

# Aaron Jubb

## List of Publications by Year in descending order

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Version: 2024-02-01

46  
papers

1,521  
citations

471061

17  
h-index

315357

38  
g-index

47  
all docs

47  
docs citations

47  
times ranked

2780  
citing authors

#	ARTICLE	IF	CITATIONS
1	Vibrational Spectroscopic Characterization of Hematite, Maghemite, and Magnetite Thin Films Produced by Vapor Deposition. <i>ACS Applied Materials &amp; Interfaces</i> , 2010, 2, 2804-2812.	4.0	652
2	Environmental Chemistry at Vapor/Water Interfaces: Insights from Vibrational Sum Frequency Generation Spectroscopy. <i>Annual Review of Physical Chemistry</i> , 2012, 63, 107-130.	4.8	133
3	Organization of Water and Atmospherically Relevant Ions and Solutes: Vibrational Sum Frequency Spectroscopy at the Vapor/Liquid and Liquid/Solid Interfaces. <i>Accounts of Chemical Research</i> , 2012, 45, 110-119.	7.6	73
4	Electric Field Reversal of Na <sub>2</sub> SO <sub>4</sub> , (NH <sub>4</sub> ) <sub>2</sub> SO <sub>4</sub> , and Na <sub>2</sub> CO <sub>3</sub> Relative to CaCl <sub>2</sub> and NaCl at the Air/Aqueous Interface Revealed by Heterodyne Detected Phase-Sensitive Sum Frequency. <i>Journal of Physical Chemistry Letters</i> , 2011, 2, 2515-2520.	2.1	64
5	Photochemical reactions between mercury (Hg) and dissolved organic matter decrease Hg bioavailability and methylation. <i>Environmental Pollution</i> , 2017, 220, 1359-1365.	3.7	53
6	Organic petrography of Leonardian (Wolfcamp A) mudrocks and carbonates, Midland Basin, Texas: The fate of oil-prone sedimentary organic matter in the oil window. <i>Marine and Petroleum Geology</i> , 2020, 112, 104086.	1.5	49
7	High microscale variability in Raman thermal maturity estimates from shale organic matter. <i>International Journal of Coal Geology</i> , 2018, 199, 1-9.	1.9	46
8	Nitrate Anions and Ion Pairing at the Air/Aqueous Interface. <i>Journal of Physical Chemistry C</i> , 2009, 113, 2082-2087.	1.5	39
9	A review of spatially resolved techniques and applications of organic petrography in shale petroleum systems. <i>International Journal of Coal Geology</i> , 2021, 241, 103745.	1.9	35
10	Elevated gold ellipse nanoantenna dimers as sensitive and tunable surface enhanced Raman spectroscopy substrates. <i>Nanoscale</i> , 2016, 8, 5641-5648.	2.8	25
11	Nanoscale Molecular Fractionation of Organic Matter within Unconventional Petroleum Source Beds. <i>Energy &amp; Fuels</i> , 2019, 33, 9759-9766.	2.5	24
12	Nanoscale Molecular Composition of Solid Bitumen from the Eagle Ford Group across a Natural Thermal Maturity Gradient. <i>Energy &amp; Fuels</i> , 2020, 34, 8167-8177.	2.5	24
13	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.	1.4	21
14	Compositional evolution of organic matter in Boquillas Shale across a thermal gradient at the single particle level. <i>International Journal of Coal Geology</i> , 2021, 248, 103859.	1.9	19
15	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.	1.7	18
16	Utica Shale Play Oil and Gas Brines: Geochemistry and Factors Influencing Wastewater Management. <i>Environmental Science &amp; Technology</i> , 2020, 54, 13917-13925.	4.6	17
17	Investigating the effects of broad ion beam milling to sedimentary organic matter: Surface flattening or heat-induced aromatization and condensation?. <i>Fuel</i> , 2020, 282, 118627.	3.4	17
18	Mercury-Pollution Induction of Intracellular Lipid Accumulation and Lysosomal Compartment Amplification in the Benthic Foraminifer <i>Ammonia parkinsoniana</i> . <i>PLoS ONE</i> , 2016, 11, e0162401.	1.1	17

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19	Molecular mechanisms of solid bitumen and vitrinite reflectance suppression explored using hydrous pyrolysis of artificial source rock. <i>Organic Geochemistry</i> , 2022, 165, 104371.	0.9	16
20	Bisulfate Dehydration at Air/Solution Interfaces Probed by Vibrational Sum Frequency Generation Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2012, 116, 13161-13168.	1.5	15
21	Sulfate adsorption at the buried hematite/solution interface investigated using total internal reflection (TIR)-Raman spectroscopy. <i>Journal of Colloid and Interface Science</i> , 2013, 400, 140-146.	5.0	15
22	Trace-level perchlorate analysis of impacted groundwater by elevated gold ellipse dimer nanoantenna surface-enhanced Raman scattering. <i>Journal of Raman Spectroscopy</i> , 2017, 48, 518-524.	1.2	15
23	Sulfate Adsorption at the Buried Fluorite-Solution Interface Revealed by Vibrational Sum Frequency Generation Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2012, 116, 9085-9091.	1.5	14
24	Fluorescence spectroscopy of ancient sedimentary organic matter via confocal laser scanning microscopy (CLSM). <i>International Journal of Coal Geology</i> , 2020, 223, 103445.	1.9	9
25	Energetics of Salt-Bearing Sodalites, Na <sub>8</sub> Al <sub>6</sub> Si <sub>6</sub> O <sub>24</sub> X <sub>2</sub> (X = SO <sub>4</sub> , Cl, NO <sub>3</sub> , CO <sub>3</sub> , NH <sub>4</sub> ), <i>Earth and Space Chemistry</i> , 2020, 4, 2153-2161.	1.2	9
26	1,2-Dichlorohexafluoro-cyclobutane (1,2-d-C <sub>4</sub> F <sub>6</sub> Cl <sub>2</sub> , R-316c) a Potent Ozone Depleting Substance and Greenhouse Gas: Atmospheric Loss Processes, Lifetimes, and Ozone Depletion and Global Warming Potentials for the ( <i>E</i> ) and ( <i>Z</i> ) Stereoisomers. <i>Journal of Physical Chemistry A</i> , 2013, 117, 11049-11065.	1.1	8
27	Characterization of iron oxide nanoparticle films at the air-water interface in Arctic tundra waters. <i>Science of the Total Environment</i> , 2018, 633, 1460-1468.	3.9	8
28	Effect of copper salts on hydrothermal oxidative decarboxylation: a study of phenylacetic acid. <i>Chemical Communications</i> , 2020, 56, 2791-2794.	2.2	8
29	Maturation study of vitrinite in carbonaceous shales and coals: Insights from hydrous pyrolysis. <i>International Journal of Coal Geology</i> , 2022, 259, 104044.	1.9	8
30	An atmospheric photochemical source of the persistent greenhouse gas CF <sub>4</sub> . <i>Geophysical Research Letters</i> , 2015, 42, 9505-9511.	1.5	7
31	Examination of inertinite within immature Eagle Ford Shale at the nanometer-scale using atomic force microscopy-based infrared spectroscopy. <i>International Journal of Coal Geology</i> , 2020, 231, 103608.	1.9	7
32	Exploring Methane Behavior in Marcellus Shale Micropores via Contrast Matching Neutron Scattering. <i>Energy &amp; Fuels</i> , 2020, 34, 10926-10932.	2.5	7
33	Methyl-Perfluoroheptene-Ethers (CH <sub>3</sub> OC <sub>7</sub> F <sub>13</sub> ): Measured OH Radical Reaction Rate Coefficients for Several Isomers and Enantiomers and Their Atmospheric Lifetimes and Global Warming Potentials. <i>Environmental Science &amp; Technology</i> , 2014, 48, 4954-4962.	4.6	6
34	Evaluating aromatization of solid bitumen generated in the presence and absence of water: Implications for solid bitumen reflectance as a thermal proxy. <i>International Journal of Coal Geology</i> , 2022, 258, 104016.	1.9	6
35	Photoluminescence Imaging of Whole Zircon Grains on a Petrographic Microscope—An Underused Aide for Geochronologic Studies. <i>Minerals (Basel, Switzerland)</i> , 2020, 10, 876.	0.8	5
36	Impacts of Mineralogical Variation on CO <sub>2</sub> Behavior in Small Pores from Producing Intervals of the Marcellus Shale: Results from Neutron Scattering. <i>Energy &amp; Fuels</i> , 2020, 34, 2765-2771.	2.5	5

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37	Water-rock interaction and the concentrations of major, trace, and rare earth elements in hydrocarbon-associated produced waters of the United States. <i>Environmental Sciences: Processes and Impacts</i> , 2021, 23, 1198-1219.	1.7	5
38	Simultaneous in situ Kelvin probe and Raman spectroscopy analysis of electrode potentials and molecular structures at polymer covered salt layers on steel. <i>Electrochimica Acta</i> , 2012, 83, 327-334.	2.6	4
39	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.	3.9	4
40	A simultaneous Kelvin Probe and Raman spectroscopy approach for in situ surface and interface analysis. <i>Electrochimica Acta</i> , 2012, 76, 34-42.	2.6	3
41	Hydrous heating experiments at 130°C yield insights into the occurrence of hydrogen sulfide and light alkanes in natural gas reservoirs. <i>Organic Geochemistry</i> , 2019, 137, 103901.	0.9	3
42	Machine Learning Can Assign Geologic Basin to Produced Water Samples Using Major Ion Geochemistry. <i>Natural Resources Research</i> , 2021, 30, 4147-4163.	2.2	3
43	Repetitive Sampling and Control Threshold Improve 16S rRNA Gene Sequencing Results From Produced Waters Associated With Hydraulically Fractured Shale. <i>Frontiers in Microbiology</i> , 2020, 11, 536978.	1.5	2
44	Direct Trace Element Determination in Oil and Gas Produced Waters with Inductively Coupled Plasma-Optical Emission Spectrometry: Advantages of High Salinity Tolerance. <i>Geostandards and Geoanalytical Research</i> , 2020, 44, 385-397.	1.7	2
45	Laser Effects on Volta Potential Transients Recorded by a Kelvin Probe. <i>ECS Electrochemistry Letters</i> , 2013, 2, H19-H21.	1.9	1
46	Correlative Petrographic and Spectroscopic Characterization of Boquillas Shale Samples Before and After Hydrous Pyrolysis: Understanding Diagenesis and Thermogenesis as it Relates to Storage and Expulsion. <i>Microscopy and Microanalysis</i> , 2019, 25, 2426-2427.	0.2	0