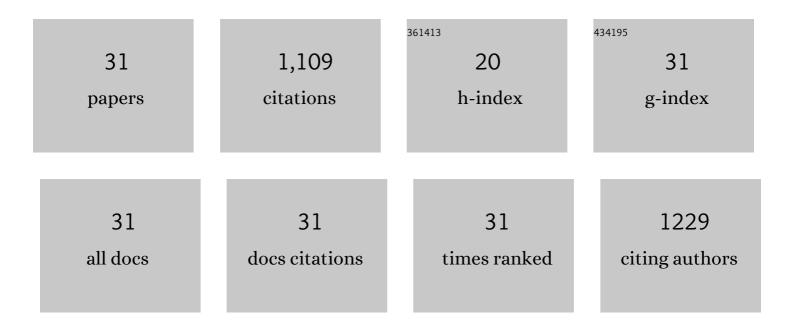
David R Cole

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Microbial metabolisms in a 2.5-km-deep ecosystem created by hydraulic fracturing in shales. Nature Microbiology, 2016, 1, 16146.	13.3	207
2	CO ₂ –C ₄ H ₁₀ Mixtures Simulated in Silica Slit Pores: Relation between Structure and Dynamics. Journal of Physical Chemistry C, 2015, 119, 15274-15284.	3.1	86
3	Coupled laboratory and field investigations resolve microbial interactions that underpin persistence in hydraulically fractured shales. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E6585-E6594.	7.1	69
4	Confined Water Determines Transport Properties of Guest Molecules in Narrow Pores. ACS Nano, 2016, 10, 7646-7656.	14.6	66
5	Sulfide Generation by Dominant <i>Halanaerobium</i> Microorganisms in Hydraulically Fractured Shales. MSphere, 2017, 2, .	2.9	62
6	Pore Size Effects on the Sorption of Supercritical CO ₂ in Mesoporous CPG-10 Silica. Journal of Physical Chemistry C, 2012, 116, 917-922.	3.1	50
7	Microstructural Characterization of Adsorption and Depletion Regimes of Supercritical Fluids in Nanopores. Journal of Physical Chemistry C, 2007, 111, 15736-15742.	3.1	47
8	Propane simulated in silica pores: Adsorption isotherms, molecular structure, and mobility. Chemical Engineering Science, 2015, 121, 292-299.	3.8	43
9	Genome-Resolved Metagenomics Extends the Environmental Distribution of the <i>Verrucomicrobia</i> Phylum to the Deep Terrestrial Subsurface. MSphere, 2019, 4, .	2.9	38
10	Members of Marinobacter and Arcobacter Influence System Biogeochemistry During Early Production of Hydraulically Fractured Natural Gas Wells in the Appalachian Basin. Frontiers in Microbiology, 2018, 9, 2646.	3.5	33
11	Propane–Water Mixtures Confined within Cylindrical Silica Nanopores: Structural and Dynamical Properties Probed by Molecular Dynamics. Langmuir, 2017, 33, 11310-11320.	3.5	30
12	Direct Measurements of Pore Fluid Density by Vibrating Tube Densimetry. Langmuir, 2012, 28, 5070-5078.	3.5	29
13	Dynamics of Propane in Nanoporous Silica Aerogel: A Quasielastic Neutron Scattering Study. Journal of Physical Chemistry C, 2015, 119, 18188-18195.	3.1	29
14	Role of Confinement on Adsorption and Dynamics of Ethane and an Ethane–CO ₂ Mixture in Mesoporous CPG Silica. Journal of Physical Chemistry C, 2016, 120, 4843-4853.	3.1	28
15	Comparative genomics and physiology of the genus <i>Methanohalophilus</i> , a prevalent methanogen in hydraulically fractured shale. Environmental Microbiology, 2018, 20, 4596-4611.	3.8	28
16	Sorption Phase of Supercritical CO ₂ in Silica Aerogel: Experiments and Mesoscale Computer Simulations. Journal of Physical Chemistry C, 2014, 118, 15525-15533.	3.1	24
17	N-octane diffusivity enhancement via carbon dioxide in silica slit-shaped nanopores – a molecular dynamics simulation. Molecular Simulation, 2016, 42, 745-752.	2.0	24
18	Molecular dynamics simulations of propane in slit shaped silica nano-pores: direct comparison with quasielastic neutron scattering experiments. Physical Chemistry Chemical Physics, 2017, 19, 32320-32332.	2.8	22

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19	Factors governing the behaviour of aqueous methane in narrow pores. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2016, 374, 20150019.	3.4	20
20	Aqueous Hydrogen Sulfide in Slit-Shaped Silica Nanopores: Confinement Effects on Solubility, Structural, and Dynamical Properties. Journal of Physical Chemistry C, 2018, 122, 14744-14755.	3.1	20
21	Effects of Confinement and Pressure on the Vibrational Behavior of Nano-Confined Propane. Journal of Physical Chemistry A, 2018, 122, 6736-6745.	2.5	20
22	In situ transformation of ethoxylate and glycol surfactants by shale-colonizing microorganisms during hydraulic fracturing. ISME Journal, 2019, 13, 2690-2700.	9.8	18
23	Sorption, Structure and Dynamics of CO2 and Ethane in Silicalite at High Pressure: A Combined Monte Carlo and Molecular Dynamics Simulation Study. Molecules, 2019, 24, 99.	3.8	18
24	CO2 Adsorption in Metal-Organic Framework Mg-MOF-74: Effects of Inter-Crystalline Space. Nanomaterials, 2020, 10, 2274.	4.1	18
25	Effects of water on the stochastic motions of propane confined in MCM-41-S pores. Physical Chemistry Chemical Physics, 2019, 21, 25035-25046.	2.8	16
26	Effects of inter-crystalline space on the adsorption of ethane and CO ₂ in silicalite: implications for enhanced adsorption. Physical Chemistry Chemical Physics, 2020, 22, 13951-13957.	2.8	14
27	Structure and dynamics of ethane confined in silica nanopores in the presence of CO2. Journal of Chemical Physics, 2020, 152, 084707.	3.0	14
28	Comparative geochemistry of flowback chemistry from the Utica/Point Pleasant and Marcellus formations. Chemical Geology, 2021, 564, 120041.	3.3	11
29	Structure and dynamics of water on the forsterite surface. Physical Chemistry Chemical Physics, 2018, 20, 27822-27829.	2.8	10
30	Molecular Structure of Adsorbed Water Phases in Silica Nanopores. Journal of Physical Chemistry C, 2022, 126, 2885-2895.	3.1	8
31	Effect of Pore Connectivity on the Behavior of Fluids Confined in Sub-Nanometer Pores: Ethane and CO2 Confined in ZSM-22. Membranes, 2021, 11, 113.	3.0	7