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Authors	Title	Year	Journal / Symposium	Volume	Issue	Pages	
E. S. Hamborg , G. F. Versteeg	Absorption and desorption mass transfer rates in chemically enhanced reactive systems. Part I: Chemical Enhancement Factors	2012	Chemical Engineering Journal	198-199		555-560	
E. S. Hamborg , G. F. Versteeg	Absorption and desorption mass transfer rates in chemically enhanced reactive systems. Part II: Reverse kinetic rate parameters	2012	Chemical Engineering Journal	198-199		561-570	
N.J.M.C. Penders-van Elk, P.W.J. Derks, S. Fradetteb, G.F. Versteeg	Kinetics of absorption of carbon dioxide in aqueous MDEA solutions with carbonic anhydrase at 298 K	2012	International Journal of Greenhouse Gas Control	9		385-392	
H. ter Maat, G.F. Versteeg, F. Vergunst	Vitrisol® a new, 100% selective technology for the removal of H ₂ S	2012	Proc. 8th International Conference of Sour Oil & Gas Advanced Technology (SOGAT), Abu Dhabi, UAE				
A.R.J. Arendsen, E.P. van Elk, P.J.G. Huttenhuis, G.F. Versteeg, F. Vitse	Validation of a Post Combustion CO ₂ Capture pilot using aqueous amines with a rate based simulator	2012	Proc. 6th International CO ₂ Forum (SOGAT), Abu Dhabi, UAE				
P.W.J. Derks, P.J.G. Huttenhuis, C. van Aken, J.-H. Marsman and G.F. Versteeg	Determination of the liquid-phase speciation in the	2011	Energy Procedia	4		599-605	
E.S. Hamborg, P.W.J. Derks, E.P. van Elk, G.F. Versteeg	Carbon dioxide removal by alkanolamines in aqueous organic solvents. A method for enhancing the desorption process	2011	Energy Procedia	4		187-194	
K. Klepacova, P.J.G. Huttenhuis, P.W.J. Derks and G.F. Versteeg	Vapor pressures of several commercially used alkanolamines	2011	Journal of Chemical and Engineering Data	56	5	2242-2248	
N.J.M.C. Penders-van Elk, P.W.J. Derks, S. Fradette and G.F. Versteeg	The kinetics of absorption of carbon dioxide in aqueous solutions of MDEA and carbonic anhydrase	2011	6th Trondheim Conference on CO ₂ Capture, Transport and Storage, Trondheim, Norway				

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P.W.J. Derks, J.A. Hogendoorn and G.F. Versteeg	Experimental and theoretical study of the solubility	2010	Journal of Chemical Thermodynamics	42	1	151-163	
E.S. Hamborg and G.F. Versteeg	The effect of aqueous organic solvents on the diss	2010	Fluid Phase Equilibria	291	1	32-39	
E.S. Hamborg, S.R.A Kersten and G.F. Versteeg	Absorption and desorption mass transfer rates in n	2010	Chemical Engineering Journal	161	1-2	191-195	
P.W.J. Derks, P.J.G. Huttenhuis, C. van Aken, J.-H. Marsman and G.F. Versteeg	Determination of the liquid-phase speciation in the	2010	Proc. 10th International Greenhouse Gas Control Technologies, Amsterdam, The Netherlands				
E.S. Hamborg, P.W.J. Derks, E.P. van Elk, G.F. Versteeg	Carbon dioxide removal by alkanolamines in aqueous organic solvents. A method for enhancing the desorption process	2010	Proc. 10th International Greenhouse Gas Control Technologies, Amsterdam, The Netherlands				
P.J.G. Huttenhuis, E.P. van Elk, S. Van Loo, G.F. Versteeg	Mass Transfer in a Small Scale Flue Gas Absorber – Experimental and Modeling	2009	Energy Procedia	1	1	1139-1146	
E.P. van Elk, A.R.J. Arendsen, G.F. Versteeg	A new flowsheeting tool for flue gas treating	2009	Energy Procedia	1	1	1481-1488	
E.S. Hamborg and G.F. Versteeg	Dissociation Constants and Thermodynamic Prope	2009	Energy Procedia	1	1	1213-1218	
P.W.J. Derks ; G.F. Versteeg	Kinetics of Absorption of Carbon Dioxide in Aqueous Ammonia Solutions	2009	Energy Procedia	1	1	1131-1138	
J. van Holst, G.F. Versteeg, D.W.F. Brillman and J.A. Hogendoorn	Kinetic study of CO2 with various amino acid salts	2009	Chemical Engineering Science	64	1	59-68	
P. Singh, J.P.M. Niederer and G.F. Versteeg	Structure and activity relationships for amine-based	2009	Chemical Engineering Research and Design	87	2	135-144	

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E.S. Hamborg and G.F. Versteeg	Dissociation constants and thermodynamic propert	2009	Journal of Chemical and Engineering Data	54	4	1318-1328	
P.J.G. Huttenhuis, N.J. Agrawal and G.F. Versteeg	Solubility of carbon dioxide and hydrogen sulfide in	2009	Industrial and Engineering Chemistry Research	48	8	4051-4059	
P.J.G. Huttenhuis and G.F. Versteeg	The absorption rate in activated potassium carbonate	2009	5th Trondheim Conference on CO2 Capture, Transport and Storage, Trondheim, Norway				
A.R.J. Arendsen, E.P. van Elk and G.F. Versteeg	Rate-based simulation of a flue gas treating plant u	2009	5th Trondheim Conference on CO2 Capture, Transport and Storage, Trondheim, Norway				
E.S. Hamborg and G.F. Versteeg	The effect of aqueous organic solvents on the disso	2009	5th Trondheim Conference on CO2 Capture, Transport and Storage, Trondheim, Norway				
P.W.J. Derks and G.F. Versteeg	The effect of methanol and ethanol on the CO2 abs	2009	5th Trondheim Conference on CO2 Capture, Transport and Storage, Trondheim, Norway				
P.J.G. Huttenhuis, E.P. van Elk, S. Van Loo, G.F. Versteeg	Mass Transfer in a Small Scale Flue Gas Absorber – Experimental and Modeling	2008	11th meeting of the International Post-Combustion CO2 Capture Network, Vienna, Austria				
P.J.G. Huttenhuis, G.F. Versteeg	The influence of accelerators in aqueous amine solvents on the liquid side mass transfer coefficient	2008	CHISA 2008 - 18th International Congress of Chemical and Process Engineering, Prague, Czech Republic				
A. Mohan, S. van Loo, G. F. Versteeg	Absorption rates of CO2 in partially loaded aqueous solutions of MEA, DEA and MDEA at 293 K	2008	CHISA 2008 - 18th International Congress of Chemical and Process Engineering, Prague, Czech Republic				
P.W.J. Derks, J.A. Hogendoorn and G.F. Versteeg	Solubility of carbon dioxide in aqueous solutions of N-methyldiethanolamine and piperazine	2008	CHISA 2008 - 18th International Congress of Chemical and Process Engineering, Prague, Czech Republic				
P.J.G. Huttenhuis, E.P. van Elk, S. Van Loo, G.F. Versteeg	Mass transfer in a small scale flue gas absorber – Experimental and modeling	2008	Proc. 9th International Greenhouse Gas Control Technologies, Washington DC, USA				

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E.P. van Elk, A.R.J. Arendsen, G.F. Versteeg	A new flowsheeting tool for flue gas treating	2008	Proc. 9th International Greenhouse Gas Control Technologies, Washington DC, USA				
E.S. Hamborg and G.F. Versteeg	Dissociation constants and thermodynamic properties	2008	Proc. 9th International Greenhouse Gas Control Technologies, Washington DC, USA				
P.W.J. Derks ; G.F. Versteeg	Kinetics of absorption of carbon dioxide in aqueous ammonia solutions	2008	Proc. 9th International Greenhouse Gas Control Technologies, Washington DC, USA				
P.J.G. Huttenhuis, N.J. Agrawal, G.F. Versteeg	The solubility of hydrogen sulfide in aqueous N-methyldiethanolamine solutions	2008	International Journal of Oil, Gas and Coal Technology	1	4	399-424	
P.J.G. Huttenhuis, N.J. Agrawal, E. Solbraa, G.F. Versteeg	The solubility of carbon dioxide in aqueous in N-methyldiethanolamine solutions	2008	Fluid Phase Equilibria	264	1-2	99-112	
P.W.J. Derks, E.S. Hamborg, J.A. Hogendoorn, J.P.M. Niederer and G.F. Versteeg	Densities, viscosities and liquid diffusivities in aqueous piperazine and aqueous (piperazine + N-methyldiethanolamine) solutions	2008	Journal of Chemical and Engineering Data	53	5	1179-1185	
E.S. Hamborg, P.W.J. Derks, S.R.A. Kersten, J.P.M. Niederer and G.F. Versteeg	Diffusion coefficients of N ₂ O in aqueous piperazine solutions using the Taylor dispersion technique from (293 to 333) K and (0.3 to 1.4) mol-dm ⁻³	2008	Journal of Chemical and Engineering Data	53	7	1462-1466	
E.S. Hamborg, W.P.M. van Swaaij and G.F. Versteeg	Diffusivities in aqueous solutions of the potassium salt of amino acids	2008	Journal of Chemical and Engineering Data	53	5	1141-1145	
P. Singh and G.F. Versteeg	Structure and activity relationships for CO ₂ regeneration	2008	Process Safety and Environmental Protection	88	5	347-359	
H. ter Maat, M. Al-Tarazi, J.A. Hogendoorn, J.P.M. Niederer and G.F. Versteeg	Theoretical and experimental study of the absorption	2007	Chemical Engineering Research and Design	85	1A	100-108	
P.J.G. Huttenhuis, E.P. van Elk, G.F. Versteeg	Performance of Aqueous MDEA Blends for CO ₂ Removal from Flue Gases	2007	10th meeting of the International Post-Combustion CO ₂ Capture Network, Lyon, France	1-2		122-134	

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E. P. van Elk, M. C. Knaap and G. F. Versteeg	Application of the penetration theory for gas-liquid mass transfer without liquid bulk - Differences with systems with a bulk	2007	Chemical Engineering Research and Design	1-2		135-145	
P.J.G. Huttenhuis, N.J. Agrawal, J.A. Hogendoorn and G.F. Versteeg	Gas Solubility of H ₂ S and CO ₂ in Aqueous Solutions of N-methyldiethanolamine	2007	Journal of Petroleum Science and Engineering	85	A4	516-524	
S. van Loo, E.P. van Elk and G.F. Versteeg	The removal of CO ₂ with Activated Solutions of methyldiethanolamine	2007	Journal of Petroleum Science and Engineering				
A.F. Portugal, P.W.J. Derks, G.F. Versteeg, F.D. Magelhães, A. Mendes	Characterization of potassium glycinate for carbon	2007	Chemical Engineering Science	62	23	6534-6547	
J. Haubrock, J.A. Hogendoorn and G.F. Versteeg	The applicability of activities in kinetic expressions:	2007	Chemical Engineering Science	62	21	5753-5769	
E.S. Hamborg, J.P.M. Niederer and G.F. Versteeg	Dissociation constants and thermodynamic propert	2007	Journal of Chemical and Engineering Data	52	6	2491-2502	
S. van Loo, E.P. van Elk, L. Raynal and G.F. Versteeg	Mass transfer characteristics in structured packing	2007	Industrial and Engineering Chemistry Research	46	10	3035-3040	
M.R.M. Abu-Zahra, Niederer J.P.M., P.H.M. Feron and G.F. Versteeg	CO ₂ capture from power plants. Part I. A parametri	2007	International Journal of Greenhouse Gas Control	1	2	37-46	
M.R.M. Abu-Zahra, Niederer J.P.M., P.H.M. Feron and G.F. Versteeg	CO ₂ capture from power plants. Part II. A parametri	2007	International Journal of Greenhouse Gas Control	1	2	135-142	
P.W.J. Derks, T. Kleingeld, C. van Aken, J.A., Hogendoorn and G.F. Versteeg	Kinetics of absorption of CO ₂ in aqueous piperazine solutions	2006	Chemical Engineering Science	152		294-310	
J. Haubrock, J.A. Hogendoorn, & G.F. Versteeg	The applicability of activities in kinetic expressions: a more fundamental approach to represent the kinetics of the system CO ₂ -OH ⁻ salt in terms of activities.	2006	CHISA 2006 - 17th International Congress of Chemical and Process Engineering, Prague, Czech Republic				

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P.W.J. Derks, J.A., Hogendoorn and G.F. Versteeg	Absorption of CO ₂ in aqueous solutions of MDEA and piperazine solutions	2006	CHISA 2006 - 17th International Congress of Chemical and Process Engineering, Prague, Czech Republic				
E.P. van Elk, M.C. Knaap and G.F. Versteeg	Application of the penetration theory for gas-liquid mass transfer without a liquid bulk - Differences with systems with a bulk	2006	ICHEME Symposium Series				
H. ter Maat, M. Al-Tarazi, J.A. Hogendoorn and G.F. Versteeg	Theoretical and experimental study of the absorption rate of H ₂ S in CuSO ₄ solutions: the effect of enhancement of mass transfer by a precipitation reaction	2006	ICHEME Symposium Series				
P.J.G. Huttenhuis, A. Mohan, S. van Loo and G.F. Versteeg	Absorption of carbonyl sulphide in aqueous piperazine	2006	ICHEME Symposium Series				
P.J.G. Huttenhuis, N.J. Agrawal, E. Solbraa and G.F. Versteeg	Prediction of CO ₂ solubility in activated MDEA with an electrolyte equation of state	2006	Proc. 8th International Greenhouse Gas Control Technologies, Trondheim Norway				
J. van Holst, P. Politeik, J.P.M. Niederer and G.F. Versteeg	CO ₂ capture from flue gas using amino acid salts	2006	Proc. 8th International Greenhouse Gas Control Technologies, Trondheim, Norway				
M. Abu-Zahra, J.P.M. Niederer, P.F.M. Feron, G.F. Versteeg	The technical and economical analysis of CO ₂ capture based on an absorption/desorption process using monoethanolamine	2006	Proc. 8th International Greenhouse Gas Control Technologies, Trondheim, Norway			237-258	
M. Majochrowicz, J.P.M. Niederer, G.F. Versteeg	Precipitation in amino acid salt CO ₂ absorption systems	2006	Proc. 8th International Greenhouse Gas Control Technologies, Trondheim, Norway	152		581-589	
P. Singh, J.P.M. Niederer and G.F. Versteeg	Structure and activity relationships for amine based CO ₂ absorbents	2006	Proc. 8th International Greenhouse Gas Control Technologies, Trondheim, Norway				
E.S. Hamborg, J.P.M. Niederer and G.F. Versteeg	Determination of dissociation constants of CO ₂ absorbents between 293 K - 353 K using electromotive force measurements	2006	Proc. 8th International Greenhouse Gas Control Technologies.			C1-1	
P.W.J. Derks, J.A., Hogendoorn and G.F. Versteeg	Solubility of carbon dioxide in aqueous blends of piperazine and N-methyldiethanolamine	2006	Proc. 8th International Greenhouse Gas Control Technologies.				

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P.J.G. Huttenhuis and G.F. Versteeg	A comparison of different models for the prediction of acid gas solubility	2006	Proc. Of the 2006 Laurence Reid Gas Conditioning Conferences Norman, Oklahoma,	61		6837-6854	
M. Al-Tarazi, A.B.M. Heesink, K. Azzam, M. Azzam and G.F. Versteeg	Precipitation of CuS and ZnS in a bubble column reactor	2005	AIChE Journal	60	21	5809-5818	
P.W.J. Derks, H.B.S. Dijkstra, J.A. Hogendoorn and G.F. Versteeg	Solubility of carbon dioxide in aqueous piperazine solutions	2005	AIChE Journal	60	21	5830-5835	
S. van Loo, E.P. van Elk and G.F. Versteeg	The removal of CO ₂ with activated solutions of tertiary amines	2005	Book of Abstracts, 1st SEEC of ChE, Belgrade			P15-11	
G.F. Versteeg	The removal of CO ₂ with aqueous solutions of mixtures alkanolamine. The so-called activated MDEA process critically evaluated	2005	Book of Abstracts, Volume 2, keynote lecture, CHEMCON 2005, New Delhi, India			267	
V.Y. Dindore, A.H.G. Cents, D.W.F. Brillman, P.H.M. Feron and G.F. Versteeg	Shell-side dispersion co-efficients in rectangular cross-flow hollow fiber membrane module	2005	Chemical Engineering Research and Design	43	3	183-197	
A.H.G. Cents, D.W.F. Brillman and G.F. Versteeg	Validation of the Danckwerts-plot technique by simultaneous chemical absorption of CO ₂ and physical desorption of O ₂	2005	Chemical Engineering Science	43	3	199-213	
A.H.G. Cents, D.W.F. Brillman and G.F. Versteeg	CO ₂ absorption in carbonate/bicarbonate solutions: the Danckwerts criterion revisited	2005	Chemical Engineering Science			P24-09	
V.Y. Dindore, D.W.F. Brillman and G.F. Versteeg	Hollow fiber membrane contactor as a gas-liquid model contactor	2005	Chemical Engineering Science	3		A40	
J. Haubrock, J.A. Hogendoorn and G.F. Versteeg	The applicability of activities in kinetic expressions: a more fundamental approach to represent the kinetics of the system CO ₂ -OH in terms of activities	2005	Int.J. of Chem. Reactor Eng			P6-068	
V.Y. Dindore and G.F. Versteeg	Gas-liquid mass transfer in cross hollow fibre module; analytical model and experimental validation	2005	International Journal of Heat and Mass Transfer	51	1	235-246	

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P.W.J. Derks, J.A. Hogendoorn and G.F. Versteeg	Density, viscosity, surface tension and solubility of N ₂ O in Aqueous piperazine solutions	2005	Journal of Chemical Engineering Data			O45-003	
V.Y. Dindore, D.W.F. Brillman and G.F. Versteeg	Modelling of cross flow membrane contactors: physical mass transfer	2005	Journal of Membrane Science			19-21	
V.Y. Dindore, D.W.F. Brillman and G.F. Versteeg	Modelling of cross flow membrane contactors: mass transfer with chemical reactions	2005	Journal of Membrane Science	51	8	2311-2327	
S. van Loo, E.P. van Elk and G.F. Versteeg	The removal of CO ₂ with Activated solutions of MDEA	2005	Proc. Dechema / GVC-Fachsection "Reactionskinetiek"	50	6	1947-1950	
H. ter Maat, J.A. Hogendoorn, C.A. Asselbergs and G.F. Versteeg	Selective desulfurization of natural gas using copper sulfate solutions - process design and economic evaluation	2005	Proceedings 7th World Congress of Chemical Engineering			47-48	
E.P. van Elk and G.F. Versteeg	The removal of CO ₂ with aqueous solutions of MDEA/MEA	2005	Proceedings 7th World Congress of Chemical Engineering, Glasgow, UK			22-23	
J. Haubrock, J.A. Hogendoorn and G.F. Versteeg	The applicability of activities in kinetic expressions: a more fundamental approach to represent the kinetics of the system CO ₂ -OH in terms of activities	2005	Proceedings 7th World Congress of Chemical Engineering, Glasgow, UK			29	
P.J.G. Huttenhuis, N.J. Agrawal, J.A. Hogendoorn and G.F. Versteeg	Experimental determination of H ₂ S and CO ₂ solubility data in aqueous amine solutions and a comparison with an electrolyte equation of state	2005	Proceedings 7th World Congress of Chemical Engineering, Glasgow, UK	48		3352-3362	
P.J.G. Huttenhuis, N.J. Agrawal, J.A. Hogendoorn and G.F. Versteeg	Experimental determination of H ₂ S and CO ₂ solubility data in aqueous amine solutions and a comparison with an electrolyte equation of state	2005	Proceedings Kuwait Oil and Gas Conference and Exhibit	83	A3	317-325	
S. van Loo, E.P. van Elk and G.F. Versteeg	The removal of CO ₂ with Activated solutions of MDEA	2005	Proceedings Kuwait Oil and Gas Conference and Exhibit	60		467-479	
H. ter Maat, J.A. Hogendoorn and G.F. Versteeg	The removal of hydrogen sulfide from gas streams using an aqueous metal sulfate absorbent - part I: the absorption of hydrogen sulfide in metal sulfide solutions	2005	Separation and Purification Technology	251		209-222	

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H. ter Maat, J.A. Hogendoorn and G.F. Versteeg	The removal of hydrogen sulfide from gas streams using an aqueous metal sulfate absorbent - part II: the regeneration of copper sulfide to copper oxide - an experimental study	2005	Separation and Purification Technology	255		275-289	
V.Y. Dindore, D.W.F. Brillman, P.H.M. Feron and G.F. Versteeg	CO2 absorption at elevated pressures using a hollow fiber membrane contactor	2004	Journal of Membrane Science	40		133-145	
V.Y. Dindore, D.W.F. Brillman, F. Geuzebroek and G.F. Versteeg	Membrane solvent selection for CO2 removal using membrane gas-liquid contactors	2004	Separation and Purification Technology	235		99-109	
P.S. Kumar, J.A. Hogendoorn, P.H.M. Feron and G.F. Versteeg	Reaction of carbon dioxide with aqueous potassium salt solutions of taurine and glycine	2003	AIChE Journal	49	1	203-213	
P.S. Kumar, J.A. Hogendoorn, P.H.M. Feron and G.F. Versteeg	Equilibrium solubility of CO2 in aqueous potassium taurate solutions. Part 1. Crystallization in carbon dioxide loaded aqueous salt solutions of amino acids	2003	Ind. Engineering Chem. Res.	42	12	2832-2840	
P.S. Kumar, J.A. Hogendoorn, S.J. Timmer, P.H.M. Feron and G.F. Versteeg	Equilibrium solubility of CO2 in aqueous potassium taurate solutions. Part 2. Experimental VLE data and model	2003	Ind. Engineering Chem. Res.	213	1-2	231-245	
P.S. Kumar, J.A. Hogendoorn, P.H.M. Feron and G.F. Versteeg	Approximate solution to predict the enhancement factor for the reactive absorption of a gas in a liquid flowing through a membrane hollow fiber	2003	Journal of Membrane Science	42	12	2841-2852	
J.A. Hogendoorn, R.D. Vas Bhat and G.F. Versteeg	On the determination of the diffusivity of CO2 in aqueous and non aqueous solvents: investigations with laminar jets and wetted wall columns	2002	Chemical Engineering Communications	189		1009-1037	
P.S. Kumar, J.A. Hogendoorn, P.H.M. Feron and G.F. Versteeg	New absorption liquids for the removal of CO2 from dilute gas streams using membrane contactors	2002	Chemical Engineering Science	57	9	1639-1651	
P.S. Kumar, J.A. Hogendoorn, P.H.M. Feron and G.F. Versteeg	methode voor absorptie van zure gassen	2002	patent PCT/NL03/00337				patent
V.Y. Dindore, D.W.F. Brillman, F. Geuzebroek and G.F. Versteeg	Membrane Gas Absorption Process for CO2 removal from natural gas	2002	Proc. Jordan Int'l Chemical Conference IV			785-806	

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A.H.G. Cents, D.W.F. Brillman and G.F. Versteeg	Gas absorption in an agitated gas-liquid-liquid system	2001	Chemical Engineering Science	46		1357-1361	
P.S. Kumar, J.A. Hogendoorn, P.H.M. Feron and G.F. Versteeg	New absorption liquids for the removal of CO ₂ from dilute gas streams using membrane contactors	2001	ISMR-2, EFCE, 26-28 June, Nuremberg, Germany; abstract published in Chemie Ingenieur Technik	56		1075-1083	
P.S. Kumar, J.A. Hogendoorn, P.H.M. Feron and G.F. Versteeg	Density, viscosity, solubility and diffusion coefficient of N ₂ O in aqueous amino acid salt solutions	2001	Journal of Chemical & Engineering Data	73		769-770	
P.S. Kumar, J.A. Hogendoorn, P.H.M. Feron and G.F. Versteeg	Absorption liquids for the removal of CO ₂ from dilute gas streams using stable membrane contactors	2001	NPS, OSPT, 17-18 September, Lunteren, the Netherlands				
P.S. Kumar and G.F. Versteeg	Recent developments in membrane gas absorption	2000	Abstracts of papers of the American Chemical Society				
G.F. Versteeg and P.S. Kumar	CO ₂ recovery using membrane gas absorption systems	2000	Ind. Chemistry Awards Symp. Honoring Guido Saratori, Div. Ind. and Eng. Chem., Am.Chem.Soc., San Francisco, CA, USA				
P.S. Kumar, J.A. Hogendoorn, P.H.M. Feron and G.F. Versteeg	Membrane gas absorption systems - some recent developments	2000	International Seminar on Reactive Separation Technologies KVIV, Antwerp, Belgium, March				
M.C. Knaap, E. van Elk, J.E. Oude Lenferink and G.F. Versteeg	Differences in local absorption rates of CO ₂ as observed in numerically comparing tray columns and packed columns	2000	Proc. GPA 79 Annual Convention, Atlanta, GA, USA, March				
P.S. Kumar, J.A. Hogendoorn, P.H.M. Feron and G.F. Versteeg	Development and design of membrane gas absorption systems	1999	Workshop on Reaction Separation, Center for Separation Technology KCST, TNO-MEP, Apeldoorn, NL, November				
G.F. Versteeg and H. ter Maat	Method and system for selective removal of contamination from gas flows	1998	Patent				
G.F. Versteeg and H. ter Maat	Method and system for selective removal of contamination from gas flows	1998	Patent, 1998, WO 98/55209				

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J.P. Brouwer, S. Northwood, J.B. Rajani, G.F. Versteeg and J.A. Hogendoorn	Basic data on triazine-based H ₂ S scavengers	1998	Proc. 1997 Sulfur Recovery Conference, Gas Research Institute, Austin, TX, USA				
D.C. Engel, G.F. Versteeg and W.P.M. van Swaaij	Chemical equilibrium of hydrogen and aqueous solutions of 1:1 bicarbonate and formate salts with a common cation	1997	Fluid Phase Equilibria	135		109-136	
P.J. Boon, G.F. Versteeg and W.P.M. van Swaaij	Absorption of H ₂ S and NH ₃ in aqueous aldehyde solutions	1997	I. Chem E. Symposium series	142		357-364	
G.F. Versteeg, L.A.J. van Dijck and W.P.M. van Swaaij	On the kinetics between CO ₂ and alkanolamines both in aqueous and non-aqueous solutions. An overview	1996	Chemical Engineering Communications	144		113-158	
J.A. Hogendoorn, W.P.M. van Swaaij and G.F. Versteeg	The Absorption of carbon monoxide in COSORB solutions: absorption rate and capacity	1995	Chemical Engineering Journal	59		243-352	
R.J. Littel, G.F. Versteeg and W.P.M. van Swaaij	Absorption of CO ₂ and propene into toluene/water emulsions	1994	AIChE Journal	49		3421-3483	
J.A. Hoogendoorn, W.P.M. van Swaaij and G.F. Versteeg	Experimental study of the absorption of CO ₂ in porous particles impregnated with alkanolamine solutions	1994	Chemical Engineering Science	40		1629-1638	
W.P.M. van Swaaij and G.F. Versteeg	Separation by chemical processes. The role of reactor selection	1994	Proc. 3rd Intl Symp on Separation Technology, Antwerp, Belgium, august				
J.A. Hoogendoorn, G.F. Versteeg and W.P.M. van Swaaij	Experimental study of the absorption of CO ₂ in porous particles impregnated with alkanolamine solutions	1993	AIChE Spring National Meeting, Houston, TX, USA, maart	78		197-216	
H. Kreulen, C.A. Smolders, G.F. Versteeg and W.P.M. van Swaaij	Determination of mass transfer rates in wetted and non-wetted microporous membranes	1993	Chemical Engineering Science	78		217-238	
J.A. Hoogendoorn, G.F. Versteeg and W.P.M. van Swaaij	Mass transfer accompanied by reversible chemical reactions in an inert porous sphere impregnated with a stagnant liquid	1993	Chemical Engineering Science	48	11	2093-2102	

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H. Kreulen, C.A. Smolders, G.F. Versteeg and W.P.M. van Swaaij	Microporous hollow fibre membrane modules as gas-liquid contactors. Part I. Physical mass transfer processes. A specific application: mass transfer in highly viscous liquids	1993	Journal of Membrane Science	82		185-197	
H. Kreulen, C.A. Smolders, G.F. Versteeg and W.P.M. van Swaaij	Microporous hollow fibre membrane modules as gas-liquid contactors. Part II. Mass transfer with chemical reaction	1993	Journal of Membrane Science	45	15	2727-2740	
H. Kreulen, C.A. Smolders, G.F. Versteeg and W.P.M. van Swaaij	Selective removal of H ₂ S from sour gases with microporous membranes. Part II. A liquid membrane of water-free tertiary amines	1993	Journal of Membrane Science				
R.J. Littel, G.F. Versteeg and W.P.M. van Swaaij	Kinetic of COS with primary and secondary amines in aqueous solutions	1992	AIChE. J.	73		293-304	
R.J. Littel, G.F. Versteeg and W.P.M. van Swaaij	Kinetics of CO ₂ with primary and secondary amines in aqueous solutions. I. Zwitterion deprotonation kinetics for DEA and DIPA in aqueous blends of alkanolamines	1992	Chemical Engineering Science	37		42-45	
R.J. Littel, G.F. Versteeg and W.P.M. van Swaaij	Kinetics of CO ₂ with primary and secondary amines in aqueous solutions. II. Influence of Zwitterion formation and deprotonation kinetics rates	1992	Chemical Engineering Science	37		49-55	
W.P.M. van Swaaij and G.F. Versteeg	Mass transfer accompanies with complex reversible chemical reactions in gas-fluid systems: an overview	1992	Chemical Engineering Science	47	8	2027-2035	
R.J. Littel, G.F. Versteeg and W.P.M. van Swaaij	Kinetic study of COS with tertiary alkanolamine solutions. I. Experiments in an intensely stirred batch reactor	1992	I&EC Research	47	8	2037-2045	
R.J. Littel, G.F. Versteeg and W.P.M. van Swaaij	Kinetic study of COS with tertiary alkanolamine solutions. II. Modelling and experiments in a stirred cell reactor	1992	I&EC Research	31	5	1262-1269	
R.J. Littel, G.F. Versteeg and W.P.M. van Swaaij	Kinetic study of COS with tertiary alkanolamine solutions. II. Modelling and experiments in a stirred cell reactor	1992	Ind. Engineering Chem. Res.	31	5	1270-1274	
R.J. Littel, G.F. Versteeg and W.P.M. van Swaaij	Diffusivity measurements in some organic solvents by a gas-liquid diaphragm cell	1992	Journal of Chemical & Engineering Data	2	2	13-18	

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R.J. Littel, G.F. Versteeg and W.P.M. van Swaaij	Solubility and diffusivity data for the absorption of COS, CO ₂ and N ₂ O in amine solutions	1992	Journal of Chemical & Engineering Data	2	3	22-27	
H. Kreulen, G.F. Versteeg, C.A. Smolders and W.P.M. van Swaaij	Selective removal of H ₂ S from sour gases with microporous membranes. Part I. Application in a gas-liquid system	1992	Journal of Membrane Science	38		244-250	
R.J. Littel, G.F. Versteeg and W.P.M. van Swaaij	Verwijdering van carbonsulfide met alkanolamine processen	1992	Procestechologie	31		1269-1274	
R.J. Littel, G.F. Versteeg and W.P.M. van Swaaij	Invloed nevenreacties en ionenkoppeling bij absorptie CO ₂ en H ₂ S gering	1992	Procestechologie	47		3181-3195	
R.J. Littel, B. Filmer, G.F. Versteeg and W.P.M. van Swaaij	Modelling of simultaneous absorption of H ₂ S and CO ₂ in alkanolamine solutions: the influence of parallel and consecutive reversible reactions and the coupled diffusion of ionic species	1991	Chemical Engineering Science	46	9	2303-2313	
R.J. Little, G.F. Versteeg and W.P.M. van Swaaij	Physical absorption into non-aqueous solutions in a stirred cell reactor	1991	Chemical Engineering Science	46	12	3308-3313	
R.J. Littel, W.P.M. van Swaaij en G.F. Versteeg	Kinetics of carbon dioxide with tertiary amines in aqueous solution	1990	AIChE Spring National Meeting, Orlando, FL, USA				
R.J. Littel, W.P.M. van Swaaij en G.F. Versteeg	On the kinetics of carbonylsulfide with tertiary amines in aqueous solutions	1990	AIChE Spring National Meeting, Orlando, FL, USA	45		183-197	
G.F. Versteeg, J.A.M. Kuipers, F.P.H. van Beckum and W.P.M. van Swaaij	Mass transfer with complex reversible chemical reactions II. Parallel reversible chemical reactions	1990	Chemical Engineering Science	45	5	1167-1173	
H. Bosch, G.F. Versteeg and W.P.M. van Swaaij	Gas liquid mass transfer with parallel reversible reactions. Kinetics of the reaction of CO ₂ with sterically hindered amine 2-amino-2-methylpropanol at 298K	1990	Chemical Engineering Science			505-512	
H. Kreulen, G.F. Versteeg, W.P.M. van Swaaij and C.A. Smolders	Gas absorption in viscous liquids with hollow fiber membranes	1990	Membraantechologie P	1		52	

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H. Kreulen, G.F. Versteeg, C.A. Smolders and W.P.M. van Swaaij	Determination of mass transfer in wetted and non-wetted microporous membranes	1990	Proc. Int. Conf. On Membranes and Membrane Processes, Chicago, IL, USA	5		34	
H.J. Slood, G.F. Versteeg, C.A. Smolders and W.P.M. van Swaaij	A new membrane reactor for processes demanding strict stoichiometric reactant feed rates	1990	Proc. Int. Conf. On Membranes and Membrane Processes, Chicago, IL, USA	1		457	
H. Bosch, G.F. Versteeg and W.P.M. van Swaaij	Desorption of acid gases from loaded alkanolamines solutions	1990	Proc. Process Technology 8, Gas Separation & Purific., Antwerp, Belgium	36	11	1633-1640	
G.F. Versteeg and W.P.M. van Swaaij	Mass transfer and reaction kinetics in acid-gas treating processes	1990	Proc. Studiedag Absorptie, Technologisch Inst. KViV, Antwerp, Belgium				
G.F. Versteeg and M.H.Oyevaar	The reaction between CO ₂ and diethanolamine at 298 K	1989	Chemical Engineering Science	44		1264-1268	
G.F. Versteeg, J.A.M. Kuipers, F.P.H. van Beckum and W.P.M. van Swaaij	Mass transfer with complex chemical reactions. I. Single reversible reaction	1989	Chemical Engineering Science	44	10	2295-2310	
H. Bosch, G.F. Versteeg and W.P.M. van Swaaij	Gas-Liquid mass transfer with parallel reversible reactions III. Absorption of CO ₂ into solutions of blends of amines	1989	Chemical Engineering Science			513-520	
H. Bosch, G.F. Versteeg and W.P.M. van Swaaij	Gas-Liquid mass transfer with parallel reversible reactions I. Absorption of CO ₂ into solutions of sterically hindered amines	1989	Chemical Engineering Science	44	11	2745-2750	
H. Bosch, G.F. Versteeg and W.P.M. van Swaaij	Gas-Liquid mass transfer with parallel reversible re	1989	Chemical Engineering Science			505-512	
H. Bosch, J.A.M. Kuipers, W.P.M. van Swaaij and G.F. Versteeg	Mass transfer with complex chemical reactions. Simultaneous absorption of H ₂ S and CO ₂ in solutions of alkanolamines	1989	Gas Separation and Purification	44	11	2723-2734	
H. Kreulen, G.F. Versteeg, W.P.M. van Swaaij and C.A. Smolders	Mass transfer in hollow fiber membrane absorbers	1989	Membraantechnologie P	44	11	2735-2743	

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H. Bosch, G.F. Versteeg and W.P.M. van Swaaij	A centrifugal reactor for the selective removal of H ₂ S from CO ₂ containing gases	1989	Proc. Process Technology 8, Gas Separation & Purific., Antwerp, Belgium	3		75-84	
H. Bosch, G.F. Versteeg and W.P.M. van Swaaij	Desorption of acid gases from loaded alkanolamines solutions	1989	Proc. Process Technology 8, Gas Separation & Purific., Antwerp, Belgium	4		34	
G.F. Versteeg and W.P.M. van Swaaij	Absorption of CO ₂ and H ₂ S in aqueous alkanolamine solutions using a fixed bed reactor with cocurrent downflow operation in the pulsing flow regime	1988	Chem. Eng. Proceedings	43		573-585	
G.F. Versteeg and W.P.M. van Swaaij	On the kinetics between CO ₂ and alkanolamines both in aqueous and non-aqueous solutions. I Primary and secondary amines	1988	Chemical Engineering Science	43	3	587-591	
G.F. Versteeg and W.P.M. van Swaaij	On the kinetics between CO ₂ and alkanolamines both in aqueous and non-aqueous solutions. II tertiary amines	1988	Chemical Engineering Science	33		29-34	
G.F. Versteeg and W.P.M. van Swaaij	Stofoverdracht en reactie kinetiek in gasreinigingsprocessen (I)	1988	I2 Procestechologie	88		289-295	
G.F. Versteeg and W.P.M. van Swaaij	Stofoverdracht en reactie kinetiek in gasreinigingsprocessen (II)	1988	I2 Procestechologie	4	10	25-32	
G.F. Versteeg and W.P.M. van Swaaij	Hoge conversie met meestroom gepakt bed reactor. Gasreinigingsprocessen 2	1988	I2 Procestechologie	4		23-25	
G.F. Versteeg and W.P.M. van Swaaij	Solubility and diffusivity of acid gases (CO ₂ N ₂ O) in aqueous alkanolamine solutions	1988	Journal of Chemical & Engineering Data	11			
G.F. Versteeg and W.P.M. van Swaaij	Numerical calculation of mass transfer accompanied by complex reversible reactions. The removal of H ₂ S and CO ₂ from sour gases	1988	Proc. Conf. Chem. Data	24		163-176	
G.F. Versteeg, P.M.M. Blauwhoff and W.P.M. van Swaaij	The effect of diffusivity on gas-liquid mass transfer in stirred vessels	1987	Chemical Engineering Science	104		B139-B154	

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G.F. Versteeg and W.P.M. van Swaaij	The gas-liquid centrifugal reactor. A novel type of gas-liquid contactor	1987	I. Chem E. Symposium series	42		1103-1119	
G.F. Versteeg and W.P.M. van Swaaij	Stofoverdracht en reactie kinetiek in gasreinigingsprocessen	1987	SON jaarverslag			268-273	
P.M.M. Blauwhoff, G.F. Versteeg and W.P.M. van Swaay	The kinetics between CO ₂ and alkanolamines. A study on the reaction mechanism	1986	AIChE annual meeting, Miami Beach, Florida				
P.M.M. Blauwhoff, G.F. Versteeg and W.P.M. van Swaay	A study on the reaction between CO ₂ and alkanolamines in aqueous solutions	1984	Chemical Engineering Science	39	2	207-225	
P.M.M. Blauwhoff, G.F. Versteeg and W.P.M. van Swaay	A study on the reaction between CO ₂ and alkanolamines in aqueous solutions	1983	Chemical Engineering Science	38	9	1411-1429	