

Oleg Pokrovsky

List of Publications by Year in descending order

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279
papers

14,578
citations

18436

62
h-index

27345

106
g-index

329
all docs

329
docs citations

329
times ranked

11450
citing authors

#	ARTICLE	IF	CITATIONS
1	Kinetics and mechanism of forsterite dissolution at 25°C and pH from 1 to 12. <i>Geochimica Et Cosmochimica Acta</i> , 2000, 64, 3313-3325.	1.6	370
2	Dissolution kinetics of calcite, dolomite and magnesite at 25 °C and 0 to 50 atm pCO ₂ . <i>Chemical Geology</i> , 2005, 217, 239-255.	1.4	345
3	Iron colloids/organic matter associated transport of major and trace elements in small boreal rivers and their estuaries (NW Russia). <i>Chemical Geology</i> , 2002, 190, 141-179.	1.4	339
4	Calcite, dolomite and magnesite dissolution kinetics in aqueous solutions at acid to circumneutral pH, 25 to 150°C and 1 to 55 atm pCO ₂ : New constraints on CO ₂ sequestration in sedimentary basins. <i>Chemical Geology</i> , 2009, 265, 20-32.	1.4	299
5	Effect of silicon on wheat seedlings (<i>Triticum turgidum</i> L.) grown in hydroponics and exposed to 0 to 30 µM Cu. <i>Planta</i> , 2015, 241, 847-860.	1.6	295
6	The Link Between Mineral Dissolution/Precipitation Kinetics and Solution Chemistry. <i>Reviews in Mineralogy and Geochemistry</i> , 2009, 70, 207-258.	2.2	291
7	Surface chemistry and reactivity of plant phytoliths in aqueous solutions. <i>Chemical Geology</i> , 2009, 258, 197-206.	1.4	283
8	Surface Chemistry and Dissolution Kinetics of Divalent Metal Carbonates. <i>Environmental Science & Technology</i> , 2002, 36, 426-432.	4.6	266
9	Experimental study of brucite dissolution and precipitation in aqueous solutions: surface speciation and chemical affinity control. <i>Geochimica Et Cosmochimica Acta</i> , 2004, 68, 31-45.	1.6	253
10	Evidence of the Existence of Three Types of Species at the Quartz-Aqueous Solution Interface at pH 0-10: XPS Surface Group Quantification and Surface Complexation Modeling. <i>Journal of Physical Chemistry B</i> , 2002, 106, 2937-2945.	1.2	230
11	Silicon alleviates Cd stress of wheat seedlings (<i>Triticum turgidum</i> L. cv. Claudio) grown in hydroponics. <i>Environmental Science and Pollution Research</i> , 2016, 23, 1414-1427.	2.7	224
12	Trace element fractionation and transport in boreal rivers and soil porewaters of permafrost-dominated basaltic terrain in Central Siberia. <i>Geochimica Et Cosmochimica Acta</i> , 2006, 70, 3239-3260.	1.6	218
13	Modern Views on Desilicification: Biosilica and Abiotic Silica Dissolution in Natural and Artificial Environments. <i>Chemical Reviews</i> , 2010, 110, 4656-4689.	23.0	215
14	Dolomite surface speciation and reactivity in aquatic systems. <i>Geochimica Et Cosmochimica Acta</i> , 1999, 63, 3133-3143.	1.6	199
15	Surface properties, solubility and dissolution kinetics of bamboo phytoliths. <i>Geochimica Et Cosmochimica Acta</i> , 2006, 70, 1939-1951.	1.6	199
16	Biomass offsets little or none of permafrost carbon release from soils, streams, and wildfire: an expert assessment. <i>Environmental Research Letters</i> , 2016, 11, 034014.	2.2	199
17	Surface Speciation Models of Calcite and Dolomite/Aqueous Solution Interfaces and Their Spectroscopic Evaluation. <i>Langmuir</i> , 2000, 16, 2677-2688.	1.6	188
18	Copper isotope fractionation during its interaction with soil and aquatic microorganisms and metal oxy(hydr)oxides: Possible structural control. <i>Geochimica Et Cosmochimica Acta</i> , 2008, 72, 1742-1757.	1.6	187

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19	Zinc stable isotope fractionation during its adsorption on oxides and hydroxides. <i>Journal of Colloid and Interface Science</i> , 2005, 291, 192-200.	5.0	183
20	Dissolved, suspended, and colloidal fluxes of organic carbon, major and trace elements in the Severnaya Dvina River and its tributary. <i>Chemical Geology</i> , 2010, 273, 136-149.	1.4	180
21	Experimental determination of the effect of dissolved CO ₂ on the dissolution kinetics of Mg and Ca silicates at 25 °C. <i>Chemical Geology</i> , 2005, 217, 227-238.	1.4	167
22	Interaction between zinc and freshwater and marine diatom species: Surface complexation and Zn isotope fractionation. <i>Geochimica Et Cosmochimica Acta</i> , 2006, 70, 839-857.	1.6	167
23	Forsterite surface composition in aqueous solutions: a combined potentiometric, electrokinetic, and spectroscopic approach. <i>Geochimica Et Cosmochimica Acta</i> , 2000, 64, 3299-3312.	1.6	151
24	Kinetics and mechanisms of dolomite dissolution in neutral to alkaline solutions revisited. <i>Numerische Mathematik</i> , 2001, 301, 597-626.	0.7	135
25	Effect of pH and organic ligands on the kinetics of smectite dissolution at 25°C. <i>Geochimica Et Cosmochimica Acta</i> , 2006, 70, 4436-4451.	1.6	132
26	Seasonal variability of element fluxes in two Central Siberian rivers draining high latitude permafrost dominated areas. <i>Geochimica Et Cosmochimica Acta</i> , 2011, 75, 3335-3357.	1.6	128
27	Fe ³⁺ -Al ³⁺ -organic Colloids Control of Trace Elements in Peat Soil Solutions: Results of Ultrafiltration and Dialysis. <i>Aquatic Geochemistry</i> , 2005, 11, 241-278.	1.5	127
28	Processes at the magnesium-bearing carbonates/solution interface. II. kinetics and mechanism of magnesite dissolution. <i>Geochimica Et Cosmochimica Acta</i> , 1999, 63, 881-897.	1.6	125
29	Basalt weathering in Central Siberia under permafrost conditions. <i>Geochimica Et Cosmochimica Acta</i> , 2005, 69, 5659-5680.	1.6	125
30	Trace elements in organic- and iron-rich surficial fluids of the boreal zone: Assessing colloidal forms via dialysis and ultrafiltration. <i>Geochimica Et Cosmochimica Acta</i> , 2010, 74, 449-468.	1.6	121
31	Metal adsorption on mosses: Toward a universal adsorption model. <i>Journal of Colloid and Interface Science</i> , 2014, 415, 169-178.	5.0	119
32	Processes at the magnesium-bearing carbonates/solution interface. I. a surface speciation model for magnesite. <i>Geochimica Et Cosmochimica Acta</i> , 1999, 63, 863-880.	1.6	118
33	Mercury Stable Isotope Signatures of World Coal Deposits and Historical Coal Combustion Emissions. <i>Environmental Science & Technology</i> , 2014, 48, 7660-7668.	4.6	118
34	Biogeochemistry of organic carbon, CO ₂ , CH ₄ , and trace elements in thermokarst water bodies in discontinuous permafrost zones of Western Siberia. <i>Biogeochemistry</i> , 2013, 113, 573-593.	1.7	116
35	Formation, growth and transformation of leached layers during silicate minerals dissolution: The example of wollastonite. <i>Geochimica Et Cosmochimica Acta</i> , 2012, 98, 259-281.	1.6	114
36	The surface chemistry of multi-oxide silicates. <i>Geochimica Et Cosmochimica Acta</i> , 2009, 73, 4617-4634.	1.6	110

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37	An experimental study of magnesite precipitation rates at neutral to alkaline conditions and 100–200°C as a function of pH, aqueous solution composition and chemical affinity. <i>Geochimica Et Cosmochimica Acta</i> , 2012, 83, 93-109.	1.6	105
38	Effect of permafrost thawing on organic carbon and trace element colloidal speciation in the thermokarst lakes of western Siberia. <i>Biogeosciences</i> , 2011, 8, 565-583.	1.3	103
39	Kinetics of brucite dissolution at 25°C in the presence of organic and inorganic ligands and divalent metals. <i>Geochimica Et Cosmochimica Acta</i> , 2005, 69, 905-918.	1.6	102
40	Adsorption of copper on <i>Pseudomonas aureofaciens</i> : Protective role of surface exopolysaccharides. <i>Journal of Colloid and Interface Science</i> , 2010, 350, 305-314.	5.0	99
41	Extreme iron isotope fractionation between colloids and particles of boreal and temperate organic-rich waters. <i>Geochimica Et Cosmochimica Acta</i> , 2013, 101, 96-111.	1.6	99
42	High carbon emissions from thermokarst lakes of Western Siberia. <i>Nature Communications</i> , 2019, 10, 1552.	5.8	98
43	Principles of demineralization: Modern strategies for the isolation of organic frameworks. <i>Micron</i> , 2009, 40, 169-193.	1.1	97
44	Study of diatoms/aqueous solution interface. I. Acid-base equilibria and spectroscopic observation of freshwater and marine species. <i>Geochimica Et Cosmochimica Acta</i> , 2004, 68, 4039-4058.	1.6	95
45	Calcium carbonate precipitation by anoxygenic phototrophic bacteria. <i>Chemical Geology</i> , 2012, 291, 116-131.	1.4	95
46	Magnesium isotope fractionation during hydrous magnesium carbonate precipitation with and without cyanobacteria. <i>Geochimica Et Cosmochimica Acta</i> , 2012, 76, 161-174.	1.6	93
47	Adsorption of metals and protons on <i>Gloeocapsa</i> sp. cyanobacteria: A surface speciation approach. <i>Applied Geochemistry</i> , 2008, 23, 2574-2588.	1.4	91
48	Surface charge and zeta-potential of metabolically active and dead cyanobacteria. <i>Journal of Colloid and Interface Science</i> , 2008, 323, 317-325.	5.0	87
49	Using Mg Isotopes to Trace Cyanobacterially Mediated Magnesium Carbonate Precipitation in Alkaline Lakes. <i>Aquatic Geochemistry</i> , 2013, 19, 1-24.	1.5	85
50	Experimental study of terrestrial plant litter interaction with aqueous solutions. <i>Geochimica Et Cosmochimica Acta</i> , 2010, 74, 70-84.	1.6	82
51	Experimental study of germanium adsorption on goethite and germanium coprecipitation with iron hydroxide: X-ray absorption fine structure and macroscopic characterization. <i>Geochimica Et Cosmochimica Acta</i> , 2006, 70, 3325-3341.	1.6	80
52	Organic and organo-mineral colloids in discontinuous permafrost zone. <i>Geochimica Et Cosmochimica Acta</i> , 2016, 188, 1-20.	1.6	79
53	Permafrost coverage, watershed area and season control of dissolved carbon and major elements in western Siberian rivers. <i>Biogeosciences</i> , 2015, 12, 6301-6320.	1.3	78
54	Sources and the flux pattern of dissolved carbon in rivers of the Yenisey basin draining the Central Siberian Plateau. <i>Environmental Research Letters</i> , 2011, 6, 045212.	2.2	77

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55	Chemical weathering of silicate rocks in Karelia region and Kola peninsula, NW Russia: Assessing the effect of rock composition, wetlands and vegetation. <i>Chemical Geology</i> , 2007, 242, 255-277.	1.4	76
56	Principles of demineralization: Modern strategies for the isolation of organic frameworks. <i>Micron</i> , 2008, 39, 1062-1091.	1.1	76
57	Seasonal dynamics of organic carbon and metals in thermokarst lakes from the discontinuous permafrost zone of western Siberia. <i>Biogeosciences</i> , 2015, 12, 3009-3028.	1.3	75
58	Co-variation of Mg and C isotopes in late Precambrian carbonates of the Siberian Platform: A new tool for tracing the change in weathering regime?. <i>Chemical Geology</i> , 2011, 290, 67-74.	1.4	69
59	Trace element transport in western Siberian rivers across a permafrost gradient. <i>Biogeosciences</i> , 2016, 13, 1877-1900.	1.3	69
60	Fate of colloids during estuarine mixing in the Arctic. <i>Ocean Science</i> , 2014, 10, 107-125.	1.3	68
61	Size fractionation and optical properties of dissolved organic matter in the continuum soil solution-bog-river and terminal lake of a boreal watershed. <i>Organic Geochemistry</i> , 2014, 66, 14-24.	0.9	68
62	Eurasian river spring flood observations support net Arctic Ocean mercury export to the atmosphere and Atlantic Ocean. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E11586-E11594.	3.3	68
63	Experimental study of the effect of organic ligands on diopside dissolution kinetics. <i>Chemical Geology</i> , 2006, 235, 377-389.	1.4	66
64	Thermokarst lake waters across the permafrost zones of western Siberia. <i>Cryosphere</i> , 2014, 8, 1177-1193.	1.5	66
65	Aqueous reactivity of phytoliths and plant litter: Physico-chemical constraints on terrestrial biogeochemical cycle of silicon. <i>Journal of Geochemical Exploration</i> , 2006, 88, 202-205.	1.5	64
66	Experimental approach of CO ₂ biomineralization in deep saline aquifers. <i>Chemical Geology</i> , 2009, 265, 54-62.	1.4	64
67	Organic matter mineralization and trace element post-depositional redistribution in Western Siberia thermokarst lake sediments. <i>Biogeosciences</i> , 2011, 8, 3341-3358.	1.3	64
68	Biogeochemistry of carbon, major and trace elements in watersheds of northern Eurasia drained to the Arctic Ocean: The change of fluxes, sources and mechanisms under the climate warming prospective. <i>Comptes Rendus - Geoscience</i> , 2012, 344, 663-677.	0.4	64
69	Experimental modeling of calcium carbonate precipitation by cyanobacterium <i>Gloeocapsa</i> sp.. <i>Chemical Geology</i> , 2014, 374-375, 44-60.	1.4	64
70	High riverine CO ₂ emissions at the permafrost boundary of Western Siberia. <i>Nature Geoscience</i> , 2018, 11, 825-829.	5.4	64
71	Elemental composition of peat profiles in western Siberia: Effect of the micro-landscape, latitude position and permafrost coverage. <i>Applied Geochemistry</i> , 2015, 53, 53-70.	1.4	63
72	Effect of organic and inorganic ligands on calcite and magnesite dissolution rates at 60°C and 30°C pCO ₂ . <i>Chemical Geology</i> , 2009, 265, 33-43.	1.4	62

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73	Silicon isotope variations in Central Siberian rivers during basalt weathering in permafrost-dominated larch forests. <i>Chemical Geology</i> , 2013, 355, 103-116.	1.4	61
74	Biogeochemistry of stable Ca and radiogenic Sr isotopes in a larch-covered permafrost-dominated watershed of Central Siberia. <i>Geochimica Et Cosmochimica Acta</i> , 2013, 114, 169-187.	1.6	60
75	Impact of western Siberia heat wave 2012 on greenhouse gases and trace metal concentration in thaw lakes of discontinuous permafrost zone. <i>Biogeosciences</i> , 2013, 10, 5349-5365.	1.3	60
76	Western Siberia wetlands as indicator and regulator of climate change on the global scale. <i>International Journal of Environmental Studies</i> , 2009, 66, 409-421.	0.7	59
77	Fluxes of high- versus low-temperature water-rock interactions in aerial volcanic areas: Example from the Kamchatka Peninsula, Russia. <i>Geochimica Et Cosmochimica Acta</i> , 2009, 73, 148-169.	1.6	59
78	Dissolved organic carbon and major and trace elements in peat porewater of sporadic, discontinuous, and continuous permafrost zones of western Siberia. <i>Biogeosciences</i> , 2017, 14, 3561-3584.	1.3	58
79	Variability in grain cadmium concentration among durum wheat cultivars: impact of aboveground biomass partitioning. <i>Plant and Soil</i> , 2016, 404, 307-320.	1.8	57
80	Permafrost thaw and climate warming may decrease the CO ₂ , carbon, and metal concentration in peat soil waters of the Western Siberia Lowland. <i>Science of the Total Environment</i> , 2018, 634, 1004-1023.	3.9	57
81	Abrupt permafrost collapse enhances organic carbon, CO ₂ , nutrient and metal release into surface waters. <i>Chemical Geology</i> , 2017, 471, 153-165.	1.4	55
82	Effect of organic ligands and heterotrophic bacteria on wollastonite dissolution kinetics. <i>Numerische Mathematik</i> , 2009, 309, 731-772.	0.7	53
83	Diurnal variations of dissolved and colloidal organic carbon and trace metals in a boreal lake during summer bloom. <i>Water Research</i> , 2013, 47, 922-932.	5.3	53
84	Magnesium isotopes in permafrost-dominated Central Siberian larch forest watersheds. <i>Geochimica Et Cosmochimica Acta</i> , 2014, 147, 76-89.	1.6	53
85	Extreme biomimetics: Preservation of molecular detail in centimeter-scale samples of biological meshes laid down by sponges. <i>Science Advances</i> , 2019, 5, eaax2805.	4.7	53
86	Chemical weathering of silicate rocks in Aldan Shield and Baikal Uplift: insights from long-term seasonal measurements of solute fluxes in rivers. <i>Chemical Geology</i> , 2005, 214, 223-248.	1.4	52
87	An X-ray absorption fine structure and nuclear magnetic resonance spectroscopy study of gallium-silica complexes in aqueous solution. <i>Geochimica Et Cosmochimica Acta</i> , 2002, 66, 4203-4222.	1.6	51
88	Cadmium and lead interaction with diatom surfaces: A combined thermodynamic and kinetic approach. <i>Geochimica Et Cosmochimica Acta</i> , 2007, 71, 3698-3716.	1.6	50
89	Effect of the heterotrophic bacterium <i>Pseudomonas reactans</i> on olivine dissolution kinetics and implications for CO ₂ storage in basalts. <i>Geochimica Et Cosmochimica Acta</i> , 2012, 80, 30-50.	1.6	50
90	Carbon emission from Western Siberian inland waters. <i>Nature Communications</i> , 2021, 12, 825.	5.8	50

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91	Land surface albedo retrieval via kernel-based BRDF modeling: I. Statistical inversion method and model comparison. <i>Remote Sensing of Environment</i> , 2003, 84, 100-119.	4.6	49
92	Size Fractionation of Trace Elements in a Seasonally Stratified Boreal Lake: Control of Organic Matter and Iron Colloids. <i>Aquatic Geochemistry</i> , 2012, 18, 115-139.	1.5	48
93	Do photosynthetic bacteria have a protective mechanism against carbonate precipitation at their surfaces?. <i>Geochimica Et Cosmochimica Acta</i> , 2010, 74, 1329-1337.	1.6	47
94	Impact of Permafrost Thaw and Climate Warming on Riverine Export Fluxes of Carbon, Nutrients and Metals in Western Siberia. <i>Water (Switzerland)</i> , 2020, 12, 1817.	1.2	47
95	Contribution of remobilization to the loading of cadmium in durum wheat grains: impact of post-anthesis nitrogen supply. <i>Plant and Soil</i> , 2018, 424, 591-606.	1.8	46
96	Speciation of Zn Associated with Diatoms Using X-ray Absorption Spectroscopy. <i>Environmental Science & Technology</i> , 2005, 39, 4490-4498.	4.6	45
97	Speciation, Size Fractionation and Transport of Trace Elements in the Continuum Soil Waterâ€“Mireâ€“Humic Lakeâ€“Riverâ€“Large Oligotrophic Lake of a Subarctic Watershed. <i>Aquatic Geochemistry</i> , 2016, 22, 65-95.	1.5	45
98	Characterisation of Fe-bearing particles and colloids in the Lena River basin, NE Russia. <i>Geochimica Et Cosmochimica Acta</i> , 2017, 213, 553-573.	1.6	45
99	Do organic ligands affect calcite dissolution rates?. <i>Geochimica Et Cosmochimica Acta</i> , 2011, 75, 1799-1813.	1.6	43
100	New operational method of testing colloid complexation with metals in natural waters. <i>Applied Geochemistry</i> , 2012, 27, 1226-1237.	1.4	43
101	Zeta potential of anoxygenic phototrophic bacteria and Ca adsorption at the cell surface: Possible implications for cell protection from CaCO ₃ precipitation in alkaline solutions. <i>Journal of Colloid and Interface Science</i> , 2011, 360, 100-109.	5.0	42
102	West Siberian palsa peatlands: distribution, typology, cyclic development, present day climate-driven changes, seasonal hydrology and impact on CO ₂ cycle. <i>International Journal of Environmental Studies</i> , 2011, 68, 603-623.	0.7	42
103	Size Distribution, Surface Coverage, Water, Carbon, and Metal Storage of Thermokarst Lakes in the Permafrost Zone of the Western Siberia Lowland. <i>Water (Switzerland)</i> , 2017, 9, 228.	1.2	42
104	Heterotrophic bacteriaâ€“plankton in thawed lakes of the northern part of Western Siberia controls the CO ₂ flux to the atmosphere. <i>International Journal of Environmental Studies</i> , 2009, 66, 433-445.	0.7	41
105	The effect of permafrost, vegetation, and lithology on Mg and Si isotope composition of the Yenisey River and its tributaries at the end of the spring flood. <i>Geochimica Et Cosmochimica Acta</i> , 2016, 191, 32-46.	1.6	41
106	Minor contribution of small thaw ponds to the pools of carbon and methane in the inland waters of the permafrost-affected part of the Western Siberian Lowland. <i>Environmental Research Letters</i> , 2018, 13, 045002.	2.2	41
107	Organic and inorganic ligand effects on magnesite dissolution at 100Â°C and pH=5 to 10. <i>Chemical Geology</i> , 2007, 242, 484-496.	1.4	40
108	Unseeded precipitation of calcium and magnesium phosphates from modified seawater solutions. <i>Journal of Crystal Growth</i> , 1999, 205, 354-360.	0.7	39

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109	Kinetic evidences of the existence of positively charged species at the quartz-aqueous solution interface. <i>Journal of Colloid and Interface Science</i> , 2006, 296, 189-194.	5.0	39
110	Stable (Cu, Mg) and radiogenic (Sr, Nd) isotope fractionation in colloids of boreal organic-rich waters. <i>Chemical Geology</i> , 2013, 342, 63-75.	1.4	39
111	Iron isotope fractionation during Fe(II) and Fe(III) adsorption on cyanobacteria. <i>Chemical Geology</i> , 2015, 400, 24-33.	1.4	38
112	Humic surface waters of frozen peat bogs (permafrost zone) are highly resistant to bio- and photodegradation. <i>Biogeosciences</i> , 2019, 16, 2511-2526.	1.3	38
113	An experimental study of magnesite dissolution rates at neutral to alkaline conditions and 150 and 200°C as a function of pH, total dissolved carbonate concentration, and chemical affinity. <i>Geochimica Et Cosmochimica Acta</i> , 2010, 74, 6344-6356.	1.6	37
114	Germanium isotope fractionation during Ge adsorption on goethite and its coprecipitation with Fe oxy(hydr)oxides. <i>Geochimica Et Cosmochimica Acta</i> , 2014, 131, 138-149.	1.6	37
115	Impact of snow deposition on major and trace element concentrations and elementary fluxes in surface waters of the Western Siberian Lowland across a 1700 km latitudinal gradient. <i>Hydrology and Earth System Sciences</i> , 2017, 21, 5725-5746.	1.9	37
116	Iron isotope systematics in Arctic rivers. <i>Comptes Rendus - Geoscience</i> , 2015, 347, 377-385.	0.4	36
117	Major and trace elements in suspended matter of western Siberian rivers: First assessment across permafrost zones and landscape parameters of watersheds. <i>Geochimica Et Cosmochimica Acta</i> , 2020, 269, 429-450.	1.6	36
118	On the elemental composition of suspended matter of the Severnaya Dvina River (White Sea region). <i>Doklady Earth Sciences</i> , 2010, 430, 228-234.	0.2	35
119	Seasonal and spatial variability of elemental concentrations in boreal forest larch foliage of Central Siberia on continuous permafrost. <i>Biogeochemistry</i> , 2013, 113, 435-449.	1.7	35
120	Spider Chitin: An Ultrafast Microwave-Assisted Method for Chitin Isolation from <i>Caribena versicolor</i> Spider Molt Cuticle. <i>Molecules</i> , 2019, 24, 3736.	1.7	35
121	High resolution multi-annual riverine fluxes of organic carbon, nutrient and trace element from the largest European Arctic river, Severnaya Dvina. <i>Chemical Geology</i> , 2020, 538, 119491.	1.4	35
122	Gallium(III) adsorption on carbonates and oxides: X-ray absorption fine structure spectroscopy study and surface complexation modeling. <i>Journal of Colloid and Interface Science</i> , 2004, 279, 314-325.	5.0	34
123	Mixed-layer illite-smectite reactivity in acidified solutions: Implications for clayey caprock stability in CO ₂ geological storage. <i>Applied Clay Science</i> , 2011, 53, 402-408.	2.6	34
124	Metal and proton adsorption capacities of natural and cloned <i>Sphagnum</i> mosses. <i>Journal of Colloid and Interface Science</i> , 2016, 461, 326-334.	5.0	34
125	Chemical and structural status of copper associated with oxygenic and anoxygenic phototrophs and heterotrophs: possible evolutionary consequences. <i>Geobiology</i> , 2012, 10, 130-149.	1.1	33
126	Spider Chitin. The biomimetic potential and applications of <i>Caribena versicolor</i> tubular chitin. <i>Carbohydrate Polymers</i> , 2019, 226, 115301.	5.1	33

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127	One of the possible mechanisms of thermokarst lakes drainage in Westâ€ Siberian North. <i>International Journal of Environmental Studies</i> , 2008, 65, 631-635.	0.7	32
128	Diurnal variations of trace metals and heterotrophic bacterioplankton concentration in a small boreal lake of the White Sea basin. <i>Annales De Limnologie</i> , 2010, 46, 67-75.	0.6	32
129	Dissolved organic matter degradation by sunlight coagulates organo-mineral colloids and produces low-molecular weight fraction of metals in boreal humic waters. <i>Geochimica Et Cosmochimica Acta</i> , 2017, 211, 97-114.	1.6	32
130	Variability in methane emissions from West Siberia's shallow boreal lakes on a regional scale and its environmental controls. <i>Biogeosciences</i> , 2017, 14, 3715-3742.	1.3	32
131	Permafrost and lakes control river isotope composition across a boreal Arctic transect in the Western Siberian lowlands. <i>Environmental Research Letters</i> , 2018, 13, 034028.	2.2	32
132	Land surface albedo retrieval via kernel-based BRDF modeling: II. An optimal design scheme for the angular sampling. <i>Remote Sensing of Environment</i> , 2003, 84, 120-142.	4.6	31
133	Recovery potential of periphytic biofilms translocated in artificial streams after industrial contamination (Cd and Zn). <i>Ecotoxicology</i> , 2012, 21, 1403-1414.	1.1	31
134	Are Cu isotopes a useful tool to trace metal sources and processes in acid mine drainage (AMD) context?. <i>Chemosphere</i> , 2018, 193, 1071-1079.	4.2	31
135	Defining reactive sites on hydrated mineral surfaces: Rhombohedral carbonate minerals. <i>Geochimica Et Cosmochimica Acta</i> , 2009, 73, 4326-4345.	1.6	30
136	Does the presence of heterotrophic bacterium <i>Pseudomonas reactans</i> affect basaltic glass dissolution rates?. <i>Chemical Geology</i> , 2012, 296-297, 1-18.	1.4	30
137	Silver nanoparticles impact phototrophic biofilm communities to a considerably higher degree than ionic silver. <i>Environmental Science and Pollution Research</i> , 2015, 22, 8412-8424.	2.7	30
138	Zn isotope fractionation in a pristine larch forest on permafrost-dominated soils in Central Siberia. <i>Geochemical Transactions</i> , 2015, 16, 3.	1.8	30
139	Homogeneous precipitation of magnesium phosphates from seawater solutions. <i>Journal of Crystal Growth</i> , 2001, 223, 550-556.	0.7	29
140	Thermodynamic modeling of actinide complexation with oxalate at high ionic strength. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2001, 248, 467-471.	0.7	29
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