Paolo Trinchero

List of Publications by Year
in descending order

29	501	759233 12	677142 22
papers	citations	h-index	g-index

30	30	30	515
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Interface COMSOL-PHREEQC (iCP), an efficient numerical framework for the solution of coupled multiphysics and geochemistry. Computers and Geosciences, 2014, 69, 10-21.	4.2	93
2	Probabilistic risk analysis of groundwater remediation strategies. Water Resources Research, 2009, 45, .	4.2	72
3	Point-to-point connectivity, an abstract concept or a key issue for risk assessment studies?. Advances in Water Resources, 2008, 31, 1742-1753.	3.8	50
4	A New Method for the Interpretation of Pumping Tests in Leaky Aquifers. Ground Water, 2008, 46, 133-143.	1.3	27
5	Inferring spatial distribution of the radially integrated transmissivity from pumping tests in heterogeneous confined aquifers. Water Resources Research, 2011, 47, .	4.2	26
6	Modelling radionuclide transport in fractured media with a dynamic update of Kd values. Computers and Geosciences, 2016, 86, 55-63.	4.2	21
7	Conditional stochastic mapping of transport connectivity. Water Resources Research, 2010, 46, .	4.2	20
8	Assessing preferential flow through an unsaturated waste rock pile using spectral analysis. Water Resources Research, 2011, 47, .	4.2	19
9	Continuum-based DFN-consistent numerical framework for the simulation of oxygen infiltration into fractured crystalline rocks. Journal of Contaminant Hydrology, 2017, 200, 60-69.	3.3	15
10	Models for the assessment of transport of naturally-occurring nuclides in fractured media. Journal of Hydrology, 2020, 580, 124322.	5.4	15
11	Bayesian estimation of the transmissivity spatial structure from pumping test data. Advances in Water Resources, 2017, 104, 174-182.	3.8	14
12	Implications of Grain-Scale Mineralogical Heterogeneity for Radionuclide Transport in Fractured Media. Transport in Porous Media, 2017, 116, 73-90.	2.6	14
13	Microtomography-based Inter-Granular Network for the simulation of radionuclide diffusion and sorption in a granitic rock. Journal of Contaminant Hydrology, 2017, 207, 8-16.	3.3	13
14	Assessing dual continuum method for multicomponent reactive transport. Computers and Geosciences, 2019, 130, 11-19.	4.2	12
15	A Particleâ€Based Conditional Sampling Scheme for the Simulation of Transport in Fractured Rock With Diffusion Into Stagnant Water and Rock Matrix. Water Resources Research, 2020, 56, e2019WR026958.	4.2	12
16	Influence of heterogeneity on the interpretation of pumping test data in leaky aquifers. Water Resources Research, 2008, 44, .	4.2	11
17	Understanding and modelling dissolved gas transport in the bedrock of three Fennoscandian sites. Journal of Hydrology, 2014, 512, 506-517.	5.4	10
18	Modelling the diffusion-available pore space of an unaltered granitic rock matrix using a micro-DFN approach. Journal of Hydrology, 2018, 559, 182-191.	5.4	8

#	Article	IF	Citations
19	Groundwater age dating in fractured rock using <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si44.svg"><mml:mrow><mml:msup><mml:mrow /><mml:mrow><mml:mn>4</mml:mn></mml:mrow></mml:msup></mml:mrow></mml:math>He data. Journal of Hydrology X, 2019, 4, 100036.	1.6	8
20	Upscaling of radionuclide transport and retention in crystalline rocks exhibiting micro-scale heterogeneity of the rock matrix. Advances in Water Resources, 2020, 142, 103644.	3.8	8
21	Transport of oxygen into granitic rocks: Role of physical and mineralogical heterogeneity. Journal of Contaminant Hydrology, 2019, 220, 108-118.	3.3	7
22	Modelling the water phase diffusion experiment at Onkalo (Finland): Insights into the effect of channeling on radionuclide transport and retention. Journal of Hydrology, 2020, 590, 125399.	5.4	6
23	Waterâ€Mineral Reactions in a Translated Single Realistic Fracture: Consequences for Contaminant Uptake by Matrix Diffusion. Water Resources Research, 2021, 57, e2021WR030442.	4.2	5
24	Predictive Modeling of a Simple Field Matrix Diffusion Experiment Addressing Radionuclide Transport in Fractured Rock. Is It So Straightforward?. Nuclear Technology, 2022, 208, 1059-1073.	1.2	4
25	FASTREACT â€“ An efficient numerical framework for the solution of reactive transport problems. Applied Geochemistry, 2014, 49, 159-167.	3.0	3
26	Simulating Oxygen Intrusion into Highly Heterogeneous Fractured Media Using High Performance Computing. Mathematical Geosciences, 2018, 50, 549-567.	2.4	3
27	Grains, grids and mineral surfaces: approaches to grain-scale matrix modeling based on X-ray micro-computed tomography data. SN Applied Sciences, 2019, 1, 1.	2.9	3
28	Comment on â€œApplication of Analytical Diffusion Models to Outcrop Observations: Implications for Mass Transport by Fluid Flow Through Fracturesâ€•by Antonellini et al. (2017). Water Resources Research, 2018, 54, 9702-9705.	4.2	1
29	Simulating electrochemical migration and anion exclusion in porous and fractured media using PFLOTRAN<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" id="d1e2076" altimg="si141.svg"><mml:msup><mml:mrow /><mml:mrow><mml:mi mathvariant="normal">NP</mml:mi></mml:mrow></mml:msup></mml:math>. Computers and Geosciences, 2022, 166, 105166.	4.2	1