

Odeta Qafoku

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4763683/publications.pdf>

Version: 2024-02-01

74
papers

2,127
citations

279701

23
h-index

254106

43
g-index

74
all docs

74
docs citations

74
times ranked

2232
citing authors

#	ARTICLE	IF	CITATIONS
1	Fluorescence spectroscopy of U(VI)-silicates and U(VI)-contaminated Hanford sediment. <i>Geochimica Et Cosmochimica Acta</i> , 2005, 69, 1391-1403.	1.6	136
2	<i>In Situ</i> Molecular Spectroscopic Evidence for CO ₂ Intercalation into Montmorillonite in Supercritical Carbon Dioxide. <i>Langmuir</i> , 2012, 28, 7125-7128.	1.6	117
3	Field Validation of Supercritical CO ₂ Reactivity with Basalts. <i>Environmental Science and Technology Letters</i> , 2017, 4, 6-10.	3.9	117
4	Dissolution of uranyl microprecipitates in subsurface sediments at Hanford Site, USA. <i>Geochimica Et Cosmochimica Acta</i> , 2004, 68, 4519-4537.	1.6	110
5	Chromium speciation and mobility in a high level nuclear waste vadose zone plume. <i>Geochimica Et Cosmochimica Acta</i> , 2004, 68, 13-30.	1.6	103
6	Facet-Specific Photocatalytic Degradation of Organics by Heterogeneous Fenton Chemistry on Hematite Nanoparticles. <i>Environmental Science & Technology</i> , 2019, 53, 10197-10207.	4.6	101
7	Reaction of water-saturated supercritical CO ₂ with forsterite: Evidence for magnesite formation at low temperatures. <i>Geochimica Et Cosmochimica Acta</i> , 2012, 91, 271-282.	1.6	97
8	CO ₂ Sorption to Subsingle Hydration Layer Montmorillonite Clay Studied by Excess Sorption and Neutron Diffraction Measurements. <i>Environmental Science & Technology</i> , 2013, 47, 205-211.	4.6	96
9	In Situ X-ray Diffraction Study of Na ⁺ Saturated Montmorillonite Exposed to Variably Wet Super Critical CO ₂ . <i>Environmental Science & Technology</i> , 2012, 46, 4241-4248.	4.6	89
10	Labile Fe(III) from sorbed Fe(II) oxidation is the key intermediate in Fe(II)-catalyzed ferrihydrite transformation. <i>Geochimica Et Cosmochimica Acta</i> , 2020, 272, 105-120.	1.6	72
11	Effect of Temperature on Cs Sorption and Desorption in Subsurface Sediments at the Hanford Site, U.S.A.. <i>Environmental Science & Technology</i> , 2003, 37, 2640-2645.	4.6	66
12	Fayalite dissolution and siderite formation in water-saturated supercritical CO ₂ . <i>Chemical Geology</i> , 2012, 332-333, 124-135.	1.4	51
13	Cancrinite and sodalite formation in the presence of cesium, potassium, magnesium, calcium and strontium in Hanford tank waste simulants. <i>Applied Geochemistry</i> , 2006, 21, 2049-2063.	1.4	50
14	Evidence for Carbonate Surface Complexation during Forsterite Carbonation in Wet Supercritical Carbon Dioxide. <i>Langmuir</i> , 2015, 31, 7533-7543.	1.6	47
15	Impact of Particle Generation Method on the Apparent Hygroscopicity of Insoluble Mineral Particles. <i>Aerosol Science and Technology</i> , 2010, 44, 830-846.	1.5	44
16	Trace Uranium Partitioning in a Multiphase Nano-FeOOH System. <i>Environmental Science & Technology</i> , 2017, 51, 4970-4977.	4.6	44
17	Heterogeneous Reduction of PuO ₂ with Fe(II): Importance of the Fe(III) Reaction Product. <i>Environmental Science & Technology</i> , 2011, 45, 3952-3958.	4.6	38
18	The Effect of pH and Time on the Extractability and Speciation of Uranium(VI) Sorbed to SiO ₂ . <i>Environmental Science & Technology</i> , 2012, 46, 6604-6611.	4.6	38

#	ARTICLE	IF	CITATIONS
19	Tc(VII) and Cr(VI) Interaction with Naturally Reduced Ferruginous Smectite from a Redox Transition Zone. <i>Environmental Science & Technology</i> , 2017, 51, 9042-9052.	4.6	38
20	Formation of submicron magnesite during reaction of natural forsterite in H ₂ O-saturated supercritical CO ₂ . <i>Geochimica Et Cosmochimica Acta</i> , 2014, 134, 197-209.	1.6	36
21	Size dependent microbial oxidation and reduction of magnetite nano- and micro-particles. <i>Scientific Reports</i> , 2016, 6, 30969.	1.6	34
22	Soil pore network response to freeze-thaw cycles in permafrost aggregates. <i>Geoderma</i> , 2022, 411, 115674.	2.3	30
23	Dynamics of Magnesite Formation at Low Temperature and High pCO ₂ in Aqueous Solution. <i>Environmental Science & Technology</i> , 2015, 49, 10736-10744.	4.6	25
24	A coupled microscopy approach to assess the nano-landscape of weathering. <i>Scientific Reports</i> , 2019, 9, 5377.	1.6	25
25	Ab initio thermodynamics of magnesium carbonates and hydrates in water-saturated supercritical CO ₂ and CO ₂ -rich regions. <i>Chemical Geology</i> , 2016, 434, 1-11.	1.4	23
26	Critical Water Coverage during Forsterite Carbonation in Thin Water Films: Activating Dissolution and Mass Transport. <i>Environmental Science & Technology</i> , 2020, 54, 6888-6899.	4.6	22
27	Surface-Catalyzed Oxygen Exchange during Mineral Carbonation in Nanoscale Water Films. <i>Journal of Physical Chemistry C</i> , 2019, 123, 12871-12885.	1.5	21
28	Nanoscale observations of Fe(II)-induced ferrihydrite transformation. <i>Environmental Science: Nano</i> , 2020, 7, 2953-2967.	2.2	21
29	In Situ Spectrophotometric Determination of pH under Geologic CO ₂ Sequestration Conditions: Method Development and Application. <i>Environmental Science & Technology</i> , 2013, 47, 63-70.	4.6	20
30	Association of Defects and Zinc in Hematite. <i>Environmental Science & Technology</i> , 2019, 53, 13687-13694.	4.6	20
31	Synthesis of nanometer-sized fayalite and magnesium-iron(II) mixture olivines. <i>Journal of Colloid and Interface Science</i> , 2018, 515, 129-138.	5.0	19
32	Ion-ion interactions enhance aluminum solubility in alkaline suspensions of nano-gibbsite (Al(OH) ₃) with sodium nitrite/nitrate. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 4368-4378.	1.3	19
33	Hybrid Sorbents for ¹²⁹ I Capture from Contaminated Groundwater. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 26113-26126.	4.0	19
34	Heterogeneous growth of cadmium and cobalt carbonate phases at the $\text{Al}(\text{OH})_3$ calcite surface. <i>Chemical Geology</i> , 2015, 397, 24-36.	1.4	18
35	Role of Fe(II) Content in Olivine Carbonation in Wet Supercritical CO ₂ . <i>Environmental Science and Technology Letters</i> , 2019, 6, 592-599.	3.9	18
36	Manganese-calcium intermixing facilitates heteroepitaxial growth at the calcite-water interface. <i>Chemical Geology</i> , 2017, 470, 152-163.	1.4	17

#	ARTICLE	IF	CITATIONS
37	Techneium and iodine aqueous species immobilization and transformations in the presence of strong reductants and calcite-forming solutions: Remedial action implications. <i>Science of the Total Environment</i> , 2018, 636, 588-595.	3.9	17
38	Low temperature and limited water activity reveal a pathway to magnesite via amorphous magnesium carbonate. <i>Chemical Communications</i> , 2020, 56, 12154-12157.	2.2	17
39	Enhancing magnesite formation at low temperature and high CO ₂ pressure: The impact of seed crystals and minor components. <i>Chemical Geology</i> , 2015, 395, 119-125.	1.4	16
40	Element mobilization and immobilization from carbonate rocks between CO ₂ storage reservoirs and the overlying aquifers during a potential CO ₂ leakage. <i>Chemosphere</i> , 2018, 197, 399-410.	4.2	16
41	Water Structure Controls Carbonic Acid Formation in Adsorbed Water Films. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 4988-4994.	2.1	16
42	Evaluation of materials for iodine and technetium immobilization through sorption and redox-driven processes. <i>Science of the Total Environment</i> , 2020, 716, 136167.	3.9	16
43	Development of Accurate Chemical Equilibrium Models for Oxalate Species to High Ionic Strength in the System: Na ⁺ Ba ²⁺ Ca ²⁺ Mn ²⁺ Sr ²⁺ Cl ⁻ NO ₃ ⁻ PO ₄ ³⁻ SO ₄ ²⁻ H ₂ O at 25 °C. <i>Journal of Solution Chemistry</i> , 2007, 36, 81-95.	0.6	15
44	An Aqueous Thermodynamic Model for the Complexation of Nickel with EDTA Valid to High Base Concentration. <i>Journal of Solution Chemistry</i> , 2004, 33, 1161-1180.	0.6	12
45	A Potentiometric, Spectrophotometric and Pitzer Ion-Interaction Study of Reaction Equilibria in the Aqueous H ⁺ -Al ³⁺ , H ⁺ -Oxalate and H ⁺ -Al ³⁺ -Oxalate Systems up to 5 mol·dm ⁻³ NaCl. <i>Journal of Solution Chemistry</i> , 2007, 36, 1727-1743.	0.6	12
46	Thermodynamic Model for the Solubility of TcO ₂ ·xH ₂ O in Aqueous Oxalate Systems. <i>Journal of Solution Chemistry</i> , 2008, 37, 1471-1487.	0.6	12
47	The effect of ion irradiation on the dissolution of UO ₂ and UO ₂ -based simulant fuel. <i>Journal of Alloys and Compounds</i> , 2018, 735, 1350-1356.	2.8	12
48	Microbe-Encapsulated Silica Gel Biosorbents for Selective Extraction of Scandium from Coal Byproducts. <i>Environmental Science & Technology</i> , 2021, 55, 6320-6328.	4.6	12
49	Uranium Redistribution Due to Water Table Fluctuations in Sandy Wetland Mesocosms. <i>Environmental Science & Technology</i> , 2015, 49, 12214-12222.	4.6	11
50	Can mineral growth by oriented attachment lead to incorporation of uranium(vi) into the structure of goethite?. <i>Environmental Science: Nano</i> , 2019, 6, 3000-3009.	2.2	10
51	Fe-solid phase transformations under highly basic conditions. <i>Applied Geochemistry</i> , 2007, 22, 2054-2064.	1.4	8
52	Characterizing Technetium in Subsurface Sediments for Contaminant Remediation. <i>ACS Earth and Space Chemistry</i> , 2018, 2, 1145-1160.	1.2	8
53	Radiation-Induced Interfacial Hydroxyl Transformation on Boehmite and Gibbsite Basal Surfaces. <i>Journal of Physical Chemistry C</i> , 2020, 124, 22185-22191.	1.5	8
54	Controls on Soluble Pu Concentrations in PuO ₂ /Magnetite Suspensions. <i>Environmental Science & Technology</i> , 2012, 46, 11610-11617.	4.6	7

#	ARTICLE	IF	CITATIONS
55	In Situ Natural Abundance ¹⁷ O and ²⁵ Mg NMR Investigation of Aqueous Mg(OH) ₂ Dissolution in the Presence of Supercritical CO ₂ . Environmental Science & Technology, 2016, 50, 12373-12384.	4.6	7
56	Enhanced Transport of TiO ₂ in Unsaturated Sand and Soil after Release from Biodegradable Plastic during Composting. Environmental Science & Technology, 2022, 56, 2398-2406.	4.6	6
57	Deciphering the Incipient Phases of Ice-Mineral Interactions as a Precursor of Physical Weathering. ACS Earth and Space Chemistry, 2021, 5, 1233-1241.	1.2	5
58	Simultaneous immobilization of aqueous co-contaminants using a bismuth layered material. Journal of Environmental Radioactivity, 2021, 237, 106711.	0.9	5
59	Cluster defects in gibbsite nanoplates grown at acidic to neutral pH. Nanoscale, 2021, 13, 17373-17385.	2.8	5
60	Atomic Force Microscopy and Infrared Nanospectroscopy of COVID-19 Spike Protein for the Quantification of Adhesion to Common Surfaces. Langmuir, 2021, 37, 12089-12097.	1.6	5
61	Bacterial Productivity in a Ferrocyanide-Contaminated Aquifer at a Nuclear Waste Site. Water (Switzerland), 2018, 10, 1072.	1.2	4
62	Deciphering the Distribution and Crystal-Chemical Environment of Arsenic, Lead, Silica, Phosphorus, Tin, and Zinc in a Porous Ferrihydrite Grain Using Transmission Electron Microscopy and Atom Probe Tomography. ACS Earth and Space Chemistry, 2022, 6, 558-570.	1.2	4
63	Selective Interactions of Soil Organic Matter Compounds with Calcite and the Role of Aqueous Ca. ACS Earth and Space Chemistry, 0, , .	1.2	4
64	A Correlative Bimodal Surface Imaging Method to Assess Hyphae-Rock Interactions.. Microscopy and Microanalysis, 2019, 25, 2436-2437.	0.2	3
65	Synergistic Coupling of CO ₂ and H ₂ O during Expansion of Clays in Supercritical CO ₂ -CH ₄ Fluid Mixtures. Environmental Science & Technology, 2021, 55, 11192-11203.	4.6	3
66	Fungal hyphae develop where titanomagnetite inclusions reach the surface of basalt grains. Scientific Reports, 2022, 12, 3407.	1.6	3
67	Title is missing!. Journal of Solution Chemistry, 2003, 32, 301-318.	0.6	2
68	Water-dispersible nanocolloids and higher temperatures promote the release of carbon from riparian soil. Vadose Zone Journal, 2020, 19, e20077.	1.3	2
69	Elemental iron: reduction of pertechnetate in the presence of silica and periodicity of precipitated nano-structures. Environmental Science: Nano, 2021, 8, 97-109.	2.2	2
70	Atom probe tomography and transmission electron microscopy: a powerful combination to characterize the speciation and distribution of Cu in organic matter. Environmental Sciences: Processes and Impacts, 0, , .	1.7	1
71	Mineral Surface Transformations by Ice Nucleation. Microscopy and Microanalysis, 2019, 25, 2464-2465.	0.2	0
72	Macro to Nanoscale Approaches to Study Mineral Transformations at the Liquid, Organic, Biological Interface.. Microscopy and Microanalysis, 2020, 26, 1568-1569.	0.2	0

#	ARTICLE	IF	CITATIONS
73	Utilizing Correlative Imaging Approaches with ToF-SIMS Expands Our Biochemical Interpretation Abilities Across Biological Kingdoms. <i>Microscopy and Microanalysis</i> , 2020, 26, 2508-2508.	0.2	0
74	Characterizing the localization of organic C on mineral surfaces: a correlative microscopy/spectroscopy approach. <i>Microscopy and Microanalysis</i> , 2021, 27, 306-307.	0.2	0