Xin Gu

List of Publications by Year in descending order

35 papers	1,217 citations	430754 18 h-index	434063 31 g-index
37 all docs	37 docs citations	37 times ranked	1676 citing authors

#	Article	IF	Citations
1	How Particle Size Influences Oxidation of Ancient Organic Matter during Weathering of Black Shale. ACS Earth and Space Chemistry, 2022, 6, 1443-1459.	1.2	6
2	Oxidation and associated pore structure modification during experimental alteration of granite. Geochimica Et Cosmochimica Acta, 2021, 292, 532-556.	1.6	15
3	Seismic Ambient Noise Analyses Reveal Changing Temperature and Water Signals to 10s of Meters Depth in the Critical Zone. Journal of Geophysical Research F: Earth Surface, 2021, 126, e2020JF005823.	1.0	9
4	Machine learning deciphers CO₂ sequestration and subsurface flowpaths from stream chemistry. Hydrology and Earth System Sciences, 2021, 25, 3397-3409.	1.9	15
5	How the capacity of bedrock to collect dust and produce soil affects phosphorus bioavailability in the northern Appalachian Mountains of Pennsylvania. Earth Surface Processes and Landforms, 2021, 46, 2807-2823.	1.2	3
6	Seismic Imaging of a Shale Landscape Under Compression Shows Limited Influence of Topographyâ€Induced Fracturing. Geophysical Research Letters, 2021, 48, e2021GL093372.	1.5	7
7	3D Seismic Anatomy of a Watershed Reveals Climateâ€Topography Coupling That Drives Water Flowpaths and Bedrock Weathering. Journal of Geophysical Research F: Earth Surface, 2021, 126, e2021JF006281.	1.0	7
8	Chemical reactions, porosity, and microfracturing in shale during weathering: The effect of erosion rate. Geochimica Et Cosmochimica Acta, 2020, 269, 63-100.	1.6	68
9	Deep abiotic weathering of pyrite. Science, 2020, 370, .	6.0	63
10	Seismic refraction tracks porosity generation and possible CO ₂ production at depth under a headwater catchment. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 18991-18997.	3.3	28
11	Reply to the comment on â€œParticle fluxes in groundwater change subsurface shale rock chemistry over geologic timeâ€. Earth and Planetary Science Letters, 2019, 514, 169-171.	1.8	1
12	Exploring the Effect of Aspect to Inform Future Earthcasts of Climateâ€Driven Changes in Weathering of Shale. Journal of Geophysical Research F: Earth Surface, 2019, 124, 974-993.	1.0	20
13	Susquehanna Shale Hills Critical Zone Observatory: Shale Hills in the Context of Shaver's Creek Watershed. Vadose Zone Journal, 2018, 17, 1-19.	1.3	36
14	Determination of porosity in anisotropic fractal systems by neutron scattering. Journal of Applied Crystallography, 2018, 51, 175-184.	1.9	20
15	Particle fluxes in groundwater change subsurface shale rock chemistry over geologic time. Earth and Planetary Science Letters, 2018, 500, 180-191.	1.8	16
16	Mercury Sourcing and Sequestration in Weathering Profiles at Six Critical Zone Observatories. Global Biogeochemical Cycles, 2018, 32, 1542-1555.	1.9	14
17	Weathering of rock to regolith: The activity of deep roots in bedrock fractures. Geoderma, 2017, 300, 11-31.	2.3	93
18	Hyporheic zone influences on concentrationâ€discharge relationships in a headwater sandstone stream. Water Resources Research, 2017, 53, 4643-4667.	1.7	49

#	Article	IF	Citations
19	WEATHERING OF ROCK TO REGOLITH: THE ACTIVITY OF DEEP ROOTS IN BEDROCK FRACTURES. , 2017, , .		0
20	Oxidative dissolution under the channel leads geomorphological evolution at the Shale Hills catchment. Numerische Mathematik, 2016, 316, 981-1026.	0.7	55
21	Quantification of Organic Porosity and Water Accessibility in Marcellus Shale Using Neutron Scattering. Energy & Fuels, 2016, 30, 4438-4449.	2.5	96
22	Ultra-small-angle neutron scattering with azimuthal asymmetry. Journal of Applied Crystallography, 2016, 49, 934-943.	1.9	24
23	Deep weathering along a granite ridgeline in a subtropical climate. Chemical Geology, 2016, 427, 17-34.	1.4	42
24	PYRITE DISSOLUTION LEADS WATERSHED GEOMORPHOLOGICAL EVOLUTION. , 2016, , .		0
25	Pores in Marcellus Shale: A Neutron Scattering and FIB-SEM Study. Energy & Fuels, 2015, 29, 1295-1308.	2.5	177
26	A model describing flowback chemistry changes with time after Marcellus Shale hydraulic fracturing. AAPG Bulletin, 2015, 99, 143-154.	0.7	57
27	Degradation pathways of low-ethoxylated nonylphenols by isolated bacteria using an improved method. Environmental Science and Pollution Research, 2014, 21, 9468-9476.	2.7	2
28	Quaternary nitrogen activated carbons for removal of perchlorate with electrochemical regeneration. Carbon, 2014, 73, 1-12.	5.4	46
29	Nano- to Microscale Pore Characterization of the Utica Shale. , 2014, , .		1
30	Effect of preparation protocol on anchoring quaternary ammonium/epoxide-forming compound into granular activated carbon for perchlorate adsorption: Enhancement by Response Surface Methodology. Chemical Engineering Journal, 2013, 223, 309-317.	6.6	27
31	Granular activated carbon anchored with quaternary ammonium/epoxide-forming compounds to enhance perchlorate removal from groundwater. Carbon, 2013, 53, 197-207.	5.4	38
32	Isolation of phylogenetically diverse nonylphenol ethoxylate-degrading bacteria and characterization of their corresponding biotransformation pathways. Chemosphere, 2010, 80, 216-222.	4.2	21
33	Antibioticâ€resistance profile in environmental bacteria isolated from penicillin production wastewater treatment plant and the receiving river. Environmental Microbiology, 2009, 11, 1506-1517.	1.8	154
34	Degradation behaviors of nonylphenol ethoxylates by isolated bacteria using improved isolation method. Journal of Environmental Sciences, 2008, 20, 1025-1027.	3.2	6
35	Effects of micronutrient niacin on treatment efficiency of textile wastewater. Wuhan University Journal of Natural Sciences, 2006, 11, 737-741.	0.2	0