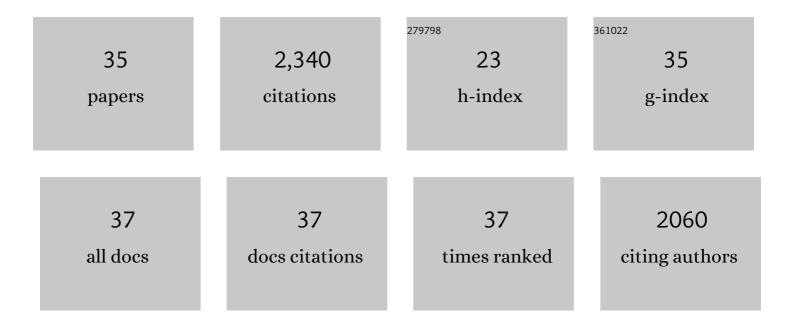
Sergi Molins

List of Publications by Year in descending order

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SERCI MOUNS

#	Article	IF	CITATIONS
1	Investigation of Coupled Processes in Fractures and the Bordering Matrix via a Micro ontinuum Reactive Transport Model. Water Resources Research, 2022, 58, .	4.2	12
2	The Effect of Pore-Scale Two-Phase Flow on Mineral Reaction Rates. Frontiers in Water, 2022, 3, .	2.3	2
3	A reactive transport modeling perspective on the dynamics of interface-coupled dissolution-precipitation. Applied Geochemistry, 2022, 137, 105207.	3.0	14
4	Reactive transport modeling for supporting climate resilience at groundwater contamination sites. Hydrology and Earth System Sciences, 2022, 26, 755-773.	4.9	2
5	Simulation of mineral dissolution at the pore scale with evolving fluid-solid interfaces: review of approaches and benchmark problem set. Computational Geosciences, 2021, 25, 1285-1318.	2.4	72
6	Hyperbolic Reformulation Approach to Enable Efficient Simulation of Groundwater Flow and Reactive Transport. Environmental Engineering Science, 2021, 38, 181-191.	1.6	1
7	A Poreâ€6cale Investigation of Mineral Precipitation Driven Diffusivity Change at the Columnâ€6cale. Water Resources Research, 2021, 57, e2020WR028483.	4.2	19
8	Wavelet-based local mesh refinement for rainfall–runoff simulations. Journal of Hydroinformatics, 2020, 22, 1059-1077.	2.4	14
9	Multiscale Approaches in Reactive Transport Modeling. Reviews in Mineralogy and Geochemistry, 2019, 85, 27-48.	4.8	45
10	Multi-scale Model of Reactive Transport in Fractured Media: Diffusion Limitations on Rates. Transport in Porous Media, 2019, 128, 701-721.	2.6	32
11	Fracture Evolution in Multimineral Systems: The Role of Mineral Composition, Flow Rate, and Fracture Aperture Heterogeneity. ACS Earth and Space Chemistry, 2018, 2, 112-124.	2.7	49
12	Pore-scale numerical investigation of the impacts of surface roughness: Upscaling of reaction rates in rough fractures. Geochimica Et Cosmochimica Acta, 2018, 239, 374-389.	3.9	79
13	Experimental studies and model analysis of noble gas fractionation in low-permeability porous media. Geochimica Et Cosmochimica Acta, 2017, 205, 149-167.	3.9	7
14	Mineralogical and transport controls on the evolution of porous media texture using direct numerical simulation. Water Resources Research, 2017, 53, 3645-3661.	4.2	49
15	Reoxidation of Chromium(III) Products Formed under Different Biogeochemical Regimes. Environmental Science & Technology, 2017, 51, 4918-4927.	10.0	60
16	Alteration and Erosion of Rock Matrix Bordering a Carbonate-Rich Shale Fracture. Environmental Science & Technology, 2017, 51, 8861-8868.	10.0	50
17	A 2.5D Reactive Transport Model for Fracture Alteration Simulation. Environmental Science & Technology, 2016, 50, 7564-7571.	10.0	79
18	Reactive Transport Model of Sulfur Cycling as Impacted by Perchlorate and Nitrate Treatments. Environmental Science & Technology, 2016, 50, 7010-7018.	10.0	45

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#	Article	IF	CITATIONS
19	Determination of mineral dissolution regimes using flow-through time-resolved analysis (FT-TRA) and numerical simulation. Chemical Geology, 2016, 430, 1-12.	3.3	18
20	Influence of hydrological, biogeochemical and temperature transients on subsurface carbon fluxes in a flood plain environment. Biogeochemistry, 2016, 127, 367-396.	3.5	76
21	A benchmark for microbially mediated chromium reduction under denitrifying conditions in a biostimulation column experiment. Computational Geosciences, 2015, 19, 479-496.	2.4	10
22	ParCrunchFlow: an efficient, parallel reactive transport simulation tool for physically and chemically heterogeneous saturated subsurface environments. Computational Geosciences, 2015, 19, 403-422.	2.4	39
23	Reactive Interfaces in Direct Numerical Simulation of Pore-Scale Processes. Reviews in Mineralogy and Geochemistry, 2015, 80, 461-481.	4.8	58
24	Reactive transport codes for subsurface environmental simulation. Computational Geosciences, 2015, 19, 445-478.	2.4	566
25	High-Resolution Simulation of Pore-Scale Reactive Transport Processes Associated with Carbon Sequestration. Computing in Science and Engineering, 2014, 16, 22-31.	1.2	51
26	Pore-Scale Controls on Calcite Dissolution Rates from Flow-through Laboratory and Numerical Experiments. Environmental Science & Technology, 2014, 48, 7453-7460.	10.0	154
27	Divergent Aquifer Biogeochemical Systems Converge on Similar and Unexpected Cr(VI) Reduction Products. Environmental Science & Technology, 2014, 48, 10699-10706.	10.0	24
28	Pore Scale Processes Associated with Subsurface CO2 Injection and Sequestration. Reviews in Mineralogy and Geochemistry, 2013, 77, 259-303.	4.8	83
29	Timing the Onset of Sulfate Reduction over Multiple Subsurface Acetate Amendments by Measurement and Modeling of Sulfur Isotope Fractionation. Environmental Science & Technology, 2012, 46, 8895-8902.	10.0	66
30	An investigation of the effect of pore scale flow on average geochemical reaction rates using direct numerical simulation. Water Resources Research, 2012, 48, .	4.2	238
31	Reactive Transport Modeling in Variably Saturated Media with MIN3P: Basic Model Formulation and Model Enhancements. , 2012, , 186-211.		15
32	Vadose zone attenuation of organic compounds at a crude oil spill site — Interactions between biogeochemical reactions and multicomponent gas transport. Journal of Contaminant Hydrology, 2010, 112, 15-29.	3.3	86
33	Transport and Reaction Processes Affecting the Attenuation of Landfill Gas in Cover Soils. Journal of Environmental Quality, 2008, 37, 459-468.	2.0	49
34	Coupling between geochemical reactions and multicomponent gas and solute transport in unsaturated media: A reactive transport modeling study. Water Resources Research, 2007, 43, .	4.2	100
35	A formulation for decoupling components in reactive transport problems. Water Resources Research, 2004, 40, .	4.2	63