

Janet S Herman

List of Publications by Year in descending order

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48
papers

3,875
citations

147801

31
h-index

214800

47
g-index

48
all docs

48
docs citations

48
times ranked

3281
citing authors

#	ARTICLE	IF	CITATIONS
1	Aqueous pyrite oxidation by dissolved oxygen and by ferric iron. <i>Geochimica Et Cosmochimica Acta</i> , 1987, 51, 1561-1571.	3.9	709
2	Pyrite oxidation at circumneutral pH. <i>Geochimica Et Cosmochimica Acta</i> , 1991, 55, 471-482.	3.9	375
3	Effect of Solution Ionic Strength and Iron Coatings on Mineral Grains on the Sorption of Bacterial Cells to Quartz Sand. <i>Applied and Environmental Microbiology</i> , 1994, 60, 3300-3306.	3.1	210
4	Bacterial transport in porous media: Evaluation of a model using laboratory observations. <i>Water Resources Research</i> , 1992, 28, 915-923.	4.2	200
5	Differential dissolution of a Pleistocene reef in the ground-water mixing zone of coastal Yucatan, Mexico. <i>Geology</i> , 1986, 14, 137.	4.4	167
6	The influence of mineralogy and solution chemistry on the attachment of bacteria to representative aquifer materials. <i>Journal of Contaminant Hydrology</i> , 1990, 6, 321-336.	3.3	152
7	Nitrate reduction in streambed sediments: Effects of flow and biogeochemical kinetics. <i>Water Resources Research</i> , 2007, 43, .	4.2	123
8	Mobilization and Transport of Soil Particles during Infiltration Experiments in an Agricultural Field, Shenandoah Valley, Virginia. <i>Environmental Science & Technology</i> , 2000, 34, 3555-3559.	10.0	114
9	Effect of surface coatings, grain size, and ionic strength on the maximum attainable coverage of bacteria on sand surfaces. <i>Journal of Contaminant Hydrology</i> , 2001, 50, 287-305.	3.3	113
10	Seasonal dynamics of groundwater-lake interactions at Doña Ana National Park, Spain. <i>Journal of Hydrology</i> , 1992, 136, 123-154.	5.4	107
11	CO ₂ outgassing and calcite precipitation in Falling Spring Creek, Virginia, U.S.A.. <i>Chemical Geology</i> , 1987, 62, 251-262.	3.3	105
12	The chemical evolution of a travertine-depositing stream: Geochemical processes and mass transfer reactions. <i>Water Resources Research</i> , 1988, 24, 1541-1552.	4.2	101
13	Iron reduction in the sediments of a hydrocarbon-contaminated aquifer. <i>Applied Geochemistry</i> , 1999, 14, 655-667.	3.0	93
14	Acidification of Earth: An assessment across mechanisms and scales. <i>Applied Geochemistry</i> , 2012, 27, 1-14.	3.0	90
15	Dissolution kinetics of dolomite: Effects of lithology and fluid flow velocity. <i>Geochimica Et Cosmochimica Acta</i> , 1985, 49, 2017-2026.	3.9	83
16	Fate of Microbial Metabolites of Hydrocarbons in a Coastal Plain Aquifer: The Role of Electron Acceptors. <i>Environmental Science & Technology</i> , 1995, 29, 458-469.	10.0	83
17	Calcite precipitation rates in the field: Measurement and prediction for a travertine-depositing stream. <i>Geochimica Et Cosmochimica Acta</i> , 1988, 52, 2347-2355.	3.9	77
18	Kinetics of BTX biodegradation and mineralization in batch and column systems. <i>Journal of Contaminant Hydrology</i> , 1996, 23, 113-132.	3.3	71

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19	Geochemical heterogeneity of a gasoline-contaminated aquifer. <i>Journal of Contaminant Hydrology</i> , 1999, 40, 261-284.	3.3	66
20	The effect of distribution of iron-oxyhydroxide grain coatings on the transport of bacterial cells in porous media. <i>Environmental Geology</i> , 1998, 33, 243-248.	1.2	64
21	Atrazine Adsorption and Colloid-Facilitated Transport through the Unsaturated Zone. <i>Journal of Environmental Quality</i> , 2000, 29, 1632-1641.	2.0	60
22	The mobilization of aluminum in a natural soil system: Effects of hydrologic pathways. <i>Water Resources Research</i> , 1987, 23, 859-874.	4.2	57
23	Processes controlling the episodic streamwater transport of atrazine and other agrichemicals in an agricultural watershed. <i>Journal of Hydrology</i> , 2001, 254, 47-66.	5.4	57
24	The role of moving air-water interfaces in colloid mobilization within the vadose zone. <i>Geophysical Research Letters</i> , 2003, 30, .	4.0	54
25	Geochemical investigation of salt-water intrusion into a coastal carbonate aquifer: Mallorca, Spain. <i>Bulletin of the Geological Society of America</i> , 1991, 103, 1270-1279.	3.3	47
26	Regional Hydrogeochemistry of a Modern Coastal Mixing Zone. <i>Water Resources Research</i> , 1996, 32, 401-407.	4.2	43
27	Evaluation of hydrological and biological influences on CO ₂ fluxes from a karst stream. <i>Journal of Hydrology</i> , 1989, 108, 189-212.	5.4	39
28	Water-rock interactions in a modern coastal mixing zone. <i>Bulletin of the Geological Society of America</i> , 1995, 107, 1023-1032.	3.3	39
29	Controls on High Sulfate Concentrations in the Upper Floridan Aquifer in Southwest Florida. <i>Water Resources Research</i> , 1995, 31, 2541-2551.	4.2	39
30	Travel time controls the magnitude of nitrate discharge in groundwater bypassing the riparian zone to a stream on Virginia's coastal plain. <i>Hydrological Processes</i> , 2012, 26, 1242-1253.	2.6	35
31	Influence of stream-groundwater interactions in the streambed sediments on NO ₃ ⁻ flux to a low-relief coastal stream. <i>Water Resources Research</i> , 2008, 44, .	4.2	34
32	The effect of a confining unit on the geochemical evolution of ground water in the Upper Floridan aquifer system. <i>Journal of Hydrology</i> , 1994, 153, 139-155.	5.4	33
33	Effect of freshets on the flux of groundwater nitrate through streambed sediments. <i>Water Resources Research</i> , 2008, 44, .	4.2	32
34	The Effect of Zones of High Porosity and Permeability on the Configuration of the Saline-Freshwater Mixing Zone. <i>Ground Water</i> , 1995, 33, 733-740.	1.3	30
35	Effects of transverse mixing on transport of bacteria through heterogeneous porous media. <i>Water Resources Research</i> , 1998, 34, 1901-1908.	4.2	25
36	Rate and extent of cobalt sorption to representative aquifer minerals in the presence of a moderately strong organic ligand. <i>Applied Geochemistry</i> , 1998, 13, 77-88.	3.0	22

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37	Changes in the sorption capacity of Coastal Plain sediments due to redox alteration of mineral surfaces. <i>Applied Geochemistry</i> , 2002, 17, 387-398.	3.0	21
38	Colloid Mobilization from a Variably Saturated, Intact Soil Core. <i>Vadose Zone Journal</i> , 2006, 5, 564-569.	2.2	16
39	Bioavailability and desorption characteristics of aged, nonextractable atrazine in soil. <i>Environmental Toxicology and Chemistry</i> , 1999, 18, 1747-1754.	4.3	15
40	Biodegradation of cobalt-citrate complexes: Implications for cobalt mobility in groundwater. <i>Journal of Contaminant Hydrology</i> , 1998, 32, 99-115.	3.3	14
41	Diel patterns in coastal stream nitrate concentrations linked to evapotranspiration in the riparian zone of a low-relief, agricultural catchment. <i>Hydrological Processes</i> , 2014, 28, 2150-2158.	2.6	14
42	Homogeneous oxidation kinetics of aqueous ferrous iron at circumneutral pH. <i>Journal of Solution Chemistry</i> , 1989, 18, 705-725.	1.2	13
43	WATIN-A COMPUTER PROGRAM FOR GENERATING INPUT FILES FOR WATEQF. <i>Ground Water</i> , 1986, 24, 83-89.	1.3	11
44	Rate-Limited Transport of Hydroxyatrazine in an Unsaturated Soil. <i>Environmental Science & Technology</i> , 1998, 32, 3137-3141.	10.0	9
45	The geochemical effects of benzene, toluene, and xylene (BTX) biodegradation. <i>Applied Geochemistry</i> , 1997, 12, 291-303.	3.0	7
46	Kinetic evaluation of the effects of bioavailability of organic ligands on biodegradation in the presence of common sesquioxide grain coatings. <i>Environmental Toxicology and Chemistry</i> , 1997, 16, 862-870.	4.3	3
47	BIOAVAILABILITY AND DESORPTION CHARACTERISTICS OF AGED, NONEXTRACTABLE ATRAZINE IN SOIL. <i>Environmental Toxicology and Chemistry</i> , 1999, 18, 1747.	4.3	2
48	Water chemistry in caves. , 2019, , 1136-1143.		1