

Shu-Kun Hsu

List of Publications by Year in descending order

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59
papers

2,387
citations

218662

26
h-index

206102

48
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61
all docs

61
docs citations

61
times ranked

1577
citing authors

#	ARTICLE	IF	CITATIONS
1	Okinawa trough backarc basin: Early tectonic and magmatic evolution. <i>Journal of Geophysical Research</i> , 1998, 103, 30245-30267.	3.3	312
2	How was Taiwan created?. <i>Tectonophysics</i> , 2004, 379, 159-181.	2.2	244
3	New Bathymetry and Magnetic Lineations Identifications in the Northernmost South China Sea and their Tectonic Implications. <i>Marine Geophysical Researches</i> , 2004, 25, 29-44.	1.2	192
4	East Asia plate tectonics since 15 Ma: constraints from the Taiwan region. <i>Tectonophysics</i> , 2002, 344, 103-134.	2.2	164
5	Imaging magnetic sources using Euler's equation. <i>Geophysical Prospecting</i> , 2002, 50, 15-25.	1.9	108
6	Distribution and characters of the mud diapirs and mud volcanoes off southwest Taiwan. <i>Journal of Asian Earth Sciences</i> , 2014, 92, 201-214.	2.3	84
7	New Gravity and Magnetic Anomaly Maps in the Taiwan-Luzon Region and Their Preliminary Interpretation. <i>Terrestrial, Atmospheric and Oceanic Sciences</i> , 1998, 9, 509.	0.6	83
8	Tectonic features of the incipient arc-continent collision zone of Taiwan: Implications for seismicity. <i>Tectonophysics</i> , 2009, 479, 28-42.	2.2	78
9	Is Taiwan the result of arc-continent or arc-arc collision?. <i>Earth and Planetary Science Letters</i> , 1995, 136, 315-324.	4.4	75
10	Improved seismic tomography offshore northeastern Taiwan: implications for subduction and collision processes between Taiwan and the southernmost Ryukyu. <i>Geophysical Journal International</i> , 2009, 178, 1042-1054.	2.4	70
11	Magnetic inversion in the East China Sea and Okinawa Trough: tectonic implications. <i>Tectonophysics</i> , 2001, 333, 111-122.	2.2	69
12	Transition between the Okinawa trough backarc extension and the Taiwan collision: New insights on the southernmost Ryukyu subduction zone. <i>Marine Geophysical Researches</i> , 1996, 18, 163-187.	1.2	57
13	Melting features along the western Ryukyu slab edge (northeast Taiwan): Tomographic evidence. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	56
14	Tectonic evolution of the Northeastern South China Sea from seismic interpretation. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	52
15	Gas seepage, pockmarks and mud volcanoes in the near shore of SW Taiwan. <i>Marine Geophysical Researches</i> , 2010, 31, 133-147.	1.2	50
16	Crustal Thinning of the Northern Continental Margin of the South China Sea. <i>Marine Geophysical Researches</i> , 2004, 25, 63-78.	1.2	49
17	A mega-splay fault system and tsunami hazard in the southern Ryukyu subduction zone. <i>Earth and Planetary Science Letters</i> , 2013, 362, 99-107.	4.4	46
18	Crustal features of the northeastern South China Sea: insights from seismic and magnetic interpretations. <i>Marine Geophysical Researches</i> , 2012, 33, 307-326.	1.2	41

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19	Crustal structure and deformation at the northern Manila Trench between Taiwan and Luzon islands. <i>Tectonophysics</i> , 2009, 466, 229-240.	2.2	40
20	Origin of the southern Okinawa Trough volcanism from detailed seismic tomography. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	32
21	Lithospheric structure, buoyancy and coupling across the southernmost Ryukyu subduction zone: an example of decreasing plate coupling. <i>Earth and Planetary Science Letters</i> , 2001, 186, 471-478.	4.4	31
22	Thinned continental crust intruded by volcanics beneath the northern Bay of Bengal. <i>Marine and Petroleum Geology</i> , 2016, 77, 471-486.	3.3	30
23	Spatial variation of the crustal stress field along the Ryukyu-Taiwan-Luzon convergent boundary. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	29
24	Tide-modulated gas emissions and tremors off SW Taiwan. <i>Earth and Planetary Science Letters</i> , 2013, 369-370, 98-107.	4.4	29
25	Melting features along the Ryukyu slab tear, beneath the southwestern Okinawa Trough. <i>Geophysical Research Letters</i> , 2004, 31, .	4.0	28
26	Marine controlled source electromagnetic method used for the gas hydrate investigation in the offshore area of SW Taiwan. <i>Journal of Asian Earth Sciences</i> , 2014, 92, 224-232.	2.3	27
27	Crustal Structures of the Northernmost South China Sea: Seismic Reflection and Gravity Modeling. <i>Marine Geophysical Researches</i> , 2004, 25, 45-61.	1.2	26
28	Improvement of earthquake locations with the Marine Cable Hosted Observatory (MACHO) offshore NE Taiwan. <i>Marine Geophysical Researches</i> , 2014, 35, 327-336.	1.2	23
29	Gravity anomalies of the active mud diapirs off southwest Taiwan. <i>Geophysical Journal International</i> , 2015, 203, 2089-2098.	2.4	21
30	Geodynamic context of the Taiwan orogen. <i>Geophysical Monograph Series</i> , 2004, , 127-158.	0.1	20
31	New Magnetic Anomaly Map of the East Asia with Some Preliminary Tectonic Interpretations. <i>Terrestrial, Atmospheric and Oceanic Sciences</i> , 2015, 26, 73.	0.6	20
32	Continent-Ocean Transition of the Northern South China Sea and off Southwestern Taiwan. <i>Marine Geophysical Researches</i> , 2004, 25, 1-4.	1.2	17
33	Exhumation of serpentinized peridotite in the northern Manila subduction zone inferred from forward gravity modeling. <i>Geophysical Research Letters</i> , 2015, 42, 7977-7982.	4.0	15
34	A derivative-based interpretation approach to estimating source parameters of simple 2D magnetic sources from Euler deconvolution, the analytic-signal method and analytical expressions of the anomalies. <i>Geophysical Prospecting</i> , 2007, 55, 255-264.	1.9	14
35	Earthquake-induced gravitational potential energy change in the active Taiwan orogenic belt. <i>Geophysical Journal International</i> , 2005, 162, 169-176.	2.4	13
36	Seabed gas emissions and submarine landslides off SW Taiwan. <i>Terrestrial, Atmospheric and Oceanic Sciences</i> , 2018, 29, 7-15.	0.6	12

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37	Tectonic Significance of the Taitung Canyon, Huatung Basin, East of Taiwan. <i>Marine Geophysical Researches</i> , 2004, 25, 95-107.	1.2	11
38	Change of crustal gravitational potential energy in the Taiwan orogen by the Chi-Chi earthquake sequence. <i>Earth and Planetary Science Letters</i> , 2004, 222, 573-581.	4.4	11
39	Microseismicity and faulting in the southwestern Okinawa Trough. <i>Tectonophysics</i> , 2009, 466, 268-280.	2.2	11
40	Earthquake off Japan could generate strong tsunami arrays. <i>Eos</i> , 2005, 86, 169.	0.1	10
41	Fangliao Slide "a large slope failure in the upper Kaoping Slope off southwest Taiwan. <i>Terrestrial, Atmospheric and Oceanic Sciences</i> , 2018, 29, 17-30.	0.6	8
42	Active normal faults and submarine landslides in the Keelung Shelf off NE Taiwan. <i>Terrestrial, Atmospheric and Oceanic Sciences</i> , 2018, 29, 31-38.	0.6	8
43	Plate coupling across the northern Manila subduction zone deduced from mantle lithosphere buoyancy. <i>Physics of the Earth and Planetary Interiors</i> , 2017, 273, 50-54.	1.9	7
44	Active tectonics and volcanism in the southernmost Okinawa Trough back-arc basin derived from deep-towed sonar surveys. <i>Tectonophysics</i> , 2021, 817, 229047.	2.2	7
45	Possible northward extension of the Philippine Fault Zone offshore Luzon Island (Philippines). <i>Marine Geophysical Researches</i> , 2012, 33, 369-377.	1.2	6
46	Gas plumes and near-seafloor bottom current speeds of the southernmost Okinawa Trough determined from echo sounders. <i>Terrestrial, Atmospheric and Oceanic Sciences</i> , 2019, 30, 649-674.	0.6	6
47	Variations of b-values at the western edge of the Ryukyu Subduction Zone, north-east Taiwan. <i>Terra Nova</i> , 2008, 20, 150-153.	2.1	5
48	Earthquake-Related Structures Beneath the Southernmost Portion of the Ryukyu Arc and Forearc. <i>Geophysical Research Letters</i> , 2019, 46, 3717-3725.	4.0	5
49	Forearc structures and deformation along the Manila Trench. <i>Journal of Asian Earth Sciences</i> : X, 2020, 4, 100036.	0.9	5
50	Shallow gas hydrates off southwest Taiwan and their mechanisms. <i>Marine Geophysical Researches</i> , 2021, 42, 1.	1.2	5
51	Hydrothermal activity revealed by rock magnetic anomaly from core sediments in the southern Okinawa Trough. <i>Terrestrial, Atmospheric and Oceanic Sciences</i> , 2019, 30, 685-694.	0.6	5
52	The Keelung Submarine Volcano in the near-shore area of northern Taiwan and its tectonic implication. <i>Journal of Asian Earth Sciences</i> , 2017, 135, 320-326.	2.3	4
53	Continental shelf morphology controlled by bottom currents, mud diapirism, and submarine slumping to the east of the Gaoping Canyon, off SW Taiwan. <i>Geo-Marine Letters</i> , 2021, 41, 1.	1.1	4
54	Variations in mantle lithosphere buoyancy reveal seismogenic behavior in the Sunda-Andaman subduction zone. <i>Geophysical Journal International</i> , 2019, , .	2.4	2

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55	Hualien Ridge: A tectonic ridge transitioning from plate collision to subduction. <i>Tectonophysics</i> , 2021, 816, 229010.	2.2	2
56	Crustal stress field in Ilan Plain, NE Taiwan and the westernmost Okinawa trough-deduced from seismic stress inversion. <i>Terrestrial, Atmospheric and Oceanic Sciences</i> , 2019, 30, 613-619.	0.6	1
57	Sedimentary sequences offshore northeastern Taiwan and the offshore projection of the Shanjiao Fault zone. <i>Tectonophysics</i> , 2022, 826, 229254.	2.2	1
58	Neotectonics of the volcanic Kuei-Shan Tao island, and geodynamic implications (NE Taiwan - SW) Tj ETQq0 0 0 rgBT/Overlock 10 Tf 50	2.2	1
59	Seismogenic structure along the deformation front off SW Taiwan revealed by the aftershocks of the 2017 Tainan near-shore earthquake with ocean bottom seismometers. <i>Tectonophysics</i> , 2021, 815, 228995.	2.2	0