GENEALOGY DATABASE ENTRY

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Bodenstein, Max Ernst August

1871 - 1942

DEGREE: PhD DATE: 1893 TEACHER/RESEARCH ADVISOR: Meyer

PLACE: Heidelberg

pioneer in chemical kinetics; studied decomposition of hydrohalic acids and their formation from $H_2 + X_2$; first to postulate a chain reaction mechanism and that explosions are branched chain reactions; first to elucidate kinetics and mechanisms of heterogeneous reactions, esp. Pt-catalyzed oxidation of SO_2 to SO_3 , CO to CO_2 , and NH_3 to nitrogen oxides; studied catalysis in flowing systems and discovered diffusion controlled catalytic reactions; established the importance of termolecular collisions in kinetics; studied photochemical reactions.

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- 2. Dictionary of Scientific Biography; Charles Scribner's Sons: 1970-1990; vol. 15, p36-38.
- 3. Asimov, I. Asimov's Biographical Encyclopedia of Science and Technology (2nd Ed.); Doubleday: 1982; p634.
- 4. Chem. Ber. 1967, 100, xcv-cxxvi.
- 5. Naturwiss. 1942, 30, 737-739.
- 6. Neue Deutsche Biographie; Duncker & Humblot: 1953-1990; vol. 2, p357.
- 7. Z. Elektrochem. 1941, 47, 469-475.
- 8. Jahrb. Deut. Akad. Wiss. Berlin 1946-9, 127-138.
- 9. Jahrb. Bayer. Akad. Wiss. 1944-8, 248-249.