

PUBLICATIONS

(a) Books

1. E.Alper, "Mass Transfer with Chemical Reaction in Multiphase Systems", Vol. 1 and 2, Martinus-Nijhoff (1984).
2. A.Tigrel and E.Alper, "Engineering Economics for Chemical Engineers" (1995) (in Turkish).
3. E.Alper, W.Bouhamra and N.Al-Awadi,"Science and Technology of Petrochemical Processes" (1999) (Submitted to Kuwait University Press).

(a) Publications of Original Research

1. E. Alper, "Absorption of a gas into a solution containing more than one reactant : Analytical solutions of instantaneous reactions". Chem. Eng. Sci. 28, 1499 (1973).
2. E. Alper, "Gas absorption with second order reaction : Comparison of approximate enhancement factor equations". Chem. Eng. Sci. 28, 2092 (1973).
3. E. Alper, "The kinetics of oxidation of sodium sulphite solution". Trans. Instn. Chem. Engrs. (London) 51, 159, (1973).
4. P.V. Danckwerts and E. Alper, "Design of gas absorbers : Part 3. Laboratory "point" model of a packed-column absorber". Trans. Instn. Chem. Engrs. (London), 53, 54 (1975).
5. E. Alper and P.V. Danckwerts, "Laboratory scale model of a complete packed column absorber". Chem. Eng. Sci. 31, 599 (1976).
6. E. Alper, "Comments on the effect of carbonic anhydrase on carbon dioxide absorption". Chem. Eng. Sci. 33, 1399 (1978).
7. E. Alper, "Optimum length/diameter ratio of plastic rings for gas absorption with chemical reactions". Doga Bilim Dergisi. 2, No. 2, 89 (1978) (in Turkish).
8. E. Alper, "Measurement of effective interfacial area in a packed-column absorber by chemical methods". Trans. Instn. Chem. Engrs. 57, 64 (1979).
9. E. Alper, "Physical absorption of a gas in laboratory models of a packed column". AIChE J. 25, 545 (1979).
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13. E. Alper, "Optimum length of diameter ratio of plastic rings for gas absorption with irreversible chemical reaction". Chem. Eng. Sci. 34, 1091 (1979).
14. E. Alper, N. Wichtendahl and W.D. Deckwer, "Gas absorption mechanism in catalytic slurry reactors". Chem. Eng. Sci. 35, 217 (1980).
15. E. Alper and W.D. Deckwer, "Kinetics of absorption of carbon dioxide into buffer solutions containing carbonic anhydrase". Chem. Eng. Sci. 35, 549 (1980).
16. M. Lohse, E. Alper and W.D. Deckwer, "Gas absorption bei enzymkatalysierten Reaktionen". Chemie-Ing-tech. 52, 536 (1980).
17. W.D. Deckwer and E. Alper, "Katalytische suspensions - reaktoren". Chemie-Ing.-Tech. 52, 219 (1980).

18. E. Alper, M. Lohse and W.D. Deckwer, "On the mechanism of enzyme catalysed gas-liquid reactions : Absorption of carbon dioxide into buffer solutions containing carbonic anhydrase". *Chem. Eng. Sci.* 35, 2147 (1980).
19. E. Alper, W.D. Deckwer and P.V. Danckwerts, "Comparison of effective interfacial areas with the actual contact area for gas absorption in a stirred cell". *Chem. Eng. Sci.* 35, 1263 (1980).
20. E. Alper, "Reaction kinetics of dissolved glucose-oxygen system containing a slurry of Pt/C catalyst". *Doga Bilim Dergisi.* 4, 9 (1980) (in Turkish).
21. E. Alper, "Numerical computation of mass transfer rate for a reversible chemical reactions". *Doga Bilim Dergisi.* 5, 75 (1980) (in Turkish).
22. G. Quickers, M. Lohse, E. Alper and W.D. Deckwer, "Diffusivity of carbon dioxide in dilute polymeric solutions". *AIChE J.* 27, 626 (1981).
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28. E. Alper, "Auslegung von Fulkorpercolonnen als chemische absorber durch simulation in labormodelles". *Commun. de la Faculte des Sciences de L'Universite D'Ankara. Serie 5 : Chimie.* 28, 63 (1982).
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30. E. Alper, "Kinetics of absorption of acetylene into aqueous acidic solutions containing mercuric sulphate". *Chemie-Ing.-Tech.* 56, 777 (1984).
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48. E. Alper and W. Bouhamra, "Kinetics and Mechanism of the Reactions between Carbonyl Sulphide and primary and secondary amines in aqueous solutions", *Turk. J. Chem.* 17, 7-12 (1993).
49. I. Alatiqi, M. Sabri and E. Alper, "Multivariable control system design of CO₂/amine absorber/desorber unit by using a rigorous steady-state model", *Gas Sep. & Purification* 7, 119-121 (1993).
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58. .Bavbek and E.Alper,"Reaction mechanism and kinetics of aqueous solutions of primary and secondary alkanolamines and carbon dioxide", *Turkish Journal of Chemistry*, 23, 1-10 (1999).

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- 62 G. Al-Sharrah, I. Alatiqi, A. Elkamel, and E. Alper, "Planning an Integrated Petrochemical Industry with an Environmental Objective", *Ind. Eng. Chem. Res.* 40, 2103-2111 (2001).
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- 64..H.Kayi, S.A.Tuncel, A.Elkamel and E.Alper, "Prediction of lower critical solution temperature of N-isopropylacrylamide and acrylic acid copolymer by an artificial neural network model", *Journal of Molecular Modeling* , 11, Number 1,55-60 (2005).
- 65 Z.M. O. Rzayev, A.Yilmazbayhan and E.Alper, "Design and synthesis of Intercalated polypropylene/graft oligomer/organo-silicate nanocomposite architectures by reactive extrusion in situ processing", *Chem. Mater.*, ACS (accepted) (2006).

(c) Technical Notes

1. Alper, "Absorption of a gas into a solution containing two reactants". *Chem. Eng. Sci.* 27, 649 (1972).
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3. E. Alper, "Comments on "Kinetics of COS with primary and secondary amines in aqueous solutions", *AIChE J.* 39, 725-6 (1993).
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(d) Articles in Trade Journals and Chapters in Technical Books:

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2. E. Alper, "Design of industrial equipment from laboratory experiments in chemical engineering : 1. Design of packed columns for gas absorption with chemical reaction". *Kimya Muhendisligi*. No. 61, 23 (1973) (in Turkish).
3. E. Alper and S.P.S. Andrew, "Design of industrial equipment from laboratory experiments in chemical engineering : 2. Design of plate columns for distillation". *Kimya Muhendisligi*. No:62, 31, (1973) (in Turkish).
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 7. E. Alper, "Introduction to mass transfer with chemical reaction operations (with heavy emphasis on gas-liquid systems)". pp. 1-16 in *Mass Transfer with Chemical Reaction in Multiphase Systems : Volume 1*, edited by E. Alper, Martinus Nijhoff Pub., The Hague (1983).
 8. E. Alper, "Process design aspects of gas absorbers". pp. 291-340 in *Mass Transfer with Chemical Reaction in Multiphase Systems : Volume 1*, edited by E. Alper, Martinus Nijhoff Pub., The Hague (1983).
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 10. E. Alper and W.D. Deckwer, "Some aspects of gas absorption mechanism in slurry reactors". pp. 109-225 in *Mass Transfer with Chemical Reaction in Multiphase Systems : Volume 2*, edited by E. Alper, Martinus Nijhoff, The Hague (1983).
 11. O. Tutkun, R.A. Kumbasar and E. Alper, "Application of liquid membrane processes in wastewater treatment", *Ekoloji* Vol. 1, No. 1 p (29) (1991) (in Turkish).
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(e) Papers Presented at Conferences and Printed in Their Proceedings

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38. R. Koç, E. Alper, E. Croiset and A. Elkamel, "Kinetics of Partial Regeneration Catalysts for Methane Cracking", Chemindix, Bahrain (2007) (accepted)
39. E. Alper, R. Koç, E. Croiset and A. Elkamel, "Hydrogen and filamentous carbon production by thermocatalytic cracking of methane", Project Marketplace Event on Applied Research and Innovation on Hydrogen Technologies, February 2007, Gebze-Kocaeli-TURKIYE.