

# Alex De Visscher

## List of Publications by Year in descending order

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Version: 2024-02-01

66  
papers

2,527  
citations

279487

23  
h-index

197535

49  
g-index

71  
all docs

71  
docs citations

71  
times ranked

2271  
citing authors

#	ARTICLE	IF	CITATIONS
1	Microbial methane oxidation processes and technologies for mitigation of landfill gas emissions. Waste Management and Research, 2009, 27, 409-455.	2.2	406
2	Municipal solid waste characterization and its assessment for potential methane generation: A case study. Science of the Total Environment, 2006, 371, 1-10.	3.9	223
3	Methane Oxidation in Simulated Landfill Cover Soil Environments. Environmental Science & Technology, 1999, 33, 1854-1859.	4.6	179
4	Methane oxidation and formation of EPS in compost: effect of oxygen concentration. Environmental Pollution, 2004, 129, 305-314.	3.7	126
5	Simulation model for gas diffusion and methane oxidation in landfill cover soils. Waste Management, 2003, 23, 581-591.	3.7	111
6	Kinetic Model for the Sonochemical Degradation of Monocyclic Aromatic Compounds in Aqueous Solution. The Journal of Physical Chemistry, 1996, 100, 11636-11642.	2.9	90
7	Induction of enhanced methane oxidation in compost: Temperature and moisture response. Waste Management, 2006, 26, 381-388.	3.7	86
8	Sonolysis of trichloroethylene in aqueous solution: volatile organic intermediates. Ultrasonics Sonochemistry, 1996, 3, S83-S90.	3.8	85
9	Ultrasonic degradation of trichloroethylene and chlorobenzene at micromolar concentrations: kinetics and modelling. Ultrasonics Sonochemistry, 2001, 8, 143-150.	3.8	83
10	Short-term kinetic response of enhanced methane oxidation in landfill cover soils to environmental factors. Biology and Fertility of Soils, 2001, 33, 231-237.	2.3	74
11	On naphthenic acids removal from crude oil and oil sands process-affected water. Fuel, 2019, 253, 1229-1246.	3.4	67
12	Nitrogen Cycling through Swine Production Systems. Journal of Environmental Quality, 2004, 33, 1189-1201.	1.0	65
13	A new kinetic model for titanium dioxide mediated heterogeneous photocatalytic degradation of trichloroethylene in gas-phase. Applied Catalysis B: Environmental, 2004, 54, 261-274.	10.8	64
14	Isotope fractionation effects by diffusion and methane oxidation in landfill cover soils. Journal of Geophysical Research, 2004, 109, .	3.3	59
15	Title is missing!. Nutrient Cycling in Agroecosystems, 2001, 60, 23-34.	1.1	55
16	Induction of enhanced CH <sub>4</sub> oxidation in soils: NH <sub>4</sub> <sup>+</sup> inhibition patterns. Soil Biology and Biochemistry, 2003, 35, 907-913.	4.2	55
17	Sonochemistry of organic compounds in homogeneous aqueous oxidising systems. Ultrasonics Sonochemistry, 1998, 5, 87-92.	3.8	51
18	Reactions of hydroxyl radicals with benzoic acid and benzoate. RSC Advances, 2017, 7, 35776-35785.	1.7	41

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19	Modeling the steady-state thermodynamic operation point of top-spray fluidized bed processing. <i>Journal of Food Engineering</i> , 1999, 39, 131-143.	2.7	40
20	Sonochemical degradation of ethylbenzene in aqueous solution: a product study. <i>Ultrasonics Sonochemistry</i> , 1997, 4, 145-151.	3.8	37
21	IUPAC-NIST Solubility Data Series. 95. Alkaline Earth Carbonates in Aqueous Systems. Part 1. Introduction, Be and Mg. <i>Journal of Physical and Chemical Reference Data</i> , 2012, 41, 013105-013105-67.	1.9	37
22	Henry's law constants (IUPAC Recommendations 2021). <i>Pure and Applied Chemistry</i> , 2022, 94, 71-85.	0.9	37
23	Molecular interactions between 1-butyl-3-methylimidazolium tetrafluoroborate and model naphthenic acids: A DFT study. <i>Journal of Molecular Liquids</i> , 2017, 243, 462-471.	2.3	26
24	Estimation of the Solubility Constant of Calcite, Aragonite, and Vaterite at 25°C Based on Primary Data Using the Pitzer Ion Interaction Approach. <i>Monatshefte für Chemie</i> , 2003, 134, 769-775.	0.9	25
25	Carbon and hydrogen isotope fractionation by microbial methane oxidation: Improved determination. <i>Waste Management</i> , 2006, 26, 389-398.	3.7	23
26	Long-Term Numerical Simulation of Methane Transport and Oxidation in Compost Biofilter. <i>Practice Periodical of Hazardous, Toxic and Radioactive Waste Management</i> , 2009, 13, 196-202.	0.4	23
27	What does the g-index really measure?. <i>Journal of the Association for Information Science and Technology</i> , 2011, 62, 2290-2293.	2.6	23
28	IUPAC-NIST Solubility Data Series. 95. Alkaline Earth Carbonates in Aqueous Systems. Part 2. Ca. <i>Journal of Physical and Chemical Reference Data</i> , 2012, 41, 023105-023105-137.	1.9	21
29	A non-equimolar mass transfer model for carbon dioxide gasification studies by thermogravimetric analysis. <i>Fuel Processing Technology</i> , 2014, 124, 1-10.	3.7	21
30	Modelling of stable isotope fractionation by methane oxidation and diffusion in landfill cover soils. <i>Waste Management</i> , 2008, 28, 1535-1542.	3.7	20
31	Three-dimensional CFD model for a flat plate photocatalytic reactor: Degradation of TCE in a serpentine flow field. <i>AIChE Journal</i> , 2009, 55, 312-320.	1.8	19
32	Biofiltration for BTEX Removal. <i>Critical Reviews in Environmental Science and Technology</i> , 2012, 42, 2648-2692.	6.6	19
33	Kinetic model for the sonochemical degradation of monocyclic aromatic compounds in aqueous solution: new insights. <i>Ultrasonics Sonochemistry</i> , 2003, 10, 157-165.	3.8	18
34	Highly efficient and reversible iodine capture utilizing amorphous conjugated covalent triazine-based porous polymers: Experimental and computational studies. <i>Journal of Environmental Chemical Engineering</i> , 2022, 10, 107805.	3.3	15
35	Interaction between Nitrous Oxide Formation and Methane Oxidation in Soils: Influence of Cation Exchange Phenomena. <i>Journal of Environmental Quality</i> , 1998, 27, 679-687.	1.0	14
36	The COVID-19 pandemic: model-based evaluation of non-pharmaceutical interventions and prognoses. <i>Nonlinear Dynamics</i> , 2020, 101, 1871-1887.	2.7	14

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37	Sorption of chlorinated C1- and C2-hydrocarbons and monocyclic aromatic hydrocarbons on sea sediment. <i>Water Research</i> , 1996, 30, 3130-3138.	5.3	13
38	Benzene degradation in waste gas by photolysis and photolysis-ozonation: experiments and modeling. <i>Frontiers of Environmental Science and Engineering</i> , 2016, 10, 1.	3.3	12
39	Cu sorption on <i>Phragmites australis</i> leaf and stem litter: A kinetic study. <i>Chemosphere</i> , 2007, 69, 1136-1143.	4.2	11
40	Comparison of Electronic and Physicochemical Properties between Imidazolium-Based and Pyridinium-Based Ionic Liquids. <i>Journal of Physical Chemistry B</i> , 2018, 122, 6771-6780.	1.2	11
41	Toluene Removal Biofilter Modeling. <i>Journal of the Air and Waste Management Association</i> , 2008, 58, 947-956.	0.9	10
42	Toluene removal biofilter modeling: Optimization and case study. <i>Chemical Engineering Research and Design</i> , 2008, 86, 277-282.	2.7	9
43	Kinetic modeling of photocatalytic degradation reactions: Effect of charge trapping. <i>Applied Catalysis B: Environmental</i> , 2008, 84, 65-74.	10.8	9
44	Mechanistic model for ultraviolet degradation of H <sub>2</sub> S and NO in waste gas. <i>Chemical Engineering Journal</i> , 2014, 244, 597-603.	6.6	9
45	Interactions of Biodegradable Ionic Liquids with a Model Naphthenic Acid. <i>Scientific Reports</i> , 2018, 8, 176.	1.6	9
46	Kinetic Modeling of Ozone Decomposition and Peroxone Oxidation of Toluene in an Aqueous Phase Using <i>ab Initio</i> Calculations. <i>Industrial &amp; Engineering Chemistry Research</i> , 2019, 58, 22934-22941.	1.8	8
47	Non-thermal plasma destruction of allyl alcohol in waste gas: kinetics and modelling. <i>Plasma Sources Science and Technology</i> , 2008, 17, 015004.	1.3	7
48	Theoretical estimation of the apparent rate constants for ozone decomposition in gas and aqueous phases using <i>ab initio</i> calculations. <i>Canadian Journal of Chemical Engineering</i> , 2020, 98, 274-280.	0.9	7
49	Calibration of a Multipoint Sampling System Connected with a Photoacoustic Detector. <i>International Journal of Environmental Analytical Chemistry</i> , 2000, 76, 115-133.	1.8	6
50	Consistency issues of aqueous solubility data and solution thermodynamics of electrolytes. <i>Pure and Applied Chemistry</i> , 2005, 77, 619-629.	0.9	6
51	Salting out and salting in of benzene in water: a consistency evaluation. <i>Monatshefte für Chemie</i> , 2018, 149, 231-236.	0.9	6
52	Solubility phenomena related to CO <sub>2</sub> capture and storage. <i>Pure and Applied Chemistry</i> , 2013, 85, 2051-2058.	0.9	5
53	Effect of diffusion limitation and substrate inhibition on steady states of a biofilm reactor treating a single pollutant. <i>Journal of the Air and Waste Management Association</i> , 2019, 69, 1107-1115.	0.9	5
54	An index to measure a scientist's specific impact. <i>Journal of the Association for Information Science and Technology</i> , 2010, 61, 319-328.	2.6	4

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55	A new Price's estimate on the size of scientific specialties based on scientific community structure. <i>Scientometrics</i> , 2013, 96, 937-940.	1.6	3
56	Dinitrogen and methane gas production during the anaerobic/anoxic decomposition of animal manure. <i>Nutrient Cycling in Agroecosystems</i> , 2014, 100, 53-64.	1.1	3
57	Simplified flare combustion model for flare plume rise calculations. <i>Canadian Journal of Chemical Engineering</i> , 2016, 94, 1249-1261.	0.9	3
58	Modelling moisture and temperature effects on methane oxidation in soils. , 2000, , 137-138.		3
59	The effect of biogas ebullition on ammonia emissions from animal manure processing lagoons. <i>Journal of Environmental Quality</i> , 2022, , .	1.0	3
60	Artificial versus biological intelligence in the Cosmos: clues from a stochastic analysis of the Drake equation. <i>International Journal of Astrobiology</i> , 2020, 19, 353-359.	0.9	2
61	Extended Specific Ion Theory (ESIT): Theoretical development and application to Harned's rule. <i>Journal of Solution Chemistry</i> , 2022, 51, 711-733.	0.6	2
62	Two chemical engineers look at the COVID-19 pandemic. <i>Canadian Journal of Chemical Engineering</i> , 2023, 101, 1529-1540.	0.9	2
63	The thermodynamics of bibliometrics consistency and the meaning of h-type indices " reply. <i>Journal of the Association for Information Science and Technology</i> , 2012, 63, 630-631.	2.6	1
64	Consistency Issues of Aqueous Solubility Data and Solution Thermodynamics of Electrolytes. <i>ChemInform</i> , 2005, 36, no.	0.1	0
65	Response to "remarks on the paper by a. De Visscher, "what does the g-index really measure?" , <i>Journal of the Association for Information Science and Technology</i> , 2013, 64, 1960-1962.	2.6	0
66	Modelling methane and ethane photolysis in waste gas: Optimization of reaction networks. <i>Canadian Journal of Chemical Engineering</i> , 2018, 96, 1674-1683.	0.9	0