

## List of Papers by Professor Arakatsu's Pupils.

1. Y. Ōta,  
Studies on concentrating the hydrogen isotope  $H^2$  by the electrolysis of water. Part I. Mem. Fac. Sci. & Agr., Taihoku Imp. Univ., **19** (1934), 71.
2. Y. Ōta,  
Studies on concentrating the hydrogen isotope  $H^2$  by the electrolysis of water. Part II. 'The production of heavy water and its apparatus' Mem. Fac. Sci. & Agr., Taihoku Imp. Univ., **15** (1935), 165.
3. K. Kimura,  
Determination of the energy of photo-neutrons liberated from deuteron by radium C gamma-rays. Mem. Coll. Sci., Kyoto Imp. Univ., A, **22** (1939), 237.
4. K. Kimura and Y. Uemura,  
A counting instrument with linear amplifier. Mem. Coll. Sci., Kyoto Imp. Univ., A, **23** (1940), 1.
5. K. Kimura,  
Study on radioactivity of hokutolite in Taiwan by means of a counter with linear amplifier. Mem. Coll. Sci., Kyoto Imp. Univ., A, **23** (1940), 7.
6. T. Hagiwara,  
Liberation of fast neutrons in the nuclear explosion of uranium irradiated by thermal neutrons. Mem. Coll. Sci., Kyoto Imp. Univ., A, **23** (1940), 19.
7. Y. Uemura,  
Measurement of coefficient of friction by photo-elastic method. (*in Japanese*) Rep. Inst. Chem. Res., Kyoto Univ., **16** (1947), 53.
8. S. Shimizu,  
Vital phenomena treated as physical problems. (*in Japanese*) Saishin-Igaku, **2** (1947), 309.
9. S. Shimizu and J. Muto,  
A note on the angular distribution of pair-electrons of 17 Mev gamma-rays. Mem. Coll. Sci., Univ. of Kyoto, A, **25** (1949), 61.
10. K. Kimura, R. Ishiwari, T. Hayashi and K. Nishikawa,

- Measurement of radioactivity of sedimentation products of Ikeda mineral spring. (*in Japanese*) Rep. Inst. Chem. Res., Kyoto Univ., **17** (1949), 89.
11. K. Fujii and S. Terai,  
On an electric loss of the low fired (below 1000° C) clays under high frequency. (*in Japanese*) Rep. Inst. Chem. Res., Kyoto Univ., **17** (1947), 91.
  12. Y. Uemura,  
Preparation of test-piece of gelatin-jelly for photo-elasticity. (*in Japanese*) Rep. Inst. Chem. Res., Kyoto Univ., **17** (1947), 93.
  13. K. Kimura, Y. Uemura and T. Yanabu,  
Study on the extrusion press using clay. (*in Japanese*) Rep. Inst. Chem. Res., Kyoto Univ., **18** (1949), 81.
  14. Y. Uemura and T. Yanabu,  
On the relation between the coefficient of friction and "writing ease" of the pencil. (*in Japanese*) Rep. Inst. Chem. Res., Kyoto Univ., **18** (1949), 84.
  15. K. Kimura, T. Hayashi, K. Nishikawa and K. Ishizaki,  
On the eliminating method of natural counts of G-M counter. (*in Japanese*) Rep. Inst. Chem. Res., Kyoto Univ., **18** (1949), 86.
  16. Y. Uemura,  
Study on the plastic deformation from the drawing mechanism by means of photo-elasticity. (*in Japanese*) Rep. Inst. Chem. Res., Kyoto Univ., **18** (1949), 88.
  17. R. Ishiwari and K. Yuasa,  
A new decade scaler. (*in Japanese*) Rep. Inst. Chem. Res., Kyoto Univ., **18** (1949), 90.
  18. Y. Uemura and T. Yanabu,  
On the extrusion press. (*in Japanese*)  
On the physical properties of pencil. (*in Japanese*)  
On the clay suitable for making pencil. (*in Japanese*)  
First Report of the Committee for Pencil, Osaka Pref., Aug., (1949), 3—44.
  19. R. Ishiwari and K. Yuasa,  
On the disintegration of  ${}^7\text{N}^{14}$  by slow neutrons: Accurate determination of the energy of reaction. (*in Japanese*) Rep. Inst. Chem. Res., Kyoto Univ., **19** (1949), 19.

20. Y. Uemura, S. Shimizu, S. Yasumi and Y. Saji,  
The absorption of gamma-radiation of 17 Mev and 6.1 Mev in several elements. (*in Japanese*) Rep. Inst. Chem. Res., Kyoto Univ., **19** (1949), 21.
21. S. Shimizu, Y. Uemura, R. Ishiwari, Y. Saji and J. Muto,  
Nuclear reaction  $\text{Cu}^{63}(\gamma, n)\text{Cu}^{62}$  produced by 17.6 Mev gamma-rays. (*in Japanese*) Rep. Inst. Chem. Res., Kyoto Univ., **19** (1949), 23.
22. T. Yanabu, T. Yoshida and Y. Uemura,  
Studies on clay, II. (*in Japanese*) Rep. Inst. Chem. Res., Kyoto Univ., **19** (1949), 29.
23. K. Kimura, Y. Uemura and S. Yamashita,  
Automatic diameter selection of pins (part of roller chains). Rep. Inst. Chem. Res., Kyoto Univ., **19** (1949), 32.
24. R. Ishiwari and K. Yuasa,  
A decade scaling circuit. Mem. Coll. Sci., Univ. of Kyoto, A, **25** (1949), 155.
25. M. Sonoda,  
A type of Geiger-Müller counter suitable for the measurement of high energy gamma-rays. Mem. Coll. Sci., Univ. of Kyoto, A, **25** (1949), 175.
26. M. Sonoda,  
On the proportional counter. Mem. Coll. Sci., Univ. of Kyoto, A, **25** (1949), 185.
27. S. Shimizu,  
Photo-induced reaction  $\text{Cu}^{63}(\gamma, n)\text{Cu}^{62}$  produced by the gamma-rays of lithium bombarded with high speed protons. Mem. Coll. Sci., Univ. of Kyoto, A, **25** (1949), 193.
28. Y. Uemura,  
The deep-drawing process. (*in Japanese*)  
The general view on the technique of iron and steel of Japan, 1950 (with S. Koyabu, S. Ono and S. Kawamoto).
29. K. Kimura and K. Ohira,  
Electron bombardment conductivity of  $\text{BaO} + \text{SrO}$ . Bull. Inst. Chem, Res., Kyoto Univ., **20** (1950), 41.
30. S. Shimizu, Y. Ōno and T. Naiki,

- On some properties of Dewar vessels. Bull. Inst. Chem. Res., Kyoto Univ., **20** (1950), 42.
31. S. Shimizu and O. Horibe,  
Portable radiation detector instrument. Bull. Inst. Chem. Res., Kyoto Univ., **20** (1950), 43.
32. T. Yoshida, T. Yanabu, Y. Uemura and K. Kimura,  
On the stability of the tube potentiometer. Bull. Inst. Chem. Res., Kyoto Univ., **21** (1950), 54.
33. K. Kimura, T. Hayashi, Y. Ishizaki and K. Nishikawa,  
An attempt to eliminate the natural counts of the G-M counter. Bull. Inst. Chem. Res., Kyoto Univ., **21** (1950), 54.
34. K. Kimura, T. Hayashi, Y. Ishizaki and K. Nishikawa,  
On the gamma-rays of  $K^{40}$ . Bull. Inst. Chem. Res., Kyoto Univ., **21** (1950), 55.
35. Y. Uemura, S. Shimizu and Y. Saji,  
On the properties of  $2\pi$ -type beta-ray G-M counter. Bull. Inst. Chem. Res., Kyoto Univ., **21** (1950), 56.
36. S. Shimizu, Y. Uemura and Y. Saji,  
On a stable  $2\pi$ -type beta-ray counter. Bull. Inst. Chem. Res., Kyoto Univ., **21** (1950), 57.
37. M. Sonoda, J. Muto and S. Yasumi,  
Observation of the  $B(n, \alpha) Li$  reactions by the Wilson cloud chamber. Bull. Inst. Chem. Res., Kyoto Univ., **21** (1950), 57.
38. M. Sonoda,  
On the property of the proportional counter. Bull. Inst. Chem. Res., Kyoto Univ., **21** (1950), 58.
39. M. Sonoda,  
The efficiency of the G-M counter for high energy gamma-quanta. Bull. Inst. Chem. Res., Kyoto Univ., **21** (1950), 58.
40. K. Kimura, S. Tokunaga, K. Yuasa and R. Ishiwari,  
Observation of cosmic-rays with photographic emulsions (1). Bull. Inst. Chem. Res., Kyoto Univ., **21** (1950), 59.
41. Y. Uemura, R. Ishiwari and K. Yuasa,  
Study on pulse shapes of alpha-ray counter with ionization chamber and linear amplifier. Bull. Inst. Chem. Res., Kyoto Univ., **21** (1950), 60.

42. K. Yuasa and R. Ishiwari,  
A method of measuring ion mobility using an alpha-ray counter. Bull. Inst. Chem. Res., Kyoto Univ., 21 (1950), 61.
43. Y. Saji,  
Absolute measurement of beta-rays by  $2\pi$ -type counter. (*in Japanese*) Saishin-Igaku, 5 (1950), 744.
44. M. Sonoda,  
Flow-type beta-ray proportional counter. (*in Japanese*) Saishin-Igaku, 5 (1950), 748.
45. R. Ishiwari,  
Statistical treatment of counting data. (*in Japanese*) Saishin-Igaku, 5 (1950), 751.
46. S. Tokunaga,  
Measurement of the branching ratio of thorium C by a photographic method. Mem. Coll. Sci., Univ. of Kyoto, A, 26 (1950), 109.
47. R. Ishiwari and K. Yuasa,  
The energy released in the disintegration of nitrogen by thermal neutrons. Mem. Coll. Sci., Univ. of Kyoto, A, 26 151.
48. S. Shimizu, S. Yasumi, Y. Saji and J. Muto,  
The  $(\gamma, n)$  reaction of molybdenum produced by the Li ( $p, \gamma$ )- $\gamma$ -rays. Mem. Coll. Sci., Univ. of Kyoto, A, 26 (1950), 85.
49. K. Kimura, S. Tokunaga, R. Ishiwari and K. Yuasa,  
Observation of cosmic rays with nuclear emulsions. Mem. Coll. Sci., Univ. of Kyoto, A, 26 (1950), 167.
50. M. Sakisaka, S. Miyashiro, Y. Uemura and S. Yasumi,  
Studies on the ion source placed in a magnetic field. Mem. Coll. Sci., Univ. of Kyoto, A, 26 (1950), 143.
51. K. Ohira,  
Researches on the activation energy of (Ba, Sr) O by electron bombardment. Mem. Coll. Sci., Univ. of Kyoto, A, 26 (1950), 131.
52. K. Kimura,  
Application of radioisotopes. Bull. Inst. Chem. Res., Kyoto Univ., A, 22 (1950), 1.
53. Y. Uemura,  
Measurement of absorption coefficients of 17 Mev and 6.1 Mev gamma-

- rays in several elements. Bull. Inst. Chem. Res., Kyoto Univ., **22** (1950), 18.
54. J. Kokame, A. Katase and S. Yano,  
On the whirling of rotating shaft at high rotational speed. Bull. Inst. Chem. Res., Kyoto Univ., **22** (1950), 68.
55. S. Yano, A. Katase and J. Kokame,  
On the torque acting on the rotor rotating in the rotating magnetic field. Bull. Inst. Chem. Res., Kyoto Univ., **22** (1950), 69.
56. K. Kimura, K. Yuasa, R. Ishiwari and S. Tokunaga,  
Observation of cosmic rays with photographic emulsion. II. Bull. Inst. Chem. Res., Kyoto Univ., **22** (1950), 70.
57. M. Sonoda,  
The efficiency of the Geiger-Müller counter for the high energy gamma-rays. Bull. Inst. Chem. Res., Kyoto Univ., **22** (1950), 70.
58. S. Shimizu, Y. Uemura, R. Ishiwari, O. Horibe and S. Okamoto,  
Some experiments on  $P^{32}$ . Bull. Inst. Chem. Res., Kyoto Univ., **22** (1950), 72.
59. Y. Uemura, M. Sakisaka and S. Miyashiro,  
On some device of the gas leak apparatus for measuring the pumping speed. Bull. Inst. Chem. Res., Kyoto Univ., **23** (1950), (in press).
60. K. Kimura, K. Yuasa, S. Yamashita and R. Ishiwari,  
On the characteristics of ionization chamber with screen-grid. Bull. Inst. Chem. Res., Kyoto Univ., **23** (1950), (in press).
61. K. Kimura and K. Ōhira,  
Electron bombardment conductivity of (Ba, Sr)O II. Bull. Inst. Chem. Res., Kyoto Univ., **23** (1950), (in press).
62. Y. Uemura, Y. Saji and S. Shimizu,  
On some properties of  $2\pi$ -type counter (II). Bull. Inst. Chem. Res., Kyoto Univ., **23** (1950), (in press).
63. K. Kimura, I. Kumabe, I. Nakatao, H. Ueyanagi and A. Kusumegi,  
Trial manufacture of electron accelerator using cavity resonator. Bull. Inst. Chem. Res., Kyoto Univ., **23** (1950), (in press).
64. K. Kimura, I. Kumabe, I. Nakatao, H. Ueyanagi and A. Kusumegi,  
 $E_p$ - $I_p$  characteristic curves of magnetron. Bull. Inst. Chem. Res.,

- Kyoto Univ., **23** (1950), (in press).
65. S. Shimizu, H. Takegoshi, H. Nishimura and N. Ogura,  
Operation of an electron-multiplier. Bull. Inst. Chem. Res., Kyoto Univ., **23** (1950), (in press).
66. Y. Uemura, M. Takai and K. Takemura,  
Measurement of the coefficient of friction. Bull. Inst. Chem. Res., Kyoto Univ., **23** (1950), (in press).
67. K. Kimura, Y. Uemura, T. Yanabu and T. Yoshida,  
Dielectric properties of mud pastes under alternating field of low frequency. Bull. Inst. Chem. Res., Kyoto Univ., **23** (1950), (in press).
68. K. Kimura, T. Hayashi, Y. Ishizaki and K. Nishikawa,  
On the delayed coincidence circuits (I). Bull. Inst. Chem. Res., Kyoto Univ., **23** (1950), (in press).
69. K. Kimura and S. Tokunaga,  
Observation of cosmic-rays with photographic emulsions. (*in Japanese*) Nippon-Butsuri-Gakkaishi **5** (1950), 147.
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