

# Paul Erdos

## List of Publications by Year in descending order

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117  
papers

3,052  
citations

172207

29  
h-index

182168

51  
g-index

119  
all docs

119  
docs citations

119  
times ranked

984  
citing authors

#	ARTICLE	IF	CITATIONS
1	Theories of electrons in one-dimensional disordered systems. <i>Advances in Physics</i> , 1982, 31, 65-163.	35.9	316
2	The Representation of a Graph by Set Intersections. <i>Canadian Journal of Mathematics</i> , 1966, 18, 106-112.	0.3	233
3	Supersaturated graphs and hypergraphs. <i>Combinatorica</i> , 1983, 3, 181-192.	0.6	197
4	On Some Sequences of Integers. <i>Journal of the London Mathematical Society</i> , 1936, s1-11, 261-264.	0.5	175
5	Magnetism of actinide compounds. <i>Advances in Physics</i> , 1999, 48, 537-653.	35.9	142
6	ON THE NORMAL NUMBER OF PRIME FACTORS OF $p-1$ AND SOME RELATED PROBLEMS CONCERNING EULER'S $\phi$ -FUNCTION. <i>Quarterly Journal of Mathematics</i> , 1935, os-6, 205-213.	0.3	106
7	Additive Arithmetical Functions and Statistical Independence. <i>American Journal of Mathematics</i> , 1939, 61, 713.	0.5	84
8	On some problems of elementary and combinatorial geometry. <i>Annali Di Matematica Pura Ed Applicata</i> , 1975, 103, 99-108.	0.5	64
9	Additive properties of random sequences of positive integers. <i>Acta Arithmetica</i> , 1960, 6, 83-110.	0.2	61
10	On coloring graphs to maximize the proportion of multicolored $k$ -edges. <i>Journal of Combinatorial Theory</i> , 1968, 5, 164-169.	0.4	58
11	Covering the cliques of a graph with vertices. <i>Discrete Mathematics</i> , 1992, 108, 279-289.	0.4	58
12	How to make a graph bipartite. <i>Journal of Combinatorial Theory Series B</i> , 1988, 45, 86-98.	0.6	51
13	On a Ramsey-Turán type problem. <i>Journal of Combinatorial Theory Series B</i> , 1976, 21, 166-168.	0.6	50
14	On the normal number of prime factors of $\phi(n)$ . <i>Rocky Mountain Journal of Mathematics</i> , 1985, 15, 343.	0.2	49
15	A variant of the classical Ramsey problem. <i>Combinatorica</i> , 1997, 17, 459-467.	0.6	49
16	On the Normal Behavior of the Iterates Of some Arithmetic Functions. <i>Progress in Mathematics</i> , 1990, , 165-204.	0.2	46
17	Representations of integers as the sum of $k$ terms. <i>Random Structures and Algorithms</i> , 1990, 1, 245-261.	0.6	45
18	Extremal problems among subsets of a set. <i>Discrete Mathematics</i> , 1974, 8, 281-294.	0.4	43

#	ARTICLE	IF	CITATIONS
19	Some extremal results in cochromatic and dichromatic theory. <i>Journal of Graph Theory</i> , 1991, 15, 579-585.	0.5	43
20	Some extremal problems in geometry. <i>Journal of Combinatorial Theory - Series A</i> , 1971, 10, 246-252.	0.5	42
21	Separability properties of almost " disjoint families of sets. <i>Israel Journal of Mathematics</i> , 1972, 12, 207-214.	0.4	41
22	On an additive arithmetic function. <i>Pacific Journal of Mathematics</i> , 1977, 71, 275-294.	0.2	41
23	Low-Temperature Thermal Conductivity of Impure Insulators. <i>Physical Review</i> , 1969, 184, 951-967.	2.7	39
24	Theory of Magnetic Properties of Actinide Compounds. I. <i>Physical Review B</i> , 1973, 8, 4333-4347.	1.1	33
25	On Arithmetic Properties of Integers with Missing Digits I: Distribution in Residue Classes. <i>Journal of Number Theory</i> , 1998, 70, 99-120.	0.2	32
26	Spiraling the Earth with C. G. J. Jacobi. <i>American Journal of Physics</i> , 2000, 68, 888-895.	0.3	32
27	Tight bounds on the chromatic sum of a connected graph. <i>Journal of Graph Theory</i> , 1989, 13, 353-357.	0.5	31
28	On the Changes of Sign of a Certain Error Function. <i>Canadian Journal of Mathematics</i> , 1951, 3, 375-385.	0.3	30
29	A Problem of Leo Moser About Repeated Distances on the Sphere. <i>American Mathematical Monthly</i> , 1989, 96, 569.	0.2	30
30	On the Density of the Abundant Numbers. <i>Journal of the London Mathematical Society</i> , 1934, s1-9, 278-282.	0.5	29
31	On the largest prime factors of $n$ and $n + 1$ . <i>Aequationes Mathematicae</i> , 1978, 17, 311-321.	0.4	29
32	A Problem of Leo Moser About Repeated Distances on the Sphere. <i>American Mathematical Monthly</i> , 1989, 96, 569-575.	0.2	29
33	Some remark on Euler's $\zeta$ function. <i>Acta Arithmetica</i> , 1958, 4, 10-19.	0.2	29
34	Low-Temperature Thermal Conductivity of Insulators Containing Impurities. <i>Physical Review</i> , 1965, 138, A1200-A1207.	2.7	28
35	The size of the largest bipartite subgraphs. <i>Discrete Mathematics</i> , 1997, 177, 267-271.	0.4	26
36	On analytic iteration. <i>Journal D'Analyse Mathématique</i> , 1960, 8, 361-376.	0.4	24

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37	Wave propagation in one-dimensional disordered structures. <i>Physical Review B</i> , 1992, 45, 8572-8584.	1.1	24
38	On the equality of the partial Grundy and upper chromatic numbers of graphs. <i>Discrete Mathematics</i> , 2003, 272, 53-64.	0.4	24
39	Clique coverings of the edges of a random graph. <i>Combinatorica</i> , 1993, 13, 1-5.	0.6	23
40	Maximum planar sets that determine $k$ distances. <i>Discrete Mathematics</i> , 1996, 160, 115-125.	0.4	23
41	On arithmetic properties of integers with missing digits II: Prime factors. <i>Discrete Mathematics</i> , 1999, 200, 149-164.	0.4	23
42	Theory of magnetic properties of actinide compounds. II. <i>Physical Review B</i> , 1974, 9, 2187-2193.	1.1	22
43	On the Smoothness of the Asymptotic Distribution of Additive Arithmetical Functions. <i>American Journal of Mathematics</i> , 1939, 61, 722.	0.5	21
44	Chromatic Number Versus Cochromatic Number in Graphs with Bounded Clique Number. <i>European Journal of Combinatorics</i> , 1990, 11, 235-240.	0.5	18
45	Rational approximation. <i>Advances in Mathematics</i> , 1976, 21, 78-109.	0.5	17
46	A note on the interval number of a graph. <i>Discrete Mathematics</i> , 1985, 55, 129-133.	0.4	15
47	Problems and results in discrete mathematics. <i>Discrete Mathematics</i> , 1994, 136, 53-73.	0.4	14
48	Degree sequences in triangle-free graphs. <i>Discrete Mathematics</i> , 1991, 92, 85-88.	0.4	13
49	Maximal asymptotic nonbases. <i>Proceedings of the American Mathematical Society</i> , 1975, 48, 57-57.	0.4	12
50	Repeated distances in space. <i>Graphs and Combinatorics</i> , 1988, 4, 207-217.	0.2	12
51	Oscillations of bases for the natural numbers. <i>Proceedings of the American Mathematical Society</i> , 1975, 53, 253-258.	0.4	12
52	Systems of distinct representatives and minimal bases in additive number theory. <i>Lecture Notes in Mathematics</i> , 1979, , 89-107.	0.1	11
53	Some Remarks and Problems in Number Theory Related to the Work of Euler. <i>Mathematics Magazine</i> , 1983, 56, 292-298.	0.1	11
54	The grid revisited. <i>Discrete Mathematics</i> , 1993, 111, 189-196.	0.4	11

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55	Covering and independence in triangle structures. <i>Discrete Mathematics</i> , 1996, 150, 89-101.	0.4	11
56	Behavior of Helical Spin Structures in Applied Magnetic Fields. <i>Physical Review B</i> , 1970, 2, 2642-2648.	1.1	10
57	Paul turÅn, 1910â€“1976: His work in graph theory. <i>Journal of Graph Theory</i> , 1977, 1, 97-101.	0.5	10
58	Minimal asymptotic bases for the natural numbers. <i>Journal of Number Theory</i> , 1980, 12, 154-159.	0.2	10
59	Distinct distances determined by subsets of a point set in space. <i>Computational Geometry: Theory and Applications</i> , 1991, 1, 1-11.	0.3	10
60	Some Problems and Results in Cochromatic Theory. <i>Annals of Discrete Mathematics</i> , 1993, 55, 261-264.	1.4	10
61	Multiplicities of interpoint distances in finite planar sets. <i>Discrete Applied Mathematics</i> , 1995, 60, 141-147.	0.5	10
62	Superconducting micronets: The Wheatstone bridge. <i>Physical Review B</i> , 1995, 51, 11739-11747.	1.1	10
63	The Existence of a Distribution Function for an Error Term Related to the Euler Function. <i>Canadian Journal of Mathematics</i> , 1955, 7, 63-75.	0.3	9
64	A class of Hamiltonian regular graphs. <i>Journal of Graph Theory</i> , 1978, 2, 129-135.	0.5	9
65	Onk-saturated graphs with restrictions on the degrees. <i>Journal of Graph Theory</i> , 1996, 23, 1-20.	0.5	9
66	Nuclear magnetic resonance experiments and theory of the magnetic properties of NaCrS <sub>2</sub> . <i>Solid State Communications</i> , 1969, 7, 1673-1676.	0.9	8
67	Hamiltonian cycles in regular graphs of moderate degree. <i>Journal of Combinatorial Theory Series B</i> , 1977, 23, 139-142.	0.6	8
68	Rational approximation, II. <i>Advances in Mathematics</i> , 1978, 29, 135-156.	0.5	8
69	Some Problems and Results on Combinatorial Number Theory. <i>Annals of the New York Academy of Sciences</i> , 1989, 576, 132-145.	1.8	8
70	SOME OF MY FAVORITE SOLVED AND UNSOLVED PROBLEMS IN GRAPH THEORY. <i>Quaestiones Mathematicae</i> , 1993, 16, 333-350.	0.2	8
71	Independent Transversals in Sparse Partite Hypergraphs. <i>Combinatorics Probability and Computing</i> , 1994, 3, 293-296.	0.8	8
72	Distinct distances in finite planar sets. <i>Discrete Mathematics</i> , 1997, 175, 97-132.	0.4	8

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73	Lagrange's Theorem and Thin Subsequences of Squares. , 1981, , 3-9.		8
74	On the asymptotic behavior of large prime factors of integers. Pacific Journal of Mathematics, 1979, 82, 295-315.	0.2	8
75	On a Problem in the Elementary Theory of Numbers. American Mathematical Monthly, 1934, 41, 608.	0.2	7
76	Extension de quelques theoremes sur les densites de series d'elements de n a des series de sous-ensembles finis de n. Discrete Mathematics, 1975, 12, 295-308.	0.4	7
77	Partitions of the natural numbers into infinitely oscillating bases and nonbases. Commentarii Mathematici Helvetici, 1976, 51, 171-182.	0.4	7
78	Problems and results on minimal bases in additive number theory. Lecture Notes in Mathematics, 1987, , 87-96.	0.1	7
79	Partitions of bases into disjoint unions of bases. Journal of Number Theory, 1988, 29, 1-9.	0.2	7
80	Convex nonagons with five intervertex distances. Geometriae Dedicata, 1996, 60, 317.	0.1	7
81	Heat Conductivity in Cylindrical Samples. Physical Review B, 1971, 4, 669-670.	1.1	6
82	Nonbases of Density Zero not Contained in Maximal Nonbases. Journal of the London Mathematical Society, 1977, s2-15, 403-405.	0.5	6
83	Ramanujan and I. Lecture Notes in Mathematics, 1989, , 1-17.	0.1	6
84	A postscript on distances in convexn-gons. Discrete and Computational Geometry, 1994, 11, 111-117.	0.4	6
85	Resistance of a one-dimensional periodic chain of random potentials. Solid State Communications, 1996, 98, 495-499.	0.9	6
86	Oscillations of Bases for the Natural Numbers. Proceedings of the American Mathematical Society, 1975, 53, 253.	0.4	5
87	Maximal Asymptotic Nonbases. Proceedings of the American Mathematical Society, 1975, 48, 57.	0.4	5
88	On maximal triangle-free graphs. Journal of Graph Theory, 1994, 18, 585-594.	0.5	5
89	Superconducting periodic nanostructures in a magnetic field. Physical Review B, 2010, 82, .	1.1	5
90	Sets of natural numbers with no minimal asymptotic bases. Proceedings of the American Mathematical Society, 1978, 70, 100-100.	0.4	5

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91	MÃ¼ntz's theorem and rational approximation. Journal of Approximation Theory, 1976, 17, 393-394.	0.5	4
92	Bases and nonbases of square-free integers. Journal of Number Theory, 1979, 11, 197-208.	0.2	4
93	Current vortex patterns in the superconducting microladder. Physica B: Condensed Matter, 1994, 194-196, 1425-1426.	1.3	4
94	Degree sequence and independence in $K(4)$ -free graphs. Discrete Mathematics, 1995, 141, 285-290.	0.4	4
95	Intervortex distances in convex polygons. Discrete Applied Mathematics, 1995, 60, 149-158.	0.5	4
96	Theory of Magnetic Phase Transitions in Metallic Actinide Compounds. , 1973, , .		3
97	Cycle-connected graphs. Discrete Mathematics, 1992, 108, 261-278.	0.4	3
98	Clique Partitions of Chordal Graphs. Combinatorics Probability and Computing, 1993, 2, 409-415.	0.8	3
99	A Selection of Problems and Results in Combinatorics. Combinatorics Probability and Computing, 1999, 8, 1-6.	0.8	3
100	On large intersecting subfamilies of uniform setfamilies. Random Structures and Algorithms, 2003, 23, 351-356.	0.6	3
101	On the number of divisors of $n!$ . , 1996, , 337-355.		3
102	Clique Partitions and Clique Coverings. Annals of Discrete Mathematics, 1988, 38, 93-101.	1.4	2
103	Transmission characteristics of mesoscopic dichotomic Markov filters. Physical Review B, 1992, 45, 8585-8597.	1.1	2
104	Minimum planar sets with maximum equidistance counts. Computational Geometry: Theory and Applications, 1997, 7, 207-218.	0.3	2
105	Popular distances in 3-space. Discrete Mathematics, 1999, 200, 95-99.	0.4	2
106	Addendum to "Rational Approximation". Advances in Mathematics, 1977, 25, 91-93.	0.5	1
107	On a class of relatively prime sequences. Journal of Number Theory, 1978, 10, 451-474.	0.2	1
108	A Property of 70. Mathematics Magazine, 1978, 51, 238.	0.1	1

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109	Problems and results on consecutive integers and prime factors of binomial coefficients. Rocky Mountain Journal of Mathematics, 1985, 15, 353.	0.2	1
110	Density of states of one-dimensional random potentials. IBM Journal of Research and Development, 1988, 32, 47-51.	3.2	1
111	Comment on "Localization in a one-dimensional Thue-Morse chain". Physical Review B, 1995, 51, 3273-3275.	1.1	1
112	Ramanujan and I. Resonance, 1998, 3, 81-92.	0.2	1
113	Currents in a superconducting loop with a branch connected to a current-carrying infinite wire. Superconductor Science and Technology, 2000, 13, 1309-1314.	1.8	1
114	Arithmetic Functions. Undergraduate Texts in Mathematics, 2003, , 231-268.	0.1	0
115	Sequences of Integers. Undergraduate Texts in Mathematics, 2003, , 181-204.	0.1	0
116	Density of States of Electrons and Electromagnetic Waves in One-Dimensional Random Media. , 1990, , 49-68.		0
117	Dot product rearrangements. International Journal of Mathematics and Mathematical Sciences, 1983, 6, 409-418.	0.3	0