

Richard T Wilkin

List of Publications by Year in descending order

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67
papers

6,932
citations

101543

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65
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68
all docs

68
docs citations

68
times ranked

5899
citing authors

#	ARTICLE	IF	CITATIONS
1	Per- and polyfluoroalkyl substances in water and wastewater: A critical review of their global occurrence and distribution. <i>Science of the Total Environment</i> , 2022, 809, 151003.	8.0	230
2	Field, Laboratory and Modeling Evidence for Strong Attenuation of a Cr(VI) Plume in a Mudstone Aquifer Due to Matrix Diffusion and Reaction Processes. <i>Soil Systems</i> , 2021, 5, 18.	2.6	0
3	Limitations of Current Approaches for Predicting Groundwater Vulnerability from PFAS Contamination in the Vadose Zone. <i>Ground Water Monitoring and Remediation</i> , 2021, 41, 62-75.	0.8	11
4	Rare-Earth Elements as Natural Tracers for In Situ Remediation of Groundwater. <i>Environmental Science & Technology</i> , 2021, 55, 1251-1259.	10.0	20
5	Removal of Arsenate and Arsenite in Equimolar Ferrous and Ferric Sulfate Solutions through Mineral Coprecipitation: Formation of Sulfate Green Rust, Goethite, and Lepidocrocite. <i>Soil Systems</i> , 2020, 4, 68.	2.6	4
6	Response to Comment on "Thioarsenite Detection and Implications for Arsenic Transport in Groundwater". <i>Environmental Science & Technology</i> , 2020, 54, 7732-7733.	10.0	0
7	Cadmium in soils and groundwater: A review. <i>Applied Geochemistry</i> , 2019, 108, 104388.	3.0	602
8	Thioarsenite Detection and Implications for Arsenic Transport in Groundwater. <i>Environmental Science & Technology</i> , 2019, 53, 11684-11693.	10.0	18
9	Solution equilibria of uranyl minerals: Role of the common groundwater ions calcium and carbonate. <i>Journal of Hazardous Materials</i> , 2019, 377, 315-320.	12.4	22
10	Geochemical and Isotope Study of Trichloroethene Degradation in a Zero-Valent Iron Permeable Reactive Barrier: A Twenty-Two-Year Performance Evaluation. <i>Environmental Science & Technology</i> , 2019, 53, 296-306.	10.0	46
11	Groundwater co-contaminant behavior of arsenic and selenium at a lead and zinc smelting facility. <i>Applied Geochemistry</i> , 2018, 89, 255-264.	3.0	22
12	New Equilibrator Design for Rapid Detection of Methane in Groundwater During Purging. <i>Environmental Engineering Science</i> , 2018, 35, 897-908.	1.6	2
13	Evidence of Sulfate-Dependent Anaerobic Methane Oxidation within an Area Impacted by Coalbed Methane-Related Gas Migration. <i>Environmental Science & Technology</i> , 2017, 51, 1901-1909.	10.0	24
14	Determination of Cr(III) solids formed by reduction of Cr(VI) in a contaminated fractured bedrock aquifer: Evidence for natural attenuation of Cr(VI). <i>Chemical Geology</i> , 2017, 474, 1-8.	3.3	10
15	Uptake of nickel by synthetic mackinawite. <i>Chemical Geology</i> , 2017, 462, 15-29.	3.3	40
16	Potential aquifer vulnerability in regions down-gradient from uranium in situ recovery (ISR) sites. <i>Journal of Environmental Management</i> , 2016, 183, 67-83.	7.8	42
17	Determination of hexavalent chromium concentrations in matrix porewater from a contaminated aquifer in fractured sedimentary bedrock. <i>Chemical Geology</i> , 2015, 419, 142-148.	3.3	6
18	Fifteen-year assessment of a permeable reactive barrier for treatment of chromate and trichloroethylene in groundwater. <i>Science of the Total Environment</i> , 2014, 468-469, 186-194.	8.0	101

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19	Iron hydroxy carbonate formation in zerovalent iron permeable reactive barriers: Characterization and evaluation of phase stability. <i>Journal of Contaminant Hydrology</i> , 2010, 116, 47-57.	3.3	55
20	Nickel sulfide formation at low temperature: initial precipitates, solubility and transformation products. <i>Environmental Chemistry</i> , 2010, 7, 514.	1.5	11
21	Geochemical Impacts to Groundwater from Geologic Carbon Sequestration: Controls on pH and Inorganic Carbon Concentrations from Reaction Path and Kinetic Modeling. <i>Environmental Science & Technology</i> , 2010, 44, 4821-4827.	10.0	157
22	Impact of iron sulfide transformation on trichloroethylene degradation. <i>Geochimica Et Cosmochimica Acta</i> , 2010, 74, 2025-2039.	3.9	89
23	Performance of a zerovalent iron reactive barrier for the treatment of arsenic in groundwater: Part 1. Hydrogeochemical studies. <i>Journal of Contaminant Hydrology</i> , 2009, 106, 1-14.	3.3	49
24	Performance of a zerovalent iron reactive barrier for the treatment of arsenic in groundwater: Part 2. Geochemical modeling and solid phase studies. <i>Journal of Contaminant Hydrology</i> , 2009, 106, 15-28.	3.3	42
25	Assessing the selectivity of extractant solutions for recovering labile arsenic associated with iron (hydr)oxides and sulfides in sediments. <i>Geoderma</i> , 2009, 152, 137-144.	5.1	37
26	Treatment of Arsenic, Heavy Metals, and Acidity Using a Mixed ZVI-Compost PRB. <i>Environmental Science & Technology</i> , 2009, 43, 1970-1976.	10.0	84
27	Contaminant Attenuation Processes at Mine Sites. <i>Mine Water and the Environment</i> , 2008, 27, 251.	2.0	28
28	Transformation of Reactive Iron Minerals in a Permeable Reactive Barrier (Biowall) Used to Treat TCE in Groundwater. <i>Environmental Science & Technology</i> , 2008, 42, 6690-6696.	10.0	47
29	Examination of Arsenic Speciation in Sulfidic Solutions Using X-ray Absorption Spectroscopy. <i>Environmental Science & Technology</i> , 2008, 42, 1643-1650.	10.0	62
30	In Situ Source Treatment of Cr(VI) Using a Fe(II)-Based Reductant Blend: Long-Term Monitoring and Evaluation. <i>Journal of Environmental Engineering, ASCE</i> , 2008, 134, 651-658.	1.4	8
31	In Situ Chemical Reduction of Cr(VI) in Groundwater Using a Combination of Ferrous Sulfate and Sodium Dithionite: A Field Investigation. <i>Environmental Science & Technology</i> , 2007, 41, 5299-5305.	10.0	103
32	Perchlorate Behavior in a Municipal Lake Following Fireworks Displays. <i>Environmental Science & Technology</i> , 2007, 41, 3966-3971.	10.0	92
33	Microbial sulfate reduction and metal attenuation in pH 4 acid mine water. <i>Geochemical Transactions</i> , 2007, 8, 10.	0.7	82
34	Monitored natural attenuation forum: MNA of metals and radionuclides. <i>Remediation</i> , 2007, 18, 121-129.	2.4	2
35	Arsenic cycling within the water column of a small lake receiving contaminated ground-water discharge. <i>Chemical Geology</i> , 2006, 228, 137-155.	3.3	19
36	Arsenic solid-phase partitioning in reducing sediments of a contaminated wetland. <i>Chemical Geology</i> , 2006, 228, 156-174.	3.3	90

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37	Coulometric determination of total sulfur and reduced inorganic sulfur fractions in environmental samples. <i>Talanta</i> , 2006, 70, 766-773.	5.5	20
38	Geochemical Modeling of Arsenic Speciation and Mobilization: Implications for Bioremediation. ACS Symposium Series, 2005, , 398-413.	0.5	22
39	Arsenate and Arsenite Sorption on and Arsenite Oxidation by Iron(II, III) Hydroxycarbonate Green Rust. ACS Symposium Series, 2005, , 25-40.	0.5	13
40	Chromium-Removal Processes during Groundwater Remediation by a Zerovalent Iron Permeable Reactive Barrier. <i>Environmental Science & Technology</i> , 2005, 39, 4599-4605.	10.0	213
41	High-level arsenite removal from groundwater by zero-valent iron. <i>Chemosphere</i> , 2005, 59, 377-386.	8.2	201
42	Natural arsenic contamination of Holocene alluvial aquifers by linked tectonic, weathering, and microbial processes. <i>Geochemistry, Geophysics, Geosystems</i> , 2005, 6, n/a-n/a.	2.5	85
43	Speciation of arsenic in sulfidic waters. <i>Geochemical Transactions</i> , 2003, 4, 1.	0.7	200
44	Long-Term Performance of Permeable Reactive Barriers Using Zero-Valent Iron: Geochemical and Microbiological Effects. <i>Ground Water</i> , 2003, 41, 493-503.	1.3	186
45	Laboratory evaluation of zero-valent iron to treat water impacted by acid mine drainage. <i>Chemosphere</i> , 2003, 53, 715-725.	8.2	145
46	Preservation of sulfidic waters containing dissolved As(iii). <i>Journal of Environmental Monitoring</i> , 2003, 5, 913.	2.1	49
47	Formation of Ferrihydrite and Associated Iron Corrosion Products in Permeable Reactive Barriers of Zero-Valent Iron. <i>Environmental Science & Technology</i> , 2002, 36, 5469-5475.	10.0	274
48	Reductive Activation of Dioxygen for Degradation of Methyl tert-Butyl Ether by Bifunctional Aluminum. <i>Environmental Science & Technology</i> , 2002, 36, 4436-4440.	10.0	31
49	Use of Hydrochloric Acid for Determining Solid-Phase Arsenic Partitioning in Sulfidic Sediments. <i>Environmental Science & Technology</i> , 2002, 36, 4921-4927.	10.0	44
50	Biogeochemical controls on reaction of sedimentary organic matter and aqueous sulfides in holocene sediments of Mud Lake, Florida. <i>Geochimica Et Cosmochimica Acta</i> , 2002, 66, 937-954.	3.9	56
51	Variations in pyrite texture, sulfur isotope composition, and iron systematics in the Black Sea: evidence for Late Pleistocene to Holocene excursions of the o ₂ -h ₂ s redox transition. <i>Geochimica Et Cosmochimica Acta</i> , 2001, 65, 1399-1416.	3.9	151
52	Field Measurement of Dissolved Oxygen: A Comparison of Methods. <i>Ground Water Monitoring and Remediation</i> , 2001, 21, 124-132.	0.8	18
53	Thermodynamics of ion-exchanged and natural clinoptilolite. <i>American Mineralogist</i> , 2001, 86, 438-447.	1.9	29
54	Solubility and stability of zeolites in aqueous solution: II. Calcic clinoptilolite and mordenite. <i>American Mineralogist</i> , 2000, 85, 495-508.	1.9	30

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55	Nucleation and growth kinetics of analcime from precursor Na-clinoptilolite. <i>American Mineralogist</i> , 2000, 85, 1329-1341.	1.9	26
56	Black Sea chemocline oscillations during the Holocene: molecular and isotopic studies of marginal sediments. <i>Organic Geochemistry</i> , 2000, 31, 1525-1531.	1.8	23
57	Reaction pathways in the Fe-S system below 100°C. <i>Chemical Geology</i> , 2000, 167, 25-51.	3.3	360
58	Thermodynamics of hydration of Na- and K-clinoptilolite to 300 °C. <i>Physics and Chemistry of Minerals</i> , 1999, 26, 468-476.	0.8	16
59	Pyrite formation in the water column and sediments of a meromictic lake. <i>Geology</i> , 1998, 26, 1099.	4.4	104
60	Solubility and stability of zeolites in aqueous solution; I, Analcime, Na-, and K-clinoptilolite. <i>American Mineralogist</i> , 1998, 83, 746-761.	1.9	80
61	Formation processes of framboidal pyrite. <i>Geochimica Et Cosmochimica Acta</i> , 1997, 61, 323-339.	3.9	608
62	History of water-column anoxia in the Black Sea indicated by pyrite framboid size distributions. <i>Earth and Planetary Science Letters</i> , 1997, 148, 517-525.	4.4	274
63	The size distribution of framboidal pyrite in modern sediments: An indicator of redox conditions. <i>Geochimica Et Cosmochimica Acta</i> , 1996, 60, 3897-3912.	3.9	879
64	Pyrite formation by reactions of iron monosulfides with dissolved inorganic and organic sulfur species. <i>Geochimica Et Cosmochimica Acta</i> , 1996, 60, 4167-4179.	3.9	414
65	Archean Appinites from the Northern Complex, Michigan. <i>Journal of Geology</i> , 1993, 101, 107-114.	1.4	8
66	Geology and geochemistry of granitoid rocks in the Archean Northern complex, Michigan, U.S.A.. <i>Canadian Journal of Earth Sciences</i> , 1992, 29, 1674-1685.	1.3	5
67	Sulfide minerals in sediments. , 1978, , 1157-1161.		2