Neil C Sturchio

List of Publications by Year in descending order

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162 papers

7,637 citations

53 h-index 78 g-index

164 all docs

164 docs citations

164 times ranked 6831 citing authors

#	Article	IF	Citations
1	Mineral–water interfacial structures revealed by synchrotron X-ray scattering. Progress in Surface Science, 2004, 77, 171-258.	8.3	334
2	Kinetic isotopic fractionation during diffusion of ionic species in water. Geochimica Et Cosmochimica Acta, 2006, 70, 277-289.	3.9	191
3	Cation sorption on the muscovite (001) surface in chloride solutions using high-resolution X-ray reflectivity. Geochimica Et Cosmochimica Acta, 2006, 70, 3549-3565.	3.9	182
4	Organophosphate Esters in Sediment of the Great Lakes. Environmental Science & Emp; Technology, 2017, 51, 1441-1449.	10.0	161
5	Precipitation Source Inferred from Stable Isotopic Composition of Pleistocene Groundwater and Carbonate Deposits in the Western Desert of Egypt. Quaternary Research, 1997, 48, 29-37.	1.7	142
6	Hydration and Distribution of lons at the Mica-Water Interface. Physical Review Letters, 2006, 97, 016101.	7.8	142
7	Conversion of Chlorinated Volatile Organic Compounds to Carbon Dioxide and Methyl Chloride for Isotopic Analysis of Carbon and Chlorine. Analytical Chemistry, 1997, 69, 2727-2733.	6.5	131
8	The rare earth element geochemistry of acid-sulphate and acid-sulphate-chloride geothermal systems from Yellowstone National Park, Wyoming, USA. Geochimica Et Cosmochimica Acta, 1997, 61, 695-706.	3.9	130
9	Polybrominated Diphenyl Ethers in the Sediments of the Great Lakes. 2. Lakes Michigan and Huron. Environmental Science & Envir	10.0	129
10	Monovalent Ion Adsorption at the Muscovite (001)–Solution Interface: Relationships among Ion Coverage and Speciation, Interfacial Water Structure, and Substrate Relaxation. Langmuir, 2012, 28, 8637-8650.	3.5	128
11	Hydrated Cation Speciation at the Muscovite (001)â^'Water Interface. Langmuir, 2010, 26, 16647-16651.	3. 5	126
12	Lead adsorption at the calcite-water interface: Synchrotron X-ray standing wave and X-ray reflectivity studies. Geochimica Et Cosmochimica Acta, 1997, 61, 251-263.	3.9	121
13	Geology and origin of Meatiq Dome, Egypt: A Precambrian metamorphic core complex?. Geology, 1983, 11, 72.	4.4	119
14	Polybrominated Diphenyl Ethers in the Sediments of the Great Lakes. 3. Lakes Ontario and Erie. Environmental Science & Environ	10.0	119
15	Structures of quartz (100)- and (101)-water interfaces determined by x-ray reflectivity and atomic force microscopy of natural growth surfaces. Geochimica Et Cosmochimica Acta, 2002, 66, 3037-3054.	3.9	115
16	Isotopic Composition and Origin of Indigenous Natural Perchlorate and Co-Occurring Nitrate in the Southwestern United States. Environmental Science & Technology, 2010, 44, 4869-4876.	10.0	110
17	Perchlorate Isotope Forensics. Analytical Chemistry, 2005, 77, 7838-7842.	6.5	109
18	Resolving orthoclase dissolution processes with atomic force microscopy and X-ray reflectivity. Geochimica Et Cosmochimica Acta, 2001, 65, 3459-3474.	3.9	108

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19	Stable isotopes in global precipitation: A unified interpretation based on atmospheric moisture residence time. Geophysical Research Letters, 2012, 39, .	4.0	107
20	Polyhalogenated Carbazoles in Sediments of Lake Michigan: A New Discovery. Environmental Science & Environmental & Environment	10.0	98
21	Global patterns and environmental controls of perchlorate and nitrate co-occurrence in arid and semi-arid environments. Geochimica Et Cosmochimica Acta, 2015, 164, 502-522.	3.9	90
22	Uranium-Series Ages of Travertines and Timing of the Last Glaciation in the Northern Yellowstone Area, Wyoming-Montana. Quaternary Research, 1994, 41, 265-277.	1.7	88
23	Chlorine Isotope Fractionation during Microbial Reduction of Perchlorate. Environmental Science & Envi	10.0	87
24	Worldwide occurrence and origin of perchlorate ion in waters: A review. Science of the Total Environment, 2019, 661, 737-749.	8.0	86
25	PCBs in sediments of the Great Lakes – Distribution and trends, homolog and chlorine patterns, and in situ degradation. Environmental Pollution, 2009, 157, 141-147.	7.5	82
26	The chemical and isotopic composition of fumarolic gases and spring discharges from Galeras Volcano, Colombia. Journal of Volcanology and Geothermal Research, 1997, 77, 229-253.	2.1	81
27	Spatial and Temporal Trends of Polyhalogenated Carbazoles in Sediments of Upper Great Lakes: Insights into Their Origin. Environmental Science & Eamp; Technology, 2017, 51, 89-97.	10.0	80
28	Structure of rutile TiO2 (110) in water and 1molal Rb+ at pH 12: Inter-relationship among surface charge, interfacial hydration structure, and substrate structural displacements. Surface Science, 2007, 601, 1129-1143.	1.9	78
29	Probing Outer-Sphere Adsorption of Aqueous Metal Complexes at the Oxide-Water Interface with Resonant Anomalous X-Ray Reflectivity. Physical Review Letters, 2005, 94, 076104.	7.8	74
30	Sulfur dioxide from Nevado del Ruiz volcano, Colombia: total flux and isotopic constraints on its origin. Journal of Volcanology and Geothermal Research, 1990, 42, 53-68.	2.1	73
31	New evidence on the hydrothermal system in Long Valley caldera, California, from wells, fluid sampling, electrical geophysics, and age determinations of hot-spring deposits. Journal of Volcanology and Geothermal Research, 1991, 48, 229-263.	2.1	7 3
32	Historical trends of inorganic and organic fluorine in sediments of Lake Michigan. Chemosphere, 2014, 114, 203-209.	8.2	73
33	Atacama Perchlorate as an Agricultural Contaminant in Groundwater: Isotopic and Chronologic Evidence from Long Island, New York. Environmental Science & Environmental Science & Evidence &	10.0	72
34	Oxygen and Chlorine Isotopic Fractionation during Perchlorate Biodegradation:Â Laboratory Results and Implications for Forensics and Natural Attenuation Studies. Environmental Science & Eamp; Technology, 2007, 41, 2796-2802.	10.0	71
35	The relationship between fumarole gas composition and eruptive activity at Galeras Volcano, Colombia. Geology, 1996, 24, 531.	4.4	70
36	Otavite-calcite solid-solution formation at the calcite-water interface studied in situ by synchrotron X-ray scattering. Geochimica Et Cosmochimica Acta, 1997, 61, 1467-1474.	3.9	69

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37	Natural Chlorate in the Environment: Application of a New IC-ESI/MS/MS Method with a Cl ¹⁸ O ₃ ⁻ Internal Standard. Environmental Science & Envir	10.0	69
38	X-ray–driven reaction front dynamics at calcite-water interfaces. Science, 2015, 349, 1330-1334.	12.6	69
39	Stable chlorine and carbon isotopic compositions of selected semi-volatile organochlorine compounds. Organic Geochemistry, 2002, 33, 437-444.	1.8	67
40	In-situ synchrotron X-ray reflectivity measurements at the calcite-water interface. Geochimica Et Cosmochimica Acta, 1993, 57, 4103-4110.	3.9	66
41	Polybrominated Diphenyl Ethers in the Sediments of the Great Lakes. 4. Influencing Factors, Trends, and Implications. Environmental Science & Environm	10.0	66
42	Element redistribution during hydrothermal alteration of rhyolite in an active geothermal system: Yellowstone drill cores Y-7 and Y-8. Geochimica Et Cosmochimica Acta, 1986, 50, 1619-1631.	3.9	65
43	X-ray standing wave study of arsenite incorporation at the calcite surface. Geochimica Et Cosmochimica Acta, 1999, 63, 3153-3157.	3.9	65
44	Carbon and Chlorine Isotope Effects During Abiotic Reductive Dechlorination of Polychlorinated Ethanes. Environmental Science & Ethanes.	10.0	63
45	Helium degassing related to the Kobe earthquake. Chemical Geology, 1998, 150, 171-179.	3.3	62
46	Real-time observation of cation exchange kinetics and dynamics at the muscovite-water interface. Nature Communications, 2017, 8, 15826.	12.8	61
47	Cosmogenic, radiogenic, and stable isotopic constraints on groundwater residence time in the Nubian Aquifer, Western Desert of Egypt. Geochemistry, Geophysics, Geosystems, 2005, 6, n/a-n/a.	2.5	58
48	Thermodynamics, Interfacial Structure, and pH Hysteresis of Rb ⁺ and Sr ²⁺ Adsorption at the Muscovite (001)â^Solution Interface. Langmuir, 2008, 24, 13993-14004.	3.5	58
49	Stable Chlorine Isotopic Compositions of Aroclors and Aroclor-Contaminated Sediments. Environmental Science & Environmental Sc	10.0	57
50	Changes in adsorption free energy and speciation during competitive adsorption between monovalent cations at the muscovite (001)-water interface. Geochimica Et Cosmochimica Acta, 2013, 123, 416-426.	3.9	57
51	Gibbsite growth kinetics on gibbsite, kaolinite, and muscovite substrates: atomic force microscopy evidence for epitaxy and an assessment of reactive surface area. Geochimica Et Cosmochimica Acta, 1999, 63, 2337-2351.	3.9	56
52	Continental degassing of 4He by surficial discharge of deep groundwater. Nature Geoscience, 2015, 8, 35-39.	12.9	56
53	Structure and growth of stearate monolayers on calcite: first results of an in situ X-ray reflectivity study. Geochimica Et Cosmochimica Acta, 1999, 63, 3145-3152.	3.9	55
54	A Chlorine Isotope Effect for Enzyme-Catalyzed Chlorination. Journal of the American Chemical Society, 2002, 124, 14526-14527.	13.7	54

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55	Nano-SIMS Analysis of Mg, Sr, Ba and U in Natural Calcium Carbonate. Analytical Sciences, 2005, 21, 1091-1097.	1.6	54
56	Structure of hydrated Zn2+ at the rutile TiO2 (110)-aqueous solution interface: Comparison of X-ray standing wave, X-ray absorption spectroscopy, and density functional theory results. Geochimica Et Cosmochimica Acta, 2006, 70, 4039-4056.	3.9	52
57	Chlorine-36 as a Tracer of Perchlorate Origin. Environmental Science & Eamp; Technology, 2009, 43, 6934-6938.	10.0	52
58	Assessment of age, origin, and sustainability of fossil aquifers: A geochemical and remote sensing-based approach. Journal of Hydrology, 2019, 576, 325-341.	5 . 4	52
59	Replacement of Calcite (CaCO ₃) by Cerussite (PbCO ₃). Environmental Science & Earney; Technology, 2016, 50, 12984-12991.	10.0	51
60	Current and historical concentrations of poly and perfluorinated compounds in sediments of the northern Great Lakes – Superior, Huron, and Michigan. Environmental Pollution, 2018, 236, 373-381.	7.5	49
61	Paleoclimate record in the Nubian Sandstone Aquifer, Sinai Peninsula, Egypt. Quaternary Research, 2014, 81, 158-167.	1.7	48
62	Radium isotopes, alkaline earth diagenesis, and age determination of travertine from Mammoth Hot Springs, Wyoming, U.S.A Applied Geochemistry, 1990, 5, 631-640.	3.0	47
63	Competitive adsorption of strontium and fulvic acid at the muscovite–solution interface observed with resonant anomalous X-ray reflectivity. Geochimica Et Cosmochimica Acta, 2010, 74, 1762-1776.	3.9	47
64	Historically and Currently Used Dechloranes in the Sediments of the Great Lakes. Environmental Science & Environmental Science	10.0	47
65	Occurrence of Atrazine and Related Compounds in Sediments of Upper Great Lakes. Environmental Science & Environmental Science	10.0	47
66	Winter precipitation and snow accumulation drive the methane sink or source strength of Arctic tussock tundra. Global Change Biology, 2016, 22, 2818-2833.	9.5	47
67	Toward a better understanding of palaeoclimatic regimes that recharged the fossil aquifers in North Africa: Inferences from stable isotope and remote sensing data. Palaeogeography, Palaeoclimatology, Palaeoecology, 2012, 329-330, 137-149.	2.3	46
68	Incorporation of Pb at the Calcite (104)–Water Interface. Environmental Science & Environmental Sci	10.0	46
69	X-ray standing wave investigation of the surface structure of selenite anions adsorbed on calcite. Surface Science, 1997, 382, L690-L695.	1.9	45
70	Structure of the fluorapatite (100)-water interface by high-resolution X-ray reflectivity. American Mineralogist, 2004, 89, 1647-1654.	1.9	45
71	Polybromodiphenyl Ethers and Decabromodiphenyl Ethane in Aquatic Sediments from Southern and Eastern Arkansas, United States. Environmental Science & Environmental Science & Eastern Arkansas, United States. Environmental Science & Environmental S	10.0	45
72	Untargeted Screening and Distribution of Organo-Bromine Compounds in Sediments of Lake Michigan. Environmental Science & Envir	10.0	45

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73	Internal 238U-series systematics of pumice from the November 13, 1985, eruption of Nevado del Ruiz, Colombia. Geochimica Et Cosmochimica Acta, 1993, 57, 1215-1219.	3.9	44
74	The calcite (10lì,,4) cleavage surface in water: Early results of a crystal truncation rod study. Geochimica Et Cosmochimica Acta, 1995, 59, 4557-4561.	3.9	44
75	Epitaxial growth of otavite on calcite observed in situ by synchrotron X-ray scattering. Geochimica Et Cosmochimica Acta, 1994, 58, 5633-5638.	3.9	43
76	Deposition, accumulation, and alteration of Clâ ⁻ , NO3â ⁻ , ClO4â ⁻ and ClO3â ⁻ salts in a hyper-arid polar environment: Mass balance and isotopic constraints. Geochimica Et Cosmochimica Acta, 2016, 182, 197-215.	3.9	42
77	Applications of Synchrotron Radiation in Low-Temperature Geochemistry and Environmental Science. , 2002, , .		41
78	Strontium isotopic evidence on the chemical evolution of pore waters in the Milk River Aquifer, Alberta, Canada. Applied Geochemistry, 1998, 13, 463-475.	3.0	40
79	Mapping Three-dimensional Dissolution Rates of Calcite Microcrystals: Effects of Surface Curvature and Dissolved Metal Ions. ACS Earth and Space Chemistry, 2019, 3, 833-843.	2.7	40
80	Boron-lithium relationships in rhyolites and associated thermal waters of young silicic calderas, with comments on incompatible element behaviour. Geochimica Et Cosmochimica Acta, 1992, 56, 3723-3731.	3.9	39
81	Mars chronology: assessing techniques for quantifying surficial processes. Earth-Science Reviews, 2004, 67, 313-337.	9.1	37
82	Interaction of Uranyl with Calcite in the Presence of EDTA. Environmental Science & Edition (2004, 38, 5078-5086.	10.0	37
83	Investigation of Structure, Adsorption Free Energy, and Overcharging Behavior of Trivalent Yttrium Adsorbed at the MuscoviteÂ(001)–Water Interface. Journal of Physical Chemistry C, 2013, 117, 23738-23749.	3.1	36
84	Fractionation of stable isotopes in perchlorate and nitrate during in situ biodegradation in a sandy aquifer. Environmental Chemistry, 2009, 6, 44.	1.5	34
85	Isotopic Mapping of Groundwater Perchlorate Plumes. Ground Water, 2012, 50, 94-102.	1.3	34
86	Spatial and temporal trends in poly- and per-fluorinated compounds in the Laurentian Great Lakes Erie, Ontario and St. Clair. Environmental Pollution, 2018, 237, 396-405.	7.5	34
87	The hydrothermal system of Nevado del Ruiz volcano, Colombia. Bulletin of Volcanology, 1988, 50, 399-412.	3.0	33
88	Isotopic tracing of perchlorate sources in groundwater from Pomona, California. Applied Geochemistry, 2014, 43, 80-87.	3.0	32
89	Local structure of Co2+incorporated at the calcite surface: $\hat{a} \in f$ An x-ray standing wave and SEXAFS study. Physical Review B, 2000, 61, 4877-4883.	3.2	31
90	Uraniumâ€series age determination of calcite veins, VCâ€1 drill core, Valles Caldera, New Mexico. Journal of Geophysical Research, 1988, 93, 6097-6102.	3.3	30

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91	Resonant anomalous X-ray reflectivity as a probe of ion adsorption at solid–liquid interfaces. Thin Solid Films, 2007, 515, 5654-5659.	1.8	30
92	Perchlorate in The Great Lakes: Isotopic Composition and Origin. Environmental Science & Eamp; Technology, 2014, 48, 11146-11153.	10.0	30
93	Untargeted Screening and Distribution of Organo-lodine Compounds in Sediments from Lake Michigan and the Arctic Ocean. Environmental Science & Environ	10.0	30
94	Chlorine isotopes as tracers of solute origin and age of groundwaters from the Eastern Desert of Egypt. Earth and Planetary Science Letters, 2019, 510, 37-44.	4.4	30
95	Stable chlorine intramolecular kinetic isotope effects from the abiotic dehydrochlorination of DDT. Environmental Science and Pollution Research, 2002, 9, 183-186.	5.3	29
96	Heteroepitaxial growth of cadmium carbonate at dolomite and calcite surfaces: Mechanisms and rates. Geochimica Et Cosmochimica Acta, 2017, 205, 360-380.	3.9	28
97	The hydrothermal system of Volcan Purac�, Colombia. Bulletin of Volcanology, 1993, 55, 289-296.	3.0	26
98	The origin of small-scale geochemical and mineralogic variations in a granite intrusion. Contributions To Mineralogy and Petrology, 1986, 93, 513-523.	3.1	25
99	Thorium-uranium disequilibrium in a geothermal discharge zone at yellowstone. Geochimica Et Cosmochimica Acta, 1987, 51, 2025-2034.	3.9	25
100	Application of stable isotope ratio analysis for biodegradation monitoring in groundwater. Current Opinion in Biotechnology, 2013, 24, 542-549.	6.6	25
101	Accumulation rates, focusing factors, and chronologies from depth profiles of 210Pb and 137Cs in sediments of the Laurentian Great Lakes. Journal of Great Lakes Research, 2018, 44, 693-704.	1.9	25
102	Krypton-81 in groundwater of the Culebra Dolomite near the Waste Isolation Pilot Plant, New Mexico. Journal of Contaminant Hydrology, 2014, 160, 12-20.	3.3	24
103	Surface Charge of the Calcite (104) Terrace Measured by Rb ⁺ Adsorption in Aqueous Solutions Using Resonant Anomalous X-ray Reflectivity. Journal of Physical Chemistry C, 2016, 120, 15216-15223.	3.1	24
104	Pb ²⁺ â€"Calcite Interactions under Far-from-Equilibrium Conditions: Formation of Micropyramids and Pseudomorphic Growth of Cerussite. Journal of Physical Chemistry C, 2018, 122, 2238-2247.	3.1	23
105	Legacy polychlorinated organic pollutants in the sediment of the Great Lakes. Journal of Great Lakes Research, 2018, 44, 682-692.	1.9	23
106	Is Perchlorate Metabolized or Re-Translocated within Lettuce Leaves? A Stable-Isotope Approach. Environmental Science & Droince & 2008, 42, 9437-9442.	10.0	21
107	Method for Purification of Krypton from Environmental Samples for Analysis of Radiokrypton Isotopes. Analytical Chemistry, 2008, 80, 8688-8693.	6.5	19
108	Determination of crustal fluid residence times using nucleogenic <mml:math altimg="si26.gif" overflow="scroll" xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msup><mml:mrow></mml:mrow><mml:mrow><mml:mrow></mml:mrow></mml:mrow></mml:msup></mml:mrow><td>3.9 <td>19 :h>.</td></td></mml:math>	3.9 <td>19 :h>.</td>	19 :h>.

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109	Groundwater movement, recharge, and perchlorate occurrence in a faulted alluvial aquifer in California (USA). Hydrogeology Journal, 2015, 23, 467-491.	2.1	19
110	Seasonality of nitrate sources and isotopic composition in the Upper Illinois River. Journal of Hydrology, 2019, 568, 849-861.	5.4	19
111	Stable Isotopic Composition of Chlorine and Oxygen in Synthetic and Natural Perchlorate. , 2006, , 93-109.		19
112	Relating Carbon and Nitrogen Isotope Effects to Reaction Mechanisms during Aerobic or Anaerobic Degradation of RDX (Hexahydro-1,3,5-Trinitro-1,3,5-Triazine) by Pure Bacterial Cultures. Applied and Environmental Microbiology, 2016, 82, 3297-3309.	3.1	17
113	Radionuclide geochemistry of groundwater in the Eastern Desert, Egypt. Applied Geochemistry, 2018, 93, 69-80.	3.0	17
114	Geological and hydrogeochemical controls on radium isotopes in groundwater of the Sinai Peninsula, Egypt. Science of the Total Environment, 2018, 613-614, 877-885.	8.0	17
115	Biotransformation of the insensitive munition constituents 3-nitro-1,2,4-triazol-5-one (NTO) and 2,4-dinitroanisole (DNAN) by aerobic methane-oxidizing consortia and pure cultures Journal of Hazardous Materials, 2021, 407, 124341.	12.4	17
116	Climatic, eustatic, and tectonic controls on Quaternary deposits and landforms, Red Sea Coast, Egypt. Journal of Geophysical Research, 1994, 99, 12175-12190.	3.3	16
117	Invariant chlorine isotopic signatures during microbial PCB reductive dechlorination. Environmental Pollution, 2004, 128, 445-448.	7.5	16
118	On the variation of dissolution rates at the orthoclase (0 0 1) surface with pH and temperature. Geochimica Et Cosmochimica Acta, 2014, 141, $598-611$.	3.9	16
119	Interâ€laboratory Characterisation of Apatite Reference Materials for Chlorine Isotope Analysis. Geostandards and Geoanalytical Research, 2021, 45, 121-142.	3.1	15
120	Structural Characterization of Aluminum (Oxy)hydroxide Films at the Muscovite (001)–Water Interface. Langmuir, 2016, 32, 477-486.	3.5	14
121	Stable isotopic composition of perchlorate and nitrate accumulated in plants: Hydroponic experiments and field data. Science of the Total Environment, 2017, 595, 556-566.	8.0	14
122	Temporal and spatial differences in deposition of organic matter and black carbon in Lake Michigan sediments over the period 1850–2010. Journal of Great Lakes Research, 2018, 44, 705-715.	1.9	14
123	Effect of pH on the Formation of Gibbsite-Layer Films at the Muscovite (001)–Water Interface. Journal of Physical Chemistry C, 2019, 123, 6560-6571.	3.1	14
124	Ultrasonic vacuum extraction of gases from water for chemical and isotopic analysis. Chemical Geology, 1995, 122, 275-284.	3.3	13
125	Stable isotope analyses of oxygen ($\langle sup \rangle 18 \langle sup \rangle 0:\langle sup \rangle 17 \langle sup \rangle 0:\langle sup \rangle 16 \langle sup \rangle 0$) and chlorine ($\langle sup \rangle 37 \langle sup \rangle 0:\langle sup \rangle 35 \langle sup \rangle 0$) in perchlorate: reference materials, calibrations, methods, and interferences. Rapid Communications in Mass Spectrometry, 2017, 31, 85-110.	1.5	13
126	Halogenated flame retardants in sediments from the Upper Laurentian Great Lakes: Implications to long-range transport and evidence of long-term transformation. Journal of Hazardous Materials, 2020, 384, 121346.	12.4	13

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127	Isotopic Tracing of Perchlorate in the Environment. Advances in Isotope Geochemistry, 2012, , 437-452.	1.4	13
128	Four-dimensional isotopic approach to identify perchlorate sources in groundwater: Application to the Rialto-Colton and Chino subbasins, southern California (USA). Applied Geochemistry, 2018, 97, 213-225.	3.0	12
129	Quantification of minor phases in growth kinetics experiments with powder X-ray diffraction. American Mineralogist, 2000, 85, 1217-1222.	1.9	11
130	Variations in chemistry of acid-sulfate-chloride springs at Nevado del Ruiz volcano, Colombia: November 1985 through December 1988. Journal of Volcanology and Geothermal Research, 1990, 42, 203-210.	2.1	10
131	Nonclassical Behavior in Competitive Ion Adsorption at a Charged Solid–Water Interface. Journal of Physical Chemistry Letters, 2020, 11, 4029-4035.	4.6	10
132	Integrated studies to identify site-specific parameters for environmentally benign mining operations: A case study from the Sukari Gold Mine, Egypt. Science of the Total Environment, 2021, 750, 141654.	8.0	10
133	Fate of Environmental Pollutants. Water Environment Research, 2005, 77, 2576-2658.	2.7	9
134	Groundwater-derived contaminant fluxes along a channelized Coastal Plain stream. Journal of Hydrology, 2008, 360, 265-280.	5.4	9
135	Sources and behavior of perchlorate in a shallow Chalk aquifer under military (World War I) and agricultural influences. Journal of Hazardous Materials, 2020, 398, 123072.	12.4	9
136	Groundwater isotope ratios reflect convective and stratiform (paleo)precipitation fractions in Brazil. Journal of Hydrology, 2020, 585, 124801.	5.4	9
137	Application of a multiple lines of evidence approach to document natural attenuation of hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX) in groundwater. Chemosphere, 2020, 250, 126210.	8.2	9
138	Elevated radium levels in Nubian Aquifer groundwater of Northeastern Africa. Scientific Reports, 2021, 11, 78.	3.3	9
139	Replacement of Calcium Carbonate Polymorphs by Cerussite. ACS Earth and Space Chemistry, 2021, 5, 2433-2441.	2.7	9
140	Alkaline hydrolysis pathway of 2,4-dinitroanisole verified by 180 tracer experiment. Journal of Hazardous Materials, 2020, 396, 122627.	12.4	8
141	Evolution of Strain in Heteroepitaxial Cadmium Carbonate Overgrowths on Dolomite. Crystal Growth and Design, 2018, 18, 2871-2882.	3.0	6
142	Isotopic composition of natural and synthetic chlorate (δ180, Δ170, δ37Cl, 36Cl/Cl): Methods and initial results. Chemosphere, 2021, 274, 129586.	8.2	6
143	Origin of the isotopic composition of natural perchlorate: Experimental results for the impact of reaction pathway and initial ClOx reactant. Geochimica Et Cosmochimica Acta, 2021, 311, 292-315.	3.9	6
144	Origin of low-18O metamorphic rocks from a Late Proterozoic shear zone in the Eastern Desert of Egypt. Contributions To Mineralogy and Petrology, 1985, 91, 188-195.	3.1	5

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145	1. An Overview of Synchrotron Radiation Applications to Low Temperature Geochemistry and Environmental Science., 2002, , 1-116.		5
146	Temporal evolution of 36Cl abundances in the Great Lakes. Journal of Environmental Radioactivity, 2015, 144, 62-68.	1.7	4
147	Chlorine isotopic composition of perchlorate in human urine as a means of distinguishing among exposure sources. Journal of Exposure Science and Environmental Epidemiology, 2016, 26, 324-328.	3.9	4
148	Templating Growth of a Pseudomorphic Lepidocrocite Microshell at the Calcite–Water Interface. Chemistry of Materials, 2018, 30, 700-707.	6.7	4
149	Photocatalytic mechanisms of 2,4-dinitroanisole degradation in water deciphered by C and N dual-element isotope fractionation. Journal of Hazardous Materials, 2021, 411, 125109.	12.4	4
150	Emergent Behavior at the Calcite–Water Interface during Reactive Transport in a Simple Microfluidic Channel. ACS Earth and Space Chemistry, 2022, 6, 861-870.	2.7	4
151	Dissolution Kinetics of Epitaxial Cadmium Carbonate Overgrowths on Dolomite. ACS Earth and Space Chemistry, 2019, 3, 212-220.	2.7	3
152	Measuring geologic time on Mars. Eos, 2000, 81, 533-535.	0.1	2
153	Does elevated atmospheric CO ₂ affect soil carbon burial and soil weathering in a forest ecosystem?. PeerJ, 2018, 6, e5356.	2.0	2
154	Isotopic discrimination of natural and anthropogenic perchlorate sources in groundwater in a semi-arid region of northeastern Oregon (USA). Applied Geochemistry, 2022, 139, 105232.	3.0	2
155	Deeper snow increases the net soil organic carbon accrual rate in moist acidic tussock tundra: 210Pb evidence from Arctic Alaska. Arctic, Antarctic, and Alpine Research, 2020, 52, 461-475.	1.1	1
156	Chemical and isotopic constraints on hydrological processes in Unzen volcanic geothermal system. Journal of Volcanology and Geothermal Research, 2021, 419, 107353.	2.1	1
157	Position-specific isotope effects during alkaline hydrolysis of 2,4-dinitroanisole resolved by compound-specific isotope analysis, 13C NMR, and density-functional theory. Chemosphere, 2021, 280, 130625.	8.2	1
158	Synchrotron X-ray Scattering Studies at Mineral-Water Interfaces. Materials Research Society Symposia Proceedings, 1994, 375, 181.	0.1	0
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