Jerome Sterpenich

List of Publications by Year
in descending order

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38 papers	774 citations	623574 14 h-index	526166 27 g-index
39 all docs	39 docs citations	39 times ranked	807 citing authors

#	Article	IF	Citations
1	Using stained glass windows to understand the durability of toxic waste matrices. Chemical Geology, 2001, 174, 181-193.	1.4	104
2	Elemental and isotopic (29Si and 18O) tracing of glass alteration mechanisms. Geochimica Et Cosmochimica Acta, 2010, 74, 3412-3431.	1.6	103
3	Experimental ageing of oolitic limestones under CO2 storage conditions. Chemical Geology, 2009, 265, 99-112.	1.4	67
4	Water diffusion in silicate glasses under natural weathering conditions: evidence from buried medieval stained glasses. Journal of Non-Crystalline Solids, 2006, 352, 5446-5451.	1.5	59
5	The use of natural and archeological analogues for understanding the long-term behavior of nuclear glasses. Comptes Rendus - Geoscience, 2011, 343, 237-245.	0.4	56
6	Modelling of Liquid-Vapour Equilibria in the H2O-CO2-Nacl and H2O-H2S-NaCl Systems to 270Â°C. Oil and Gas Science and Technology, 2005, 60, 339-355.	1.4	43
7	Experimental determination of CO₂ diffusion coefficient in aqueous solutions under pressure at room temperature via Raman spectroscopy: impact of salinity (NaCl). Journal of Raman Spectroscopy, 2015, 46, 1025-1032.	1.2	31
8	Impact of Co-injected Gases on CO2 Storage Sites: Geochemical Modeling of Experimental Results. Energy Procedia, 2013, 37, 3699-3710.	1.8	30
9	Measuring mutual solubility in the H 2 Oâ€“CO 2 system up to 200 bar and 100 Â°C by in situ Raman spectroscopy. International Journal of Greenhouse Gas Control, 2016, 47, 63-70.	2.3	28
10	Geochemical effects of an oxycombustion stream containing SO2 and O2 on carbonate rocks in the context of CO2 storage. Chemical Geology, 2014, 382, 140-152.	1.4	25
11	Geochemical study of the reactivity of a carbonate rock in a geological storage of CO2 : Implications of co-injected gases. Energy Procedia, 2011, 4, 5364-5369.	1.8	22
12	Role of Impurities on CO2 Injection: Experimental and Numerical Simulations of Thermodynamic Properties of Water-salt-gas Mixtures (CO2 + Co-injected Gases) Under Geological Storage Conditions. Energy Procedia, 2013, 37, 3638-3645.	1.8	21
13	Diagenesis in Mesozoic carbonate rocks in the North PyrÃ©nÃ©es (France) from mineralogy and fluid inclusion analysis: Example of Rousse reservoir and caprock. Chemical Geology, 2019, 508, 30-46.	1.4	16
14	Experimental Study of Pyrite Oxidation at 100 Â°C: Implications for Deep Geological Radwaste Repository in Claystone. Minerals (Basel, Switzerland), 2019, 9, 427.	0.8	16
15	Experimental simulation of the impact of a thermal gradient during geological sequestration of CO2: The COTAGES experiment. International Journal of Greenhouse Gas Control, 2013, 12, 56-71.	2.3	13
16	Experimental study of CO₂ injection in a simulated injection well: the MIRAGES experiment. , 2014, 4, 210-224.		13
17	Main Results of the CO2-DISSOLVED Project: First Step toward a Future Industrial Pilot Combining Geological Storage of Dissolved CO2 and Geothermal Heat Recovery. Energy Procedia, 2017, 114, 4086-4098.	1.8	11
18	Metals and radionuclides (MaR) in the Alum Shale of Denmark: Identification of MaR-bearing phases for the better management of hydraulic fracturing waters. Journal of Natural Gas Science and Engineering, 2018, 53, 139-152.	2.1	11

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19	Simulations of the Impact of Co-injected Gases on CO2 Storage, the SIGARRR Project: First Results on Water-gas Interactions Modeling. Energy Procedia, 2014, 63, 3160-3171.	1.8	10
20	CO2-DISSOLVED: a Novel Concept Coupling Geological Storage of Dissolved CO2 and Geothermal Heat Recovery â€“ Part 3: Design of the MIRAGES-2 Experimental Device Dedicated to the Study of the Geochemical Water-Rock Interactions Triggered by CO2 Laden Brine Injection.. Energy Procedia, 2014, 63, 4536-4547.	1.8	9
21	Advances in 3D imaging and volumetric reconstruction of fluid and melt inclusions by high resolution X-ray computed tomography. Chemical Geology, 2019, 508, 3-14.	1.4	9
22	Cristallochimie des produits d'altÃ©ration des vitraux mÃ©diÃ©vaux: application au vieillissement des dÃ©chets vitrifiÃ©s. Bulletin of Engineering Geology and the Environment, 2002, 61, 179-193.	1.6	8
23	Thermodynamic Analysis of Organic/Inorganic Reactions Involving Sulfur: Implications for the Sequestration of H2s in Carbonate Reservoirs. Oil and Gas Science and Technology, 2005, 60, 275-285.	1.4	8
24	Experimental Modelling of the Caprock/Cement Interface Behaviour under CO2 Storage Conditions: Effect of Water and Supercritical CO2 from a Cathodoluminescence Study. Geosciences (Switzerland), 2018, 8, 185.	1.0	8
25	Experimental Mutual Solubilities of CO2 and H2O in Pure Water and NaCl Solutions. Energy Procedia, 2017, 114, 4851-4856.	1.8	7
26	CO2 flow baseline: Key factors of the geochemical monitoring program of future CO2 storage at claye-souilly (Paris basin). Energy Procedia, 2011, 4, 5438-5446.	1.8	6
27	Structural Control of a Dissolution Network in a Limestone Reservoir Forced by Radial Injection of CO2 Saturated Solution: Experimental Results Coupled with X-ray Computed Tomography. Geosciences (Switzerland), 2019, 9, 33.	1.0	6
28	Crystal-chemistry of alteration products of vitrified wastes: Implications on the retention of polluting elements. Waste Management, 2008, 28, 120-132.	3.7	5
29	CO2 Storage from Blast Furnace in the Triassic Sandstones of Lorraine, (Eastern Paris Basin, France): an experimental study. Energy Procedia, 2013, 37, 5315-5322.	1.8	5
30	Simulations of the Impact of Co-injected Gases on CO2 Storage, the SIGARRR Project: Processes and Geochemical Approaches for Gas-water-Salt Interactions Modeling. Energy Procedia, 2017, 114, 3322-3334.	1.8	5
31	The Effect of the Starting Mineralogical Mixture on the Nature of Fe-Serpentines Obtained during Hydrothermal Synthesis AT 90Â°C. Clays and Clay Minerals, 2020, 68, 394-412.	0.6	4
32	Dehydration of Gypsum Under Dry CO2 Injection. Energy Procedia, 2013, 37, 4575-4582.	1.8	3
33	NO solubility in water and brine up to 60ÂMPa and 373ÂK by combining Raman spectroscopy and molecular simulation. Journal of Raman Spectroscopy, 2022, 53, 645-653.	1.2	3
34	Geochemistry of Aquifer in Contact with Alum Shale: Evidence of Limited Contaminant Transfers. Procedia Earth and Planetary Science, 2017, 17, 786-789.	0.6	2
35	Experimental and Numerical Simulation of the Injection of a CO2 Saturated Solution in a Carbonate Reservoir: Application to the CO2-DISSOLVED Concept Combining CO2 Geological Storage and Geothermal Heat Recovery. Energy Procedia, 2017, 114, 2942-2956.	1.8	2
36	Experimental study of chemical evolution and isotope fractionation of Cl and Br in pore water expelled during strong clay compaction. Applied Geochemistry, 2022, 140, 105274.	1.4	2

#	Article	IF	Citations
37	Study of SO2/water and NO/water/salt systems from 25 to 150 Â°C using fused silica capillaries, batch autoclave and Raman microspectrometry. Energy Procedia, 2014, 63, 3775-3781.	1.8	0
38	Review of W. Heinrich and R. Abart (eds.) (2017): Mineral reaction kinetics: microstructures, textures, chemical and isotope signatures. EMU Notes in Mineralogy, 16. European Journal of Mineralogy, 2019, 31, 193-194.	0.4	0