

C R Benitez-Nelson

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

124
papers

6,645
citations

40
h-index

80
g-index

130
ext. papers

7,653
ext. citations

5.7
avg, IF

5.59
L-index

#	Paper	IF	Citations
124	Activities of 223Ra and 226Ra in Fluids From the Lost City Hydrothermal Field Require Short Fluid Residence Times. <i>Journal of Geophysical Research: Oceans</i> , 2021 , 126, e2021JC017886	3.3	1
123	Review of the analysis of Th in small volume (2-4L) seawater samples: improvements and recommendations. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2021 , 329, 1-13	1.5	0
122	Cyclonic eddies modulate temporal and spatial decoupling of particulate carbon, nitrogen, and biogenic silica export in the North Pacific Subtropical Gyre. <i>Limnology and Oceanography</i> , 2021 , 66, 3508-3522	4.8	0
121	Losses of Soil Organic Carbon with Deforestation in Mangroves of Madagascar. <i>Ecosystems</i> , 2021 , 24, 1-19	3.9	16
120	Particulate and Dissolved Organic Matter in Stormwater Runoff Influences Oxygen Demand in Urbanized Headwater Catchments. <i>Environmental Science & Technology</i> , 2021 , 55, 952-961	10.3	10
119	Deep zooplankton rely on small particles when particle fluxes are low. <i>Limnology and Oceanography Letters</i> , 2020 , 5, 410-416	7.9	5
118	Evidence for rapid trace element alteration of planktic foraminiferal shells from the Panama Basin: Manganese adsorption during vertical transport. <i>Marine Micropaleontology</i> , 2020 , 157, 101872	1.7	3
117	The Impacts of Flood, Drought, and Turbidites on Organic Carbon Burial Over the Past 2,000 Years in the Santa Barbara Basin, California. <i>Paleoceanography and Paleoclimatology</i> , 2020 , 35, e2020PA003849	3.3	1
116	Dust provenance and its role as a potential fertilizing agent for the Okavango Delta, Botswana. <i>Earth Surface Processes and Landforms</i> , 2020 , 45, 1705-1716	3.7	3
115	Seasonal dynamics of midwater zooplankton and relation to particle cycling in the North Pacific Subtropical Gyre. <i>Progress in Oceanography</i> , 2020 , 182, 102266	3.8	8
114	High-resolution spatial and temporal measurements of particulate organic carbon flux using thorium-234 in the northeast Pacific Ocean during the EXport Processes in the Ocean from RemoTe Sensing field campaign. <i>Elementa</i> , 2020 , 8,	3.6	8
113	High-resolution spatial and temporal measurements of particulate organic carbon flux using thorium-234 in the northeast Pacific Ocean during the EXport Processes in the Ocean from RemoTe Sensing field campaign. <i>Elementa</i> , 2020 , 8,	3.6	1
112	Dr. Robert C. Thunell: A 40-Year Career of Outstanding Science, Service, and Education in Paleoceanography and Paleoclimatology. <i>Paleoceanography and Paleoclimatology</i> , 2020 , 35, e2019PA003786	3.3	3
111	Decadal variability in twentieth-century ocean acidification in the California Current Ecosystem. <i>Nature Geoscience</i> , 2020 , 13, 43-49	18.3	24
110	Trace Element Heterogeneity Across Individual Planktic Foraminifera from the Modern Cariaco Basin. <i>Journal of Foraminiferal Research</i> , 2020 , 50, 204-218	1.1	6
109	Extensive morphological variability in asexually produced planktic foraminifera. <i>Science Advances</i> , 2020 , 6,	14.3	14
108	Resolving marine dissolved organic phosphorus (DOP) composition in a coastal estuary. <i>Limnology and Oceanography</i> , 2020 , 65, 2787-2799	4.8	1

107	Transient Enhancement and Decoupling of Carbon and Opal Export in Cyclonic Eddies. <i>Journal of Geophysical Research: Oceans</i> , 2020 , 125, e2020JC016372	3.3	3
106	From Land to the Ocean: The Interplay Between Allochthonous and Autochthonous Contribution to Particles in Nepheloid Layers of the Cariaco Basin, Venezuela. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2019 , 124, 3191-3207	3.7	
105	Mercury Cycling in the North Pacific Subtropical Gyre as Revealed by Mercury Stable Isotope Ratios. <i>Global Biogeochemical Cycles</i> , 2019 , 33, 777-794	5.9	26
104	Transport of Radium and Nutrients Through Eastern South African Beaches. <i>Journal of Geophysical Research: Oceans</i> , 2019 , 124, 2010-2027	3.3	2
103	Development of a two-layer transport model in layered muddy permeable marsh sediments using ²²⁴ Ra- ²²⁸ Th disequilibria. <i>Limnology and Oceanography</i> , 2019 , 64, 1672-1687	4.8	7
102	Centennial OMZ changes in the NW Mexican Margin from geochemical and foraminiferal sedimentary records. <i>Continental Shelf Research</i> , 2019 , 176, 64-75	2.4	3
101	The Scientific Legacy of the CARIACO Ocean Time-Series Program. <i>Annual Review of Marine Science</i> , 2019 , 11, 413-437	15.4	17
100	Ongoing Increase in Eastern Tropical North Pacific Denitrification as Interpreted Through the Santa Barbara Basin Sedimentary ¹⁵ N Record. <i>Paleoceanography and Paleoclimatology</i> , 2019 , 34, 1554-1567	3.3	7
99	Seasonal and spatial changes in carbon and nitrogen fluxes estimated using ²³⁴ Th: ²³⁸ U disequilibria in the North Pacific tropical and subtropical gyre. <i>Marine Chemistry</i> , 2019 , 217, 103705	3.7	9
98	Reconstructing 800 Years of Carbonate Ion Concentration in the Cariaco Basin Using the Area Density of Planktonic Foraminifera Shells. <i>Paleoceanography and Paleoclimatology</i> , 2019 , 34, 2129-2140	3.3	2
97	Drivers of Sediment Accumulation and Nutrient Burial in Coastal Stormwater Detention Ponds, South Carolina, USA. <i>Ecosystems</i> , 2018 , 21, 1118-1138	3.9	14
96	A Time Series of Water Column Distributions and Sinking Particle Flux of and Domoic Acid in the Santa Barbara Basin, California. <i>Toxins</i> , 2018 , 10,	4.9	7
95	Temporal Variability in Ecological Stoichiometry and Material Exchange in a Tidally Dominated Estuary (North Inlet, South Carolina) and the Impact on Community Nutrient Status. <i>Estuaries and Coasts</i> , 2018 , 41, 2223-2239	2.8	5
94	Particulate organic carbon export across the Antarctic Circumpolar Current at 10°E: Differences between north and south of the Antarctic Polar Front. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2017 , 138, 86-101	2.3	13
93	Isolation and molecular characterization of dissolved organic phosphorus using electro dialysis-reverse osmosis and solution ³¹ P-NMR. <i>Limnology and Oceanography: Methods</i> , 2017 , 15, 436-452	2.6	9
92	Marine snow formation by the toxin-producing diatom, <i>Pseudo-nitzschia australis</i> . <i>Harmful Algae</i> , 2017 , 61, 23-30	5.3	23
91	Latitudinal distributions of particulate carbon export across the North Western Atlantic Ocean. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2017 , 129, 116-130	2.5	14
90	Understanding marine dissolved organic matter production: Compositional insights from axenic cultures of <i>Thalassiosira pseudonana</i> . <i>Limnology and Oceanography</i> , 2016 , 61, 2222-2233	4.8	17

89	Enhanced Dissolved Organic Matter Recovery from Saltwater Samples with Electrodialysis. <i>Aquatic Geochemistry</i> , 2016 , 22, 555-572	1.7	6
88	Spatial and Temporal Variations in Pyrodinium bahamense Cyst Concentrations in the Sediments of Bioluminescent Mangrove Lagoon, St. Croix, USVI. <i>Estuaries and Coasts</i> , 2016 , 39, 682-694	2.8	3
87	The biological pump in the Costa Rica Dome: an open-ocean upwelling system with high new production and low export. <i>Journal of Plankton Research</i> , 2016 , 38, 348-365	2.2	27
86	Prediction of the Export and Fate of Global Ocean Net Primary Production: The EXPORTS Science Plan. <i>Frontiers in Marine Science</i> , 2016 , 3,	4.5	99
85	Dissolved and particulate phosphorus distributions and elemental stoichiometry throughout the Chukchi Sea. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2016 , 130, 76-87	2.3	4
84	Calcification of the planktonic foraminifera <i>Globigerina bulloides</i> and carbonate ion concentration: Results from the Santa Barbara Basin. <i>Paleoceanography</i> , 2016 , 31, 1083-1102		20
83	Cycling of suspended particulate phosphorus in the redoxcline of the Cariaco Basin. <i>Marine Chemistry</i> , 2015 , 176, 64-74	3.7	12
82	Ocean chemistry. The missing link in oceanic phosphorus cycling?. <i>Science</i> , 2015 , 348, 759-60	33.3	19
81	Impacts of low phytoplankton NO ₃ :PO ₄ utilization ratios over the Chukchi Shelf, Arctic Ocean. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2015 , 118, 105-121	2.3	29
80	Phytoplankton community structure and depth distribution changes in the Cariaco Basin between 1996 and 2010. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2015 , 101, 27-37	2.5	17
79	Changes in source waters to the Southern California Bight. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2015 , 112, 42-52	2.3	74
78	Small phytoplankton drive high summertime carbon and nutrient export in the Gulf of California and Eastern Tropical North Pacific. <i>Global Biogeochemical Cycles</i> , 2015 , 29, 1309-1332	5.9	34
77	Using Lagrangian-based process studies to test satellite algorithms of vertical carbon flux in the eastern North Pacific Ocean. <i>Journal of Geophysical Research: Oceans</i> , 2015 , 120, 7208-7222	3.3	30
76	Phytoplankton blooms beneath the sea ice in the Chukchi sea. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2014 , 105, 1-16	2.3	144
75	P-NEXFS analysis of aerosol phosphorus delivered to the Mediterranean Sea. <i>Geophysical Research Letters</i> , 2014 , 41, 4043-4049	4.9	26
74	Physiological modifications of seston in response to physicochemical gradients within Lake Superior. <i>Limnology and Oceanography</i> , 2014 , 59, 1011-1026	4.8	13
73	Interannual and Subdecadal Variability in the Nutrient Geochemistry of the Cariaco Basin. <i>Oceanography</i> , 2014 , 27, 148-159	2.3	30
72	Spatial and seasonal variability of dissolved organic matter in the Cariaco Basin. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2013 , 118, 951-962	3.7	10

71	Contributions of mesozooplankton to vertical carbon export in a coastal upwelling system. <i>Marine Ecology - Progress Series</i> , 2013 , 491, 47-65	2.6	62
70	Nitrogen fixation in the Gulf of California and the Eastern Tropical North Pacific. <i>Progress in Oceanography</i> , 2013 , 109, 1-17	3.8	43
69	Recent trends in sediment and nutrient accumulation rates in coastal, freshwater Lake Sibaya, South Africa. <i>Marine and Freshwater Research</i> , 2013 , 64, 1087	2.2	5
68	A methods assessment and recommendations for improving calculations and reducing uncertainties in the determination of ²¹⁰ Po and ²¹⁰ Pb activities in seawater. <i>Limnology and Oceanography: Methods</i> , 2013 , 11, 561-571	2.6	31
67	Biogenic nitrogen gas production at the oxidizing interface in the Cariaco Basin, Venezuela. <i>Biogeosciences</i> , 2013 , 10, 267-279	4.6	14
66	Atmospheric phosphorus deposition in a near-coastal rural site in the NE Iberian Peninsula and its role in marine productivity. <i>Atmospheric Environment</i> , 2012 , 49, 361-370	5.3	36
65	Potential role of event-driven sediment transport on sediment accumulation in the Cariaco Basin, Venezuela. <i>Marine Geology</i> , 2012 , 307-310, 105-110	3.3	11
64	Do inverse ecosystem models accurately reconstruct plankton trophic flows? Comparing two solution methods using field data from the California Current. <i>Journal of Marine Systems</i> , 2012 , 91, 20-33	2.7	22
63	Magnitude and composition of sinking particulate phosphorus fluxes in Santa Barbara Basin, California. <i>Global Biogeochemical Cycles</i> , 2012 , 26, n/a-n/a	5.9	33
62	Potential role of inorganic polyphosphate in the cycling of phosphorus within the hypoxic water column of Effingham Inlet, British Columbia. <i>Global Biogeochemical Cycles</i> , 2012 , 26, n/a-n/a	5.9	26
61	Atmospheric fluxes of organic N and P to the global ocean. <i>Global Biogeochemical Cycles</i> , 2012 , 26,	5.9	152
60	The transcriptome and proteome of the diatom <i>Thalassiosira pseudonana</i> reveal a diverse phosphorus stress response. <i>PLoS ONE</i> , 2012 , 7, e33768	3.7	216
59	U.S. CARBON CYCLE SCIENCE PLAN RELEASED. <i>Limnology and Oceanography Bulletin</i> , 2012 , 21, 4-5	0.9	
58	Massive phytoplankton blooms under Arctic sea ice. <i>Science</i> , 2012 , 336, 1408	33.3	483
57	Mystery behind Hitchcock's birds. <i>Nature Geoscience</i> , 2012 , 5, 2-3	18.3	27
56	Intercalibration studies of short-lived thorium-234 in the water column and marine particles. <i>Limnology and Oceanography: Methods</i> , 2012 , 10, 631-644	2.6	22
55	Detecting toxic diatom blooms from ocean color and a regional ocean model. <i>Geophysical Research Letters</i> , 2011 , 38, n/a-n/a	4.9	25
54	Pseudo-nitzschia and domoic acid fluxes in Santa Barbara Basin (CA) from 1993 to 2008. <i>Harmful Algae</i> , 2011 , 10, 567-575	5.3	39

53	Phosphorus composition of sinking particles in the Guaymas Basin, Gulf of California. <i>Limnology and Oceanography</i> , 2011 , 56, 1093-1105	4.8	20
52	Trophic cycling and carbon export relationships in the California Current Ecosystem. <i>Limnology and Oceanography</i> , 2011 , 56, 1866-1878	4.8	44
51	Toxic diatoms and domoic acid in natural and iron enriched waters of the oceanic Pacific. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 20762-7	11.5	57
50	Trophic Transfer of the Harmful Algal Toxin Domoic Acid as a Cause of Death in a Minke Whale (<i>Balaenoptera acutorostrata</i>) Stranding in Southern California. <i>Aquatic Mammals</i> , 2010 , 36, 342-350	3.1	50
49	Polyphosphate in <i>Trichodesmium</i> from the low-phosphorus Sargasso Sea. <i>Limnology and Oceanography</i> , 2010 , 55, 2161-2169	4.8	61
48	Insights into particle formation and remineralization using the short-lived radionuclide, Thorium-234. <i>Geophysical Research Letters</i> , 2010 , 37, n/a-n/a	4.9	27
47	¹³⁷ Cs and ²¹⁰ Pb derived sediment accumulation rates and their role in the long-term development of the Mkuze River floodplain, South Africa. <i>Geomorphology</i> , 2010 , 119, 88-96	4.3	40
46	Sedimentation and particle dynamics in the seasonal ice zone of the Barents Sea. <i>Journal of Marine Systems</i> , 2010 , 79, 185-198	2.7	23
45	Cell-Specific Alkaline Phosphatase Expression by Phytoplankton from Winyah Bay, South Carolina, USA. <i>Estuaries and Coasts</i> , 2009 , 32, 943-957	2.8	14
44	Rapid downward transport of the neurotoxin domoic acid in coastal waters. <i>Nature Geoscience</i> , 2009 , 2, 272-275	18.3	51
43	A microbial source of phosphonates in oligotrophic marine systems. <i>Nature Geoscience</i> , 2009 , 2, 696-699	18.3	87
42	Atmospheric iron deposition: global distribution, variability, and human perturbations. <i>Annual Review of Marine Science</i> , 2009 , 1, 245-78	15.4	461
41	Export stoichiometry and migrant-mediated flux of phosphorus in the North Pacific Subtropical Gyre. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2009 , 56, 73-88	2.5	49
40	Biogeochemical responses to late-winter storms in the Sargasso Sea, III: Estimates of export production using ²³⁴ Th: ²³⁸ U disequilibria and sediment traps. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2009 , 56, 875-891	2.5	21
39	Hydrolytic ectoenzyme activity associated with suspended and sinking organic particles within the anoxic Cariaco Basin. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2009 , 56, 1266-1283	2.5	26
38	The importance of subsurface nepheloid layers in transport and delivery of sediments to the eastern Cariaco Basin, Venezuela. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2009 , 56, 2249-2262	2.5	32
37	Si cycle in the Cariaco Basin, Venezuela: Seasonal variability in silicate availability and the Si:C:N composition of sinking particles. <i>Global Biogeochemical Cycles</i> , 2008 , 22, n/a-n/a	5.9	8
36	Global distribution of atmospheric phosphorus sources, concentrations and deposition rates, and anthropogenic impacts. <i>Global Biogeochemical Cycles</i> , 2008 , 22, n/a-n/a	5.9	504

35	The carbon dioxide system and net community production within a cyclonic eddy in the lee of Hawaii. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2008 , 55, 1412-1425	2.3	11
34	Nitrogen dynamics within a wind-driven eddy. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2008 , 55, 1398-1411	2.3	25
33	The influence of a mature cyclonic eddy on particle export in the lee of Hawaii. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2008 , 55, 1445-1460	2.3	47
32	Particle export within cyclonic Hawaiian lee eddies derived from $^{210}\text{Pb}/^{10}\text{Po}$ disequilibrium. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2008 , 55, 1461-1472	2.3	38
31	Cobalt, manganese, and iron near the Hawaiian Islands: A potential concentrating mechanism for cobalt within a cyclonic eddy and implications for the hybrid-type trace metals. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2008 , 55, 1473-1490	2.3	53
30	Marine polyphosphate: a key player in geologic phosphorus sequestration. <i>Science</i> , 2008 , 320, 652-5	33.3	203
29	Particulate organic carbon fluxes along upwelling-dominated continental margins: Rates and mechanisms. <i>Global Biogeochemical Cycles</i> , 2007 , 21,	5.9	86
28	Sea surface pCO ₂ -SST relationships across a cold-core cyclonic eddy: Implications for understanding regional variability and air-sea gas exchange. <i>Geophysical Research Letters</i> , 2007 , 34,	4.9	32
27	Inorganic and organic sinking particulate phosphorus fluxes across the oxic/anoxic water column of Cariaco Basin, Venezuela. <i>Marine Chemistry</i> , 2007 , 105, 90-100	3.7	47
26	Mesoscale eddies drive increased silica export in the subtropical Pacific Ocean. <i>Science</i> , 2007 , 316, 1017-313	3.3	199
25	An introduction to the application and future use of ^{234}Th in aquatic systems. <i>Marine Chemistry</i> , 2006 , 100, 166-189	3.7	69
24	A review of present techniques and methodological advances in analyzing ^{234}Th in aquatic systems. <i>Marine Chemistry</i> , 2006 , 100, 190-212	3.7	107
23	An assessment of particulate organic carbon to thorium-234 ratios in the ocean and their impact on the application of ^{234}Th as a POC flux proxy. <i>Marine Chemistry</i> , 2006 , 100, 213-233	3.7	209
22	^{234}Th sorption and export models in the water column: A review. <i>Marine Chemistry</i> , 2006 , 100, 234-249	3.7	144
21	Thorium speciation in seawater. <i>Marine Chemistry</i> , 2006 , 100, 250-268	3.7	118
20	Diagenetic effects on particulate phosphorus samples collected using formalin-poisoned sediment traps. <i>Limnology and Oceanography: Methods</i> , 2005 , 3, 308-317	2.6	12
19	Refining ^{31}P nuclear magnetic resonance spectroscopy for marine particulate samples: Storage conditions and extraction recovery. <i>Marine Chemistry</i> , 2005 , 97, 293-306	3.7	57
18	Uncertainty versus variability in upper ocean carbon flux estimates. <i>Limnology and Oceanography</i> , 2004 , 49, 1218-1220	4.8	10

17	Phosphonates and particulate organic phosphorus cycling in an anoxic marine basin. <i>Limnology and Oceanography</i> , 2004 , 49, 1593-1604	4.8	79
16	Future applications of thorium-234 in aquatic ecosystems. <i>Eos</i> , 2004 , 85, 471-471	1.5	2
15	Radionuclide fluxes and particle scavenging in Cariaco Basin. <i>Continental Shelf Research</i> , 2004 , 24, 1451-1463	14.6	9
14	Volcanically influenced iron and aluminum cloud water deposition to Hawaii. <i>Atmospheric Environment</i> , 2003 , 37, 535-544	5.3	23
13	Influence of a cyclonic eddy on microheterotroph biomass and carbon export in the lee of Hawaii. <i>Geophysical Research Letters</i> , 2003 , 30,	4.9	66
12	Phosphorus cycling in the North Pacific Subtropical Gyre using cosmogenic ³² P and ³³ P. <i>Limnology and Oceanography</i> , 2002 , 47, 762-770	4.8	31
11	Geochemistry of atmospheric aerosols generated from lava-seawater interactions. <i>Geophysical Research Letters</i> , 2002 , 29, 49-1-49-4	4.9	19
10	An intercomparison of small- and large-volume techniques for thorium-234 in seawater. <i>Marine Chemistry</i> , 2001 , 74, 15-28	3.7	89
9	Colloidal organic carbon and ²³⁴ Th in the Gulf of Maine. <i>Marine Chemistry</i> , 2001 , 74, 181-196	3.7	38
8	Testing a new small-volume technique for determining ²³⁴ Th in seawater. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2001 , 248, 795-799	1.5	79
7	A time-series study of particulate matter export in the North Pacific Subtropical Gyre based on ²³⁴ Th : ²³⁸ U disequilibrium. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2001 , 48, 2595-2611	2.5	131
6	The biogeochemical cycling of phosphorus in marine systems. <i>Earth-Science Reviews</i> , 2000 , 51, 109-135	10.2	465
5	Upper ocean carbon export, horizontal transport, and vertical eddy diffusivity in the southwestern Gulf of Maine. <i>Continental Shelf Research</i> , 2000 , 20, 707-736	2.4	60
4	Variability of inorganic and organic phosphorus turnover rates in the coastal ocean. <i>Nature</i> , 1999 , 398, 502-505	50.4	97
3	Phosphorus 32, phosphorus 37, beryllium 7, and lead 210: Atmospheric fluxes and utility in tracing stratosphere/troposphere exchange. <i>Journal of Geophysical Research</i> , 1999 , 104, 11745-11754		27
2	Upper ocean export of particulate organic carbon in the Arabian Sea derived from thorium-234. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 1998 , 45, 2461-2487	2.3	164
1	Measurement of cosmogenic (³² p and (³³ p activities in rainwater and seawater. <i>Analytical Chemistry</i> , 1998 , 70, 64-72	7.8	27