

# Susan E Burns

## List of Publications by Year in descending order

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Version: 2024-02-01

25  
papers

842  
citations

623574

14  
h-index

794469

19  
g-index

25  
all docs

25  
docs citations

25  
times ranked

848  
citing authors

#	ARTICLE	IF	CITATIONS
1	Nonionic organic solute sorption onto two organobentonites as a function of organic-carbon content. <i>Journal of Colloid and Interface Science</i> , 2003, 266, 251-258.	5.0	126
2	Molecular Dynamics Simulation of Secondary Sorption Behavior of Montmorillonite Modified by Single Chain Quaternary Ammonium Cations. <i>Environmental Science &amp; Technology</i> , 2012, 46, 3999-4007.	4.6	66
3	Effects of Organic Cation Structure on Behavior of Organobentonites. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2001, 127, 363-370.	1.5	65
4	Characterization of biomass and high carbon content coal ash for productive reuse applications. <i>Fuel</i> , 2014, 116, 438-447.	3.4	65
5	Sorption and permeability of gasoline hydrocarbons in organobentonite porous media. <i>Journal of Hazardous Materials</i> , 2003, 96, 91-97.	6.5	64
6	Review of the fundamental geochemical and physical behaviors of organoclays in barrier applications. <i>Applied Clay Science</i> , 2017, 142, 2-20.	2.6	64
7	An experimental study of cotransport of heavy metals with kaolinite colloids. <i>Journal of Hazardous Materials</i> , 2019, 373, 476-482.	6.5	58
8	Evaluation of Granular Activated Carbon, Shale, and Two Organoclays for Use as Sorptive Amendments in Clay Landfill Liners. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2005, 131, 848-856.	1.5	52
9	Microstructure of Single Chain Quaternary Ammonium Cations Intercalated into Montmorillonite: A Molecular Dynamics Study. <i>Langmuir</i> , 2012, 28, 16393-16400.	1.6	50
10	Hydraulic conductivities and effective diffusion coefficients of geosynthetic clay liners with organobentonite amendments. <i>Geotextiles and Geomembranes</i> , 2005, 23, 385-400.	2.3	47
11	Modeling Sorption and Diffusion of Organic Sorbate in Hexadecyltrimethylammonium-Modified Clay Nanopores â€” A Molecular Dynamics Simulation Study. <i>Environmental Science &amp; Technology</i> , 2013, 47, 2769-2776.	4.6	46
12	Role of Immobile Kaolinite Colloids in the Transport of Heavy Metals. <i>Environmental Science &amp; Technology</i> , 2018, 52, 2735-2741.	4.6	39
13	Mixtures of Fine-Grained Minerals â€” Kaolinite and Carbonate Grains. <i>Clays and Clay Minerals</i> , 2008, 56, 599-611.	0.6	33
14	Sorption of nonionic organic solutes from water to tetraalkylammonium bentonites: Mechanistic considerations and application of the Polanyiâ€™s potential theory. <i>Journal of Colloid and Interface Science</i> , 2007, 313, 405-413.	5.0	20
15	Facilitation of microbially induced calcite precipitation with kaolinite nucleation. <i>Geotechnique</i> , 2021, 71, 728-734.	2.2	15
16	Laboratory and theoretical evaluation of impact of packing density, particle shape, and uniformity coefficient on erodibility of coarse-grained soil particles. <i>Earth Surface Processes and Landforms</i> , 2020, 45, 1499-1509.	1.2	10
17	Thermal conductivity of dry fly ashes with various carbon and biomass contents. <i>Waste Management</i> , 2021, 135, 122-129.	3.7	10
18	Upscaling polydispersed particle transport in porous media using pore network model. <i>Acta Geotechnica</i> , 2021, 16, 421-432.	2.9	7

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19	Molecular simulation of electrokinetics of montmorillonite surface coated with hexadecyltrimethylammonium cations. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2017, 516, 354-361.	2.3	4
20	Organic Contaminant Sorption and Diffusion in Engineered Clays with Organoclay Additives-Understanding Barrier Performance at the Molecular Level. , 2014, , .		1
21	Shear Strength Behavior of Bentonite Modified by Tetramethylammonium Cations. , 2010, , 543-548.		0
22	NSF Workshop on Geotechnical Fundamentals: How Researchers Can Contribute to Today's Real-World Challenges. Geo-strata, 2017, 21, 62-63.	0.0	0
23	Effect of Iron Oxide Coatings on Thermal Conductivity of Silica Sands. KSCE Journal of Civil Engineering, 0, , 1.	0.9	0
24	Setting the Stage for a Geotechnical Asset Management Program in the State of Georgia. , 2022, , .		0
25	Geotechnical Engineering Lab Course Virtual Instruction Methods: A Response to Covid-19. , 2022, , .		0