Asian Earth Sciences, 2002, 21, 23-38.	2.3	20
50	Frictional strength of fault gouge in Taiwan Chelungpu fault obtained from TCDP Hole B. Tectonophysics, 2008, 460, 198-205.	2.2	20
51	Transport properties and dynamic processes in a fault zone from samples recovered from TCDP Hole B of the Taiwan Chelungpu Fault Drilling Project. Geochemistry, Geophysics, Geosystems, 2009, 10, .	2.5	19
52	Volcanic Characteristics of Kueishantao in Northeast Taiwan and Their Implications. Terrestrial, Atmospheric and Oceanic Sciences, 2010, 21, 575.	0.6	18
53	Estimated dynamic shear stress and frictional heat during the 1999 Taiwan Chi-Chi earthquake: A chemical kinetics approach with isothermal heating experiments. Tectonophysics, 2009, 469, 73-84.	2.2	17
54	Magnetic inference of in situ open microcracks in sandstone samples from the Taiwan Chelungpu Fault Drilling Project (TCDP). Journal of Asian Earth Sciences, 2012, 45, 179-189.	2.3	17

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55	Clay mineralogy and geochemistry investigations in the host rocks of the Chelungpu fault, Taiwan: Implication for faulting mechanism. Journal of Asian Earth Sciences, 2012, 59, 208-218.	2.3	16
56	Primary rock magnetism for the Wenchuan earthquake fault zone at Jiulong outcrop, Sichuan Province, China. Tectonophysics, 2014, 619-620, 58-69.	2.2	16
57	Coseismic thickness of principal slip zone from the Taiwan Chelungpu fault Drilling Project-A (TCDP-A) and correlated fracture energy. Tectonophysics, 2014, 619-620, 29-35.	2.2	15
58	Magmatic-like fluid source of the Chingshui geothermal field, NE Taiwan evidenced by carbonate clumped-isotope paleothermometry. Journal of Asian Earth Sciences, 2017, 149, 124-133.	2.3	15
59	The volcanoes of an oceanic arc from origin to destruction: A case from the northern Luzon Arc. Journal of Asian Earth Sciences, 2013, 74, 97-112.	2.3	14
60	Evolution of hot fluids in the Chingshui geothermal field inferred from crystal morphology and geochemical vein data. Geothermics, 2018, 74, 305-318.	3.4	14
61	Carbonaceous Materials in the Fault Zone of the Longmenshan Fault Belt: 2. Characterization of Fault Gouge from Deep Drilling and Implications for Fault Maturity. Minerals (Basel, Switzerland), 2018, 8, 393.	2.0	14
62	A multiproxy study of past environmental changes in the Sea of Okhotsk during the last 1.5â€¯Ma. Organic Geochemistry, 2019, 132, 50-61.	1.8	14
63	Rock record and magnetic response to large earthquakes within <scp>W</scp>enchuan <scp>E</scp>arthquake <scp>F</scp>ault <scp>S</scp>cientific <scp>D</scp>rilling cores. Geochemistry, Geophysics, Geosystems, 2017, 18, 1889-1906.	2.5	13
64	Laboratory Characterization of Permeability and Its Anisotropy of Chelungpu Fault Rocks. Pure and Applied Geophysics, 2009, 166, 1011-1036.	1.9	12
65	Temperature-Dependent Variations in Sulfate-Reducing Communities Associated with a Terrestrial Hydrocarbon Seep. Microbes and Environments, 2014, 29, 377-387.	1.6	12
66	Magma mingling in the Tungho area, Coastal Range of eastern Taiwan. Journal of Volcanology and Geothermal Research, 2008, 178, 608-623.	2.1	11
67	In-situ stress at the northern portion of the Chelungpu fault, Taiwan, estimated on boring cores recovered from a 2-km-deep hole of TCDP. Earth, Planets and Space, 2008, 60, 809-819.	2.5	11
68	Magnetostratigraphy of marine sediment core MD01-2414 from Okhotsk Sea and its paleoenvironmental implications. Marine Geology, 2011, 284, 149-157.	2.1	11
69	Pinatubo Volcanic Eruption Exacerbated an Abrupt Coral Mortality Event in 1991 Summer. Geophysical Research Letters, 2018, 45, 12,396.	4.0	11
70	Preface to the Special Issue on Taiwan Chelungpu-Fault Drilling Project (TCDP): Site Characteristics and On-Site Measurements. Terrestrial, Atmospheric and Oceanic Sciences, 2007, 18, 000.	0.6	11
71	Ultrafine spherical quartz formation during seismic fault slip: Natural and experimental evidence and its implications. Tectonophysics, 2015, 664, 98-108.	2.2	10
72	Profiles of volumetric water content in fault zones retrieved from hole B of the Taiwan Chelungpuâ€fault Drilling Project (TCDP). Geophysical Research Letters, 2008, 35, .	4.0	9

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73	Disentangling Natural and Anthropogenic Signals in Lacustrine Records: An Example from the Ilan Plain, NE Taiwan. Frontiers in Earth Science, 2016, 4, .	1.8	9
74	Stomach Cancer and Exposure to Talc Powder without Asbestos via Chinese Herbal Medicine: A Population-Based Cohort Study. International Journal of Environmental Research and Public Health, 2019, 16, 717.	2.6	9
75	Hydrothermal Alteration of Andesite in Acid Solutions: Experimental Study in 0.05 M H2SO4Solution at 110 Â°C. Journal of the Chinese Chemical Society, 2003, 50, 239-244.	1.4	8
76	Lahars in and around the Taipei basin: Implications for the activity of the Shanchiao fault. Journal of Asian Earth Sciences, 2007, 31, 277-286.	2.3	8
77	Determining an age for the Inararo Tuff eruption of Mt. Pinatubo, based on correlation with a distal ash layer in core MD97-2142, South China Sea. Quaternary International, 2008, 178, 138-145.	1.5	8
78	Isotopic constraints of vein carbonates on fluid sources and processes associated with the ongoing brittle deformation within the accretionary wedge of Taiwan. Terra Nova, 2010, 22, 251.	2.1	8
79	Volcanic Stratigraphy and Potential Hazards of the Chihsingshan Volcano Subgroup in the Tatun Volcano Group, Northern Taiwan. Terrestrial, Atmospheric and Oceanic Sciences, 2010, 21, 587.	0.6	8
80	Identification and tectonic implications of nano-particle quartz (<50nm) by synchrotron X-ray diffraction in the Chelungpu fault gouge, Taiwan. Tectonophysics, 2014, 619-620, 36-43.	2.2	8
81	Changes in paleostress and its magnitude related to seismic cycles in the Chelungâ€pu Fault, Taiwan. Tectonics, 2015, 34, 2418-2428.	2.8	8
82	An ideal geothermometer in slate formation: A case from the Chingshui geothermal field, Taiwan. Geothermics, 2018, 74, 319-326.	3.4	8
83	Effects of pressure on pore characteristics and permeability of porous rocks as estimated from seismic wave velocities in cores from TCDP Hole-A. Geophysical Journal International, 2010, 182, 1148-1160.	2.4	7
84	New Evidence of Regional Geological Structures Inferred from Reprocessing and Resistivity Data Interpretation in the Chingshui-Sanshing-Hanchi Area of Southwestern Ilan County, NE Taiwan. Terrestrial, Atmospheric and Oceanic Sciences, 2014, 25, 491.	0.6	7
85	Climate change, vegetation history, and agricultural activity of Lake Li-yu Tan, central Taiwan, during the last 2.6Âka BP. Quaternary International, 2014, 325, 105-110.	1.5	7
86	Downhole fiber optic temperature-pressure innovative measuring system used in Sanshing geothermal test site. Geothermics, 2018, 74, 190-196.	3.4	7
87	Carbonaceous Materials in the Fault Zone of the Longmenshan Fault Belt: 1. Signatures within the Deep Wenchuan Earthquake Fault Zone and Their Implications. Minerals (Basel, Switzerland), 2018, 8, 385.	2.0	7
88	What caused the cultural hiatus in the Iron-Age Kiwulan Site, northeastern Taiwan?. Quaternary International, 2019, 514, 186-194.	1.5	7
89	Thermal Fluid Changes after Operating a Geothermal System: A Case Study of the Chingshui Geothermal Field, Taiwan. Geothermics, 2020, 87, 101878.	3.4	7
90	Silica Geothermometry Applications in the Taiwan Orogenic Belt. Terrestrial, Atmospheric and Oceanic Sciences, 2015, 26, 387.	0.6	7

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91	Dissolution of Na2OÂ·CaOÂ·nSiO2 glasses in Na2CO3 solution for long-term and short-term experiments. Journal of Non-Crystalline Solids, 2005, 351, 1417-1425.	3.1	6
92	Carbonaceous Materials in the Longmenshan Fault Belt Zone: 3. Records of Seismic Slip from the Trench and Implications for Faulting Mechanisms. Minerals (Basel, Switzerland), 2018, 8, 457.	2.0	6
93	Geothermal energy development roadmap of Taiwan by play fairway analysis. Geothermics, 2021, 97, 102242.	3.4	6
94	Chemical and isotopic characteristics of interstitial fluids within the Taiwan Chelungpu fault. Geochemical Journal, 2007, 41, 97-102.	1.0	5
95	Topography and Volcanology of the Huangtsuishan Volcano Subgroup, Northern Taiwan. Terrestrial, Atmospheric and Oceanic Sciences, 2010, 21, 599.	0.6	5
96	Quantitative modeling of the newly formed magnetic minerals in the fault gouge of 1999 Chiâ€€Chi earthquake (M_w 7.6), Taiwan. Journal of Geophysical Research: Solid Earth, 2014, 119, 6771-6781.	3.4	5
97	Reactive tracer experiments in a low temperature geothermal field, Yilan, Taiwan. Geothermics, 2018, 74, 298-304.	3.4	5
98	Geothermal Explorations on the Slate Formation of Taiwan. , 0, , .		5
99	Cultivation-Based Characterization of Microbial Communities Associated with Deep Sedimentary Rocks from Taiwan Chelungpu Drilling Project Cores. Terrestrial, Atmospheric and Oceanic Sciences, 2007, 18, 395.	0.6	5
100	Pumice layers in marine terraces: implications for tectonic uplift rates on the east and northeast coasts of Taiwan over the last hundreds of years. Quaternary International, 2004, 115-116, 83-92.	1.5	4
101	A mass-wasting dominated Quaternary mountain range, the Coastal Range in eastern Taiwan. Quaternary Science Reviews, 2017, 177, 276-298.	3.0	4
102	Geothermal play fairway analysis at a populated rifting basin area of Taiwan. Geothermics, 2018, 75, 146-153.	3.4	3
103	Scenario analysis on operational productivity for target EGS reservoir in I-lan area, Taiwan. Geothermics, 2018, 75, 208-219.	3.4	3
104	The Magnetic Fabric of Gouge Mimics the Coseismic Focal Mechanism of the Chiâ€€Chi Earthquake (1999,) Tj ETQq0 0 0 rgBT /Overlock	4.0	3
105	Correction to â€œA chemical kinetic approach to estimate dynamic shear stress during the 1999 Taiwan Chi-Chi earthquakeâ€• Geophysical Research Letters, 2008, 35, .	4.0	2
106	Late Quaternary Explosive Volcanic Activities of the Mindanao-Molucca Sea Collision Zone in the Western Pacific as Inferred from Marine Tephrostratigraphy in the Celebes Sea. Terrestrial, Atmospheric and Oceanic Sciences, 2009, 20, 587.	0.6	2
107	Lithological control on shear-wave velocity anisotropy in core samples from the Taiwan Chelungpu Fault Drilling Project. Journal of Asian Earth Sciences, 2012, 52, 63-72.	2.3	2
108	Segregated Planktonic and Bottom-Dwelling Archaeal Communities in High-Temperature Acidic/Sulfuric Ponds of the Tatun Volcano Group, Northern Taiwan. Terrestrial, Atmospheric and Oceanic Sciences, 2013, 24, 345.	0.6	2

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109	Magmatic pulses of the Tatun Volcano Group, northern Taiwan, revisited: Constraints from zircon U-Pb ages and Hf isotopes. Journal of Asian Earth Sciences, 2018, 167, 209-217.	2.3	2
110	Toba ash layers in the South China Sea: Evidence of contrasting wind directions during eruption ca. 74 ka: Comment and Reply. Geology, 2000, 28, 1055.	4.4	1
111	Porosity profile within the Taiwan Chelungpu Fault, reconstructed from X-ray computed tomography images. JAMSTEC Report of Research and Development, 2009, 9, 2_15-2_22.	0.2	1
112	Preface to the Special Issue on Potential Geohazards of the Taipei Metropolitan Area. Terrestrial, Atmospheric and Oceanic Sciences, 2010, 21, I.	0.6	0
113	Preface of special issue on â€œtectonics, volcanism and geo-energy in East Asia â€• Journal of Asian Earth Sciences, 2017, 149, 1-5.	2.3	0
114	Laboratory Characterization of Permeability and Its Anisotropy of Chelungpu Fault Rocks. , 2009, , 1011-1036.		0