

# Setsuya Nakada

## List of Publications by Citations

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86

papers

2,660

citations

30

h-index

49

g-index

95

ext. papers

2,931

ext. citations

3.3

avg, IF

4.99

L-index

#	Paper	IF	Citations
86	Overview of the 1990-1995 eruption at Unzen Volcano. <i>Journal of Volcanology and Geothermal Research</i> , <b>1999</b> , 89, 1-22	2.8	253
85	Caldera collapse during the 2000 eruption of Miyakejima Volcano, Japan. <i>Bulletin of Volcanology</i> , <b>2002</b> , 64, 55-68	2.4	184
84	Petrology of the 1991-1995 eruption at Unzen: effusion pulsation and groundmass crystallization. <i>Journal of Volcanology and Geothermal Research</i> , <b>1999</b> , 89, 173-196	2.8	181
83	Crumbling of dacite dome lava and generation of pyroclastic flows at Unzen volcano. <i>Nature</i> , <b>1992</b> , 360, 664-666	50.4	145
82	Experimental Petrology of the 1991-1995 Unzen Dacite, Japan. Part I: Phase Relations, Phase Composition and Pre-eruptive Conditions. <i>Journal of Petrology</i> , <b>2004</b> , 46, 319-337	3.9	123
81	Preliminary report on the activity at Unzen Volcano (Japan), November 1990-November 1991: Dacite lava domes and pyroclastic flows. <i>Journal of Volcanology and Geothermal Research</i> , <b>1993</b> , 54, 319-333	2.8	89
80	Groundmass pargasite in the 1991-1995 dacite of Unzen volcano: phase stability experiments and volcanological implications. <i>Journal of Volcanology and Geothermal Research</i> , <b>1999</b> , 89, 197-212	2.8	76
79	The 15 September 1991 pyroclastic flows at Unzen Volcano (Japan): a flow model for associated ash-cloud surges. <i>Journal of Volcanology and Geothermal Research</i> , <b>1999</b> , 89, 159-172	2.8	74
78	Endogenous growth of dacite dome at Unzen volcano (Japan), 1993-1994. <i>Geology</i> , <b>1995</b> , 23, 157	5	66
77	Experimental Petrology of the 1991-1995 Unzen Dacite, Japan. Part II: Cl/OH Partitioning between Hornblende and Melt and its Implications for the Origin of Oscillatory Zoning of Hornblende Phenocrysts. <i>Journal of Petrology</i> , <b>2004</b> , 46, 339-354	3.9	65
76	Chronology and products of the 2000 eruption of Miyakejima Volcano, Japan. <i>Bulletin of Volcanology</i> , <b>2005</b> , 67, 205-218	2.4	61
75	The outline of the 2011 eruption at Shinmoe-dake (Kirishima), Japan. <i>Earth, Planets and Space</i> , <b>2013</b> , 65, 475-488	2.9	55
74	Relation between microlite textures and discharge rate during the 1991-1995 eruptions at Unzen, Japan. <i>Journal of Volcanology and Geothermal Research</i> , <b>2008</b> , 175, 141-155	2.8	52
73	????????????????????~?????????????????. <i>Journal of the Geological Society of Japan</i> , <b>1979</b> , 85, 571-582	0.6	50
72	Origin of Phenocrysts and Compositional Diversity in Pre-Mazama Rhyodacite Lavas, Crater Lake, Oregon. <i>Journal of Petrology</i> , <b>1994</b> , 35, 127-162	3.9	48
71	Reconstruction of a phreatic eruption on 27 September 2014 at Ontake volcano, central Japan, based on proximal pyroclastic density current and fallout deposits. <i>Earth, Planets and Space</i> , <b>2016</b> , 68,	2.9	47
70	Syneruptive deep magma transfer and shallow magma remobilization during the 2011 eruption of Shinmoe-dake, Japan-Constraints from melt inclusions and phase equilibria experiments. <i>Journal of Volcanology and Geothermal Research</i> , <b>2013</b> , 257, 184-204	2.8	44

69	Exogenous and endogenous growth of the Unzen lava dome examined by satellite infrared image analysis. <i>Journal of Volcanology and Geothermal Research</i> , <b>2002</b> , 116, 151-160	2.8	44
68	Reconstruction of the 2014 eruption sequence of Ontake Volcano from recorded images and interviews. <i>Earth, Planets and Space</i> , <b>2016</b> , 68,	2.9	43
67	Chronology of the Miyakejima 2000 Eruption. <i>Journal of Geography (Chigaku Zasshi)</i> , <b>2001</b> , 110, 168-180	0.5	42
66	Temporal change in chemistry of magma source under Central Kyushu, Southwest Japan: progressive contamination of mantle wedge. <i>Bulletin of Volcanology</i> , <b>1991</b> , 53, 182-194	2.4	41
65	Manner of magma ascent at Unzen Volcano (Japan). <i>Geophysical Research Letters</i> , <b>1995</b> , 22, 567-570	4.9	39
64	2014 Mount Ontake eruption: characteristics of the phreatic eruption as inferred from aerial observations. <i>Earth, Planets and Space</i> , <b>2016</b> , 68,	2.9	36
63	Drilling and logging results of USDP-4 [Penetration into the volcanic conduit of Unzen Volcano, Japan. <i>Journal of Volcanology and Geothermal Research</i> , <b>2008</b> , 175, 1-12	2.8	34
62	Character and origin of lithofacies in the conduit of Unzen volcano, Japan. <i>Journal of Volcanology and Geothermal Research</i> , <b>2008</b> , 175, 45-59	2.8	33
61	Submarine flank eruption preceding caldera subsidence during the 2000 eruption of Miyakejima Volcano, Japan. <i>Bulletin of Volcanology</i> , <b>2005</b> , 67, 243-253	2.4	33
60	Volcanic Gas Study of the 2000 Miyakejima Volcanic Activity: Degassing Environment Deduced from Adhered Gas Component on Ash and SO <sub>2</sub> Emission Rate.. <i>Journal of Geography (Chigaku Zasshi)</i> , <b>2001</b> , 110, 271-279	0.5	33
59	Water contents and hydrogen isotopic ratios of rocks and minerals from the 1991 eruption of Unzen volcano, Japan. <i>Journal of Volcanology and Geothermal Research</i> , <b>1999</b> , 89, 231-242	2.8	31
58	Precursory activity and evolution of the 2011 eruption of Shinmoe-dake in Kirishima volcano Insights from ash samples. <i>Earth, Planets and Space</i> , <b>2013</b> , 65, 591-607	2.9	30
57	Remobilization of Highly Crystalline Felsic Magma by Injection of Mafic Magma: Constraints from the Middle Sixth Century Eruption at Haruna Volcano, Honshu, Japan. <i>Journal of Petrology</i> , <b>2007</b> , 48, 1543-1567	3.9	30
56	Discrimination of lava dome activity styles using satellite-derived thermal structures. <i>Journal of Volcanology and Geothermal Research</i> , <b>2000</b> , 102, 97-118	2.8	28
55	Relationship between eruption volume and neodymium isotopic composition at Unzen volcano. <i>Nature</i> , <b>1993</b> , 362, 831-834	50.4	28
54	Ballistic ejecta and eruption condition of the vulcanian explosion of Shinmoedake volcano, Kyushu, Japan on 1 February, 2011. <i>Earth, Planets and Space</i> , <b>2013</b> , 65, 609-621	2.9	24
53	A sequence of a plinian eruption preceded by dome destruction at Kelud volcano, Indonesia, on February 13, 2014, revealed from tephra fallout and pyroclastic density current deposits. <i>Journal of Volcanology and Geothermal Research</i> , <b>2019</b> , 382, 24-41	2.8	24
52	Volcano observatory best practices (VOBP) workshops - a summary of findings and best-practice recommendations. <i>Journal of Applied Volcanology</i> , <b>2019</b> , 8,	2.6	23

51	Groundmass crystallization in dacite dykes taken in Unzen Scientific Drilling Project (USDP-4). <i>Journal of Volcanology and Geothermal Research</i> , <b>2008</b> , 175, 71-81	2.8	23
50	Growth process of the lava dome/flow complex at Sinabung Volcano during 2013–2016. <i>Journal of Volcanology and Geothermal Research</i> , <b>2019</b> , 382, 120-136	2.8	22
49	Petrological Architecture of a Magmatic Shear Zone: A Multidisciplinary Investigation of Strain Localisation During Magma Ascent at Unzen Volcano, Japan. <i>Journal of Petrology</i> , <b>2019</b> , 60, 791-826	3.9	21
48	Morphological evolution of a new volcanic islet sustained by compound lava flows. <i>Geology</i> , <b>2016</b> , 44, 259-262	5	21
47	Magma plumbing system of the 2000 eruption of Miyakejima Volcano, Japan. <i>Bulletin of Volcanology</i> , <b>2005</b> , 67, 254-267	2.4	20
46	Zoned Magma Chamber of the Osuzuyama Acid Rocks, Southwest Japan. <i>Journal of Petrology</i> , <b>1983</b> , 24, 471-494	3.9	20
45	Evaluation of Volcanic Activity at Sinabung Volcano, After More Than 400 Years of Quiet. <i>Journal of Disaster Research</i> , <b>2012</b> , 7, 37-47	0.8	20
44	Methods for Eruption Prediction and Hazard Evaluation at Indonesian Volcanoes. <i>Journal of Disaster Research</i> , <b>2012</b> , 7, 26-36	0.8	19
43	Tectonics, Magmatism, and Evolution of the New Hebrides Backarc Troughs (Southwest Pacific) <b>1995</b> , 177-235		17
42	The October 16, 2013 rainfall-induced landslides and associated lahars at Izu Oshima Volcano, Japan. <i>Journal of Volcanology and Geothermal Research</i> , <b>2015</b> , 302, 242-256	2.8	15
41	Thorium isotopic measurements on silicate rock samples with a multi-collector inductively coupled plasma mass spectrometer. <i>Analyst, The</i> , <b>2001</b> , 126, 1707-1710	5	15
40	Vesiculation path of ascending magma in the 1983 and the 2000 eruptions of Miyakejima volcano, Japan. <i>Bulletin of Volcanology</i> , <b>2006</b> , 68, 549-566	2.4	14
39	Evolution of Mount Fuji, Japan: Inference from drilling into the subaerial oldest volcano, pre-Komitake. <i>Island Arc</i> , <b>2010</b> , 19, 470-488	2	13
38	Geological aspects of the 2003–2004 eruption of Anatahan Volcano, Northern Mariana Islands. <i>Journal of Volcanology and Geothermal Research</i> , <b>2005</b> , 146, 226-240	2.8	13
37	The Sr, Nd and O isotopic studies of the 1991–1995 eruption at Unzen, Japan. <i>Journal of Volcanology and Geothermal Research</i> , <b>1999</b> , 89, 243-253	2.8	13
36	Constraining tephra dispersion and deposition from three subplinian explosions in 2011 at Shinmoedake volcano, Kyushu, Japan. <i>Bulletin of Volcanology</i> , <b>2014</b> , 76, 1	2.4	12
35	Permeability measurements on rock samples from Unzen Scientific Drilling Project Drill Hole 4 (USDP-4). <i>Journal of Volcanology and Geothermal Research</i> , <b>2008</b> , 175, 82-90	2.8	10
34	Real-time drill mud gas logging at the USDP-4 drilling, Unzen volcano, Japan. <i>Journal of Volcanology and Geothermal Research</i> , <b>2008</b> , 175, 28-34	2.8	10

33	Intermittent generation of mafic enclaves in the 1991-1995 dacite of Unzen Volcano recorded in mineral chemistry. <i>Contributions To Mineralogy and Petrology</i> , <b>2017</b> , 172, 1	3.5	9
32	A trachyte-tyenite core within a basaltic nest: filtering of primitive injections by a multi-stage magma plumbing system (Oki-Dzen, south-west Japan). <i>Contributions To Mineralogy and Petrology</i> , <b>2015</b> , 170, 1	3.5	9
31	Numerical Simulations of Volcanic Ash Plume Dispersal from Kelud Volcano in Indonesia on February 13, 2014. <i>Journal of Disaster Research</i> , <b>2016</b> , 11, 31-42	0.8	9
30	Shallow Magmatic Hydrothermal Eruption in April 2018 on Ebinokogen Ioyama Volcano in Kirishima Volcano Group, Kyushu, Japan. <i>Geosciences (Switzerland)</i> , <b>2020</b> , 10, 183	2.7	8
29	Multiple magma reservoirs for the 1707 eruption of Fuji volcano, Japan. <i>Proceedings of the Japan Academy Series B: Physical and Biological Sciences</i> , <b>2004</b> , 80, 103-106	4	8
28	Magmatic processes of Unzen volcano revealed by excess argon distribution in zero-age plagioclase phenocrysts. <i>Journal of Volcanology and Geothermal Research</i> , <b>2008</b> , 175, 189-207	2.8	7
27	High-Na dacite from the Jean Charcot Trough (Vanuatu), Southwest Pacific. <i>Marine Geology</i> , <b>1994</b> , 116, 197-213	3.3	7
26	Determination of burial age of the "Augustus' villa" (Italy). <i>Geochemical Journal</i> , <b>2005</b> , 39, 573-578	0.9	7
25	Researchers discuss Mt. Unzen, a decade volcano. <i>Eos</i> , <b>1997</b> , 78, 505	1.5	6
24	<sup>238</sup> U- <sup>230</sup> Th radioactive disequilibrium in the northern Izu arc: ( <sup>230</sup> Th/ <sup>232</sup> Th) in the sub-arc mantle. <i>Geochemical Journal</i> , <b>2008</b> , 42, 461-479	0.9	6
23	Geodetic constraints for the mechanism of Anatahan eruption of May 2003. <i>Journal of Volcanology and Geothermal Research</i> , <b>2005</b> , 146, 77-85	2.8	6
22	Credibility of Volcanic Ash Thicknesses Reported by the Media and Local Residents Following the 2014 Eruption of Kelud Volcano, Indonesia. <i>Journal of Disaster Research</i> , <b>2016</b> , 11, 53-59	0.8	6
21	UNESCO Global Geoparks in the World after a multiple-goals roadmap proposal for future discussion. <i>Episodes</i> , <b>2021</b> ,	1.6	6
20	Eruption Scenarios of Active Volcanoes in Indonesia. <i>Journal of Disaster Research</i> , <b>2019</b> , 14, 40-50	0.8	5
19	Extreme Volcanic Risks 2 <b>2015</b> , 355-376		4
18	Common origin of plagioclase in the last three eruptions of Unzen volcano, Japan. <i>Journal of Volcanology and Geothermal Research</i> , <b>2008</b> , 175, 181-188	2.8	4
17	Implication of the temporal sulphur isotopic variation during the 2000 eruption of Miyakejima Volcano, Japan. <i>Island Arc</i> , <b>2007</b> , 16, 83-92	2	4
16	Miocene-Pliocene volcanism 273-308		4

15	Rapid alteration of fractured volcanic conduits beneath Mt Unzen. <i>Bulletin of Volcanology</i> , <b>2021</b> , 83, 1	2.4	4
14	Scientific Results of Volcano Drilling and Future Prospects. <i>Journal of Geography (Chigaku Zasshi)</i> , <b>2013</b> , 122, 258-272	0.5	3
13	Preface: special issue, scientific drilling at Mount Unzen. <i>Journal of Volcanology and Geothermal Research</i> , <b>2008</b> , 175, v-vi	2.8	3
12	Safety Assessment of Nuclear Power Plant under Volcanic Phenomena Background and Technical Basis of the Revision of JEAG4625. <i>Transactions of the Atomic Energy Society of Japan</i> , <b>2014</b> , 13, 75-86	0.1	3
11	Volcanic Archipelago: Volcanism as a Geoheritage Characteristic of Japan. <i>Volcanic Tourist Destinations</i> , <b>2018</b> , 19-28	0.1	2
10	Eruption Pattern and a Long-Term Magma Discharge Rate over the Past 100 Years at Kelud Volcano, Indonesia. <i>Journal of Disaster Research</i> , <b>2019</b> , 14, 27-39	0.8	2
9	Conveying Volcano Information Effectively to Stakeholders [A New Project for Promotion of Next Generation Volcano Research. <i>Journal of Disaster Research</i> , <b>2019</b> , 14, 623-629	0.8	2
8	Geochemical and SrNd isotopic characteristics of Quaternary Magmas from the Pre-Komitate volcano. <i>Journal of Mineralogical and Petrological Sciences</i> , <b>2015</b> , 110, 65-70	0.9	2
7	Conduit processes during the climactic phase of the Shinmoe-dake 2011 eruption (Japan): Insights into intermittent explosive activity and transition in eruption style of andesitic magma. <i>Journal of Volcanology and Geothermal Research</i> , <b>2018</b> , 358, 87-104	2.8	1
6	Safety Assessment of Nuclear Power Plant under Volcanic Phenomena Part 2. <i>Transactions of the Atomic Energy Society of Japan</i> , <b>2016</b> , 15, 173-182	0.1	1
5	Safety assessment of nuclear power plant under volcanic phenomena part2 [revision of JEAG4625 on the safety assessment of severe accident measures equipment and maintenance programme. <i>Journal of Nuclear Science and Technology</i> , <b>2017</b> , 54, 1277-1291	1	1
4	The 2014 phreatic eruption of Ontake Volcano and the subsequent erosion. <i>Journal of the Geological Society of Japan</i> , <b>2017</b> , 123, I-II	0.6	1
3	Safety assessment of nuclear power plant under volcanic phenomena [Background and technical basis of the revision of JEAG4625. <i>Journal of Nuclear Science and Technology</i> , <b>2016</b> , 53, 929-943	1	
2	Volcanic Eruption and Human Geoscience. <i>Advances in Geological Science</i> , <b>2020</b> , 145-157	0.1	
1	Transient conduit permeability controlled by a shift between compactant shear and dilatant rupture at Unzen volcano (Japan). <i>Solid Earth</i> , <b>2022</b> , 13, 875-900	3.3	