

Planar Chromatography

1. REVIEWS AND BOOKS

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910 Touchstone, J.C.: Thin layer chromatography. *Handb. Anal. Tech.*, 1 (2001) 327-344; *C.A.*, 135 (2001) 70125z - a review with 11 refs.

See also 919, 973, 995, 996, 1009, 1018, 1030, 1039, 1040, 1058, 1064, 1072, 1073, 1084, 1094, 1110, 1111, 1112, 1113, 1114, 1115, 1116, 1117, 1118, 1129, 1142, 1149, 1171, 1204.

2. FUNDAMENTALS, THEORY AND GENERAL

2a. General

911 Dzido, T.H. and Polit, D.: Retention of aromatic hydrocarbons with polar groups in binary reversed-phase thin-layer chromatography. *J. Planar Chromatogr.*, 14 (2001) 80-87.

912 Nosh, J.J., Meyer, J.A. and Everson, B.: What factors affect the separation of substances using thin-layer chromatography? An undergraduate experiment. *J. Chem. Educ.*, 78 (2001) 364-365; *C.A.*, 134 (2001) 340061t.

2c. Relationship between structure and chromatographic behaviour

See 1069.

2d. Measurement of physico-chemical and related values

913 Pyka, A.: Chromatographic data-topological index dependence for selected steroids. *J. Liq. Chromatogr. Relat. Technol.*, 24 (2001) 453-460.

See also 1120.

3. GENERAL TECHNIQUES

3b. Detectors and detection reagents

914 Spangenberg, B., Bramer, R., Seigel, A. and Klein, K.-F.: (Diode-array detection used in thin layer chromatography). *GIT Spez. Sep.*, 21 (2001) 37-39; *C.A.*, 135 (2001) 16210k.

See also 966.

3c. Sorbents and columns, packing procedures

915 Berezkin, V.G., Mardanov, R.G. and Markov, A.B.: Multicolumn plates of the "Sorbil" type for thin-layer chromatography. *Ind. Lab. (Diagn. Mater.)*, 66 (2000) 366-368; *C.A.*, 134 (2001) 243123g.

916 Cardenas, A.L., Castaneta, H. and Yapu, W.: (Synthesis and characterization of silica gel). *Rev. Bolv. Quim.*, 17 (2000) 28-33; *C.A.*, 134 (2001) 356326u.

3d. Quantitative analysis

917 Prosek, M., Golc-Wondra, A. and Vovk, I.: Quantifying uncertainty in quantitative TLC. *J. Planar Chromatogr.*, 14 (2001) 100-108.

See also 1154.

3e. Preparative scale chromatography

918 Fisher, T.L. and Gilman, C.P.: Cost-effective teacher: a preparative TLC applicator. *J. Chem. Educ.*, 78 (2001) 367; *C.A.*, 134 (2001) 340063v.

See also 939.

4. SPECIAL TECHNIQUES

4a. Automation

919 Zinsser, W.: (New tools for automated synthesis). *GIT Labor. Fachz.*, 34 (2001) 66-68; *C.A.*, 134 (2001) 297547s - a review with 2 refs.

4b. Computerization and modelling

See 1055.

4c. Combination with other physico-chemical techniques (MS, IR etc.)

See 964, 973, 1056, 1098, 1169.

4d. Affinity chromatography (advances)

See 1073.

4g. Enantiomers, separation

920 Zhu, Q.-H., Yu, P.-X., Deng, Q.-Y. and Zeng, L.-M.: β -Cyclodextrin-bonded chiral stationary phase for thin-layer chromatographic separation of enantiomers. *J. Planar Chromatogr.*, 14 (2001) 137-139.

See also 1108.

5. HYDROCARBONS AND HALOGEN DERIVATIVES

5a. Aliphatic hydrocarbons

See 921.

5b. Cyclic hydrocarbons, fullerenes

- 921 Cao, B., Shen, J., Liu, J. and Yue, C.: (Components analysis of vacuum residue oil groups by TLC/FID method). *Henan Huagong*, No. 1 (2001) 30-31; C.A., 135 (2001) 63575t.
- 922 Nazarkina, S.G., Bulanova, A.V., Purygin, P.P. and Larionov, O.G.: Chromatographic determination of benz[a]pyrene in snow cover. *Ind. Lab. (Diagn. Mater.)*, 66 (2000, Pub. 2001) 502-504; C.A., 134 (2001) 344192j.
- 923 Wu, L.: (Determination of biphenyl and phenanthrene in coal-tar wastewater by extraction-thin column GC). *Huangong Huanbao*, 21 (2001) 41-44; C.A., 134 (2001) 344183g.

See also 929.

5c. Halogen derivatives

See 947.

5d. Complex hydrocarbon mixtures (incl. analysis of tars, bitumens and mineral oils)

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- 925 Saoiabi, A., Doukkali, A., Hamad, M., Zrineh, A., Fernet, M. and Debyser, Y.: (The oil shales of Timahdit (Morocco): composition and physicochemical properties). *C.R. Acad. Sci., Ser. IIc: Chim.*, 4 (2001) 351-360; C.A., 135 (2001) 79188e.

6. ALCOHOLS

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7. PHENOLS

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- 929 Zarzycki, P.K.: Normal- and reversed-phase thin-layer chromatography of selected calixarenes and pyrene. *J. Planar Chromatogr.*, 14 (2001) 113-118.

See also 1197.

8. SUBSTANCES CONTAINING HETEROCYCLIC OXYGEN

8a. Flavonoids

- 930 Cheng, D., Liu, Y. and Ren, W.: (Determination of daidzin in soya drugs by scanning TLC). *Baiqiuwen Yike Daxue Xuebao*, 27 (2001) 140-141; C.A., 135 (2001) 24761f.
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See also 1186.

8b. Aflatoxins and other mycotoxins

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See also 1133.

9. OXO COMPOUNDS, ETHERS, EPOXIDES AND QUINONES

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See also 968.

10. CARBOHYDRATES

10a. Mono and oligosaccharides. Structural studies

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See also 931, 932, 962, 963, 976, 1047.

10b. Polysaccharides, mucopolysaccharides, lipopolysaccharides

- 961 Adeil Pietranera, M.S. and Narvaiz, P.: Examination of some protective conditions on technological properties of irradiated food grade polysaccharides. *Radiat. Phys. Chem.*, 60, No. 3 (2001) 195-201; *C.A.*, 134 (2001) 365957c.
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- See also 990, 998, 1000, 1003, 1011, 1012, 1017, 1022, 1026, 1028.
- 10c. *Glycoproteins and their constituents*
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- See also 1103.
11. ORGANIC ACIDS AND LIPIDS
- 11a. *Organic acids and simple esters*
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- See also 980, 992, 1004, 1007, 1150.
- 11c. *Lipids and their constituents*
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19. PROTEINS

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See 981.

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20b. Transferases (excl. E.C. 2.7.-.-)

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See 1049.

21. PURINES, PYRIMIDINES, NUCLEIC ACIDS AND THEIR CONSTITUENTS

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