

Mark A Engle

List of Publications by Year in descending order

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Version: 2024-02-01

70
papers

3,383
citations

147801

31
h-index

155660

55
g-index

83
all docs

83
docs citations

83
times ranked

3025
citing authors

#	ARTICLE	IF	CITATIONS
1	Organic substances in produced and formation water from unconventional natural gas extraction in coal and shale. <i>International Journal of Coal Geology</i> , 2014, 126, 20-31.	5.0	274
2	Hydraulic fracturing water use variability in the United States and potential environmental implications. <i>Water Resources Research</i> , 2015, 51, 5839-5845.	4.2	169
3	Quantifying natural source mercury emissions from the Ivanhoe Mining District, north-central Nevada, USA. <i>Atmospheric Environment</i> , 2001, 35, 3987-3997.	4.1	135
4	Geochemical and isotopic evolution of water produced from Middle Devonian Marcellus shale gas wells, Appalachian basin, Pennsylvania. <i>AAPG Bulletin</i> , 2015, 99, 181-206.	1.5	127
5	Geochemistry of formation waters from the Wolfcamp and Cline shales: Insights into brine origin, reservoir connectivity, and fluid flow in the Permian Basin, USA. <i>Chemical Geology</i> , 2016, 425, 76-92.	3.3	124
6	Atmospheric mercury emissions from mine wastes and surrounding geologically enriched terrains. <i>Environmental Geology</i> , 2003, 43, 339-351.	1.2	120
7	Wastewater Disposal from Unconventional Oil and Gas Development Degrades Stream Quality at a West Virginia Injection Facility. <i>Environmental Science & Technology</i> , 2016, 50, 5517-5525.	10.0	118
8	Geochemical evolution of produced waters from hydraulic fracturing of the Marcellus Shale, northern Appalachian Basin: A multivariate compositional data analysis approach. <i>International Journal of Coal Geology</i> , 2014, 126, 45-56.	5.0	116
9	CO ₂ , CO, and Hg emissions from the Truman Shepherd and Ruth Mullins coal fires, eastern Kentucky, USA. <i>Science of the Total Environment</i> , 2010, 408, 1628-1633.	8.0	113
10	Can we beneficially reuse produced water from oil and gas extraction in the U.S.?. <i>Science of the Total Environment</i> , 2020, 717, 137085.	8.0	111
11	Discharges of produced waters from oil and gas extraction via wastewater treatment plants are sources of disinfection by-products to receiving streams. <i>Science of the Total Environment</i> , 2014, 466-467, 1085-1093.	8.0	109
12	Gas emissions, minerals, and tars associated with three coal fires, Powder River Basin, USA. <i>Science of the Total Environment</i> , 2012, 420, 146-159.	8.0	87
13	Volatile-organic molecular characterization of shale-oil produced water from the Permian Basin. <i>Chemosphere</i> , 2016, 148, 126-136.	8.2	85
14	Mercury exchange between the atmosphere and low mercury containing substrates. <i>Applied Geochemistry</i> , 2006, 21, 1913-1923.	3.0	84
15	Mercury distribution in two Sierran forest and one desert sagebrush steppe ecosystems and the effects of fire. <i>Science of the Total Environment</i> , 2006, 367, 222-233.	8.0	84
16	Comparison of atmospheric mercury speciation and deposition at nine sites across central and eastern North America. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	84
17	The influence of ozone on atmospheric emissions of gaseous elemental mercury and reactive gaseous mercury from substrates. <i>Atmospheric Environment</i> , 2005, 39, 7506-7517.	4.1	81
18	The Tiptop coal-mine fire, Kentucky: Preliminary investigation of the measurement of mercury and other hazardous gases from coal-fire gas vents. <i>International Journal of Coal Geology</i> , 2009, 80, 63-67.	5.0	74

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19	Characterization and cycling of atmospheric mercury along the central US Gulf Coast. <i>Applied Geochemistry</i> , 2008, 23, 419-437.	3.0	72
20	Partitioning of selected trace elements in coal combustion products from two coal-burning power plants in the United States. <i>International Journal of Coal Geology</i> , 2013, 113, 116-126.	5.0	64
21	Interpretation of Na-Cl-Br Systematics in Sedimentary Basin Brines: Comparison of Concentration, Element Ratio, and Isometric Log-ratio Approaches. <i>Mathematical Geosciences</i> , 2013, 45, 87-101.	2.4	58
22	Surface disposal of produced waters in western and southwestern Pennsylvania: Potential for accumulation of alkali-earth elements in sediments. <i>International Journal of Coal Geology</i> , 2014, 126, 162-170.	5.0	56
23	Atmospheric mercury emissions from substrates and fumaroles associated with three hydrothermal systems in the western United States. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	50
24	Atmospheric particulate matter in proximity to mountaintop coal mines: sources and potential environmental and human health impacts. <i>Environmental Geochemistry and Health</i> , 2015, 37, 529-544.	3.4	49
25	Scaling of atmospheric mercury emissions from three naturally enriched areas: Flowery Peak, Nevada; Peavine Peak, Nevada; and Long Valley Caldera, California. <i>Science of the Total Environment</i> , 2002, 290, 91-104.	8.0	47
26	Methane and Benzene in Drinking-Water Wells Overlying the Eagle Ford, Fayetteville, and Haynesville Shale Hydrocarbon Production Areas. <i>Environmental Science & Technology</i> , 2017, 51, 6727-6734.	10.0	45
27	Atmospheric Mercury Emissions and Speciation at the Sulphur Bank Mercury Mine Superfund Site, Northern California. <i>Environmental Science & Technology</i> , 2004, 38, 1977-1983.	10.0	44
28	Whole-coal versus ash basis in coal geochemistry: A mathematical approach to consistent interpretations. <i>International Journal of Coal Geology</i> , 2013, 113, 41-49.	5.0	43
29	Quantifying greenhouse gas emissions from coal fires using airborne and ground-based methods. <i>International Journal of Coal Geology</i> , 2011, 88, 147-151.	5.0	41
30	Pore characteristics of Wilcox Group Coal, U.S. Gulf Coast Region: Implications for the occurrence of coalbed gas. <i>International Journal of Coal Geology</i> , 2015, 139, 80-94.	5.0	40
31	The isometric log-ratio (ilr)-ion plot: A proposed alternative to the Piper diagram. <i>Journal of Geochemical Exploration</i> , 2018, 190, 130-141.	3.2	38
32	Linking compositional data analysis with thermodynamic geochemical modeling: Oilfield brines from the Permian Basin, USA. <i>Journal of Geochemical Exploration</i> , 2014, 141, 61-70.	3.2	31
33	Direct estimation of diffuse gaseous emissions from coal fires: Current methods and future directions. <i>International Journal of Coal Geology</i> , 2013, 112, 164-172.	5.0	27
34	Characterization of produced water and surrounding surface water in the Permian Basin, the United States. <i>Journal of Hazardous Materials</i> , 2022, 430, 128409.	12.4	27
35	High Mercury Wet Deposition at a "Clean Air" Site in Puerto Rico. <i>Environmental Science & Technology</i> , 2015, 49, 12474-12482.	10.0	26
36	Cadmium isotope fractionation during coal combustion: Insights from two U.S. coal-fired power plants. <i>Applied Geochemistry</i> , 2018, 96, 100-112.	3.0	24

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37	Three-way compositional analysis of water quality monitoring data. <i>Environmental and Ecological Statistics</i> , 2014, 21, 565-581.	3.5	22
38	Origin and geochemistry of formation waters from the lower Eagle Ford Group, Gulf Coast Basin, south central Texas. <i>Chemical Geology</i> , 2020, 550, 119754.	3.3	21
39	The role of climate in increasing salt loads in dryland rivers. <i>Journal of Arid Environments</i> , 2014, 111, 7-13.	2.4	20
40	Spatial variability of produced-water quality and alternative-source water analysis applied to the Permian Basin, USA. <i>Hydrogeology Journal</i> , 2019, 27, 2889-2905.	2.1	20
41	Statistical analysis of soil geochemical data to identify pathfinders associated with mineral deposits: An example from the Coles Hill uranium deposit, Virginia, USA. <i>Journal of Geochemical Exploration</i> , 2015, 154, 238-251.	3.2	19
42	Mercury, Trace Elements and Organic Constituents in Atmospheric Fine Particulate Matter, Shenandoah National Park, Virginia, USA: A Combined Approach to Sampling and Analysis. <i>Geostandards and Geoanalytical Research</i> , 2008, 32, 279-293.	3.1	18
43	Gas emissions, tars, and secondary minerals at the Ruth Mullins and Tiptop coal mine fires. <i>International Journal of Coal Geology</i> , 2018, 195, 304-316.	5.0	18
44	Accuracy of methods for reporting inorganic element concentrations and radioactivity in oil and gas wastewaters from the Appalachian Basin, U.S. based on an inter-laboratory comparison. <i>Environmental Sciences: Processes and Impacts</i> , 2019, 21, 224-241.	3.5	18
45	Utica Shale Play Oil and Gas Brines: Geochemistry and Factors Influencing Wastewater Management. <i>Environmental Science & Technology</i> , 2020, 54, 13917-13925.	10.0	17
46	Atmospheric mercury and fine particulate matter in coastal New England: Implications for mercury and trace element sources in the northeastern United States. <i>Atmospheric Environment</i> , 2013, 79, 760-768.	4.1	16
47	Coal elemental (compositional) data analysis with hierarchical clustering algorithms. <i>International Journal of Coal Geology</i> , 2022, 249, 103892.	5.0	16
48	Patterns of mercury dispersion from local and regional emission sources, rural Central Wisconsin, USA. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 4467-4476.	4.9	15
49	Geochemical and geophysical indicators of oil and gas wastewater can trace potential exposure pathways following releases to surface waters. <i>Science of the Total Environment</i> , 2021, 755, 142909.	8.0	15
50	Using simulated maps to interpret the geochemistry, formation and quality of the Blue Gem coal bed, Kentucky, USA. <i>International Journal of Coal Geology</i> , 2013, 112, 26-35.	5.0	14
51	Quantifying chemical weathering rates along a precipitation gradient on Basse-Terre Island, French Guadeloupe: New insight from U-series isotopes in weathering rinds. <i>Geochimica Et Cosmochimica Acta</i> , 2016, 195, 29-67.	3.9	14
52	Tracking solutes and water from subsurface drip irrigation application of coalbed methane-produced waters, Powder River Basin, Wyoming. <i>Environmental Geosciences</i> , 2011, 18, 169-187.	0.6	11
53	Predicting Rare Earth Element Potential in Produced and Geothermal Waters of the United States via Emergent Self-Organizing Maps. <i>Energies</i> , 2022, 15, 4555.	3.1	9
54	Advances in self-organizing maps for their application to compositional data. <i>Stochastic Environmental Research and Risk Assessment</i> , 2019, 33, 817-826.	4.0	8

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55	Weighted Symmetric Pivot Coordinates for Compositional Data with Geochemical Applications. <i>Mathematical Geosciences</i> , 2021, 53, 655-674.	2.4	8
56	Hydrogeochemical controls on brackish groundwater and its suitability for use in hydraulic fracturing: The Dockum Aquifer, Midland Basin, Texas. <i>Environmental Geosciences</i> , 2018, 25, 37-63.	0.6	6
57	Considerations in the application of machine learning to aqueous geochemistry: Origin of produced waters in the northern U.S. Gulf Coast Basin. <i>Applied Computing and Geosciences</i> , 2019, 3-4, 100012.	2.2	6
58	Application of near-surface geophysics as part of a hydrologic study of a subsurface drip irrigation system along the Powder River floodplain near Arvada, Wyoming. <i>International Journal of Coal Geology</i> , 2014, 126, 128-139.	5.0	5
59	Application of environmental groundwater tracers at the Sulphur Bank Mercury Mine, California, USA. <i>Hydrogeology Journal</i> , 2008, 16, 559-573.	2.1	4
60	The Role of Water in Unconventional in Situ Energy Resource Extraction Technologies. , 2015, , 183-215.		4
61	Insights on Geochemical, Isotopic, and Volumetric Compositions of Produced Water from Hydraulically Fractured Williston Basin Oil Wells. <i>Environmental Science & Technology</i> , 2021, 55, 10025-10034.	10.0	4
62	Compositional Closureâ€”Its Origin Lies Not in Mathematics but Rather in Nature Itself. <i>Minerals (Basel)</i> , 2020, 10, 1000000.	2.0	4
63	Dissolved organic matter within oil and gas associated wastewaters from U.S. unconventional petroleum plays: Comparisons and consequences for disposal and reuse. <i>Science of the Total Environment</i> , 2022, 838, 156331.	8.0	4
64	Machine Learning Can Assign Geologic Basin to Produced Water Samples Using Major Ion Geochemistry. <i>Natural Resources Research</i> , 2021, 30, 4147-4163.	4.7	3
65	The future low-temperature geochemical data-scape as envisioned by the U.S. geochemical community. <i>Computers and Geosciences</i> , 2021, 157, 104933.	4.2	3
66	Third Year of Subsurface Drip Irrigation Monitoring Using GEM2 Electromagnetic Surveys, Powder River Basin, Wyoming. , 2010, , .		2
67	Environmental geology and the unconventional gas revolution: Introduction to the Special Issue. <i>International Journal of Coal Geology</i> , 2014, 126, 1-3.	5.0	2
68	Direct Trace Element Determination in Oil and Gas Produced Waters with Inductively Coupled Plasmaâ€”Optical Emission Spectrometry: Advantages of Highâ€”Salinity Tolerance. <i>Geostandards and Geoanalytical Research</i> , 2020, 44, 385-397.	3.1	2
69	Datasets associated with investigating the potential for beneficial reuse of produced water from oil and gas extraction outside of the energy sector. <i>Data in Brief</i> , 2020, 30, 105406.	1.0	2
70	Geochemical data for produced waters from conventional and unconventional oil and gas wells: Results from Colorado, USA. <i>E3S Web of Conferences</i> , 2019, 98, 03002.	0.5	0