

Makoto Taniguchi

List of Publications by Year in descending order

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139
papers

8,807
citations

61857

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h-index

43802

91
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141
all docs

141
docs citations

141
times ranked

7395
citing authors

#	ARTICLE	IF	CITATIONS
1	Water and Related Nexus as Sustainable Basis in Anthropocene: Water Diversity and Integrated Research. <i>Trends in the Sciences</i> , 2022, 27, 1_17-1_21.	0.0	0
2	Editorial: Submarine Groundwater Discharge: Impacts on Coastal Ecosystem by Hidden Water and Dissolved Materials. <i>Frontiers in Environmental Science</i> , 2021, 8, .	1.5	1
3	Nutrient fluxes from rivers, groundwater, and the ocean into the coastal embayment along the Sanriku ria coast, Japan. <i>Limnology and Oceanography</i> , 2021, 66, 2728-2744.	1.6	6
4	Analysis of industrial waterâ€“energyâ€“labor nexus zones for economic and resource-based impact assessment. <i>Resources, Conservation and Recycling</i> , 2021, 169, 105483.	5.3	10
5	A New Linkage Toward a Sustainable Society in COVID-19 Under the Global Environmental Change. <i>Trends in the Sciences</i> , 2021, 26, 11_72-11_77.	0.0	1
6	Food-centric interlinkages in agricultural food-energy-water nexus under climate change and irrigation management. <i>Resources, Conservation and Recycling</i> , 2020, 163, 105099.	5.3	39
7	Identification of changes in subsurface temperature and groundwater flow after the 2016 Kumamoto earthquake using long-term well temperatureâ€“depth profiles. <i>Journal of Hydrology</i> , 2020, 582, 124530.	2.3	24
8	Identifying social responses to inundation disasters: a humanityâ€“nature interaction perspective. <i>Global Sustainability</i> , 2020, 3, .	1.6	4
9	Directions and trends of international research on groundwater for sustainability. <i>Journal of Groundwater Hydrology</i> , 2020, 62, 5-13.	0.1	0
10	Unsustainable groundwater use for global food production and related international trade. <i>Global Sustainability</i> , 2019, 2, .	1.6	29
11	Submarine Groundwater Discharge: Updates on Its Measurement Techniques, Geophysical Drivers, Magnitudes, and Effects. <i>Frontiers in Environmental Science</i> , 2019, 7, .	1.5	158
12	Increase in Fish Production Through Bottom-Up Trophic Linkage in Coastal Waters Induced by Nutrients Supplied via Submarine Groundwater. <i>Frontiers in Environmental Science</i> , 2019, 7, .	1.5	21
13	Recovery of Lost Nexus Synergy via Payment for Environmental Services in Kumamoto, Japan. <i>Frontiers in Environmental Science</i> , 2019, 7, .	1.5	18
14	Estimation of submarine groundwater discharge and its impact on the nutrient environment at Kamaiso beach, Yamagata, Japan. <i>Nippon Suisan Gakkaishi</i> , 2019, 85, 30-39.	0.0	2
15	Lacustrine groundwater discharge in southern Laguna de Bay, Philippines. <i>Global Environmental Studies</i> , 2018, , 87-100.	0.2	2
16	Evaluating the Tradeoffs between Groundwater Pumping for Snow-Melting and Nearshore Fishery Productivity in Obama City, Japan. <i>Water (Switzerland)</i> , 2018, 10, 1556.	1.2	11
17	Fresh and Recirculated Submarine Groundwater Discharge Evaluated by Geochemical Tracers and a Seepage Meter at Two Sites in the Seto Inland Sea, Japan. <i>Hydrology</i> , 2018, 5, 61.	1.3	10
18	An Analysis of the Water-Energy-Food-Land Requirements and CO2 Emissions for Food Security of Rice in Japan. <i>Sustainability</i> , 2018, 10, 3354.	1.6	20

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19	Tradeoffs in the water-energy- food nexus in the urbanizing Asia-Pacific region. <i>Water International</i> , 2018, 43, 892-903.	0.4	9
20	Comparing anthropogenic heat input and heat accumulation in the subsurface of Osaka, Japan. <i>Science of the Total Environment</i> , 2018, 643, 1127-1136.	3.9	23
21	Assessment of Collaboration Process in Interdisciplinary Research of Water-energy-food Nexus by Means of Ontology Engineering. <i>Global Environmental Studies</i> , 2018, , 301-320.	0.2	0
22	Water-Energy-Food Nexus KAN: Current Status and Issues of Nexus Knowledge Action Network. <i>Trends in the Sciences</i> , 2018, 23, 4_71-4_74.	0.0	0
23	Challenges for future hydrology: From the view points of interdisciplinary and transdisciplinary studies. <i>Journal of Japanese Association of Hydrological Sciences</i> , 2018, 48, 133-146.	0.2	2
24	Water, energy, and food security in the Asia Pacific region. <i>Journal of Hydrology: Regional Studies</i> , 2017, 11, 9-19.	1.0	30
25	Scale dependence of controls on groundwater vulnerability in the water-energy-food nexus, California Coastal Basin aquifer system. <i>Journal of Hydrology: Regional Studies</i> , 2017, 11, 126-138.	1.0	18
26	Higher species richness and abundance of fish and benthic invertebrates around submarine groundwater discharge in Obama Bay, Japan. <i>Journal of Hydrology: Regional Studies</i> , 2017, 11, 139-146.	1.0	20
27	Supporting collaboration in interdisciplinary research of water-energy-food nexus by means of ontology engineering. <i>Journal of Hydrology: Regional Studies</i> , 2017, 11, 31-43.	1.0	15
28	Hot spring resort development in Laguna Province, Philippines: Challenges in water use regulation. <i>Journal of Hydrology: Regional Studies</i> , 2017, 11, 96-106.	1.0	6
29	The economic value of groundwater in Obama. <i>Journal of Hydrology: Regional Studies</i> , 2017, 11, 44-52.	1.0	7
30	Water-Energy-Food Nexus in the Asia-Pacific Region. <i>Journal of Hydrology: Regional Studies</i> , 2017, 11, 1-8.	1.0	40
31	High-resolution mapping and time-series measurements of ²²² Rn concentrations and biogeochemical properties related to submarine groundwater discharge along the coast of Obama Bay, a semi-enclosed sea in Japan. <i>Progress in Earth and Planetary Science</i> , 2017, 4, .	1.1	20
32	â...-1. Research trends on the boundary between Hydrology and Fisheries. <i>Nippon Suisan Gakkaishi</i> , 2016, 82, 806-806.	0.0	0
33	Application of A10 Absolute Gravimeter for Monitoring Land Subsidence in Jakarta, Indonesia. <i>International Association of Geodesy Symposia</i> , 2016, , 127-134.	0.2	1
34	Seasonal Changes in Submarine Groundwater Discharge and Associated Nutrient Transport into a Tideless Semi-enclosed Embayment (Obama Bay, Japan). <i>Estuaries and Coasts</i> , 2016, 39, 13-26.	1.0	54
35	The Basic Act on the Water Cycle with groundwater. <i>Journal of Groundwater Hydrology</i> , 2015, 57, 83-90.	0.1	5
36	Methods of the Water-Energy-Food Nexus. <i>Water (Switzerland)</i> , 2015, 7, 5806-5830.	1.2	171

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37	The first repeated absolute gravity measurement for geothermal monitoring in The Kamojang Geothermal Field, Indonesia. <i>Geothermics</i> , 2015, 53, 114-124.	1.5	10
38	Different isotopic evolutionary trends of $\delta^{34}\text{S}$ and $\delta^{18}\text{O}$ compositions of dissolved sulfate in an anaerobic deltaic aquifer system. <i>Applied Geochemistry</i> , 2014, 46, 30-42.	1.4	24
39	Groundwater age rejuvenation caused by excessive urban pumping in Jakarta area, Indonesia. <i>Hydrological Processes</i> , 2013, 27, 2591-2604.	1.1	25
40	Assessment of urban groundwater heat contaminant in Jakarta, Indonesia. <i>Environmental Earth Sciences</i> , 2013, 70, 2033-2038.	1.3	7
41	Ground water and climate change. <i>Nature Climate Change</i> , 2013, 3, 322-329.	8.1	1,513
42	Optimizing the Water-Energy-Food Nexus in the Asia-Pacific Ring of Fire. <i>Eos</i> , 2013, 94, 435-435.	0.1	12
43	Spatial Distribution of Submarine Groundwater Discharge and Associated Nutrients within a Local Coastal Area. <i>Environmental Science & Technology</i> , 2012, 46, 5319-5326.	4.6	39
44	Towards Sustainable Groundwater Use: Setting Long-Term Goals, Backcasting, and Managing Adaptively. <i>Ground Water</i> , 2012, 50, 19-26.	0.7	208
45	Groundwater Dynamics of Fongafale Islet, Funafuti Atoll, Tuvalu. <i>Ground Water</i> , 2012, 50, 639-644.	0.7	32
46	Submarine groundwater discharge in Lützow-Holm Bay, Antarctica. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	1.5	46
47	What are the Subsurface Environmental Problems?. , 2011, , 3-18.		3
48	Groundwater flow system under a rapidly urbanizing coastal city as determined by hydrogeochemistry. <i>Journal of Asian Earth Sciences</i> , 2011, 40, 226-239.	1.0	25
49	Applications of a field absolute gravimeter for monitoring temporal gravity changes. , 2011, , .		2
50	Multiple isotope (H, O, N, S and Sr) approach elucidates complex pollution causes in the shallow groundwaters of the Taipei urban area. <i>Journal of Hydrology</i> , 2011, 397, 23-36.	2.3	81
51	Beneath the surface of global change: Impacts of climate change on groundwater. <i>Journal of Hydrology</i> , 2011, 405, 532-560.	2.3	796
52	Hydrogeological constraint on nitrate and arsenic contamination in Asian metropolitan groundwater. <i>Hydrological Processes</i> , 2011, 25, 2742-2754.	1.1	34
53	Submarine groundwater discharge and seawater circulation in a subterranean estuary beneath a tidal flat. <i>Hydrological Processes</i> , 2011, 25, 2755-2763.	1.1	23
54	Mass variation in outcome to high production activity in Kamojang Geothermal Field, Indonesia: A reservoir monitoring with relative and absolute gravimetry. <i>Earth, Planets and Space</i> , 2011, 63, 1157-1167.	0.9	10

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55	Detecting Groundwater Inputs into Bangkok Canals Via Radon and Thoron Measurements. , 2011, , 143-158.		2
56	Groundwater sustainability strategies. Nature Geoscience, 2010, 3, 378-379.	5.4	213
57	Application of multi-isotope ratios to study the source and quality of urban groundwater in Metro Manila, Philippines. Applied Geochemistry, 2010, 25, 900-909.	1.4	42
58	Coupled water and heat studies in subsurface environment. Journal of Groundwater Hydrology, 2010, 52, 371-379.	0.1	1
59	Human impacts on groundwater flow and contamination deduced by multiple isotopes in Seoul City, South Korea. Science of the Total Environment, 2009, 407, 3189-3197.	3.9	36
60	Detecting urbanization effects on surface and subsurface thermal environment " A case study of Osaka. Science of the Total Environment, 2009, 407, 3142-3152.	3.9	97
61	Monitoring groundwater variation by satellite and implications for in-situ gravity measurements. Science of the Total Environment, 2009, 407, 3173-3180.	3.9	14
62	Anthropogenic effects on the subsurface thermal and groundwater environments in Osaka, Japan and Bangkok, Thailand. Science of the Total Environment, 2009, 407, 3153-3164.	3.9	49
63	Effects of human activities and urbanization on groundwater environments: An example from the aquifer system of Tokyo and the surrounding area. Science of the Total Environment, 2009, 407, 3165-3172.	3.9	94
64	Urbanization and subsurface environmental issues: An attempt at DPSIR model application in Asian cities. Science of the Total Environment, 2009, 407, 3089-3104.	3.9	105
65	Urban warming trends in several large Asian cities over the last 100 years. Science of the Total Environment, 2009, 407, 3112-3119.	3.9	88
66	The contribution of human activities to subsurface environment degradation in Greater Jakarta Area, Indonesia. Science of the Total Environment, 2009, 407, 3129-3141.	3.9	44
67	Underground sources of nutrient contamination to surface waters in Bangkok, Thailand. Science of the Total Environment, 2009, 407, 3198-3207.	3.9	19
68	Reconstruction of the thermal environment evolution in urban areas from underground temperature distribution. Science of the Total Environment, 2009, 407, 3120-3128.	3.9	43
69	Erratum to "Sources of nitrate and ammonium contamination in groundwater under developing Asian megacities" [Science of the Total Environment 404 (2008) 361-376]. Science of the Total Environment, 2009, 407, 3218.	3.9	4
70	Erratum to "Sources of nitrate and ammonium contamination in groundwater under developing Asian megacities" Science of the Total Environment, 2009, 407, 3219-3231.	3.9	57
71	Erratum to "Effects of intensive urbanization on the intrusion of shallow groundwater into deep groundwater: Examples from Bangkok and Jakarta" [Science of the Total Environment 404 (2008) 401-410]. Science of the Total Environment, 2009, 407, 3208.	3.9	3
72	Erratum to "Integrated research on subsurface environments in Asian urban areas" Science of the Total Environment, 2009, 407, 3076-3088.	3.9	11

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73	Spatial variability of submarine groundwater discharge, Ubatuba, Brazil. <i>Estuarine, Coastal and Shelf Science</i> , 2008, 76, 493-500.	0.9	35
74	Direct measurements of submarine groundwater discharge (SGD) over a fractured rock aquifer in Flamengo Bay Brazil. <i>Estuarine, Coastal and Shelf Science</i> , 2008, 76, 466-472.	0.9	38
75	Integrated research on subsurface environments in Asian urban areas. <i>Science of the Total Environment</i> , 2008, 404, 377-392.	3.9	32
76	Effects of intensive urbanization on the intrusion of shallow groundwater into deep groundwater: Examples from Bangkok and Jakarta. <i>Science of the Total Environment</i> , 2008, 404, 401-410.	3.9	55
77	Submarine groundwater discharge from the Yellow River Delta to the Bohai Sea, China. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	38
78	Determination of transport rates in the Yellow River–Bohai Sea mixing zone via natural geochemical tracers. <i>Continental Shelf Research</i> , 2008, 28, 2700-2707.	0.9	58
79	Radon and radium isotope assessment of submarine groundwater discharge in the Yellow River delta, China. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	117
80	Groundwater Discharge as an Important Land-Sea Pathway into Manila Bay, Philippines. <i>Journal of Coastal Research</i> , 2008, 1, 15-24.	0.1	47
81	Groundwater-derived nutrient inputs to the Upper Gulf of Thailand. <i>Continental Shelf Research</i> , 2007, 27, 176-190.	0.9	95
82	Potential Impacts of Climate Change and Human Activity on Subsurface Water Resources. <i>Vadose Zone Journal</i> , 2007, 6, 531-532.	1.3	51
83	Combined Effects of Urbanization and Global Warming on Subsurface Temperature in Four Asian Cities. <i>Vadose Zone Journal</i> , 2007, 6, 591-596.	1.3	114
84	Evaluating Ground Water–Sea Water Interactions via Resistivity and Seepage Meters. <i>Ground Water</i> , 2007, 45, 729-735.	0.7	39
85	Nitrate pollution of groundwater in the Yellow River delta, China. <i>Hydrogeology Journal</i> , 2007, 15, 1605-1614.	0.9	89
86	Evaluations of spatial distribution of submarine groundwater discharge. <i>Geophysical Research Letters</i> , 2006, 33, .	1.5	13
87	Dynamics of submarine groundwater discharge and freshwater-seawater interface. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	75
88	Submarine groundwater discharge measured by seepage meters in sicilian coastal waters. <i>Continental Shelf Research</i> , 2006, 26, 835-842.	0.9	49
89	Climate change and groundwater. <i>Journal of Groundwater Hydrology</i> , 2005, 47, 5-17.	0.1	1
90	Evaluation of time-space distributions of submarine ground water discharge. <i>Ground Water</i> , 2005, 43, 336-342.	0.7	48

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91	Effects of urbanization and groundwater flow on subsurface temperature in three megacities in Japan. <i>Journal of Geophysics and Engineering</i> , 2005, 2, 320-325.	0.7	34
92	Effects of urbanization and groundwater flow on the subsurface temperature in Osaka, Japan. <i>Physics of the Earth and Planetary Interiors</i> , 2005, 152, 305-313.	0.7	47
93	Evaluations of subsurface flow for reconstructions of climate change using borehole temperature and isotope data in Kamchatka. <i>Physics of the Earth and Planetary Interiors</i> , 2005, 152, 335-342.	0.7	7
94	Use of Temperature Profiles and Stable Isotopes to Trace Flow Lines: Nagaoka Area, Japan. <i>Ground Water</i> , 2004, 42, 83-91.	0.7	26
95	Submarine groundwater discharge in Osaka Bay, Japan. <i>Limnology</i> , 2004, 5, 25-32.	0.8	63
96	Groundwater and pore water inputs to the coastal zone. <i>Biogeochemistry</i> , 2003, 66, 3-33.	1.7	824
97	Spatial and temporal distributions of submarine groundwater discharge rates obtained from various types of seepage meters at a site in the Northeastern Gulf of Mexico. <i>Biogeochemistry</i> , 2003, 66, 35-53.	1.7	122
98	Evaluations of groundwater discharge rates from subsurface temperature in Cockburn Sound, Western Australia. <i>Biogeochemistry</i> , 2003, 66, 111-124.	1.7	49
99	Seepage rate variability in Florida Bay driven by Atlantic tidal height. <i>Biogeochemistry</i> , 2003, 66, 187-202.	1.7	43
100	Periodical changes of submarine fluid discharge from a deep seafloor, Suiyo Sea Mountain, Japan. <i>Geophysical Research Letters</i> , 2003, 30, .	1.5	5
101	Shallow subsurface thermal regimes in major plains in Japan with reference to recent surface warming. <i>Physics and Chemistry of the Earth</i> , 2003, 28, 457-466.	1.2	19
102	Transient effects of surface temperature and groundwater flow on subsurface temperature in Kumamoto Plain, Japan. <i>Physics and Chemistry of the Earth</i> , 2003, 28, 477-486.	1.2	53
103	Detection of submarine fresh groundwater discharge and its relation to onshore groundwater flow system. <i>Journal of Groundwater Hydrology</i> , 2003, 45, 133-144.	0.1	5
104	Assessing methodologies for measuring groundwater discharge to the ocean. <i>Eos</i> , 2002, 83, 117.	0.1	105
105	Tidal effects on submarine groundwater discharge into the ocean. <i>Geophysical Research Letters</i> , 2002, 29, 2-1.	1.5	151
106	Estimations of the past groundwater recharge rate from deep borehole temperature data. <i>Catena</i> , 2002, 48, 39-51.	2.2	20
107	Investigation of submarine groundwater discharge. <i>Hydrological Processes</i> , 2002, 16, 2115-2129.	1.1	569
108	Measurement and significance of the direct discharge of groundwater into the coastal zone. <i>Journal of Sea Research</i> , 2001, 46, 109-116.	0.6	250

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109	Interaction between Groundwater and Surface Water/Sea Water. Journal of Groundwater Hydrology, 2001, 43, 189-199.	0.1	7
110	A new technique to collect groundwater samples from submarine formations and its application to offshore Kurobe alluvial fan. Journal of Groundwater Hydrology, 2001, 43, 279-287.	0.1	3
111	Interaction between Groundwater and Surface Water/Sea Water. Journal of Groundwater Hydrology, 2001, 43, 343-351.	0.1	0
112	Measurements of submarine groundwater discharge rates by a continuous heat-type automated seepage meter in Osaka Bay, Japan. Journal of Groundwater Hydrology, 2001, 43, 271-277.	0.1	62
113	Evaluation of the groundwater capture zone for modelling of nutrient discharge. Hydrological Processes, 2001, 15, 1939-1949.	1.1	5
114	Stable isotope studies of precipitation and river water in the Lake Biwa basin, Japan. Hydrological Processes, 2000, 14, 539-556.	1.1	37
115	Evaluations of the saltwater-groundwater interface from borehole temperature in a coastal region. Geophysical Research Letters, 2000, 27, 713-716.	1.5	37
116	Session focuses on subsurface thermal studies. Eos, 2000, 81, 546-552.	0.1	1
117	A Critical Review of Global Studies on Groundwater. Scale-up of groundwater studies in time and space.. Suimon Mizu Shigen Gakkaishi, 2000, 13, 476-485.	0.1	5
118	Groundwater flow and subsurface thermal regime. , 2000, , 485-488.		2
119	Disturbances of temperature-depth profiles due to surface climate change and subsurface water flow: 2. An effect of step increase in surface temperature caused by forest clearing in southwest western Australia. Water Resources Research, 1999, 35, 1519-1529.	1.7	69
120	Effects of Soil Properties on Evaporation and Soil Moisture Movement at a Playa under Arid Conditions. Chirigaku Hyoron, 1999, 72, 215-226.	0.0	1
121	Estimations of surface temperature and subsurface heat flux following forest removal in the south-west of Western Australia. Hydrological Processes, 1998, 12, 2205-2216.	1.1	10
122	Groundwater Flow and Mass/Heat Transports. Journal of Japanese Association of Hydrological Sciences, 1998, 28, 1-12.	0.2	1
123	Subsurface Water Responses to Land Cover/Use Changes: An Overview. , 1997, , 1-20.		6
124	Changes in Surface and Subsurface Temperatures after Clearing Forest in Western Australia. , 1997, , 139-151.		5
125	Subsurface Hydrological Responses to Land Cover and Land Use Changes. , 1997, , .		4
126	An Effect of Seiche on Groundwater Seepage Rate into Lake Biwa, Japan. Water Resources Research, 1996, 32, 333-338.	1.7	36

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127	Significance of stemflow in groundwater recharge. 1: Evaluation of the stemflow contribution to recharge using a mass balance approach. Hydrological Processes, 1996, 10, 71-80.	1.1	101
128	Significance of stemflow in groundwater recharge. 2: A cylindrical infiltration model for evaluating the stemflow contribution to groundwater recharge. Hydrological Processes, 1996, 10, 81-88.	1.1	54
129	Significance of stemflow in groundwater recharge. 1: Evaluation of the stemflow contribution to recharge using a mass balance approach. , 1996, 10, 71.		4
130	Significance of stemflow in groundwater recharge. 2: A cylindrical infiltration model for evaluating the stemflow contribution to groundwater recharge. Hydrological Processes, 1996, 10, 81-88.	1.1	1
131	Isotope Studies of Precipitation, River Water and Groundwater in the HEIFE Area, Northwestern China. Journal of the Meteorological Society of Japan, 1995, 73, 1293-1299.	0.7	8
132	Analysing the long term reduction in groundwater temperature due to pun pumping. Hydrological Sciences Journal, 1995, 40, 407-421.	1.2	9
133	Estimated Recharge Rates From Groundwater Temperatures In The Nara Basin, Japan. Hydrogeology Journal, 1994, 2, 7-14.	0.9	35
134	Continuous Measurements of Ground-Water Seepage Using an Automatic Seepage Meter. Ground Water, 1993, 31, 675-679.	0.7	143
135	Evaluation of vertical groundwater fluxes and thermal properties of aquifers based on transient temperature-depth profiles. Water Resources Research, 1993, 29, 2021-2026.	1.7	146
136	MECHANISM OF GROUNDWATER TEMPERATURE FORMATION IN NAGAOKA PLAIN. Chirigaku Hyoron, 1987, 60, 725-738.	0.0	17
137	Alteration of the groundwater thermal regime caused by advection. Hydrological Sciences Journal, 1985, 30, 343-360.	1.2	13
138	EFFECTS OF SNOW COVER AND INFILTRATED MELTWATER ON SOIL AND GROUNDWATER TEMPERATURE IN AND AROUND NAGAOKA CITY. Chirigaku Hyoron, 1985, 58, 370-384.	0.0	6
139	Asian Groundwater Perspectives on Global Change and Future Earth. , 0, , 179-186.		2