

Simon R Wallis

List of Publications by Year in descending order

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110
papers

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citations

101543

36
h-index

91884

69
g-index

113
all docs

113
docs citations

113
times ranked

2903
citing authors

#	ARTICLE	IF	CITATIONS
1	A new approach to develop the Raman carbonaceous material geothermometer for low-temperature metamorphism using peak width. <i>Island Arc</i> , 2014, 23, 33-50.	1.1	279
2	High-temperature geochronology constraints on the tectonic history and architecture of the ultrahigh-pressure Dabie-Sulu Orogen. <i>Tectonics</i> , 2006, 25, n/a-n/a.	2.8	257
3	Buoyancy-driven, rapid exhumation of ultrahigh-pressure metamorphosed continental crust. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1997, 94, 9532-9537.	7.1	227
4	Vorticity analysis and recognition of ductile extension in the Sanbagawa belt, SW Japan. <i>Journal of Structural Geology</i> , 1995, 17, 1077-1093.	2.3	226
5	Extending the applicability of the Raman carbonaceous material geothermometer using data from contact metamorphic rocks. <i>Journal of Metamorphic Geology</i> , 2010, 28, 895-914.	3.4	205
6	Paragenesis of sodic pyroxene-bearing quartz schists: implications for the P-T history of the Sanbagawa belt. <i>Contributions To Mineralogy and Petrology</i> , 1994, 116, 182-198.	3.1	199
7	Vorticity analysis in a metachert from the Sanbagawa Belt, SW Japan. <i>Journal of Structural Geology</i> , 1992, 14, 271-280.	2.3	185
8	Kinematics of the Alpine arc and the motion history of Adria. <i>Nature</i> , 1989, 337, 158-161.	27.8	174
9	Role of partial melting in the evolution of the Sulu (eastern China) ultrahigh-pressure terrane. <i>Geology</i> , 2005, 33, 129.	4.4	163
10	Natural examples of olivine lattice preferred orientation patterns with a flow-normal a-axis maximum. <i>Nature</i> , 2004, 427, 432-436.	27.8	130
11	North-south extension in the Tibetan crust triggered by granite emplacement. <i>Geology</i> , 2005, 33, 853.	4.4	114
12	Seawater-derived noble gases and halogens preserved in exhumed mantle wedge peridotite. <i>Earth and Planetary Science Letters</i> , 2010, 294, 163-172.	4.4	113
13	Cenozoic and Mesozoic metamorphism in the Longmenshan orogen: Implications for geodynamic models of eastern Tibet. <i>Geology</i> , 2003, 31, 745.	4.4	104
14	Plate movements, ductile deformation and geochronology of the Sanbagawa belt, SW Japan: tectonic significance of 89-88 Ma Lu-Hf eclogite ages. <i>Journal of Metamorphic Geology</i> , 2009, 27, 93-105.	3.4	102
15	Occurrence and field relationships of ultrahigh-pressure metagranitoid and coesite eclogite in the Su-Lu terrane, eastern China. <i>Journal of the Geological Society</i> , 1997, 154, 45-54.	2.1	98
16	Exhuming the Sanbagawa metamorphic belt: the importance of tectonic discontinuities. <i>Journal of Metamorphic Geology</i> , 1998, 16, 83-95.	3.4	93
17	A re-evaluation of eclogite facies metamorphism in SW Japan: proposal for an eclogite nappe. <i>Journal of Metamorphic Geology</i> , 2000, 18, 653-664.	3.4	90
18	Middle to late Miocene extremely rapid exhumation and thermal reequilibration in the Kung Co rift, southern Tibet. <i>Tectonics</i> , 2011, 30, .	2.8	88

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19	Evolution of the Sambagawa metamorphic belt, Japan. <i>Lithos</i> , 1994, 33, 119-133.	1.4	81
20	Eâ€W extension at 19 Ma in the Kung Co area, S. Tibet: Evidence for contemporaneous Eâ€W and Nâ€S extension in the Himalayan orogen. <i>Earth and Planetary Science Letters</i> , 2012, 325-326, 10-20.	4.4	75
21	Subduction-stage pressure-temperature path of eclogite from the Sambagawa belt: Prophetic record for oceanic-ridge subduction. <i>Geology</i> , 2003, 31, 1045.	4.4	71
22	Kinematics, structure and relationship to metamorphism of the east-west flow in the Sanbagawa Belt, southwest Japan. <i>Island Arc</i> , 1992, 1, 176-185.	1.1	69
23	⁴⁰ Ar/ ³⁹ Ar Constraints on the tectonic history and architecture of the ultrahighâ€pressure Sulu orogen. <i>Journal of Metamorphic Geology</i> , 2009, 27, 827-844.	3.4	69
24	Eclogitized Metagranitoid from the Su-Lu Ultra-High Pressure (UHP) Province, Eastern China.. <i>Proceedings of the Japan Academy Series B: Physical and Biological Sciences</i> , 1993, 69, 249-254.	3.8	64
25	Age and early metamorphic history of the Sanbagawa belt: Luâ€Hf and <i>P</i> / <i>T</i> constraints from the Western Iratsu eclogite. <i>Journal of Metamorphic Geology</i> , 2009, 27, 371-384.	3.4	62
26	The Sulu UHP Terrane: A Review of the Petrology and Structural Geology. <i>International Geology Review</i> , 1999, 41, 906-920.	2.1	59
27	Evidence for Residual Melt Extraction in the Takidani Pluton, Central Japan. <i>Journal of Petrology</i> , 2017, 58, 763-788.	2.8	59
28	Structural and petrological constraints on the tectonic evolution of the garnet-lherzolite facies Higashi-akaishi peridotite body, Sanbagawa belt, SW Japan. <i>Tectonics</i> , 2005, 24, n/a-n/a.	2.8	56
29	Subduction of mantle wedge peridotites: Evidence from the Higashiâ€akaishi ultramafic body in the Sanbagawa metamorphic belt. <i>Island Arc</i> , 2010, 19, 192-207.	1.1	55
30	A Paleoproterozoic coastal hydrothermal field inhabited by diverse microbial communities: the Strelley Pool Formation, Pilbara Craton, Western Australia. <i>Geobiology</i> , 2015, 13, 522-545.	2.4	48
31	Petrological constraints on the formation conditions and retrograde <i>P</i> / <i>T</i> path of the Kotsu eclogite unit, central Shikoku. <i>Journal of Metamorphic Geology</i> , 2003, 21, 363-376.	3.4	46
32	Slow subduction and buoyant exhumation of the Sanbagawa eclogite. <i>Lithos</i> , 2012, 146-147, 183-201.	1.4	44
33	The basement geology of Japan from A to Z. <i>Island Arc</i> , 2020, 29, e12339.	1.1	44
34	Paleo-mantle wedge preserved in the Sambagawa high-pressure metamorphic belt and the thickness of forearc continental crust. <i>Geology</i> , 2013, 41, 451-454.	4.4	43
35	Contact metamorphism in the Malashan dome, North Himalayan gneiss domes, southern Tibet: an example of shallow extensional tectonics in the Tethys Himalaya. <i>Journal of Metamorphic Geology</i> , 2007, 25, 831-853.	3.4	42
36	Dehydration breakdown of antigorite and the formation of B-type olivine CPO. <i>Earth and Planetary Science Letters</i> , 2014, 387, 67-76.	4.4	37

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37	Subduction related antigorite CPO patterns from forearc mantle in the Sanbagawa belt, southwest Japan. <i>Journal of Structural Geology</i> , 2011, 33, 1436-1445.	2.3	36
38	Metamorphic evolution of lawsonite eclogites from the southern Motagua fault zone, Guatemala: insights from phase equilibria and Raman spectroscopy. <i>Journal of Metamorphic Geology</i> , 2012, 30, 143-164.	3.4	35
39	Structural and microstructural constraints on the mechanism of eclogite formation in the Sambagawa belt, SW Japan. <i>Journal of Structural Geology</i> , 1999, 21, 1561-1573.	2.3	32
40	Crystallographic orientation, chemical composition and three-dimensional geometry of sigmoidal garnet: evidence for rotation. <i>Journal of Structural Geology</i> , 2002, 24, 1633-1646.	2.3	32
41	Internal structure of the Median Tectonic Line fault zone, SW Japan, revealed by borehole analysis. <i>Tectonophysics</i> , 2012, 532-535, 103-118.	2.2	30
42	The importance of heating duration for Raman CM thermometry: evidence from contact metamorphism around the Great Whin Sill intrusion, UK. <i>Journal of Metamorphic Geology</i> , 2017, 35, 165-180.	3.4	30
43	Ambiguous biogeographical patterns mask a more complete understanding of the Ordovician to Devonian evolution of Japan. <i>Island Arc</i> , 2014, 23, 76-101.	1.1	28
44	Origin of eclogitic metagabbro mass in the Sambagawa belt: Geological and geochemical constraints. <i>Lithos</i> , 2006, 89, 107-134.	1.4	27
45	The Malashan gneiss dome in south Tibet: comparative study with the Kangmar dome with special reference to kinematics of deformation and origin of associated granites. <i>Geological Society Special Publication</i> , 2006, 268, 471-495.	1.3	27
46	Regional-scale Excess Ar wave in a Barrovian type metamorphic belt, eastern Tibetan Plateau. <i>Island Arc</i> , 2009, 18, 293-305.	1.1	27
47	Exhumation rates and age of metamorphism in the Sanbagawa belt: new constraints from zircon fission track analysis. <i>Journal of Metamorphic Geology</i> , 2004, 22, 17-24.	3.4	26
48	Quartz lattice preferred orientation patterns and static recrystallization: Natural examples from the Ryoke belt, Japan. <i>Geology</i> , 2006, 34, 561.	4.4	25
49	Structural evidence for large-scale top-to-the-north normal displacement along the Median Tectonic Line in southwest Japan. <i>Island Arc</i> , 2007, 16, 243-261.	1.1	25
50	Phase equilibria modelling of blueschist and eclogite from the Sanbagawa metamorphic belt of southwest Japan reveals along-strike consistency in tectonothermal architecture. <i>Journal of Metamorphic Geology</i> , 2015, 33, 579-596.	3.4	25
51	Seismic evidence for flow in the hydrated mantle wedge of the Ryukyu subduction zone. <i>Scientific Reports</i> , 2016, 6, 29981.	3.3	24
52	Forearc diamond from Japan. <i>Geology</i> , 2008, 36, 219.	4.4	23
53	Large-scale folding in the Asemi-gawa region of the Sanbagawa Belt, southwest Japan. <i>Island Arc</i> , 2010, 19, 357-370.	1.1	22
54	Two types of antigorite serpentinite controlling heterogeneous slow-slip behaviours of slab-mantle interface. <i>Earth and Planetary Science Letters</i> , 2014, 401, 148-158.	4.4	22

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55	Vitrinite reflectance and Raman spectra of carbonaceous material as indicators of frictional heating on faults: Constraints from friction experiments. <i>Earth and Planetary Science Letters</i> , 2015, 424, 191-200.	4.4	22
56	Brucite as an important phase of the shallow mantle wedge: Evidence from the Shiraga unit of the Sanbagawa subduction zone, SW Japan. <i>Lithos</i> , 2016, 254-255, 53-66.	1.4	22
57	The Sambagawa belt - trends in research. <i>Journal of Metamorphic Geology</i> , 1990, 8, 393-399.	3.4	21
58	High- <i>P</i> metamorphism, pattern of induced flow in the mantle wedge, and the link with plutonism in paired metamorphic belts. <i>Terra Nova</i> , 2009, 21, 67-73.	2.1	21
59	Structural architecture and low-grade metamorphism of the Mikabu-Northern Chichibu accretionary wedge, SW Japan. <i>Journal of Metamorphic Geology</i> , 2017, 35, 695-716.	3.4	20
60	Thermal consequences of a subduction boundary jump: A numerical model for generating subduction-related clockwise pressure-temperature paths. <i>Tectonics</i> , 2002, 21, 4-1-4-17.	2.8	19
61	Recognition of shear heating on a long-lived major fault using Raman carbonaceous material thermometry: implications for strength and displacement history of the MTL, SW Japan. <i>Island Arc</i> , 2015, 24, 425-446.	1.1	19
62	Deformation microstructures of glaucophane and lawsonite in experimentally deformed blueschists: Implications for intermediate-depth intraplate earthquakes. <i>Journal of Geophysical Research: Solid Earth</i> , 2015, 120, 1229-1242.	3.4	18
63	Three-dimensional finite strain analysis in the high-grade part of the Sanbagawa Belt using deformed meta-conglomerate. <i>Island Arc</i> , 2002, 11, 111-121.	1.1	17
64	Ductile deformation and development of andalusite microstructures in the Hongusan area: Constraints on the metamorphism and tectonics of the Ryoke Belt. <i>Island Arc</i> , 2008, 17, 41-56.	1.1	17
65	Melt segregation and the architecture of magmatic reservoirs: insights from the Muroto sill (Japan). <i>Contributions To Mineralogy and Petrology</i> , 2019, 174, 1.	3.1	16
66	Reply to comment by A. Stallard on "Crystallographic orientation, chemical composition and three-dimensional geometry of sigmoidal garnet: evidence for rotation". <i>Journal of Structural Geology</i> , 2003, 25, 1341-1342.	2.3	15
67	Orthopyroxene-rich Rocks from the Sanbagawa Belt (SW Japan): Fluid-Rock Interaction in the Forearc Slab-Mantle Wedge Interface. <i>Journal of Petrology</i> , 2015, 56, 1113-1137.	2.8	15
68	Seismic properties of lawsonite eclogites from the southern Motagua fault zone, Guatemala. <i>Tectonophysics</i> , 2016, 677-678, 88-98.	2.2	14
69	Role of nappe boundaries in subduction-related regional deformation: spatial variation of meso- and microstructures in the Seba eclogite unit, the Sambagawa belt, SW Japan. <i>Journal of Structural Geology</i> , 2003, 25, 1097-1106.	2.3	13
70	Comment and Reply on "Do smoothly curved, spiral-shaped inclusion trails signify porphyroblast rotation?". <i>Geology</i> , 1992, 20, 1054.	4.4	12
71	Obliteration of olivine crystallographic preferred orientation patterns in subduction-related antigorite-bearing mantle peridotite: an example from the Higashi-Akaishi body, SW Japan. <i>Geological Society Special Publication</i> , 2011, 360, 113-127.	1.3	12
72	Crustal stacking and extension recorded by tectonic fabrics of the SE margin of the Tauern Window, Austria. <i>Journal of Structural Geology</i> , 1996, 18, 1455-1470.	2.3	11

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73	High-pressure garnet amphibolite from the Funaokayama unit, western Kii Peninsula and the extent of eclogite facies metamorphism in the Sanbagawa belt. <i>Journal of Mineralogical and Petrological Sciences</i> , 2013, 108, 189-200.	0.9	11
74	High- and low-stress subduction zones recognized in the rock record. <i>Earth and Planetary Science Letters</i> , 2020, 531, 115935.	4.4	11
75	Minimizing and quantifying mis-indexing in electron backscatter diffraction (EBSD) determinations of antigorite crystal directions. <i>Journal of Structural Geology</i> , 2017, 95, 127-141.	2.3	10
76	Thermal structure in subducted units from continental Moho depths in a palaeo subduction zone, the Asemigawa region of the Sanbagawa metamorphic belt, SW Japan. <i>Journal of Metamorphic Geology</i> , 2021, 39, 727-749.	3.4	10
77	Comment on "Metamorphic P-T-t time history of the Sanbagawa belt in central Shikoku, Japan and implications for retrograde metamorphism during exhumation" by K. Aoki, K. Kitajima, H. Masago, M. Nishizawa, M. Terabayashi, S. Omori, T. Yokoyama, N. Takahata, Y. Sano, S. Maruyama [<i>Lithos</i> 113 (2009) 393-407]. <i>Lithos</i> , 2010, 116, 195-196.	1.4	9
78	Graphitization of carbonaceous material in sedimentary rocks on short geologic time scales: An example from the Kurosegawa area, central Japan. <i>Island Arc</i> , 2015, 24, 119-130.	1.1	9
79	Chitinozoans and scolecodonts from the Silurian and Devonian of Japan. <i>Island Arc</i> , 2019, 28, e12294.	1.1	9
80	Crystallographic preferred orientation of talc determined by an improved EBSD procedure for sheet silicates: Implications for anisotropy at the slab-mantle interface due to Si-metasomatism. <i>American Mineralogist</i> , 2020, 105, 873-893.	1.9	9
81	Pressure-induced change in the compressional behavior of the O-H bond in chrysotile: A Raman high-pressure study up to 4.5 GPa. <i>American Mineralogist</i> , 2007, 92, 1456-1463.	1.9	7
82	Sense and direction of movement along the Atokura fault at Shimonita, Kanto Mountains, central Japan. <i>Journal of the Geological Society of Japan</i> , 1990, 96, 977-980.	0.6	7
83	The paleobiogeographical significance of the Silurian and Devonian trilobites of Japan. <i>Island Arc</i> , 2019, 28, e12287.	1.1	6
84	Fluid inclusion microthermometry for P-T constraints on normal displacement along the Median Tectonic Line in Northern Besshi area, Southwest Japan. <i>Island Arc</i> , 2011, 20, 426-438.	1.1	5
85	Upper Llandovery (Telychian) graptolites of the <i>Oktavites spiralis</i> Biozone from the Long Dai Formation, at Lam Thuy village, Quang Binh Province, central Vietnam. <i>Canadian Journal of Earth Sciences</i> , 2016, 53, 719-724.	1.3	5
86	The Malashan metamorphic complex in southern Tibet: Dominantly top-to-the north deformation and intrusive origin of its associated granites. <i>Himalayan Journal of Sciences</i> , 2006, 2, 92-93.	0.3	4
87	Tsunamis: geology, hazards and risks - introduction. <i>Geological Society Special Publication</i> , 2018, 456, 1-3.	1.3	4
88	Biogeographical and Biostratigraphical Significance of a New Middle Devonian Phacopid Trilobite from the Naidajin Formation, Kurosegawa Terrane, Kyushu, Southwest Japan. <i>Paleontological Research</i> , 2018, 22, 75-90.	1.0	4
89	Thermal evolution of the Ryoike metamorphic belt, southwestern Japan: Tectonic and numerical modeling: Comment. <i>Island Arc</i> , 2002, 11, 142-145.	1.1	3
90	Carboniferous ostracods from central Honshu, Japan. <i>Geological Magazine</i> , 2018, 155, 98-108.	1.5	3

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91	Geological studies in tsunami research since the 2011 Tohoku earthquake. Geological Society Special Publication, 2018, 456, 39-53.	1.3	3
92	Recognition of Detrital Carbonaceous Material in the Ryoke Metamorphic Belt by Using Raman Thermometry: Implications for Thermal Structure and Detrital Origin. Lithosphere, 2022, 2022, .	1.4	3
93	Lake shoreline deformation in Tibet and mid-crustal flow. Island Arc, 2010, 19, 209-211.	1.1	2
94	Zircon U-Pb geochronology and geochemistry of the Cerro Colorado porphyry copper deposit, northern Chile. Ore Geology Reviews, 2018, 93, 114-140.	2.7	2
95	Establishing Genetic Relationships between the Takidani Pluton and Two Large Silicic Eruptions in the Northern Japan Alps. Journal of Petrology, 2021, 62, .	2.8	2
96	Attenuated total reflection infrared (ATR-IR) spectroscopy of antigorite, chrysotile, and lizardite. Journal of Mineralogical and Petrological Sciences, 2020, 115, 303-312.	0.9	2
97	Recognition of broad thermal anomaly around the median tectonic line in central Kii peninsula, southwest Japan: Possible heat sources. Island Arc, 2022, 31, .	1.1	2
98	Comments and Replies on "Extension in compressional orogenic belts: The eastern Alps". Geology, 1990, 18, 673.	4.4	1
99	A new-look Journal. Island Arc, 2006, 15, 1-1.	1.1	1
100	Reply to comment by Nozaka (2014) on "Dehydration breakdown of antigorite and the formation of B-type olivine CPO". Earth and Planetary Science Letters, 2014, 408, 406-407.	4.4	1
101	Dragons, brimstone and the geology of a volcanic arc on the island of the last Samurai, Kyushu, Japan. Geology Today, 2016, 32, 21-26.	0.9	1
102	Flamingos, salt lakes and volcanoes: hunting for evidence of past climate change on the high Altiplano of Bolivia. Geology Today, 2017, 33, 101-107.	0.9	1
103	The Paleozoic evolution of the Korean Peninsula and Japan: An introduction. Island Arc, 2019, 28, e12297.	1.1	1
104	Petrogenesis of the Higashi-Akaishi Ultramafic Body: Implications for Lower Crustal Foundering and Mantle Wedge Processes. Journal of Petrology, 2021, 61, .	2.8	1
105	Thematic Section: Tectonic processes in metamorphic belts: Proceedings of the 29th ICG Symposium. Island Arc, 1994, 3, 133-134.	1.1	0
106	Dual publication. Island Arc, 2007, 16, 211-211.	1.1	0
107	Thematic Section: Microchronology and microchemistry: Problems, perspectives and geological applications. Island Arc, 2009, 18, 246-247.	1.1	0
108	Thematic Section: Papers arising out of 22nd Himalaya-Karakoram-Tibet workshop (HKT 22). Island Arc, 2009, 18, 403-403.	1.1	0

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109	Spirits of Yokokurayama: shrine of the Japanese trilobites. <i>Geology Today</i> , 2019, 35, 15-19.	0.9	0
110	Comment on 'Metamorphic olivine after dehydration embrittlement in Serpentinite: Case study from the Shiraga Serpentinite mass in the Sanbagawa high P/T metamorphic belt, central Shikoku, Japan' by Fukumura, Okamoto and Terabayashi, https://doi.org/10.1111/iar.12293 . <i>Island Arc</i> , 2020, 29, e12328.	1.1	0