

Oleg Pokrovsky

List of Publications by Citations

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283
papers

11,473
citations

57
h-index

96
g-index

329
ext. papers

13,120
ext. citations

5.1
avg, IF

6.5
L-index

#	Paper	IF	Citations
283	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	5.5	330
282	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	4.2	298
281	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	4.2	287
280	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	4.2	243
279	The Link Between Mineral Dissolution/Precipitation Kinetics and Solution Chemistry. <i>Reviews in Mineralogy and Geochemistry</i> , 2009 , 70, 207-258	7.1	239
278	Surface chemistry and dissolution kinetics of divalent metal carbonates. <i>Environmental Science & Technology</i> , 2002 , 36, 426-32	10.3	232
277	Surface chemistry and reactivity of plant phytoliths in aqueous solutions. <i>Chemical Geology</i> , 2009 , 258, 197-206	4.2	229
276	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	5.5	223
275	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, 847-60	4.7	219
274	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	3.4	205
273	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	5.5	196
272	Modern views on desilicification: biosilica and abiotic silica dissolution in natural and artificial environments. <i>Chemical Reviews</i> , 2010 , 110, 4656-89	68.1	176
271	Dolomite surface speciation and reactivity in aquatic systems. <i>Geochimica Et Cosmochimica Acta</i> , 1999 , 63, 3133-3143	5.5	171
270	Surface properties, solubility and dissolution kinetics of bamboo phytoliths. <i>Geochimica Et Cosmochimica Acta</i> , 2006 , 70, 1939-1951	5.5	168
269	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	6.2	165
268	Surface Speciation Models of Calcite and Dolomite/Aqueous Solution Interfaces and Their Spectroscopic Evaluation. <i>Langmuir</i> , 2000 , 16, 2677-2688	4	162
267	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, 1414-27	5.1	158

266	Zinc stable isotope fractionation during its adsorption on oxides and hydroxides. <i>Journal of Colloid and Interface Science</i> , 2005 , 291, 192-200	9.3	155
265	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	4.2	149
264	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	4.2	147
263	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	5.5	145
262	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	5.5	144
261	Forsterite surface composition in aqueous solutions: a combined potentiometric, electrokinetic, and spectroscopic approach. <i>Geochimica Et Cosmochimica Acta</i> , 2000 , 64, 3299-3312	5.5	129
260	Fe-Al Organic Colloids Control of Trace Elements in Peat Soil Solutions: Results of Ultrafiltration and Dialysis. <i>Aquatic Geochemistry</i> , 2005 , 11, 241-278	1.7	117
259	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	5.5	111
258	Kinetics and mechanisms of dolomite dissolution in neutral to alkaline solutions revisited. <i>Numerische Mathematik</i> , 2001 , 301, 597-626	5.3	110
257	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	5.5	107
256	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	5.5	106
255	Basalt weathering in Central Siberia under permafrost conditions. <i>Geochimica Et Cosmochimica Acta</i> , 2005 , 69, 5659-5680	5.5	106
254	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	5.5	105
253	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	5.5	98
252	Mercury stable isotope signatures of world coal deposits and historical coal combustion emissions. <i>Environmental Science & Technology</i> , 2014 , 48, 7660-8	10.3	94
251	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	3.8	93
250	An experimental study of magnesite precipitation rates at neutral to alkaline conditions and 100°C as a function of pH, aqueous solution composition and chemical affinity. <i>Geochimica Et Cosmochimica Acta</i> , 2012 , 83, 93-109	5.5	93
249	Metal adsorption on mosses: Toward a universal adsorption model. <i>Journal of Colloid and Interface Science</i> , 2014 , 415, 169-78	9.3	91

248	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	4.6	91
247	The surface chemistry of multi-oxide silicates. <i>Geochimica Et Cosmochimica Acta</i> , 2009 , 73, 4617-4634	5.5	90
246	Adsorption of copper on <i>Pseudomonas aureofaciens</i> : protective role of surface exopolysaccharides. <i>Journal of Colloid and Interface Science</i> , 2010 , 350, 305-14	9.3	88
245	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	5.5	86
244	Magnesium isotope fractionation during hydrous magnesium carbonate precipitation with and without cyanobacteria. <i>Geochimica Et Cosmochimica Acta</i> , 2012 , 76, 161-174	5.5	82
243	Principles of demineralization: modern strategies for the isolation of organic frameworks. Part II. Decalcification. <i>Micron</i> , 2009 , 40, 169-93	2.3	82
242	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	5.5	82
241	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	5.5	77
240	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	5.5	77
239	Surface charge and zeta-potential of metabolically active and dead cyanobacteria. <i>Journal of Colloid and Interface Science</i> , 2008 , 323, 317-25	9.3	77
238	Using Mg Isotopes to Trace Cyanobacterially Mediated Magnesium Carbonate Precipitation in Alkaline Lakes. <i>Aquatic Geochemistry</i> , 2013 , 19, 1-24	1.7	73
237	Experimental study of terrestrial plant litter interaction with aqueous solutions. <i>Geochimica Et Cosmochimica Acta</i> , 2010 , 74, 70-84	5.5	71
236	Calcium carbonate precipitation by anoxygenic phototrophic bacteria. <i>Chemical Geology</i> , 2012 , 291, 116-131	4.1	69
235	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	4.2	69
234	Adsorption of metals and protons on <i>Gloeocapsa</i> sp. cyanobacteria: A surface speciation approach. <i>Applied Geochemistry</i> , 2008 , 23, 2574-2588	3.5	66
233	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	5.5	66
232	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	6.2	64
231	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	4.6	63

230	Principles of demineralization: modern strategies for the isolation of organic frameworks. Part I. Common definitions and history. <i>Micron</i> , 2008 , 39, 1062-91	2.3	60
229	Thermokarst lake waters across the permafrost zones of western Siberia. <i>Cryosphere</i> , 2014 , 8, 1177-1193	3.5	58
228	Experimental study of the effect of organic ligands on diopside dissolution kinetics. <i>Chemical Geology</i> , 2006 , 235, 377-389	4.2	58
227	Effect of organic and inorganic ligands on calcite and magnesite dissolution rates at 60°C and 30 atm pCO ₂ . <i>Chemical Geology</i> , 2009 , 265, 33-43	4.2	57
226	Experimental approach of CO ₂ biomineralization in deep saline aquifers. <i>Chemical Geology</i> , 2009 , 265, 54-62	4.2	57
225	Organic and organo-mineral colloids in discontinuous permafrost zone. <i>Geochimica Et Cosmochimica Acta</i> , 2016 , 188, 1-20	5.5	56
224	Permafrost coverage, watershed area and season control of dissolved carbon and major elements in western Siberian rivers. <i>Biogeosciences</i> , 2015 , 12, 6301-6320	4.6	55
223	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	3.1	54
222	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	4.2	54
221	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	3.8	54
220	High carbon emissions from thermokarst lakes of Western Siberia. <i>Nature Communications</i> , 2019 , 10, 1552	17.4	53
219	Organic matter mineralization and trace element post-depositional redistribution in Western Siberia thermokarst lake sediments. <i>Biogeosciences</i> , 2011 , 8, 3341-3358	4.6	53
218	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	3.5	52
217	Fate of colloids during estuarine mixing in the Arctic. <i>Ocean Science</i> , 2014 , 10, 107-125	4	52
216	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	1.8	52
215	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	1.4	51
214	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	4.6	50
213	Trace element transport in western Siberian rivers across a permafrost gradient. <i>Biogeosciences</i> , 2016 , 13, 1877-1900	4.6	50

212	Diurnal variations of dissolved and colloidal organic carbon and trace metals in a boreal lake during summer bloom. <i>Water Research</i> , 2013 , 47, 922-32	12.5	48
211	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	4.2	48
210	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	5.5	47
209	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	5.5	47
208	Silicon isotope variations in Central Siberian rivers during basalt weathering in permafrost-dominated larch forests. <i>Chemical Geology</i> , 2013 , 355, 103-116	4.2	46
207	Cadmium and lead interaction with diatom surfaces: A combined thermodynamic and kinetic approach. <i>Geochimica Et Cosmochimica Acta</i> , 2007 , 71, 3698-3716	5.5	45
206	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	11.5	45
205	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	5.5	44
204	Abrupt permafrost collapse enhances organic carbon, CO ₂ , nutrient and metal release into surface waters. <i>Chemical Geology</i> , 2017 , 471, 153-165	4.2	42
203	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	4.6	41
202	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	1.7	41
201	Magnesium isotopes in permafrost-dominated Central Siberian larch forest watersheds. <i>Geochimica Et Cosmochimica Acta</i> , 2014 , 147, 76-89	5.5	40
200	Do photosynthetic bacteria have a protective mechanism against carbonate precipitation at their surfaces?. <i>Geochimica Et Cosmochimica Acta</i> , 2010 , 74, 1329-1337	5.5	40
199	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	13.2	40
198	Variability in grain cadmium concentration among durum wheat cultivars: impact of aboveground biomass partitioning. <i>Plant and Soil</i> , 2016 , 404, 307-320	4.2	40
197	High riverine CO ₂ emissions at the permafrost boundary of Western Siberia. <i>Nature Geoscience</i> , 2018 , 11, 825-829	18.3	40
196	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	10.2	39
195	Experimental modeling of calcium carbonate precipitation by cyanobacterium <i>Gloeocapsa</i> sp.. <i>Chemical Geology</i> , 2014 , 374-375, 44-60	4.2	39

194	Speciation of Zn associated with diatoms using X-ray absorption spectroscopy. <i>Environmental Science & Technology</i> , 2005 , 39, 4490-8	10.3	39
193	Extreme biomimetics: Preservation of molecular detail in centimeter-scale samples of biological meshes laid down by sponges. <i>Science Advances</i> , 2019 , 5, eaax2805	14.3	38
192	Effect of organic ligands and heterotrophic bacteria on wollastonite dissolution kinetics. <i>Numerische Mathematik</i> , 2009 , 309, 731-772	5.3	38
191	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	5.5	37
190	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, 189-94	9.3	36
189	Organic and inorganic ligand effects on magnesite dissolution at 100 °C and pH = 5 to 10. <i>Chemical Geology</i> , 2007 , 242, 484-496	4.2	36
188	Stable (Cu, Mg) and radiogenic (Sr, Nd) isotope fractionation in colloids of boreal organic-rich waters. <i>Chemical Geology</i> , 2013 , 342, 63-75	4.2	35
187	Do organic ligands affect calcite dissolution rates?. <i>Geochimica Et Cosmochimica Acta</i> , 2011 , 75, 1799-1813	5.5	35
186	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	5.5	35
185	Heterotrophic bacterio-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	1.8	35
184	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	3	34
183	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	1.8	34
182	New operational method of testing colloid complexation with metals in natural waters. <i>Applied Geochemistry</i> , 2012 , 27, 1226-1237	3.5	33
181	On the elemental composition of suspended matter of the Severnaya Dvina River (White Sea region). <i>Doklady Earth Sciences</i> , 2010 , 430, 228-234	0.6	33
180	Speciation, Size Fractionation and Transport of Trace Elements in the Continuum Soil Water-Mire-Humic Lake-River-Large Oligotrophic Lake of a Subarctic Watershed. <i>Aquatic Geochemistry</i> , 2016 , 22, 65-95	1.7	32
179	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	5.5	32
178	Characterisation of Fe-bearing particles and colloids in the Lena River basin, NE Russia. <i>Geochimica Et Cosmochimica Acta</i> , 2017 , 213, 553-573	5.5	31
177	Iron isotope fractionation during Fe(II) and Fe(III) adsorption on cyanobacteria. <i>Chemical Geology</i> , 2015 , 400, 24-33	4.2	31

176	Chemical and structural status of copper associated with oxygenic and anoxygenic phototrophs and heterotrophs: possible evolutionary consequences. <i>Geobiology</i> , 2012 , 10, 130-49	4.3	31
175	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	3.8	31
174	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	0.7	30
173	One of the possible mechanisms of thermokarst lakes drainage in West-Siberian North. <i>International Journal of Environmental Studies</i> , 2008 , 65, 631-635	1.8	29
172	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, 314-25	9.3	29
171	Unseeded precipitation of calcium and magnesium phosphates from modified seawater solutions. <i>Journal of Crystal Growth</i> , 1999 , 205, 354-360	1.6	29
170	Silver nanoparticles impact phototrophic biofilm communities to a considerably higher degree than ionic silver. <i>Environmental Science and Pollution Research</i> , 2015 , 22, 8412-24	5.1	28
169	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, 100-9	9.3	28
168	Metal and proton adsorption capacities of natural and cloned Sphagnum mosses. <i>Journal of Colloid and Interface Science</i> , 2016 , 461, 326-334	9.3	27
167	Iron isotope systematics in Arctic rivers. <i>Comptes Rendus - Geoscience</i> , 2015 , 347, 377-385	1.4	27
166	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	5.2	27
165	Spider Chitin. The biomimetic potential and applications of Caribena versicolor tubular chitin. <i>Carbohydrate Polymers</i> , 2019 , 226, 115301	10.3	26
164	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	4.2	26
163	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	6.2	26
162	Humic surface waters of frozen peat bogs (permafrost zone) are highly resistant to bio- and photodegradation. <i>Biogeosciences</i> , 2019 , 16, 2511-2526	4.6	26
161	Recovery potential of periphytic biofilms translocated in artificial streams after industrial contamination (Cd and Zn). <i>Ecotoxicology</i> , 2012 , 21, 1403-14	2.9	26
160	Defining reactive sites on hydrated mineral surfaces: Rhombohedral carbonate minerals. <i>Geochimica Et Cosmochimica Acta</i> , 2009 , 73, 4326-4345	5.5	26
159	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	13.2	26

158	Thermodynamic Modeling of Actinide Complexation with Acetate and Lactate at High Ionic Strength. <i>Journal of Solution Chemistry</i> , 1999 , 28, 521-531	1.8	26
157	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	5.5	25
156	Spider Chitin: An Ultrafast Microwave-Assisted Method for Chitin Isolation from Spider Molt Cuticle. <i>Molecules</i> , 2019 , 24,	4.8	24
155	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	5.5	24
154	Zn isotope fractionation during interaction with phototrophic biofilm. <i>Chemical Geology</i> , 2014 , 390, 46-60.	4.2	24
153	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	4.6	23
152	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	6.2	23
151	Neptunium(V) Complexation by Acetate, Oxalate and Citrate in NaClO ₄ Media at 25°C. <i>Radiochimica Acta</i> , 1997 , 79, 167-172	1.9	23
150	High precision measurement of germanium isotope ratio variations by multiple collector-inductively coupled plasma mass spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 2003 , 18, 115-119	3.7	23
149	The continuous re-equilibration of carbon isotope compositions of hydrous Mg carbonates in the presence of cyanobacteria. <i>Chemical Geology</i> , 2015 , 404, 41-51	4.2	22
148	Decrease of concentration and colloidal fraction of organic carbon and trace elements in response to the anomalously hot summer 2010 in a humic boreal lake. <i>Science of the Total Environment</i> , 2013 , 463-464, 78-90	10.2	22
147	A structural study of cadmium interaction with aquatic microorganisms. <i>Environmental Science & Technology</i> , 2008 , 42, 5527-33	10.3	22
146	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	8.4	22
145	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	5.5	21
144	Zn isotope fractionation in a pristine larch forest on permafrost-dominated soils in Central Siberia. <i>Geochemical Transactions</i> , 2015 , 16, 3	3	21
143	Small changes in Cu redox state and speciation generate large isotope fractionation during adsorption and incorporation of Cu by a phototrophic biofilm. <i>Geochimica Et Cosmochimica Acta</i> , 2018 , 220, 1-18	5.5	21
142	Permafrost and fire as regulators of stream chemistry in basins of the Central Siberian Plateau. <i>Biogeochemistry</i> , 2013 , 116, 55-68	3.8	21
141	Development of an operational procedure to estimate surface albedo from the SEVIRI/MSG observing system by using POLDER BRDF measurements. <i>Remote Sensing of Environment</i> , 2003 , 87, 215-242	13.2	21

140	Homogeneous precipitation of magnesium phosphates from seawater solutions. <i>Journal of Crystal Growth</i> , 2001 , 223, 550-556	1.6	21
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64	The Geochemical Features of the River Discharge to the White Sea. <i>Handbook of Environmental Chemistry</i> , 2018 , 47-81	0.8	4
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48	Fluvial carbon dioxide emission from the Lena River basin during the spring flood. <i>Biogeosciences</i> , 2021 , 18, 4919-4936	4.6	3
47	Strong temporal and spatial variation of dissolved Cu isotope composition in acid mine drainage under contrasted hydrological conditions. <i>Environmental Pollution</i> , 2020 , 266, 115104	9.3	2
46	Surface complexation modeling of interactions between freshwater and marine diatom species and trace elements (Mo, W, Cr, Ge, Ga, Al). <i>Chemical Geology</i> , 2018 , 494, 117-126	4.2	2
45	Interaction of Freshwater Diatom with Gold Nanoparticles: Adsorption, Assimilation, and Stabilization by Cell Exometabolites. <i>Minerals (Basel, Switzerland)</i> , 2018 , 8, 99	2.4	2
44	Landscape, Soil, Lithology, Climate and Permafrost Control on Dissolved Carbon, Major and Trace Elements in the Ob River, Western Siberia. <i>Water (Switzerland)</i> , 2021 , 13, 3189	3	2
43	Effects of anomalous high temperatures on carbon dioxide, methane, dissolved organic carbon and trace element concentrations in thaw lakes in Western Siberia in 2012		2
42	Permafrost coverage, watershed area and season control of dissolved carbon and major elements in western Siberian rivers		2
41	Impact of snow deposition on major and trace element concentrations and fluxes in surface waters of Western Siberian Lowland		2
40	Transformation of organic carbon, trace element, and organo-mineral colloids in the mixing zone of the largest European Arctic river		2
39	Carbon, nutrient and metal controls on phytoplankton concentration and biodiversity in thermokarst lakes of latitudinal gradient from isolated to continuous permafrost. <i>Science of the Total Environment</i> , 2022 , 806, 151250	10.2	2
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35	Sizable carbon emission from the floodplain of Ob River. <i>Ecological Indicators</i> , 2021 , 131, 108164	5.8	2
34	The evolution of the ecosystems of thermokarst lakes of the Bolshezemelskaya tundra in the context of climate change. <i>E3S Web of Conferences</i> , 2019 , 98, 02010	0.5	1
33	Enhancement of cyanobacterial growth by riverine particulate material. <i>Chemical Geology</i> , 2019 , 525, 143-167	4.2	1

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31	Variability of hydrochemical parameters of small boreal lakes under natural and anthropogenic factors (case study of NW Russia). <i>Hydrobiologia</i> , 2020 , 847, 4653-4670	2.4	1
30	Elemental and Isotopic Variations of Copper and Zinc Associated with the Diel Activity of Phototrophic Biofilm. <i>Environmental Science & Technology</i> , 2020 , 54, 6741-6750	10.3	1
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28	Spatial and Temporal Variability of the Transformation of Dissolved Matter Runoff in the Mezen River Estuary. <i>Oceanology</i> , 2019 , 59, 199-207	0.7	1
27	Migration of dissolved matter at Serebryanka R. Mouth, the basin of the Sea of Japan (Sikhote Alin Reserve). <i>Water Resources</i> , 2014 , 41, 671-676	0.9	1
26	Sizable pool of labile organic carbon in peat and mineral soils of permafrost peatlands, western Siberia. <i>Geoderma</i> , 2022 , 409, 115601	6.7	1
25	Hydrochemical composition of thermokarst lake waters in the permafrost zone of western Siberia within the context of climate change		1
24	Distribution of Dissolved Nitrogen Compounds in the Water Column of a Meromictic Subarctic Lake. <i>Nitrogen</i> , 2021 , 2, 428-443	1.8	1
23	Effect of permafrost thawing on the organic carbon and trace element colloidal speciation and microbial activity in thermokarst lakes of Western Siberia		1
22	Phase Fractionation of Chemical Elements During the Formation of Ice in Fresh Surface Waters. <i>Doklady Earth Sciences</i> , 2020 , 492, 327-332	0.6	1
21	Influence of secondary metabolites on surface chemistry and metal adsorption of a devitalized lichen biomonitor. <i>Environmental Pollution</i> , 2021 , 273, 116500	9.3	1
20	Mg-Rich Authigenic Carbonates in Coastal Facies of the Vtoroe Zasechnoe Lake (Southwest Siberia): First Assessment and Possible Mechanisms of Formation. <i>Minerals (Basel, Switzerland)</i> , 2019 , 9, 763	2.4	1
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15	Carbon and nutrients in the Yenisei River tributaries draining the Western Siberia Peatlands. <i>IOP Conference Series: Earth and Environmental Science</i> , 2019 , 232, 012010	0.3	0

14	Changes in the palsa landscapes components in the West Siberian northern taiga 10 years after wildfires. <i>IOP Conference Series: Earth and Environmental Science</i> , 2019 , 232, 012021	0.3	0
13	Measuring and Estimating Fluxes of Carbon, Major and Trace Elements to the Arctic Ocean. <i>Springer Water</i> , 2016 , 185-212	0.3	0
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11	Dissolved Metal (Fe, Mn, Zn, Ni, Cu, Co, Cd, Pb) and Metalloid (As, Sb) in Snow Water across a 2800 km Latitudinal Profile of Western Siberia: Impact of Local Pollution and Global Transfer. <i>Water (Switzerland)</i> , 2022 , 14, 94	3	0
10	Experimental Modeling of Bacterially-Induced Ca Carbonate Precipitation: New Insights on Possible Mechanisms. <i>Key Engineering Materials</i> , 2016 , 672, 21-39	0.4	0
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