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Davison W (2016) Diffusive gradients in thin-films for environmental measurements. Cambridge Environmental Chemistry, Cambridge Google Scholar Davison W, Zhang H (1994) In situ speciation measurements of trace components in natural waters using thin-film gels.

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The diffusive gradients in thin-films (DGT) technique is a means of measuring the concentration and speciation of metals in natural waters. Edited by one of the pioneers of the technique, this unique volume provides a complete and authoritative guide to the theory and applications of DGT.

Abstract: Measurements at high spatial resolution by DGT (diffusive gradients in thin films) require a binding agent that is homogeneously distributed in the binding layer. Formation of ferrihydrite by in situ precipitation within a hydrogel has been previously ...

Diffusive Gradients in Thin Films Technique Equipped with a Mixed Binding Gel for Simultaneous Measurements of Dissolved Reactive Phosphorus and Dissolved Iron

Diffusive Gradients in Thin-films (DGT) March 2002 A Technique for Determining Bioavailable Metal Concentrations . International Network for Acid Preventi Part I DGT Theory and Application Literature Survey . International Network for Acid Preventi Executive Summary . i Executive Summary Trace metals exist in a variety of inorganic and organic forms in aquatic systems, ranging from simple ...

Diffusive gradients in thin films (DGT), first reported by Zhang and co-workers in 1994 (Davison and Zhang, 1994), is an in-situ, passive sampling technique that can quantitatively uptake labile species in aqueous solution through a concentration-dependent dynamic process. The concentration of analytes accumulated by DGT can be calculated by the Eq.

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