

# Yoshiki Sohrin

## List of Publications by Year in descending order

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108  
papers

4,622  
citations

76326

40  
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106344

65  
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113  
all docs

113  
docs citations

113  
times ranked

4049  
citing authors

#	ARTICLE	IF	CITATIONS
1	A Mesoscale Iron Enrichment in the Western Subarctic Pacific Induces a Large Centric Diatom Bloom. <i>Science</i> , 2003, 300, 958-961.	12.6	471
2	The GEOTRACES Intermediate Data Product 2017. <i>Chemical Geology</i> , 2018, 493, 210-223.	3.3	257
3	Multielemental Determination of GEOTRACES Key Trace Metals in Seawater by ICPMS after Preconcentration Using an Ethylenediaminetriacetic Acid Chelating Resin. <i>Analytical Chemistry</i> , 2008, 80, 6267-6273.	6.5	227
4	Arsenic Biogeochemistry Affected by Eutrophication in Lake Biwa, Japan. <i>Environmental Science &amp; Technology</i> , 1997, 31, 2712-2720.	10.0	137
5	Global status of trace elements in the ocean. <i>TrAC - Trends in Analytical Chemistry</i> , 2011, 30, 1291-1307.	11.4	110
6	Biosynthesis and release of methylarsenic compounds during the growth of freshwater algae. <i>Chemosphere</i> , 2001, 43, 265-272.	8.2	109
7	The molybdenum isotopic composition of the modern ocean. <i>Geochemical Journal</i> , 2012, 46, 131-141.	1.0	105
8	Determination of trace elements in seawater by fluorinated metal alkoxide glass-immobilized 8-hydroxyquinoline concentration and high-resolution inductively coupled plasma mass spectrometry detection. <i>Analytica Chimica Acta</i> , 1998, 363, 11-19.	5.4	98
9	Dissolved and labile particulate Zr, Hf, Nb, Ta, Mo and W in the western North Pacific Ocean. <i>Journal of Oceanography</i> , 2008, 64, 247-257.	1.7	98
10	GEOTRACES IC1 (BATS) contamination—prone trace element isotopes Cd, Fe, Pb, Zn, Cu, and Mo intercalibration. <i>Limnology and Oceanography: Methods</i> , 2012, 10, 653-665.	2.0	98
11	Proposal for an International Molybdenum Isotope Measurement Standard and Data Representation. <i>Geostandards and Geoanalytical Research</i> , 2014, 38, 149-151.	3.1	96
12	Speciation of Arsenic in Natural Waters by Solvent Extraction and Hydride Generation Atomic Absorption Spectrometry. <i>Analytical Chemistry</i> , 1994, 66, 3247-3252.	6.5	90
13	Isotopic constraints on biogeochemical cycling of copper in the ocean. <i>Nature Communications</i> , 2014, 5, 5663.	12.8	87
14	Inter-calibration of a proposed new primary reference standard AA-ETH Zn for zinc isotopic analysis. <i>Journal of Analytical Atomic Spectrometry</i> , 2017, 32, 415-419.	3.0	86
15	Preconcentration of chromium(III) and chromium(VI) in sea water by complexation with quinolin-8-ol and adsorption on macroporous resin. <i>Analytica Chimica Acta</i> , 1989, 224, 55-64.	5.4	79
16	Tungsten in north pacific waters. <i>Marine Chemistry</i> , 1987, 22, 95-103.	2.3	77
17	Tungsten enriched in submarine hydrothermal fluids. <i>Earth and Planetary Science Letters</i> , 2004, 222, 819-827.	4.4	72
18	East–west gradients in the photosynthetic potential of phytoplankton and iron concentration in the subarctic Pacific Ocean during early summer. <i>Limnology and Oceanography</i> , 2002, 47, 1581-1594.	3.1	71

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19	Diverse stoichiometry of dissolved trace metals in the Indian Ocean. <i>Scientific Reports</i> , 2013, 3, .	3.3	71
20	The distribution of Fe in the Australian sector of the Southern Ocean. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2000, 47, 55-84.	1.4	67
21	Strong elemental fractionation of Zr and Hf and Nb and Ta across the Pacific Ocean. <i>Nature Geoscience</i> , 2011, 4, 227-230.	12.9	67
22	Iron-Catalyzed Aromatic Amination for Nonsymmetrical Triarylamine Synthesis. <i>Journal of the American Chemical Society</i> , 2012, 134, 20262-20265.	13.7	67
23	An off-line automated preconcentration system with ethylenediaminetriacetate chelating resin for the determination of trace metals in seawater by high-resolution inductively coupled plasma mass spectrometry. <i>Analytica Chimica Acta</i> , 2015, 854, 183-190.	5.4	67
24	New mode of ion size discrimination for Group 2 metals using poly(pyrazolyl)borate ligands. Control of stability and structure of chelate complexes by intraligand contact. <i>Journal of the American Chemical Society</i> , 1993, 115, 4128-4136.	13.7	66
25	Control of Ligand Field Strength through Intra- and Interligand Contact. Octahedral Iron(II) Poly(pyrazolyl)borate Complexes. <i>Inorganic Chemistry</i> , 1995, 34, 3928-3934.	4.0	63
26	Determination and distribution of iodide- and total-iodine in the North Pacific Ocean - by using a new automated electrochemical method. <i>Marine Chemistry</i> , 1989, 27, 105-116.	2.3	62
27	Contrasting behavior of tungsten and molybdenum in the Okinawa Trough, the East China Sea and the Yellow Sea. <i>Geochimica Et Cosmochimica Acta</i> , 1999, 63, 3457-3466.	3.9	60
28	Determination of Chromium, Copper and Lead in River Water by Graphite-Furnace Atomic Absorption Spectrometry after Coprecipitation with Terbium Hydroxide. <i>Analytical Sciences</i> , 2005, 21, 1519-1521.	1.6	60
29	Preconcentration of Zr, Hf, Nb, Ta and W in seawater using solid-phase extraction on TSK-8-hydroxyquinoline resin and determination by inductively coupled plasma-mass spectrometry. <i>Analytica Chimica Acta</i> , 2007, 583, 296-302.	5.4	57
30	A simple and rapid method for isotopic analysis of nickel, copper, and zinc in seawater using chelating extraction and anion exchange. <i>Analytica Chimica Acta</i> , 2017, 967, 1-11.	5.4	55
31	New Mode of Ion Size Discrimination for Group 2 Metals Using Poly(pyrazolyl)borate Ligands. 2. Control of Stability and Structure of Chelate Complexes by Intra- and Interligand Contact and Shielding Effect. <i>Inorganic Chemistry</i> , 1994, 33, 4376-4383.	4.0	52
32	Title is missing!. <i>Journal of Oceanography</i> , 2001, 57, 261-273.	1.7	52
33	Arsenic speciation including "hidden" arsenic in natural waters. <i>Applied Organometallic Chemistry</i> , 1999, 13, 113-119.	3.5	51
34	Physical and biogeochemical controls on the distribution of dissolved cadmium and its isotopes in the Southwest Pacific Ocean. <i>Chemical Geology</i> , 2019, 511, 494-509.	3.3	49
35	East-west gradient in ectoenzyme activities in the subarctic Pacific: Possible regulation by zinc. <i>Limnology and Oceanography</i> , 2000, 45, 930-939.	3.1	44
36	Distributions of dissolved and acid-dissolvable bioactive trace metals in the North Pacific Ocean. <i>Geochemical Journal</i> , 2004, 38, 535-550.	1.0	44

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37	Determination of isotopic composition of dissolved copper in seawater by multi-collector inductively coupled plasma mass spectrometry after pre-concentration using an ethylenediaminetriacetic acid chelating resin. <i>Analytica Chimica Acta</i> , 2013, 784, 33-41.	5.4	43
38	Distinct basin-scale-distributions of aluminum, manganese, cobalt, and lead in the North Pacific Ocean. <i>Geochimica Et Cosmochimica Acta</i> , 2019, 254, 102-121.	3.9	42
39	Phytoplankton responses to atmospheric metal deposition in the coastal and open-ocean Sargasso Sea. <i>Frontiers in Microbiology</i> , 2012, 3, 359.	3.5	41
40	Dissolved niobium and tantalum in the North Pacific. <i>Geophysical Research Letters</i> , 1998, 25, 999-1002.	4.0	40
41	Automated determination of manganese in seawater by electrolytic concentration and chemiluminescence detection. <i>Analytical Chemistry</i> , 1989, 61, 1392-1396.	6.5	38
42	Copper(II)-selective membrane electrode based on hydrotris(3-isopropylpyrazolyl)methane in a poly(vinyl chloride) matrix. <i>Analytica Chimica Acta</i> , 2003, 494, 207-213.	5.4	38
43	Simultaneous determination of suspended particulate trace metals (Co, Ni, Cu, Zn, Cd and Pb) in seawater with small volume filtration assisted by microwave digestion and flow injection inductively coupled plasma mass spectrometer. <i>Analytica Chimica Acta</i> , 2007, 594, 52-60.	5.4	38
44	Stoichiometry among bioactive trace metals in the Chukchi and Beaufort Seas. <i>Journal of Oceanography</i> , 2012, 68, 985-1001.	1.7	34
45	Simultaneous determination of tungsten and molybdenum in sea water by catalytic current polarography after preconcentration on a resin column. <i>Analytica Chimica Acta</i> , 1989, 218, 25-35.	5.4	32
46	Large volume preconcentration and purification for determining the $^{240}\text{Pu}/^{239}\text{Pu}$ isotopic ratio and $^{238}\text{Pu}/^{239}+^{240}\text{Pu}$ alpha-activity ratio in seawater. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2005, 267, 183-193.	1.5	31
47	Dynamics of trace metals during the subarctic Pacific iron experiment for ecosystem dynamics study (SEEDS2001). <i>Progress in Oceanography</i> , 2005, 64, 129-147.	3.2	30
48	Distribution of bioactive trace metals (Fe, Co, Ni, Cu, Zn and Cd) in the Sulu Sea and its adjacent seas. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2007, 54, 14-37.	1.4	28
49	Form of dissolved silicon in seawater. <i>Marine Chemistry</i> , 1991, 32, 1-8.	2.3	27
50	Zn Isotope Composition in the Water Column of the Northwestern Pacific Ocean: The Importance of External Sources. <i>Global Biogeochemical Cycles</i> , 2020, 34, e2019GB006379.	4.9	26
51	Spatial and temporal distribution of Fe, Ni, Cu and Pb along $140^{\circ}\text{E}$ in the Southern Ocean during austral summer 2001/02. <i>Marine Chemistry</i> , 2008, 111, 171-183.	2.3	25
52	Precise Isotopic Analysis of Mo in Seawater Using Multiple Collector-Inductively Coupled Mass Spectrometry Coupled with a Chelating Resin Column Preconcentration Method. <i>Analytical Chemistry</i> , 2008, 80, 9213-9219.	6.5	25
53	Determination of germanium by graphite-furnace atomic-absorption spectrometry. <i>Talanta</i> , 1987, 34, 341-344.	5.5	24
54	Anomalies of bottom $\text{CH}_4$ and trace metal concentrations associated with high heat flow at the Calyptogena community off Hatsu-shima Island, Sagami Bay, Japan: A preliminary report of Tansei Maru KT-88-1 cruise Leg-1.. <i>Geochemical Journal</i> , 1988, 22, 215-230.	1.0	23

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55	Selectivity of sterically efficient [HB(pz) <sub>3</sub> ] <sup>+</sup> and crowded [B(pz) <sub>4</sub> ] <sup>+</sup> for first-series transition metals and Cd. Electronic supplementary information (ESI) available: experimental details. See <a href="http://www.rsc.org/suppdata/doi/10.1039/B106006f">http://www.rsc.org/suppdata/doi/10.1039/B106006f</a> . Dalton Transactions RSC, 2001, , 3564-3571.	2.3	23
56	Cadmium cycling in the water column of the Kuroshio-Oyashio Extension region: Insights from dissolved and particulate isotopic composition. Geochimica Et Cosmochimica Acta, 2018, 233, 66-80.	3.9	22
57	The budget of dissolved trace metals in Lake Biwa, Japan. Limnology, 2004, 5, 7-16.	1.5	21
58	Inter-laboratory study for the certification of trace elements in seawater certified reference materials NASS-7 and CASS-6. Analytical and Bioanalytical Chemistry, 2018, 410, 4469-4479.	3.7	20
59	Sources of particulate Ni and Cu in the water column of the northern South China Sea: Evidence from elemental and isotope ratios in aerosols and sinking particles. Marine Chemistry, 2020, 219, 103751.	2.3	20
60	Development of an in situ manganese analyzer using micro-diaphragm pumps and its application to time-series observations in a hydrothermal field at the Suiyo seamount. Geochemical Journal, 2004, 38, 635-642.	1.0	19
61	Stoichiometry among bioactive trace metals in seawater on the Bering Sea shelf. Journal of Oceanography, 2011, 67, 747-764.	1.7	19
62	Selectivity design using interligand contact: solvent extraction and structures of first-series-transition metal <sup>+</sup> bis(pyrazol-1-yl)borate complexes. Journal of the Chemical Society Dalton Transactions, 1996, , 195-201.	1.1	17
63	Improved Selectivity for Cu(II) of Methyl-Substituted Poly(pyrazolyl)borates, [HB(3-Mepz) <sub>3</sub> ] <sup>+</sup> and [B(3-Mepz) <sub>4</sub> ] <sup>+</sup> , through Steric Contact. Bulletin of the Chemical Society of Japan, 2003, 76, 1365-1373.	3.2	16
64	Precise analysis of the concentrations and isotopic compositions of molybdenum and tungsten in geochemical reference materials. Analytica Chimica Acta, 2019, 1091, 146-159.	5.4	16
65	Heavy element stable isotope ratios : analytical approaches and applications. Analytical and Bioanalytical Chemistry, 2013, 405, 2771-2783.	3.7	14
66	Determination of organometallic and inorganic germanium by inductively coupled plasma atomic emission spectrometry. Analytica Chimica Acta, 1991, 247, 1-6.	5.4	13
67	A method for preconcentrating Zr from large volumes of seawater using MnO <sub>2</sub> -impregnated fibers. Talanta, 2000, 53, 639-644.	5.5	13
68	Sectional Distribution Patterns of Cd, Ni, Zn, and Cu in the North Pacific Ocean: Relationships to Nutrients and Importance of Scavenging. Global Biogeochemical Cycles, 2021, 35, e2020GB006558.	4.9	13
69	Zn elemental and isotopic features in sinking particles of the South China Sea: Implications for its sources and sinks. Geochimica Et Cosmochimica Acta, 2021, 314, 68-84.	3.9	13
70	Analytical Chemistry represented by "super" and "ultra". Development of a multi-elemental determination of ultratrace metals in seawater.. Bunseki Kagaku, 2001, 50, 369-382.	0.2	12
71	Determination of bismuth in open ocean waters by inductively coupled plasma sector-field mass spectrometry after chelating resin column preconcentration. Analytica Chimica Acta, 2012, 727, 71-77.	5.4	12
72	Major lithogenic contributions to the distribution and budget of iron in the North Pacific Ocean. Scientific Reports, 2019, 9, 11652.	3.3	12

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73	Liquid-liquid extraction of organometallic and inorganic germanium as the chloride complex. <i>Analytical Chemistry</i> , 1991, 63, 811-814.	6.5	10
74	X-Ray Structure of [Be{B(pz) <sub>4</sub> } <sub>2</sub> ] and [Be <sub>3</sub> (OH) <sub>3</sub> {HB(pz) <sub>3</sub> } <sub>3</sub> ]. Different Structures and Multiple-Point Bindings in Polypyrazolylborate Complexes. <i>Chemistry Letters</i> , 1992, 21, 1461-1464.	1.3	10
75	Steric Control of Selectivity for Lanthanoids in Liquid-Liquid Extraction with Tris- and Tetrakis(pyrazol-1-yl)borate- $\beta$ -Diketon Mixed-Ligand Systems. <i>Bulletin of the Chemical Society of Japan</i> , 1995, 68, 172-177.	3.2	10
76	The Possibility of Regulating the Species Composition of Marine Phytoplankton Using Organically Complexed Iron.. <i>Analytical Sciences</i> , 2001, 17, 209-211.	1.6	10
77	Distribution and stoichiometry of Al, Mn, Fe, Co, Ni, Cu, Zn, Cd, and Pb in seawater around the Juan de Fuca Ridge. <i>Journal of Oceanography</i> , 2017, 73, 669-685.	1.7	10
78	Application of NOBIAS Chelate-PA 1 Resin to the Determination of Zirconium, Niobium, Hafnium, and Tantalum in Seawater. <i>Analytical Sciences</i> , 2019, 35, 1015-1020.	1.6	10
79	Determination of the tungsten isotope composition in seawater: The first vertical profile from the western North Pacific Ocean. <i>Chemical Geology</i> , 2020, 555, 119835.	3.3	10
80	Nutrients of Lake Biwa in the unusually cool and hot summers of 1993 and 1994. <i>Lakes and Reservoirs: Research and Management</i> , 1996, 2, 77-87.	0.9	9
81	Geochemistry of Lake Biwa sediments revisited. <i>Limnology</i> , 2007, 8, 321-330.	1.5	9
82	Solvent Extraction of Divalent Metals as Dihydrobis(1-pyrazolyl)borate Chelates. <i>Bulletin of the Chemical Society of Japan</i> , 1992, 65, 781-785.	3.2	8
83	The geochemistry of uranium in pore waters from lake sediments. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2002, 252, 225-232.	1.5	8
84	Highly selective extraction of Cu(II) and Zn(II) using [B(3-iPrpz) <sub>4</sub> ] <sup>-</sup> (iPrpz=isopropylpyrazolyl). <i>Polyhedron</i> , 2004, 23, 283-289.	2.2	8
85	Solvent Extraction of Divalent Metal Ions with Azacrown Ether Substituted Acylpyrazolones. <i>Analytical Sciences</i> , 2008, 24, 225-229.	1.6	8
86	Distribution and stoichiometry of Al, Mn, Fe, Co, Ni, Cu, Zn, Cd, and Pb in the East China Sea. <i>Journal of Oceanography</i> , 2021, 77, 463-485.	1.7	8
87	Behaviors of dissolved and particulate Co, Ni, Cu, Zn, Cd and Pb during a mesoscale Fe-enrichment experiment (SEEDS II) in the western North Pacific. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2009, 56, 2822-2838.	1.4	7
88	Lake Biwa and the ocean: geochemical similarity and difference. <i>Limnology</i> , 2011, 12, 89-101.	1.5	7
89	Constraints on redox conditions in the Japan Sea in the last 47,000 years based on Mo and W as palaeoceanographic proxies. <i>Geochemical Journal</i> , 2020, 54, 351-363.	1.0	7
90	4,5-Bis(diphenylphosphinoyl)-1,2,3-triazole ligand: Studies on metal complex formations in liquid-liquid distribution systems. <i>Inorganica Chimica Acta</i> , 2009, 362, 4526-4533.	2.4	6

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91	Effects of Temperature on the Solvent Extraction of Zinc and Cadmium Complexes with 8-Quinolinol and 2-Methyl-8-quinolinol into 1,1,2,2-Tetrachloroethane, 1-Octanol, and p-Xylene. Bulletin of the Chemical Society of Japan, 1989, 62, 2512-2519.	3.2	4
92	Formation of Halide Complexes of Methyl- and Inorganic Germanium(IV) in Aqueous Hydrohalogenic Acid Solutions. Bulletin of the Chemical Society of Japan, 1991, 64, 3363-3371.	3.2	4
93	Trace elements influenced by environmental changes in Lake Biwa: (II) Chemical variations in the hypolimnion over the last half-century. Limnology, 2016, 17, 163-173.	1.5	4
94	Distribution and stoichiometry of Al, Mn, Fe, Co, Ni, Cu, Zn, Cd, and Pb in the Seas of Japan and Okhotsk. Marine Chemistry, 2022, 241, 104108.	2.3	4
95	COMPLEX FORMATION REACTION OF POLYPYRAZOLYLBORATES WITH DIVALENT METAL IONS IN AQUEOUS SOLUTION STUDIED BY SOLVENT EXTRACTION TECHNIQUE. Analytical Sciences, 1991, 7, 7-10.	1.6	3
96	Trace elements influenced by environmental changes in Lake Biwa: (I) Seasonal variations under suboxic hypolimnion conditions during 2007 and 2009. Limnology, 2016, 17, 151-162.	1.5	3
97	Isotopic evolution of dissolved Ni, Cu, and Zn along the Kuroshio through the East China Sea. Marine Chemistry, 2022, 243, 104135.	2.3	3
98	Determination of Some Oxyacid Elements and Manganese in Seawater and their Distributions in Some Unique Environments of the North Pacific. Elsevier Oceanography Series, 1993, , 199-208.	0.1	2
99	Separation of methylated and inorganic germanium by liquid-liquid extraction with organic ligands containing a negatively charged oxygen donor. Analytical Chemistry, 1994, 66, 271-275.	6.5	2
100	Chemical speciation of inorganic and methylarsenic(III) compounds in aqueous solutions. Applied Organometallic Chemistry, 2002, 16, 446-450.	3.5	2
101	Portable total reflection x-ray fluorescence analysis in the identification of unknown laboratory hazards. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2014, 32, 031401.	2.1	2
102	ABIOTIC PHOTOSYNTHESIS OF SUBSTANCES RELATIVE TO THE ORIGIN OF LIFE FROM AQUEOUS AMMONIUM CARBONATE SOLUTIONS. Analytical Sciences, 1991, 7, 663-666.	1.6	1
103	VOLTAMMETRIC ANALYSIS OF CHEMICAL REACTIONS AT LIQUID/LIQUID OR LIQUID/MEMBRANE INTERFACES. Analytical Sciences, 1991, 7, 1415-1420.	1.6	1
104	Reduction of electricity and reagent consumption rate for in-situ flow-through analysis of dissolved manganese in seawater using micro-diaphragm pumps. Bunseki Kagaku, 2004, 53, 331-337.	0.2	1
105	Development of precise analytical methods for trace elements and its application to marine chemistry. Oceanography in Japan, 2016, 25, 145-155.	0.5	1
106	LIQUID-LIQUID EXTRACTION OF METHYLATED AND INORGANIC GERMANIUM AS THE HALIDE COMPLEX. Analytical Sciences, 1991, 7, 17-20.	1.6	0
107	Development of the Multielemental Determination Method for Bioactive Trace Metals in Open Ocean Seawater and Its Application to International Intercalibration. Bunseki Kagaku, 2010, 59, 1087-1096.	0.2	0
108	Mutual Extraction Separation of Al, Ga, In and Zn with Trifluoroacetylcycloalkanones and $\beta$ -Diketones. Bunseki Kagaku, 2017, 66, 817-824.	0.2	0