

Gaku Kimura

List of Publications by Year in descending order

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docs citations

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times ranked

2404
citing authors

#	ARTICLE	IF	CITATIONS
1	Paleogeographic maps of the Japanese Islands: Plate tectonic synthesis from 750 Ma to the present. <i>Island Arc</i> , 1997, 6, 121-142.	1.1	961
2	Origin and evolution of a splay fault in the Nankai accretionary wedge. <i>Nature Geoscience</i> , 2009, 2, 648-652.	12.9	177
3	Underplated units in an accretionary complex: Melange of the Shimanto Belt of eastern Shikoku, southwest Japan. <i>Tectonics</i> , 1991, 10, 31-50.	2.8	159
4	Seismic slip propagation to the updip end of plate boundary subduction interface faults: Vitrinite reflectance geothermometry on Integrated Ocean Drilling Program NanTro SEIZE cores. <i>Geology</i> , 2011, 39, 395-398.	4.4	147
5	The latest Cretaceous-Early Paleogene rapid growth of accretionary complex and exhumation of high pressure series metamorphic rocks in northwestern Pacific margin. <i>Journal of Geophysical Research</i> , 1994, 99, 22147-22164.	3.3	124
6	Collision orogeny at arc-arc junctions in the Japanese Islands. <i>Island Arc</i> , 1996, 5, 262-275.	1.1	117
7	Transition of accretionary wedge structures around the up-dip limit of the seismogenic subduction zone. <i>Earth and Planetary Science Letters</i> , 2007, 255, 471-484.	4.4	116
8	Middle Miocene swift migration of the TTT triple junction and rapid crustal growth in southwest Japan: A review. <i>Tectonics</i> , 2014, 33, 1219-1238.	2.8	104
9	Slumping and mass transport deposition in the Nankai fore arc: Evidence from IODP drilling and 3D reflection seismic data. <i>Geochemistry, Geophysics, Geosystems</i> , 2011, 12, .	2.5	103
10	Tectonic mélange as fault rock of subduction plate boundary. <i>Tectonophysics</i> , 2012, 568-569, 25-38.	2.2	97
11	Change in fabric of melange in the Shimanto Belt, Japan: Change in relative convergence?. <i>Tectonics</i> , 1995, 14, 1273-1289.	2.8	93
12	Mélange and its seismogenic roof décollement: A plate boundary fault rock in the subduction zone-An example from the Shimanto Belt, Japan. <i>Tectonics</i> , 2005, 24, n/a-n/a.	2.8	93
13	Spatial and temporal evolution of the megasplay fault in the Nankai Trough. <i>Geochemistry, Geophysics, Geosystems</i> , 2011, 12, .	2.5	88
14	Fluidization of granular material in a subduction thrust at seismogenic depths. <i>Earth and Planetary Science Letters</i> , 2007, 259, 307-318.	4.4	83
15	Pseudotachylite from an ancient accretionary complex: Evidence for melt generation during seismic slip along a master décollement?. <i>Geology</i> , 2003, 31, 637.	4.4	81
16	Runaway slip to the trench due to rupture of highly pressurized megathrust beneath the middle trench slope: The tsunamigenesis of the 2011 Tohoku earthquake off the east coast of northern Japan. <i>Earth and Planetary Science Letters</i> , 2012, 339-340, 32-45.	4.4	81
17	Deformation and fluid flow of a major out-of-sequence thrust located at seismogenic depth in an accretionary complex: Nobeoka Thrust in the Shimanto Belt, Kyushu, Japan. <i>Tectonics</i> , 2005, 24, n/a-n/a.	2.8	79
18	Tectonic incorporation of the upper part of oceanic crust to overriding plate of a convergent margin: An example from the Cretaceous-early Tertiary Mugi Mélange, the Shimanto Belt, Japan. <i>Tectonophysics</i> , 2005, 401, 217-230.	2.2	76

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19	Anelastic strain recovery reveals extension across SW Japan subduction zone. <i>Geophysical Research Letters</i> , 2009, 36, .	4.0	75
20	Interactions between deformation and fluids in the frontal thrust region of the NanTroSEIZE transect offshore the Kii Peninsula, Japan: Results from IODP Expedition 316 Sites C0006 and C0007. <i>Geochemistry, Geophysics, Geosystems</i> , 2009, 10, .	2.5	65
21	Pelagic smectite as an important factor in tsunamigenic slip along the Japan Trench. <i>Geology</i> , 2015, 43, 155-158.	4.4	65
22	Collision Tectonics in Hokkaido and Sakhalin. , 1983, , 123-134.		64
23	NanTroSEIZE Stage 1 expeditions: introduction and synthesis of key results. <i>Proceedings of the Integrated Ocean Drilling Program Integrated Ocean Drilling Program</i> , 0, , .	1.0	60
24	Progressive illitization in fault gouge caused by seismic slip propagation along a megasplay fault in the Nankai Trough. <i>Geology</i> , 2011, 39, 995-998.	4.4	59
25	Dynamic changes in fluid redox state associated with episodic fault rupture along a megasplay fault in a subduction zone. <i>Earth and Planetary Science Letters</i> , 2011, 302, 369-377.	4.4	54
26	Expedition 316 summary. <i>Proceedings of the Integrated Ocean Drilling Program Integrated Ocean Drilling Program</i> , 0, , .	1.0	54
27	Earthquake faulting in subduction zones: insights from fault rocks in accretionary prisms. <i>Progress in Earth and Planetary Science</i> , 2014, 1, 7.	3.0	53
28	Split Philippine Sea plate beneath Japan. <i>Geophysical Research Letters</i> , 2010, 37, .	4.0	52
29	Deformation history of tectonic melange and its relationship to the underplating process and relative plate motion: An example from the deeply buried Shimanto Belt, SW Japan. <i>Tectonics</i> , 2001, 20, 376-393.	2.8	49
30	Identification of the static backstop and its influence on the evolution of the accretionary prism in the Nankai Trough. <i>Earth and Planetary Science Letters</i> , 2015, 431, 15-25.	4.4	49
31	Cretaceous episodic growth of the Japanese Islands. <i>Island Arc</i> , 1997, 6, 52-68.	1.1	45
32	Underplating of mÃ©lange evidenced by the depositional ages: Uâ€“Pb dating of zircons from the Shimanto accretionary complex, southwest Japan. <i>Island Arc</i> , 2008, 17, 376-393.	1.1	43
33	Long-term evolution of an accretionary prism: The case study of the Shimanto Belt, Kyushu, Japan. <i>Tectonics</i> , 2014, 33, 936-959.	2.8	42
34	Sources and physicochemical characteristics of fluids along a subductionâ€“zone megathrust: A geochemical approach using synâ€“tectonic mineral veins in the Mugi mÃ©lange, Shimanto accretionary complex. <i>Geochemistry, Geophysics, Geosystems</i> , 2012, 13, .	2.5	39
35	A new source of water in seismogenic subduction zones. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	4.0	34
36	Origin of the early Cenozoic belt boundary thrust and Izanagiâ€“Pacific ridge subduction in the western Pacific margin. <i>Island Arc</i> , 2019, 28, e12320.	1.1	31

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37	Modern and ancient seismogenic out-of-sequence thrusts in the Nankai accretionary prism: Comparison of laboratory-derived physical properties and seismic reflection data. <i>Geophysical Research Letters</i> , 2006, 33, n/a-n/a.	4.0	27
38	In situ pressure-temperature conditions of a tectonic mélange: Constraints from fluid inclusion analysis of syn-mélange veins. <i>Island Arc</i> , 2003, 12, 357-365.	1.1	26
39	Punctuated growth of an accretionary prism and the onset of a seismogenic megathrust in the Nankai Trough. <i>Progress in Earth and Planetary Science</i> , 2018, 5, .	3.0	26
40	Hanging wall deformation of a seismogenic megasplay fault in an accretionary prism: The Nobeoka Thrust in southwestern Japan. <i>Journal of Structural Geology</i> , 2013, 52, 136-147.	2.3	25
41	Changes in illite crystallinity within an ancient tectonic boundary thrust caused by thermal, mechanical, and hydrothermal effects: an example from the Nobeoka Thrust, southwest Japan. <i>Earth, Planets and Space</i> , 2014, 66, 116.	2.5	25
42	Silica diagenesis and its effect on interplate seismicity in cold subduction zones. <i>Earth and Planetary Science Letters</i> , 2012, 317-318, 136-144.	4.4	22
43	Contrasts in physical properties between the hanging wall and footwall of an exhumed seismogenic megasplay fault in a subduction zone—An example from the Nobeoka Thrust Drilling Project. <i>Geochemistry, Geophysics, Geosystems</i> , 2013, 14, 5354-5370.	2.5	22
44	3D geometry of a plate boundary fault related to the 2016 Off-Mie earthquake in the Nankai subduction zone, Japan. <i>Earth and Planetary Science Letters</i> , 2017, 478, 234-244.	4.4	19
45	Tectonolithification of sandstone prior to the onset of seismogenic subduction zone: Evidence from tectonic mélange of the Shimanto Belt, Japan. <i>Geochemistry, Geophysics, Geosystems</i> , 2006, 7, n/a-n/a.	2.5	18
46	Horizontal shortening versus vertical loading in accretionary prisms. <i>Geochemistry, Geophysics, Geosystems</i> , 2009, 10, .	2.5	18
47	Seismogenic Zone Structures Revealed by Improved 3D Seismic Images in the Nankai Trough off Kumano. <i>Geochemistry, Geophysics, Geosystems</i> , 2019, 20, 2252-2271.	2.5	17
48	Multiple damage zone structure of an exhumed seismogenic megasplay fault in a subduction zone - a study from the Nobeoka Thrust Drilling Project. <i>Earth, Planets and Space</i> , 2015, 67, .	2.5	15
49	Estimation of slip rate and fault displacement during shallow earthquake rupture in the Nankai subduction zone. <i>Earth, Planets and Space</i> , 2015, 67, .	2.5	15
50	Three-dimensional topographic relief of the oceanic crust may control the occurrence of shallow very-low-frequency earthquakes in the Nankai Trough off Kumano. <i>Earth, Planets and Space</i> , 2020, 72, .	2.5	13
51	Processes Governing Giant Subduction Earthquakes: IODP Drilling to Sample and Instrument Subduction Zone Megathrusts. <i>Oceanography</i> , 2019, 32, 80-93.	1.0	12
52	Hydrogeological responses to incoming materials at the erosional subduction margin, offshore Ogasawara Peninsula, Costa Rica. <i>Geochemistry, Geophysics, Geosystems</i> , 2015, 16, 2725-2742.	2.5	11
53	Variations in stress and driving pore fluid pressure ratio using vein orientations along megasplay faults : Example from the Nobeoka Thrust, Southwest Japan. <i>Island Arc</i> , 2016, 25, 421-432.	1.1	10
54	Expedition 358 summary. <i>Proceedings of the International Ocean Discovery Program</i> , 0, .	0.0	10

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55	Generation Depth of the Pseudotachylite from an Out-of-Sequence Thrust in Accretionary Prism & Geothermobarometric Evidence. <i>Scientific Drilling</i> , 0, Special Issue, 47-50.	0.6	9
56	Simultaneous estimation of in situ porosity and thermal structure from core sample measurements and resistivity log data at Nankai accretionary prism. <i>Earth, Planets and Space</i> , 2019, 71, .	2.5	8
57	Structural Anomaly at the Boundary Between Strong and Weak Plate Coupling in the Central-Western Nankai Trough. <i>Geophysical Research Letters</i> , 2022, 49, .	4.0	7
58	Rejuvenated extension of the Philippine Sea plate and its effect on subduction dynamics in the Nankai Trough. <i>Island Arc</i> , 2021, 30, e12402.	1.1	6
59	Site C0002. <i>Proceedings of the International Ocean Discovery Program</i> , 0, , .	0.0	6
60	Temporal stress variations along a seismogenic megasplay fault in the subduction zone: an example from the Nobeoka thrust, southwestern Japan. <i>Island Arc</i> , 2017, 26, e12193.	1.1	5
61	Deformation Structures From Splay and Detachment Faults in the Nankai Accretionary Prism, SW Japan (IODP NanTroSEIZE Expedition 316): Evidence for Slow and Rapid Slip in Fault Rocks. <i>Geochemistry, Geophysics, Geosystems</i> , 2020, 21, e2019GC008786.	2.5	5
62	Detachment geometry controls on shallow very low frequency earthquakes. <i>Scientific Reports</i> , 2022, 12, 2677.	3.3	5
63	Development of three-dimensional basement structure in Taiwan deduced from past plate motion: Consistency with the present seismicity. <i>Tectonics</i> , 2007, 26, n/a-n/a.	2.8	3
64	Cretaceous-Neogene accretionary units. , 0, , 125-137.		3
65	Expedition 358 methods. <i>Proceedings of the International Ocean Discovery Program</i> , 0, , .	0.0	3
66	Source and sink of fluid in pelagic siliceous sediments along a cold subduction plate boundary. <i>Tectonophysics</i> , 2016, 686, 146-157.	2.2	2
67	Opal-CT in chert beneath the toe of the Tohoku margin and its influence on the seismic aseismic transition in subduction zones. <i>Geophysical Research Letters</i> , 2017, 44, 687-693.	4.0	2
68	The influence of organic-rich shear zones on pelagic sediment deformation and seismogenesis in a subduction zone. <i>Journal of Mineralogical and Petrological Sciences</i> , 2014, 109, 228-238.	0.9	2
69	Deformation and fluid flow in seismogenic subduction zone: The Mugai Range in the Shimanto Belt. <i>Journal of the Geological Society of Japan</i> , 2009, 115, S21-S36.	0.6	2
70	Site C0025. <i>Proceedings of the International Ocean Discovery Program</i> , 0, , .	0.0	2
71	A new method for the empirical conversion of logging data to clay mineral fraction in the Nankai accretionary prism. <i>Earth, Planets and Space</i> , 2020, 72, .	2.5	2
72	Acoustic properties of deformed rocks in the Nobeoka thrust, in the Shimanto Belt, Kyushu, Southwest Japan. <i>Island Arc</i> , 2017, 26, e12198.	1.1	1

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73	Normal faulting and mass movement during ridge subduction inferred from porosity transition and zeolitization in the C _{osta} R _{ica} subduction zone. <i>Geochemistry, Geophysics, Geosystems</i> , 2017, 18, 2601-2616.	2.5	1
74	Physical property anisotropy of foliated fault rocks: Study from the Nobeoka Thrust, Shimanto Belt, southwest Japan. <i>Island Arc</i> , 2018, 27, e12257.	1.1	1
75	Site C0024. <i>Proceedings of the International Ocean Discovery Program</i> , 0, , .	0.0	1
76	Deformation Process and Mechanism of the Frontal Megathrust at the Nankai Subduction Zone. <i>Geochemistry, Geophysics, Geosystems</i> , 2022, 23, .	2.5	1
77	Workshop explores seismogenic zone drilling in the Nankai trough. <i>Eos</i> , 2001, 82, 532-532.	0.1	0
78	Three-dimensional texture of natural pseudotachylyte: Pseudotachylyte formation mechanism in hydrous accretionary complex. <i>Island Arc</i> , 2018, 27, e12241.	1.1	0