

PUBLICATIONS OF EUGENE RABINOWITCH

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I. BOOKS

A. Sciences

1. 1928. *In* Abegg's Handbuch der Anorganischen Chemie. Hirzel Verlag S., Leipzig, Germany. 4.
 - (a) Edelgase (Rare gases). (Pt. 3.1). 514 pp.
 - (b) Iron atom. (Pt. 3.2). 50 pp.
 - (c) Cobalt atom. (Pt. 3.3). 54 pp.
 - (d) Nickel atom. (Pt. 3.4). 79 pp.
2. With E. Thilo. 1930. Periodisches System, Geschichte und Theorie. (Periodic System, History and Theory). F. Enke, Verlag, Stuttgart, W. Germany. 302 pp. Russian translation (Moscow).
3. 1930. Grundbegriffe der Chemie. (Fundamental Concepts of Chemistry). (Götschen Bücherei No. 804). Walter De Gruyter and Co., Berlin, Germany. 151 pp.
4. 1945. Photosynthesis and Related Processes. Interscience Publishers, Inc., New York. 1. 599 pp. 1951. 2 (Pt. 1). 606 pp. 1956. 2 (Pt. 2). 878 pp. Russian translation (Moscow, 1951-59).
5. With J. J. Katz. 1951. The Chemistry of Uranium: the Element, Its Binary and Related Compounds. McGraw-Hill Book Company, New York. 1961. Dover Publications, Inc., New York. 609 pp. Russian translation (Moscow).
6. 1958. La Photosynthèse. Gauthier-Villars, Paris, France. 172 pp.
7. With R. Linn Belford. 1964. Spectroscopy and Photochemistry of Uranyl Compounds. Pergamon Press Ltd., Oxford, England. 370 pp.
8. With Govindjee. 1969. Photosynthesis. John Wiley & Sons, Inc., New York. 373 pp. Translated into Japanese and Italian.

B. Public Affairs

1. 1950. Minutes to Midnight (The International Control of Atomic Energy). Bulletin of Atomic Scientists, Chicago, Ill. 128 pp.
2. S. Hecht. 1961. Explaining the Atom. New edition edited and enlarged by E. Rabinowitch. The Viking Press, Inc., New York. 237 pp.

3. 1963. Atomic Age (Anthology of Articles from the *Bulletin of the Atomic Scientists* 1945–62). Introduced and edited by M. Grodzins and Eugene Rabinowitch. Basic Books, Inc., Publishers, New York. 616 pp. Translated into Japanese (1965), Spanish (1966), and Italian (1968).
4. 1963. Dawn of a New Age, Reflections on Science and Human Affairs. University of Chicago Press, Chicago, Ill. 332 pp. Translated into Japanese (1968).
5. Scientific Revolution. In preparation.

II. SCIENTIFIC PAPERS¹

1. With F. Paneth. 1924. Tin hydride (SnH_4) and other volatile metal hydrides. *Ber. Deut. Chem. Ges.* **57**:1877, 1891. 1925. **58**:1138, 2446, 2790.²
2. With H. Beutler. 1929. Reactions of Hg^* -atoms [double excitation, $2\text{Hg}^* \rightarrow \text{Hg}^{**} + \text{Hg}$; interactions with H_2 ($\text{Hg}^* + \text{H}_2 \rightarrow \text{HgH} + \text{H}$) and H_2O ($\text{Hg}^* + \text{H}_2\text{O} \rightarrow \text{HgOH} + \text{H}$); preservation of rotational momentum]. *Z. Phys. Chem. Abt. B.* **6**:233. 1930. **8**:231, 403.
3. With E. Thilo. 1930. Boundary between ionic and atomic compounds. *Z. Phys. Chem. Abt. B.* **6**:284.
4. With J. Franck and³ W. C. Wood. 1930. Kinetics of photochemical reactions. "Chlorknallgas" reaction. *Z. Elektrochem.* **36**:794. 1932. Photobromination of C_6H_6 . *Z. Phys. Chem. Abt. B.* **19**:190.² 1934. Free radicals in solutions. *Faraday Soc. Trans.* **30**:120. 1936. **32**:1381. 1937. **33**:1225.²
5. With D. Chilton and W. C. Wood. 1932. Gas uptake by zeolithes. *Z. Phys. Chem. Abt. B.* **16**:43.² **19**:107. 1933. *Z. Elektrochem.* **39**:562. *Nature (Lond.)*. **132**:640. 1936. *Faraday Soc. Trans.* **32**:947.
6. With H. C. Lehman and W. C. Wood. 1935. Kinetics of recombination of Br and I atoms. *Faraday Soc. Trans.* **31**:689. 1936. **32**:540, 547, 816, 840, 907, 917. 1937. **33**:283.² 1936. *J. Chem. Phys.* **4**:358, 497. *Z. Phys. Chem. Abt. B.* **33**:275.²
7. With E. Porret and J. Weiss. 1936. Reversible oxidation of chlorophyll by Fe^{2+} . *Nature (Lond.)*. **138**:1098. *Proc. R. Soc. Lond. A. Math. Phys. Sci.* **162**:251. 1937. *Nature (Lond.)*. **140**:321.
8. 1938. Sorption of CO_2 by solid chlorophyll. *Nature (Lond.)*. **141**:39.
9. 1940. Reversible reduction and photogalvanic effect in thionine and methylene blue. *J. Chem. Phys.* **8**:551, 560. With S. Ichimura. 1960. *Science (Wash. D. C.)*. **131**:1314. With S. Ainsworth. 1960. *Science (Wash. D. C.)*. **131**:303. With K. G. Mathai. 1962. *J. Phys. Chem.* **66**:663, 954. With D. Frackowiak. *J.*

¹ Exclusive of reviews and papers by coworkers which Dr. Rabinowitch did not coauthor; papers are listed by topics, not titles.

² Author: E. Rabinowitch alone.

³ "And" does not mean that papers listed are by all the authors.

- Phys. Chem.* 1966. **70**:3012. With V. Srinivasan and G. Singhal. *J. Chem. Phys.* 1970. **52**:1165. **53**:4105. 1967. *J. Phys. Chem.* **71**:3347.
10. With L. Epstein and D. Kharash. 1941. Dimerization of thionine and methylene blue. *J. Am. Chem. Soc.* **63**:69. *J. Opt. Soc. Am.* **31**:77.
 11. With W. Stockmayer. 1942. Association of Fe^{3+} cations with Cl^- , Br^- and OH^- anions. *J. Am. Chem. Soc.* **64**:335.
 12. With K. A. Clendenning and H. C. Ehrmantraut. 1950. Photosynthesis and Hill reaction in flashing light. *Arch. Biochem. Biophys.* **29**:387. 1952. **38**:67.
 13. With E. E. Jacobs, A. E. Vatter, R. Kromhout, and A. S. Holt. 1952. Crystals and monolayers of chlorophyll and chlorophyllide. *J. Chem. Phys.* **20**:1326. *Z. Phys.* **133**:261. 1953. *J. Chem. Phys.* **22**:142. 1957. *Arch. Biochem. Biophys.* **72**:495.
 14. With P. Latimer. 1956. Selective light scattering by algae. *J. Chem. Phys.* **24**:480. 1957. In *Research in Photosynthesis*. Interscience Publishers, Inc., New York. 100. 1959. *Arch. Biochem. Biophys.* **84**:428.
 15. With J. W. Coleman, A. S. Holt, and D. Rubinstein. 1956. Difference spectra of algae. *Science (Wash. D. C.)*. **123**:795. 1957. In *Research in Photosynthesis*. Interscience Publishers, Inc., New York. 68. 1959. *J. Phys. Chem.* **63**:30. 1962. *J. Phys. Chem.* **66**:2537.² 1963. *Science (Wash. D. C.)*. **142**:681. 1964. *Biophys. J.* **4**:107.
 16. With P. Latimer, T. T. Bannister, C. N. Cederstrand, and N. R. Murty. 1956. Fluorescence yield of chlorophyll in vitro and in vivo. *Science (Wash. D. C.)*. **214**:585. 1957. In *Research in Photosynthesis*. Interscience Publishers, Inc., New York. 107. 1965. *Photochem. Photobiol.* **4**:917.
 17. With S. S. Brody, N. R. Murty, and G. Singhal. 1957. Decay of chlorophyll fluorescence in vitro and in vivo. *Science (Wash. D. C.)*. **125**:555. 1965. *Biophys. J.* **5**:655. 1969. **9**:586.
 18. With S. S. Brody, G. Tomita, G. S. Singhal, and J. Hevesi. 1957. Excitation energy transfer between pigments in vivo. *J. Phys. Chem.* **61**:870.² 1958. *J. Chim. Phys. Physicochim. Biol.* **55**:927. 1959. *Plant Physiol.* **34**:213.² *Faraday Soc. Trans.* **27**:161.² Proceedings of the 1st U. S. Biophysics Congress. 110. 1962. *Comp. Biochem. Physiol.* **4**:159.² *Biophys. J.* **2**:483. 1968. *J. Chem. Phys.* **49**:5206.
 19. With C. N. Cederstrand and Govindjee. 1966. Analysis of red chlorophyll *a* absorption band. *Biochim. Biophys. Acta.* **120**:247. **126**:1.
 20. 1945. "Red drop," enhancement effect, and two-step photochemical process in photosynthesis. In *Photosynthesis*. 1:160. With R. Emerson. 1960. *Plant Physiol.* **35**:477. *Proc. Natl. Acad. Sci. U.S.A.* **47**:1296.² With R. Govindjee and J. B. Thomas. 1960. *Science (Wash. D. C.)*. **132**:421. With Govindjee, S. Ichimura, and C. Cederstrand. 1960. *Arch. Biochem. Biophys.* **89**:322. With Govindjee. 1960. *Science (Wash. D. C.)*. **132**:355. *Biophys. J.* **1**:73. 1961. In

- Light and Life. 378. With R. Govindjee. *Biophys. J.* **1**:377. 1962. *Plant Physiol.* **34**:213.² 1963. *Natl. Acad. Sci. Natl. Res. Counc. Publ.* **1145**:112.² *Colloq. Int. Cent. Natl. Rech. Sci.* **119**:125.² With L. Szalay, N. R. Murty, and Govindjee. 1967. *Biophys. J.* **7**:137. 1968. **8**:1731.
21. 1951. "Sieve effect" and interpretation of algal spectra. In Photosynthesis. **2** (Pt. 1):714. 1956. **2** (Pt. 2):1865. With M. Das, L. Szalay, and G. Papa-georgiou. 1967. *J. Phys. Chem.* **71**:3543. See also 1968. *Biophys. J.* **8**:1131.
 22. With Govindjee, J. B. Thomas, C. Cederstrand, and M. Das. 1960. Far red light effect on photosynthesis. *Science (Wash. D. C.)*. **132**:422. *Biophys. J.* **1**:91. 1961. *Science (Wash. D. C.)*. **134**:391.
 23. With R. Govindjee and Govindjee. 1968. Maximum quantum yield of photosynthesis. *Biochim. Biophys. Acta.* **162**:539.
 24. With N. R. Murty. 1964. Energy transfer between pigments in vitro. *J. Chem. Phys.* **41**:602. With G. S. Singhal, J. Hevesi, and V. Srinivasan. 1970. *Photochem. Photobiol.* **11**:531.

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