

GENEALOGY DATABASE ENTRY

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Bredig, Georg

1868 - 1944

DEGREE: PhD

DATE: 1894

PLACE: Leipzig

TEACHER/RESEARCH ADVISOR: Ostwald

investigated the synthesis of optically active compounds by asymmetric organic catalysts such as quinine and cellulose; studied the catalytic activity of colloidal and finely divided metals and established the pH dependence of their rates of catalysis; discovered that the mercury-catalyzed decomposition of H_2O_2 is a "pulsing catalysis" where the reaction rate rhythmically rises and falls; discovered that thermolysis of diazoacetic esters is catalyzed by protons (and that this reaction is useful for measuring small H^+ concentrations); studied the catalytic synthesis of HCN from NH_3 and CO; studied electrolytic dissociation and the conductivity of electrolyte solutions; developed the concepts of amphoteric electrolytes and zwitterions.

1. *Chem. Ber.* **1962**, 95, lxvii-lv.
2. *Festschr. zur 125 Jahrfeier. Techn. Hochsch. Fridericiana Karlsruhe* **1950**, 27-28.
3. *Z. Elektrochem. Angew. Physik. Chem.* **1928**, 34, 677-679.