

# G Peter Matthews

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/9451790/publications.pdf>

Version: 2024-02-01

19  
papers

329  
citations

840776

11  
h-index

839539

18  
g-index

20  
all docs

20  
docs citations

20  
times ranked

420  
citing authors

#	ARTICLE	IF	CITATIONS
1	Measurement and simulation of the effect of compaction on the pore structure and saturated hydraulic conductivity of grassland and arable soil. <i>Water Resources Research</i> , 2010, 46, .	4.2	52
2	An improved simulation of void structure, water retention and hydraulic conductivity in soil with the Pore-Cor three-dimensional network. <i>European Journal of Soil Science</i> , 2003, 54, 477-490.	3.9	38
3	Characterisation of the porous structure of Gilsocarbon graphite using pycnometry, cyclic porosimetry and void-network modeling. <i>Carbon</i> , 2014, 73, 61-70.	10.3	30
4	A multi-technique experimental and modelling study of the porous structure of IG-110 and IG-430 nuclear graphite. <i>Carbon</i> , 2018, 128, 1-11.	10.3	29
5	“Hot spots” of N and C impact nitric oxide, nitrous oxide and nitrogen gas emissions from a UK grassland soil. <i>Geoderma</i> , 2017, 305, 336-345.	5.1	28
6	Influence of anisotropy on the dynamic wetting and permeation of paper coatings. <i>Journal of Colloid and Interface Science</i> , 2005, 283, 171-189.	9.4	24
7	Validated a priori calculation of tortuosity in porous materials including sandstone and limestone. <i>Chemical Engineering Science</i> , 2015, 131, 109-117.	3.8	21
8	Diffusion and Tortuosity in Porous Functionalized Calcium Carbonate. <i>Industrial &amp; Engineering Chemistry Research</i> , 2015, 54, 9938-9947.	3.7	17
9	Use of a void network model to correlate porosity, mercury porosimetry, thin section, absolute permeability, and NMR relaxation time data for sandstone rocks. <i>Physical Review E</i> , 2006, 73, 031307.	2.1	16
10	A dual-porous, inverse model of water retention to study biological and hydrological interactions in soil. <i>European Journal of Soil Science</i> , 2013, 64, 345-356.	3.9	14
11	The effect of irradiation and radiolytic oxidation on the porous space of Gilsocarbon nuclear graphite measured with mercury porosimetry and helium pycnometry. <i>Carbon</i> , 2020, 158, 256-266.	10.3	14
12	Organic matter identifies the nano-mechanical properties of native soil aggregates. <i>Nanoscale</i> , 2018, 10, 520-525.	5.6	11
13	Adsorption of surfactant-rich stickies onto mineral surfaces. <i>Journal of Colloid and Interface Science</i> , 2010, 352, 483-490.	9.4	8
14	Mechanism of adsorption of actives onto microporous functionalised calcium carbonate (FCC). <i>Adsorption</i> , 2017, 23, 603-612.	3.0	8
15	Computer modelling of fluid permeation in porous coatings and paper – an overview. <i>Nordic Pulp and Paper Research Journal</i> , 2000, 15, 476-485.	0.7	7
16	The use of porous high surface area calcium carbonate for the adsorption of dissolved and colloidal substances from thermo mechanical pulp filtrates. <i>Nordic Pulp and Paper Research Journal</i> , 2012, 27, 631-638.	0.7	5
17	Improved Interpretation of Mercury Intrusion and Soil Water Retention Percolation Characteristics by Inverse Modelling and Void Cluster Analysis. <i>Transport in Porous Media</i> , 2018, 124, 631-653.	2.6	4
18	Improved isotopic model based on <sup>15</sup> N tracing and Rayleigh-type isotope fractionation for simulating differential sources of N <sub>2</sub> O emissions in a clay grassland soil. <i>Rapid Communications in Mass Spectrometry</i> , 2019, 33, 449-460.	1.5	3

#	ARTICLE	IF	CITATIONS
19	MECHANICAL PULPING: Equilibrium coefficients for the adsorption of colloidal stickies onto mineral suspension particulates to improve paper recycling. Nordic Pulp and Paper Research Journal, 2011, 26, 421-428.	0.7	0