
 CONTENTS

Wang Yuan: A Brief Outline of His Life and Works <i>Li Wen-Lin and Yuan Xiang-Dong</i>	xi
1. Number Theory	
[1] On the Representation of Large Even Integer as a Sum of a Product of at Most 3 Primes and a Product of at Most 4 Primes, <i>Acta Math. Sin.</i> 6:3 (1956) 500–513	1
[2] On Some Properties of Integral Valued Polynomials, <i>Shuxue Jinzhan</i> 3:3 (1957) 416–423	16
[3] On Sieve Methods and Some of the Related Problems, <i>Sci. Rec. (New Series)</i> 1:1 (1957) 9–12	25
[4] On Sieve Methods and Some of Their Applications, <i>Sci. Rec. (New Series)</i> 1:3 (1957) 1–5	29
[5] On the Representation of Large Even Number as a Sum of Two Almost-primes, <i>Sci. Rec. (New Series)</i> 1:5 (1957) 15–19	34
[6] (with <i>A. Schinzel</i>) A Note on Some Properties of the Functions $\varphi(n)$, $\sigma(n)$ and $\theta(n)$, <i>Ann. Pol. Math.</i> 4 (1958) 201–213, Corrigendum: 19 (1967)	39
[7] A Note on Some Properties of the Arithmetical Functions $\varphi(n)$, $\sigma(n)$ and $d(n)$, <i>Acta Math. Sin.</i> 8:1 (1958) 1–11	53
[8] On Sieve Methods and Some of Their Applications, <i>Sci. Sin.</i> 8:4 (1959) 357–381	66
[9] On Sieve Methods and Some of Their Applications, <i>Sci. Sin.</i> 11:12 (1962) 1607–1624	91
[10] On the Least Primitive Root of a Prime, <i>Sci. Sin.</i> 10:1 (1961) 1–14	109
[11] On the Representation of Large Integer as a Sum of a Prime and an Almost Prime, <i>Sci. Sin.</i> 11:8 (1962) 1033–1054	123
[12] On the Estimation of Character Sum and Its Applications, <i>Shuxue Jinzhan</i> 1 (1964) 78–83	145
[13] On the Maximal Number of Pairwise Orthogonal Latin Square of Order s (Application of Sieve Method), <i>Acta Math. Sin.</i> 16:3 (1966) 400–410	153

- [14] (with *Pan Cheng-Dong and Ding Xia-Xi*) On the Representation of Every Large Even Integer as a Sum of a Prime and an Almost Prime, *Sci. Sin.* **18**:5 (1975) 599–610 168
- [15] Remarks on a Theorem of Davenport, *Acta Math. Sin.* **18**:4 (1975) 286–289 180
- [16] On Linnik’s Method Concerning the Goldbach Number, *Sci. Sin.* **20**:1 (1977) 16–30 185
- [17] (with *Yu Kun-Rui and Zhu Yao-Cheng*) Remarks Concerning a Transference Theorem of Linear Forms, *Acta Math. Sin.* **22**:2 (1979) 237–240 200
- [18] (with *W. M. Schmidt*) A Note on a Transference Theorem of Linear Forms, *Sci. Sin.* **22**:3 (1979) 276–280 205
- [19] (with *Yu Kun-Rui*) A Note on Some Metrical Theorems in Diophantine Approximation, *Chin. Ann. Math.* **2** (1981) 1–12 210
- [20] Bounds for Solutions of Additive Equations in an Algebraic Number Field I, *Acta Arith.* **48** (1987) 117–144 222
- [21] Bounds for Solutions of Additive Equations in an Algebraic Number Field II, *Acta Arith.* **48** (1987) 307–323 250
- [22] Diophantine Inequalities for Forms in an Algebraic Number Field, *J. Number Theory* **29**:3 (1988) 324–344 267
- [23] On Homogeneous Additive Congruences, *Sci. Sin. (Series A)* **32**:5 (1989) 524–536 288
- [24] Small Solutions of Congruences, *J. Number Theory* **45**:3 (1993) 261–280 301
- [25] On Small Zeros of Quadratic Forms over Finite Fields II, *Acta Math. Sin. (New Series)* **9**:4 (1993) 382–389 321

2. Numerical Analysis and Statistics

- [26] (with *Hua Luo-Keng*) Remarks Concerning Numerical Integration, *Sci. Rec. (New Series)* **4**:1 (1960) 8–11 329
- [27] A Note on Interpolation of a Certain Class of Functions, *Sci. Sin.* **10**:6 (1961) 632–636 333
- [28] (with *Hua Loo-Keng*) On Diophantine Approximations and Numerical Integrations I, *Sci. Sin.* **13**:6 (1964) 1007–1008 338
- [29] (with *Hua Loo-Keng*) On Diophantine Approximations and Numerical Integrations II, *Sci. Sin.* **13**:6 (1964) 1009–1010 340
- [30] (with *Hua Loo-Keng*) On Numerical Integration of Periodic Functions of Several Variables, *Sci. Sin.* **14**:7 (1965) 964–978 342

-
- [31] On Interpolation of a Certain Class of Functions, *Kexue Tongbao* **9** (1966) 389–391 357
- [32] (with *Hua Loo-Keng*) On Uniform Distribution and Numerical Analysis I (Number-Theoretic Method), *Sci. Sin.* **16**:4 (1973) 483–505 361
- [33] (with *Hua Loo-Keng*) On Uniform Distribution and Numerical Analysis II (Number-Theoretic Method), *Sci. Sin.* **17**:3 (1974) 331–348 384
- [34] (with *Hua Loo-Keng*) On Uniform Distribution and Numerical Analysis III (Number-Theoretic Method), *Sci. Sin.* **18**:2 (1975) 184–198 402
- [35] (with *Fang Kai-Tai*) A Note on Uniform Distribution and Experimental Design, *Kexue Tongbao* **26**:6 (1981) 485–489 417
- [36] On Diophantine Approximation and Approximate Analysis I, *Acta Math. Sin.* **25**:2 (1982) 248–256 422
- [37] On Diophantine Approximation and Approximate Analysis II, *Acta Math. Sin.* **25**:3 (1982) 323–332 431
- [38] (with *Fang Kai-Tai*) Number Theoretic Method in Applied Statistics, *Chin. Ann. Math.* **11B**:1 (1990) 51–65 441
- [39] (with *Fang Kai-Tai*) Number Theoretic Methods in Applied Statistics II, *Chin. Ann. Math.* **11B**:3 (1990) 384–395 456
- [40] (with *Fang Kai-Tai*) Uniform Design of Experiments with Mixtures, *Sci. Sin. (Series A)* **39**:3 (1996) 264–275 468
- List of Publications by Wang Yuan* 481