

# Sheng-Rong Song

## List of Publications by Year in descending order

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114  
papers

3,055  
citations

126708

33  
h-index

189595

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. <i>Nature</i> , 2006, 444, 473-476.	13.7	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). <i>Tectonophysics</i> , 2013, 584, 23-42.	0.9	187
3	Coseismic fluid-rock interactions at high temperatures in the Chelungpu fault. <i>Nature Geoscience</i> , 2008, 1, 679-683.	5.4	113
4	Microscale anatomy of the 1999 Chi-Chi earthquake fault zone. <i>Geochemistry, Geophysics, Geosystems</i> , 2009, 10, .	1.0	96
5	Oxygen and carbon isotopic systematics of aragonite speleothems and water in Furong Cave, Chongqing, China. <i>Geochimica Et Cosmochimica Acta</i> , 2011, 75, 4140-4156.	1.6	87
6	Clay mineral anomalies in the fault zone of the Chelungpu Fault, Taiwan, and their implications. <i>Geophysical Research Letters</i> , 2009, 36, .	1.5	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. <i>Geophysical Research Letters</i> , 2006, 33, .	1.5	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. <i>Journal of Asian Earth Sciences</i> , 2013, 73, 31-38.	1.0	75
9	Clay mineral reactions caused by frictional heating during an earthquake: An example from the Taiwan Chelungpu fault. <i>Geophysical Research Letters</i> , 2008, 35, .	1.5	66
10	Synchrotron X-ray computed microtomography: studies on vesiculated basaltic rocks. <i>Bulletin of Volcanology</i> , 2001, 63, 252-263.	1.1	64
11	Thermal history estimation of the Taiwan Chelungpu fault using rock-magnetic methods. <i>Geophysical Research Letters</i> , 2006, 33, .	1.5	62
12	Clay clast aggregates in gouges: New textural evidence for seismic faulting. <i>Journal of Geophysical Research</i> , 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. <i>Tectonics</i> , 1995, 14, 19-38.	1.3	57
14	Metabolic stratification driven by surface and subsurface interactions in a terrestrial mud volcano. <i>ISME Journal</i> , 2012, 6, 2280-2290.	4.4	54
15	Temporal variations of gas compositions of fumaroles in the Tatun Volcano Group, northern Taiwan. <i>Journal of Volcanology and Geothermal Research</i> , 2008, 178, 624-635.	0.8	52
16	A chemical kinetic approach to estimate dynamic shear stress during the 1999 Taiwan Chi-Chi earthquake. <i>Geophysical Research Letters</i> , 2007, 34, .	1.5	51
17	Temperature estimates of coseismic heating in clay-rich fault gouges, the Chelungpu fault zones, Taiwan. <i>Tectonophysics</i> , 2011, 502, 315-327.	0.9	50
18	Core Description and Characteristics of Fault Zones from Hole-A of the Taiwan Chelungpu-Fault Drilling Project. <i>Terrestrial, Atmospheric and Oceanic Sciences</i> , 2007, 18, 327.	0.3	50

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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. <i>Tectonophysics</i> , 2008, 449, 63-84.	0.9	49
20	High magnetic susceptibility produced by thermal decomposition of core samples from the Chelungpu fault in Taiwan. <i>Earth and Planetary Science Letters</i> , 2008, 272, 372-381.	1.8	49
21	Fumarolic Gas Composition of the Tatun Volcano Group, Northern Taiwan. <i>Terrestrial, Atmospheric and Oceanic Sciences</i> , 2005, 16, 843.	0.3	48
22	Characteristics of the Lithology, Fault-Related Rocks and Fault Zone Structures in TCDP Hole-A. <i>Terrestrial, Atmospheric and Oceanic Sciences</i> , 2007, 18, 243.	0.3	48
23	Nondestructive continuous physical property measurements of core samples recovered from hole B, Taiwan Chelungpu Fault Drilling Project. <i>Journal of Geophysical Research</i> , 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. <i>Quaternary International</i> , 2010, 227, 170-182.	0.7	43
25	Compositions and flux of soil gas in Liu-Huang-Ku hydrothermal area, northern Taiwan. <i>Journal of Volcanology and Geothermal Research</i> , 2007, 165, 32-45.	0.8	42
26	Current stress state and principal stress rotations in the vicinity of the Chelungpu fault induced by the 1999 Chi-Chi, Taiwan, earthquake. <i>Geophysical Research Letters</i> , 2007, 34, .	1.5	41
27	Changes to magnetic minerals caused by frictional heating during the 1999 Taiwan Chi-Chi earthquake. <i>Earth, Planets and Space</i> , 2009, 61, 797-801.	0.9	41
28	Integrating borehole-breakout dimensions, strength criteria, and leak-off test results, to constrain the state of stress across the Chelungpu Fault, Taiwan. <i>Tectonophysics</i> , 2010, 482, 65-72.	0.9	39
29	Mineralogical and geochemical investigations of sediment-source region changes in the Okinawa Trough during the past 100ka (IMAGES core MD012404). <i>Journal of Asian Earth Sciences</i> , 2011, 40, 1238-1249.	1.0	39
30	True triaxial strength and deformability of the siltstone overlying the Chelungpu fault (Chi-Chi) Tj ETQqO 0 0 rgBT /Qverlock 10 Tf 50 302	1.5	37
31	Variations in monsoonal rainfall over the last 21 kyr inferred from sedimentary organic matter in Tung-Yuan Pond, southern Taiwan. <i>Quaternary Science Reviews</i> , 2011, 30, 3413-3422.	1.4	37
32	Structural, Mineralogical, and Geochemical Characterization of the Chelungpu Thrust Fault, Taiwan. <i>Terrestrial, Atmospheric and Oceanic Sciences</i> , 2007, 18, 183.	0.3	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. <i>Terrestrial, Atmospheric and Oceanic Sciences</i> , 2007, 18, 379.	0.3	35
34	Evolution and Function of Dinosaur Teeth at Ultramicrostructural Level Revealed Using Synchrotron Transmission X-ray Microscopy. <i>Scientific Reports</i> , 2015, 5, 15202.	1.6	34
35	High magnetic susceptibility produced in high-velocity frictional tests on core samples from the Chelungpu fault in Taiwan. <i>Geophysical Research Letters</i> , 2007, 34, .	1.5	29
36	A 2 Ma record of explosive volcanism in southwestern Luzon: Implications for the timing of subducted slab steepening. <i>Geochemistry, Geophysics, Geosystems</i> , 2009, 10, .	1.0	28

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37	Pyrite alteration and neofomed magnetic minerals in the fault zone of the Chiâ€Chi earthquake ( $M_w > 7.6$ , 1999): Evidence for frictional heating and coâ€seismic fluids. <i>Geochemistry, Geophysics, Geosystems</i> , 2012, 13, .	1.0	28
38	Fault mirrors in seismically active fault zones: A fossil of small earthquakes at shallow depths. <i>Geophysical Research Letters</i> , 2016, 43, 1950-1959.	1.5	28
39	Hydrogeochemical Anomalies in the Springs of the Chiayi Area in West-central Taiwan as Possible Precursors to Earthquakes. <i>Pure and Applied Geophysics</i> , 2006, 163, 675-691.	0.8	27
40	Anisotropy of magnetic susceptibility and P-wave velocity in core samples from the Taiwan Chelungpu-Fault Drilling Project (TCDP). <i>Journal of Structural Geology</i> , 2008, 30, 948-962.	1.0	27
41	Mesoscopic Structural Observations of Cores from the Chelungpu Fault System, Taiwan Chelungpu-Fault Drilling Project Hole-A, Taiwan. <i>Terrestrial, Atmospheric and Oceanic Sciences</i> , 2007, 18, 359.	0.3	27
42	Low total and inorganic carbon contents within the Taiwan Chelungpu fault system. <i>Geochemical Journal</i> , 2007, 41, 391-396.	0.5	26
43	Energy taken up by coâ€seismic chemical reactions during a large earthquake: An example from the 1999 Taiwan Chiâ€Chi earthquake. <i>Geophysical Research Letters</i> , 2009, 36, .	1.5	26
44	Mineralogical and geochemical changes in the sediments of the Okhotsk Sea during deglacial periods in the past 500k yrs. <i>Global and Planetary Change</i> , 2006, 53, 47-57.	1.6	24
45	Choosing optimal exposure times for XRF coreâ€scanning: Suggestions based on the analysis of geological reference materials. <i>Geochemistry, Geophysics, Geosystems</i> , 2016, 17, 1558-1566.	1.0	24
46	Precession and atmospheric CO <sub>2</sub> modulated variability of sea ice in the central Okhotsk Sea since 130,000 years ago. <i>Earth and Planetary Science Letters</i> , 2018, 488, 36-45.	1.8	23
47	Characteristics and Origins of Hot Springs in the Tatun Volcano Group in Northern Taiwan. <i>Terrestrial, Atmospheric and Oceanic Sciences</i> , 2011, 22, 475.	0.3	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. <i>Lithos</i> , 2017, 272-273, 92-115.	0.6	21
49	Lithofacies of volcanic rocks in the central Coastal Range, eastern Taiwan: implications for island arc evolution. <i>Journal of Asian Earth Sciences</i> , 2002, 21, 23-38.	1.0	20
50	Frictional strength of fault gouge in Taiwan Chelungpu fault obtained from TCDP Hole B. <i>Tectonophysics</i> , 2008, 460, 198-205.	0.9	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. <i>Geochemistry, Geophysics, Geosystems</i> , 2009, 10, .	1.0	19
52	Volcanic Characteristics of Kueishantao in Northeast Taiwan and Their Implications. <i>Terrestrial, Atmospheric and Oceanic Sciences</i> , 2010, 21, 575.	0.3	18
53	Estimated dynamic shear stress and frictional heat during the 1999 Taiwan Chi-Chi earthquake: A chemical kinetics approach with isothermal heating experiments. <i>Tectonophysics</i> , 2009, 469, 73-84.	0.9	17
54	Magnetic inference of in situ open microcracks in sandstone samples from the Taiwan Chelungpu Fault Drilling Project (TCDP). <i>Journal of Asian Earth Sciences</i> , 2012, 45, 179-189.	1.0	17

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55	Clay mineralogy and geochemistry investigations in the host rocks of the Chelungpu fault, Taiwan: Implication for faulting mechanism. <i>Journal of Asian Earth Sciences</i> , 2012, 59, 208-218.	1.0	16
56	Primary rock magnetism for the Wenchuan earthquake fault zone at Jiulong outcrop, Sichuan Province, China. <i>Tectonophysics</i> , 2014, 619-620, 58-69.	0.9	16
57	Coseismic thickness of principal slip zone from the Taiwan Chelungpu fault Drilling Project-A (TCDP-A) and correlated fracture energy. <i>Tectonophysics</i> , 2014, 619-620, 29-35.	0.9	15
58	Magmatic-like fluid source of the Chingshui geothermal field, NE Taiwan evidenced by carbonate clumped-isotope paleothermometry. <i>Journal of Asian Earth Sciences</i> , 2017, 149, 124-133.	1.0	15
59	The volcanoes of an oceanic arc from origin to destruction: A case from the northern Luzon Arc. <i>Journal of Asian Earth Sciences</i> , 2013, 74, 97-112.	1.0	14
60	Evolution of hot fluids in the Chingshui geothermal field inferred from crystal morphology and geochemical vein data. <i>Geothermics</i> , 2018, 74, 305-318.	1.5	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. <i>Minerals (Basel, Switzerland)</i> , 2018, 8, 393.	0.8	14
62	A multiproxy study of past environmental changes in the Sea of Okhotsk during the last 1.5 Ma. <i>Organic Geochemistry</i> , 2019, 132, 50-61.	0.9	14
63	Rock record and magnetic response to large earthquakes within Wenchuan earthquake Fault Scientific Drilling cores. <i>Geochemistry, Geophysics, Geosystems</i> , 2017, 18, 1889-1906.	1.0	13
64	Laboratory Characterization of Permeability and Its Anisotropy of Chelungpu Fault Rocks. <i>Pure and Applied Geophysics</i> , 2009, 166, 1011-1036.	0.8	12
65	Temperature-Dependent Variations in Sulfate-Reducing Communities Associated with a Terrestrial Hydrocarbon Seep. <i>Microbes and Environments</i> , 2014, 29, 377-387.	0.7	12
66	Magma mingling in the Tungho area, Coastal Range of eastern Taiwan. <i>Journal of Volcanology and Geothermal Research</i> , 2008, 178, 608-623.	0.8	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. <i>Earth, Planets and Space</i> , 2008, 60, 809-819.	0.9	11
68	Magnetostratigraphy of marine sediment core MD01-2414 from Okhotsk Sea and its paleoenvironmental implications. <i>Marine Geology</i> , 2011, 284, 149-157.	0.9	11
69	Pinatubo Volcanic Eruption Exacerbated an Abrupt Coral Mortality Event in 1991 Summer. <i>Geophysical Research Letters</i> , 2018, 45, 12,396.	1.5	11
70	Preface to the Special Issue on Taiwan Chelungpu-Fault Drilling Project (TCDP): Site Characteristics and On-Site Measurements. <i>Terrestrial, Atmospheric and Oceanic Sciences</i> , 2007, 18, 000.	0.3	11
71	Ultrafine spherical quartz formation during seismic fault slip: Natural and experimental evidence and its implications. <i>Tectonophysics</i> , 2015, 664, 98-108.	0.9	10
72	Profiles of volumetric water content in fault zones retrieved from hole B of the Taiwan Chelungpu Fault Drilling Project (TCDP). <i>Geophysical Research Letters</i> , 2008, 35, .	1.5	9

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73	Disentangling Natural and Anthropogenic Signals in Lacustrine Records: An Example from the Ilan Plain, NE Taiwan. <i>Frontiers in Earth Science</i> , 2016, 4, .	0.8	9
74	Stomach Cancer and Exposure to Talc Powder without Asbestos via Chinese Herbal Medicine: A Population-Based Cohort Study. <i>International Journal of Environmental Research and Public Health</i> , 2019, 16, 717.	1.2	9
75	Hydrothermal Alteration of Andesite in Acid Solutions: Experimental Study in 0.05 M H <sub>2</sub> SO <sub>4</sub> Solution at 110 Å°C. <i>Journal of the Chinese Chemical Society</i> , 2003, 50, 239-244.	0.8	8
76	Lahars in and around the Taipei basin: Implications for the activity of the Shanchiao fault. <i>Journal of Asian Earth Sciences</i> , 2007, 31, 277-286.	1.0	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. <i>Quaternary International</i> , 2008, 178, 138-145.	0.7	8
78	Isotopic constraints of vein carbonates on fluid sources and processes associated with the ongoing brittle deformation within the accretionary wedge of Taiwan. <i>Terra Nova</i> , 2010, 22, 251.	0.9	8
79	Volcanic Stratigraphy and Potential Hazards of the Chihshingshan Volcano Subgroup in the Tatun Volcano Group, Northern Taiwan. <i>Terrestrial, Atmospheric and Oceanic Sciences</i> , 2010, 21, 587.	0.3	8
80	Identification and tectonic implications of nano-particle quartz (&lt;50nm) by synchrotron X-ray diffraction in the Chelungpu fault gouge, Taiwan. <i>Tectonophysics</i> , 2014, 619-620, 36-43.	0.9	8
81	Changes in paleostress and its magnitude related to seismic cycles in the Chelungpu Fault, Taiwan. <i>Tectonics</i> , 2015, 34, 2418-2428.	1.3	8
82	An ideal geothermometer in slate formation: A case from the Chingshui geothermal field, Taiwan. <i>Geothermics</i> , 2018, 74, 319-326.	1.5	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. <i>Geophysical Journal International</i> , 2010, 182, 1148-1160.	1.0	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. <i>Terrestrial, Atmospheric and Oceanic Sciences</i> , 2014, 25, 491.	0.3	7
85	Climate change, vegetation history, and agricultural activity of Lake Li-yu Tan, central Taiwan, during the last 2.6Åka BP. <i>Quaternary International</i> , 2014, 325, 105-110.	0.7	7
86	Downhole fiber optic temperature-pressure innovative measuring system used in Sanshing geothermal test site. <i>Geothermics</i> , 2018, 74, 190-196.	1.5	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. <i>Minerals (Basel, Switzerland)</i> , 2018, 8, 385.	0.8	7
88	What caused the cultural hiatus in the Iron-Age Kiwulan Site, northeastern Taiwan?. <i>Quaternary International</i> , 2019, 514, 186-194.	0.7	7
89	Thermal Fluid Changes after Operating a Geothermal System: A Case Study of the Chingshui Geothermal Field, Taiwan. <i>Geothermics</i> , 2020, 87, 101878.	1.5	7
90	Silica Geothermometry Applications in the Taiwan Orogenic Belt. <i>Terrestrial, Atmospheric and Oceanic Sciences</i> , 2015, 26, 387.	0.3	7

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91	Dissolution of Na <sub>2</sub> O-CaO-nSiO <sub>2</sub> glasses in Na <sub>2</sub> CO <sub>3</sub> solution for long-term and short-term experiments. <i>Journal of Non-Crystalline Solids</i> , 2005, 351, 1417-1425.	1.5	6
92	Carbonaceous Materials in the Longmenshan Fault Belt Zone: 3. Records of Seismic Slip from the Trench and Implications for Faulting Mechanisms. <i>Minerals (Basel, Switzerland)</i> , 2018, 8, 457.	0.8	6
93	Geothermal energy development roadmap of Taiwan by play fairway analysis. <i>Geothermics</i> , 2021, 97, 102242.	1.5	6
94	Chemical and isotopic characteristics of interstitial fluids within the Taiwan Chelungpu fault. <i>Geochemical Journal</i> , 2007, 41, 97-102.	0.5	5
95	Topography and Volcanology of the Huangtsuishan Volcano Subgroup, Northern Taiwan. <i>Terrestrial, Atmospheric and Oceanic Sciences</i> , 2010, 21, 599.	0.3	5
96	Quantitative modeling of the newly formed magnetic minerals in the fault gouge of 1999 Chi-Chi earthquake ( <i>M<sub>w</sub></i> 7.6), Taiwan. <i>Journal of Geophysical Research: Solid Earth</i> , 2014, 119, 6771-6781.	1.4	5
97	Reactive tracer experiments in a low temperature geothermal field, Yilan, Taiwan. <i>Geothermics</i> , 2018, 74, 298-304.	1.5	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. <i>Terrestrial, Atmospheric and Oceanic Sciences</i> , 2007, 18, 395.	0.3	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. <i>Quaternary International</i> , 2004, 115-116, 83-92.	0.7	4
101	A mass-wasting dominated Quaternary mountain range, the Coastal Range in eastern Taiwan. <i>Quaternary Science Reviews</i> , 2017, 177, 276-298.	1.4	4
102	Geothermal play fairway analysis at a populated rifting basin area of Taiwan. <i>Geothermics</i> , 2018, 75, 146-153.	1.5	3
103	Scenario analysis on operational productivity for target EGS reservoir in I-lan area, Taiwan. <i>Geothermics</i> , 2018, 75, 208-219.	1.5	3
104	The Magnetic Fabric of Gouge Mimics the Coseismic Focal Mechanism of the Chi-Chi Earthquake (1999,) Tj ETQq0,0 0 rgBT <sub>g</sub> /Overlock	1.5	3
105	Correction to "A chemical kinetic approach to estimate dynamic shear stress during the 1999 Taiwan Chi-Chi earthquake". <i>Geophysical Research Letters</i> , 2008, 35, .	1.5	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. <i>Terrestrial, Atmospheric and Oceanic Sciences</i> , 2009, 20, 587.	0.3	2
107	Lithological control on shear-wave velocity anisotropy in core samples from the Taiwan Chelungpu Fault Drilling Project. <i>Journal of Asian Earth Sciences</i> , 2012, 52, 63-72.	1.0	2
108	Segregated Planktonic and Bottom-Dwelling Archaeal Communities in High-Temperature Acidic/Sulfuric Ponds of the Tatun Volcano Group, Northern Taiwan. <i>Terrestrial, Atmospheric and Oceanic Sciences</i> , 2013, 24, 345.	0.3	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. <i>Journal of Asian Earth Sciences</i> , 2018, 167, 209-217.	1.0	2
110	Toba ash layers in the South China Sea: Evidence of contrasting wind directions during eruption ca. 74 ka: Comment and Reply. <i>Geology</i> , 2000, 28, 1055.	2.0	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. <i>Terrestrial, Atmospheric and Oceanic Sciences</i> , 2010, 21, 1.	0.3	0
113	Preface of special issue on "tectonics, volcanism and geo-energy in East Asia". <i>Journal of Asian Earth Sciences</i> , 2017, 149, 1-5.	1.0	0
114	Laboratory Characterization of Permeability and Its Anisotropy of Chelungpu Fault Rocks. , 2009, , 1011-1036.		0