Eric M Suuberg

List of Publications by Year
in descending order

72	2,143	218677	243625
papers	citations	26 h-index	44 g-index

72	72	72	1526
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Thermal Effects in Cellulose Pyrolysis:Â Relationship to Char Formation Processes. Industrial & Engineering Chemistry Research, 1996, 35, 653-662.	3.7	256
2	Vapor Pressures and Enthalpies of Sublimation of Polycyclic Aromatic Hydrocarbons and Their Derivatives. Journal of Chemical & Engineering Data, 1998, 43, 486-492.	1.9	144
3	The Role of Carbon Monoxide in the NOâ^'Carbon Reaction. Energy & Fuels, 1999, 13, 1145-1153.	5.1	103
4	Vapor Pressures and Enthalpies of Sublimation of Ten Polycyclic Aromatic Hydrocarbons Determined via the Knudsen Effusion Method. Journal of Chemical & Engineering Data, 2008, 53, 670-676.	1.9	83
5	Simulation of the Vapor Intrusion Process for Nonhomogeneous Soils Using a Threeâ€Dimensional Numerical Model. Ground Water Monitoring and Remediation, 2009, 29, 92-104.	0.8	76
6	A Review of Vapor Intrusion Models. Environmental Science & Technology, 2013, 47, 2457-2470.	10.0	76
7	Development and Application of a Three-Dimensional Finite Element Vapor Intrusion Model. Journal of the Air and Waste Management Association, 2009, 59, 447-460.	1.9	73
8	Temperature Dependence of Solvent Swelling and Diffusion Processes in Coals. Energy & Fuels, 1997, 11, 1155-1164.	5.1	68
9	Comparison of the Johnsonâ^'Ettinger Vapor Intrusion Screening Model Predictions with Full Three-Dimensional Model Results. Environmental Science & Technology, 2011, 45, 2227-2235.	10.0	54
10	Evaluation and Management Strategies for Per- and Polyfluoroalkyl Substances (PFASs) in Drinking Water Aquifers: Perspectives from Impacted U.S. Northeast Communities. Environmental Health Perspectives, 2018, 126, 065001.	6.0	54
11	Changes in reactive surface area and porosity during char oxidation. Proceedings of the Combustion Institute, 1998, 27, 2933-2939.	0.3	49
12	Estimation of contaminant subslab concentration in vapor intrusion. Journal of Hazardous Materials, 2012, 231-232, 10-17.	12.4	46
13	Porosity development in carbons derived from scrap automobile tires. Carbon, 2007, 45, 1719-1726.	10.3	44
14	Vapor pressures and thermodynamics of oxygenâ€containing polycyclic aromatic hydrocarbons measured using knudsen effusion. Environmental Toxicology and Chemistry, 2008, 27, 1244-1249.	4.3	43
15	Influence of Soil Moisture on Soil Gas Vapor Concentration for Vapor Intrusion. Environmental Engineering Science, 2013, 30, 628-637.	1.6	43
16	Development of a Nonisothermal Knudsen Effusion Method and Application to PAH and Cellulose Tar Vapor Pressure Measurement. Analytical Chemistry, 1997, 69, 4619-4626.	6.5	41
17	A numerical investigation of vapor intrusion â€" The dynamic response of contaminant vapors to rainfall events. Science of the Total Environment, 2012, 437, 110-120.	8.0	38
18	Sewer Gas: An Indoor Air Source of <scp>PCE</scp> to Consider During Vapor Intrusion Investigations. Ground Water Monitoring and Remediation, 2013, 33, 119-126.	0.8	34

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19	A twoâ€dimensional analytical model of petroleum vapor intrusion. Water Resources Research, 2016, 52, 1528-1539.	4.2	32
20	Examination of the Influence of Environmental Factors on Contaminant Vapor Concentration Attenuation Factors Using the U.S. EPAâ€™s Vapor Intrusion Database. Environmental Science & Technology, 2013, 47, 906-913.	10.0	30
21	Development of porosity during coal char combustion. Proceedings of the Combustion Institute, 2002, 29, 495-501.	3.9	29
22	Estimation of contaminant subslab concentration in petroleum vapor intrusion. Journal of Hazardous Materials, 2014, 279, 336-347.	12.4	28
23	The role of porosity in char combustion. Proceedings of the Combustion Institute, 2007, 31, 1897-1903.	3.9	27
24	A Petroleum Vapor Intrusion Model Involving Upward Advective Soil Gas Flow Due to Methane Generation. Environmental Science & Technology, 2015, 49, 11577-11585.	10.0	27
25	A twoâ€dimensional analytical model of vapor intrusion involving vertical heterogeneity. Water Resources Research, 2017, 53, 4499-4513.	4.2	27
26	Vapor pressures and sublimation enthalpies of seven heteroatomic aromatic hydrocarbons measured using the Knudsen effusion technique. Journal of Chemical Thermodynamics, 2010, 42, 781-786.	2.0	26
27	Estimation of Contaminant Subslab Concentration in Vapor Intrusion Including Lateral Sourceâ€“Building Separation. Vadose Zone Journal, 2013, 12, 1-9.	2.2	26
28	The effect of halogen hetero-atoms on the vapor pressures and thermodynamics of polycyclic aromatic compounds measured via the Knudsen effusion technique. Journal of Chemical Thermodynamics, 2008, 40, 460-466.	2.0	24
29	Thermochemical properties and phase behavior of halogenated polycyclic aromatic hydrocarbons. Environmental Toxicology and Chemistry, 2012, 31, 486-493.	4.3	24
30	Simulating the effect of slab features on vapor intrusion of crack entry. Building and Environment, 2013, 59, 417-425.	6.9	22
31	Analytical modeling of the subsurface volatile organic vapor concentration in vapor intrusion. Chemosphere, 2014, 95, 140-149.	8.2	22
32	Investigating the Role of Soil Texture in Vapor Intrusion from Groundwater Sources. Journal of Environmental Quality, 2017, 46, 776-784.	2.0	22
33	Impacts of changes of indoor air pressure and air exchange rate in vapor intrusion scenarios. Building and Environment, 2016, 96, 178-187.	6.9	21
34	Kinetics of tire derived fuel (TDF) char oxidation and accompanying changes in surface area. Fuel, 2009, 88, 179-186.	6.4	20
35	Vapor intrusion in urban settings: effect of foundation features and source location. Procedia Environmental Sciences, 2011, 4, 245-250.	1.4	20
36	Solid vapor pressure for five heavy PAHs via the Knudsen effusion method. Journal of Chemical Thermodynamics, 2011, 43, 1660-1665.	2.0	20

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37	Modeling quantification of the influence of soil moisture on subslab vapor concentration. Environmental Sciences: Processes and Impacts, 2013, 15, 1444.	3.5	20
38	Vapor Pressure of Nine Perfluoroalkyl Substances (PFASs) Determined Using the Knudsen Effusion Method. Journal of Chemical & Engineering Data, 2020, 65, 2332-2342.	1.9	20
39	Estimating the oxygenated zone beneath building foundations for petroleum vapor intrusion assessment. Journal of Hazardous Materials, 2016, 312, 84-96.	12.4	19
40	Phase behavior and vapor pressures of the pyrene+9,10-dibromoanthracene system. Fluid Phase Equilibria, 2010, 298, 219-224.	2.5	18
41	Anthracene + Pyrene Solid Mixtures: Eutectic and Azeotropic Character. Journal of Chemical & Engineering Data, 2010, 55, 3598-3605.	1.9	18
42	Evaluation of site-specific lateral inclusion zone for vapor intrusion based on an analytical approach. Journal of Hazardous Materials, 2015, 298, 221-231.	12.4	18
43	Thermodynamic study of (anthracene+phenanthrene) solid state mixtures. Journal of Chemical Thermodynamics, 2015, 90, 79-86.	2.0	15
44	ThreeâEDimensional Simulation of Land Drains as a Preferential Pathway for Vapor Intrusion into Buildings. Journal of Environmental Quality, 2017, 46, 1424-1433.	2.0	15
45	Examination of the U.S. EPAâ€™s vapor intrusion database based on models. Environmental Science & Technology, 2013, 47, 130107231555002.	10.0	14
46	Cooperative Effects in Solvent Swelling of a Bituminous Coal. Energy & Fuels, 1998, 12, 798-800.	5.1	13
47	Vapor pressure of solid polybrominated diphenyl ethers determined via Knudsen effusion method. Environmental Toxicology and Chemistry, 2011, 30, 2216-2219.	4.3	13
48	Field data and numerical modeling: A multiple lines of evidence approach for assessing vapor intrusion exposure risks. Science of the Total Environment, 2016, 556, 291-301.	8.0	13
49	Examining the Use of USEPA's Generic Attenuation Factor in Determining Groundwater Screening Levels for Vapor Intrusion. Ground Water Monitoring and Remediation, 2018, 38, 79-89.	0.8	13
50	Thermodynamics of Multicomponent PAH Mixtures and Development of Tarlike Behavior. Industrial & Engineering Chemistry Research, 2011, 50, 3613-3620.	3.7	11
51	Vapor intrusion attenuation factors relative to subslab and source, reconsidered in light of background data. Journal of Hazardous Materials, 2015, 286, 553-561.	12.4	11
52	Measurements of the Vapor Pressures of Coal Tars Using the Nonisothermal Knudsen Effusion Method. Energy & Fuels, 1998, 12, 1313-1321.	5.1	10
53	Raoult's Law and Its Application to Sublimation Vapor Pressures of Mixtures of Polycyclic Aromatic Hydrocarbons. Environmental Engineering Science, 2008, 25, 1429-1438.	1.6	10
54	Vapor pressure of three brominated flame retardants determined by using the Knudsen effusion method. Environmental Toxicology and Chemistry, 2012, 31, 574-578.	4.3	10

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55	An Excel^{Â®}â€Based Visualization Tool of Twoâ€Dimensional Soil Gas Concentration Profiles in Petroleum Vapor Intrusion. Ground Water Monitoring and Remediation, 2016, 36, 94-100.	0.8	10
56	Factors affecting temporal variations in vapor intrusion-induced indoor air contaminant concentrations. Building and Environment, 2019, 161, 106196.	6.9	10
57	Investigating two-dimensional soil gas transport of trichloroethylene in vapor intrusion scenarios involving surface pavements using a pilot-scale tank. Journal of Hazardous Materials, 2019, 371, 138-145.	12.4	10
58	Very low concentration adsorption isotherms of trichloroethylene on common building materials. Building and Environment, 2020, 179, 106954.	6.9	9
59	A numerical investigation of oxygen concentration dependence on biodegradation rate laws in vapor intrusion. Environmental Sciences: Processes and Impacts, 2013, 15, 2345.	3.5	8
60	Analytical quantification of the subslab volatile organic vapor concentration from a non-uniform source. Environmental Modelling and Software, 2014, 54, 1-8.	4.5	8
61	The effects of temperature and relative humidity on trichloroethylene sorption capacities of building materials under conditions relevant to vapor intrusion. Journal of Hazardous Materials, 2021, 401, 123807.	12.4	8
62	VAPOR PRESSURES AND THERMODYNAMICS OF OXYGEN-CONTAINING POLYCYCLIC AROMATIC HYDROCARBONS MEASURED USING KNUDSEN EFFUSION. Environmental Toxicology and Chemistry, 2007, preprint, 1.	4.3	8
63	Comments Regarding the Use of Coal Swelling To Count Hydrogen-Bond Cross-Links in Coals. Energy & Fuels, 1997, 11, 1103-1104.	5.1	7
64	Dry and Semi-Dry Methods for Removal of Ammonia from Pulverized Fuel Combustion Fly Ash. Energy & Fuels, 2002, 16, 1398-1404.	5.1	6
65	An examination of the building pressure cycling technique as a tool in vapor intrusion investigations with analytical simulations. Journal of Hazardous Materials, 2020, 389, 121915.	12.4	6
66	High-frequency fluctuations of indoor pressure: A potential driving force for vapor intrusion in urban areas. Science of the Total Environment, 2020, 710, 136309.	8.0	5
67	Vapor Liquid Equilibrium in Polycyclic Aromatic Compound Mixtures and in Coal Tars. ACS Symposium Series, 2005, , 113-122.	0.5	3
68	Thermochemical and vapor pressure behavior of anthracene and brominated anthracene mixtures. Fluid Phase Equilibria, 2013, 342, 60-70.	2.5	3
69	Comparison between PVI2D and Abreuâ€“Johnson's Model for Petroleum Vapor Intrusion Assessment. Vadose Zone Journal, 2016, 15, 1-11.	2.2	3
70	Adsorption of trichloroethylene on common indoor materials studied using a combined inverse gas chromatography and frequency response technique. Journal of Chromatography A, 2022, 1669, 462926.	3.7	3
71	Risk Assessment Tool for Chlorinated Vapor Intrusion Based on a Two-Dimensional Analytical Model Involving Vertical Heterogeneity. Environmental Engineering Science, 2019, 36, 969-980.	1.6	2
72	Deviations from ideal sublimation vapor pressure behavior in mixtures of polycyclic aromatic compounds with interacting heteroatoms. Journal of Chemical Thermodynamics, 2010, 42, 1009-1015.	2.0	1