Gary D Couples

List of Publications by Year
in descending order

		840776	752698
23 papers	657 citations	11 h-index	20 g-index
23 all docs	23 docs citations	23 times ranked	686 citing authors

#	Article	IF	Citations
1	3D Stochastic Modelling of Heterogeneous Porous Media – Applications to Reservoir Rocks. Transport in Porous Media, 2006, 65, 443-467.	2.6	194
2	Representation of multiscale heterogeneity via multiscale pore networks. Water Resources Research, 2013, 49, 5437-5449.	4.2	126
3	Fractured reservoirs with fracture corridors. Geophysical Prospecting, 2010, 58, 279-295.	1.9	81
4	Stochastic Pore Network Generation from 3D Rock Images. Transport in Porous Media, 2012, 94, 571-593.	2.6	58
5	Numerical modelling and analysis of reactive flow and wormhole formation in fractured carbonate rocks. Chemical Engineering Science, 2017, 172, 143-157.	3.8	46
6	Fast 4–D Imaging of Fluid Flow in Rock by High–Speed Neutron Tomography. Journal of Geophysical Research: Solid Earth, 2019, 124, 3557-3569.	3.4	24
7	3-D Modelling and Experimental Comparison of Reactive Flow in Carbonates under Radial Flow Conditions. Scientific Reports, 2017, 7, 17711.	3.3	21
8	Advances in the study of naturally fractured hydrocarbon reservoirs: a broad integrated interdisciplinary applied topic. Geological Society Special Publication, 2014, 374, 1-22.	1.3	16
9	A mixed finite element technique based on implicit discretization of faults for permeability upscaling in fault damage zones. Water Resources Research, 2006, 42, .	4.2	14
10	Experimental Investigation of Hydraulic Fracturing and Stress Sensitivity of Fracture Permeability Under Changing Polyaxial Stress Conditions. Journal of Geophysical Research: Solid Earth, 2020, 125, e2020JB020044.	3.4	13
11	Dynamic Fluid Ingress Detection in Geomaterials Using K-Band Frequency Modulated Continuous Wave Radar. IEEE Access, 2020, 8, 111027-111041.	4.2	12
12	Analysis of Sandstone Pore Space Fluid Saturation and Mineralogy Variation via Application of Monostatic K-Band Frequency Modulated Continuous Wave Radar. IEEE Access, 2018, 6, 44376-44389.	4.2	10
13	New Experimental Equipment Recreating Geo-Reservoir Conditions in Large, Fractured, Porous Samples to Investigate Coupled Thermal, Hydraulic and Polyaxial Stress Processes. Scientific Reports, 2018, 8, 14549.	3.3	9
14	An investigation into preserving spatially-distinct pore systems in multi-component rocks using a fossiliferous limestone example. Computers and Geosciences, 2018, 116, 1-11.	4.2	7
15	Effects of interlayer slip in model forced folds. Geological Society Special Publication, 1999, 169, 129-144.	1.3	6
16	Geomechanical simulation to predict open subsurface fractures. Geophysical Prospecting, 2009, 57, 285-299.	1.9	5
17	A general method for simulating reactive dissolution in carbonate rocks with arbitrary geometry. Computational Geosciences, 2018, 22, 1187-1201.	2.4	5
18	Predicting the Effective Gas Flow Properties of Gas Shale, from Nano-Pores to Shale Parasequences. , 2013, , .		4

#	Article	IF	Citations
19	Idealised Discrete Pore-Scale Model of Poro-Elasticity via Closed-Form Analytical Expressions. , 2017, , .		2
20	Phenomenological understanding of poroelasticity via the micromechanics of a simple digital-rock model. Geophysics, 2019, 84, WA161-WA182.	2.6	2
21	Numerical modeling of the fluid flow impact of thin baffle laminae in cross bedding. Water Resources Research, 2008, 44, .	4.2	1
22	John Logie Baird and the secret in the box: The undiscovered story behind the world's first public demonstration of television [Scanning Our Past]. Proceedings of the IEEE, 2020, 108, 1371-1382.	21.3	1
23	Geological Tensions in an Idyllic Field. Metascience, 2004, 13, 1-27.	0.3	0