List of Publications for John Willard Milnor

1950

[a] On the total curvature of knots. *Ann. of Math.* (2), 52 : 248–257; [CP-1, 3–14]*.

[b] On a relationship between the Betti numbers of a hypersurface and an integral of its Gaussian curvature. First published in [CP-1, 15–26].

1953

[a] Sums of positional games. In *Contributions to the Theory of Games, vol. 2, Annals of Math. Studies,* no. 28, H. W. Kuhn and A. W. Tucker, editors, pages 291–301. Princeton University Press, Princeton, NJ.

[b] The characteristics of a vector field on the two-sphere. *Ann. of Math.* (2), 58 : 253–257; [CP-6, 15–19].

[c] On total curvatures of closed space curves. *Math. Scand.,* 1 : 289–296; [CP-1, 27–36].

[d] (with I.N. Herstein). An axiomatic approach to measurable utility. *Econometrica,* 21 : 291–297.

1954

[a] Link groups. *Ann. of Math.* (2), 59 : 177–195; [CP-2, 7–25].

[b] Games against nature. In *Decision Processes*, R. M. Thrall, C. H. Coombs and R. L. Davis, editors, pages 49–59, Wiley, New York; Chapman and Hall Ltd., London. (Reprinted in *Game Theory and Related Approaches to Social Behavior*, M. Shubik, editor, Wiley, New York.

[c] (with G. Kalish, J. Nash, and E.D. Nering). Some experimental n-person games. In *Decision Processes*, R. M. Thrall, C. H. Coombs and R. L. Davis, editors, pages 301–327, Wiley, New York; Chapman and Hall Ltd., London.

1956

[a] Construction of universal bundles. I. *Ann. of Math.* (2), 63 : 272–284; [CP-4, 7–19].

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*Here CP-n stands for "Collected Papers Volume n." See: CP-1 [1994a], CP-2 [1995a], CP-3 [2007a], CP-4 [2009a], CP-5 [2010a], CP-6 [2012a].

[b] Construction of universal bundles. II. *Ann. of Math.* (2), $63:430$–436; [CP-4, 21–27].

[c] On the immersion of n-manifolds in $(n+1)$-space. *Comment. Math. Helv.,* $30:275$–284; [CP-4, 141–150].

[d] On manifolds homeomorphic to the 7-sphere. *Ann. of Math.* (2), $64:399$–405; [CP-3, 11–17].

[e] On the relationship between differentiable manifolds and combinatorial manifolds. First published in [CP-3, 19–28].

1957

[a] The geometric realization of a semi-simplicial complex. *Ann. of Math.* (2), $65:357$–362; [CP-4, 29–34].

[b] Groups which act on S^n without fixed points. *Amer. J. Math.,* $79:623$–630; [CP-2, 97–104].

[c] Isotopy of links. In *Algebraic Geometry and Topology, a Symposium in Honor of S. Lefschetz,* R. H. Fox, D. C. Spencer and A. W. Tucker, editors, pages 280–306. Princeton University Press, Princeton, NJ; [CP-2, 27–53].

[d] (with L.S. Shapley). On games of survival. In *Contributions to the Theory of Games, vol.* 3, *Annals of Math. Studies,* no. 39, M. Dresher, A. W. Tucker and P. Wolfe, editors, pages 15–45. Princeton University Press, Princeton, NJ.

1958

[a] On the existence of a connection with curvature zero. *Comment. Math. Helv.,* $32:215$–223; [CP-1, 37–47].

[b] The Steenrod algebra and its dual. *Ann. of Math.* (2), $67:150$–171; [CP-4, 61–82].

[c] (with R. Bott). On the parallelizability of the spheres. *Bull. Amer. Math. Soc.,* $64:87$–89; [CP-3, 229–231].

[d] Some consequences of a theorem of Bott. *Ann. of Math.* $(2), 68:444$–449; [CP-3, 233–238].

[e] On the Whitehead homomorphism J. *Bull. Amer. Math. Soc.,* $64:79$–82; [CP-3, 239–242].

[f] On simply connected 4-manifolds. In *Symposium Internacional de Topología Algebraíca. (International Symposium on Algebraic Topology),* J. Adem, editor, pages 122–128. Universidad Nacional Autónoma de México and UNESCO, Mexico City; [CP-4, 151–157].

[g] Lectures on differential topology. Notes by J. Munkres. First published in [CP-3, 145–176].

[h] On the cobordism ring Ω^*. Research announcement 547-26, *Notices AMS* 5, 457; [CP-3, 255].

1959

[a] On spaces having the homotopy type of a CW-complex. *Trans. Amer. Math. Soc.,* $90:272$–280; [CP-4, 35–43].

[b] Differentiable structures on spheres. *Amer. J. Math.,* $81:962$–972; [CP-3, 35–45].

[c] Sommes de variétes différentiables et structures différentiables des sphères. *Bull. Soc. Math. France,* $87:439$–444; [CP-3, 29–34].

[d] Differentiable manifolds which are homotopy spheres. First published in [CP-3, 65–88].

1960

[a] (with E. Spanier). Two remarks on fiber homotopy type. *Pacific J. Math.,* $10:585$–590; [CP-4, 167–172].

[b] On the cobordism ring Ω^* and a complex analogue. I. *Amer. J. Math.,* $82:505$–521; [CP-3, 257–273].

[c] (with M. A. Kervaire). Bernoulli numbers, homotopy groups, and a theorem of Rohlin. In *Proc. Internat. Congress Math. Edinburgh* 1958, pages 454–458. Cambridge Univ. Press, New York; [CP-3, 243–247].

1961

[a] A procedure for killing homotopy groups of differentiable manifolds. In *Proc. Sympos. Pure Math., vol.* III, pages 39–55. American Mathematical Society, Providence, RI; [CP-3, 47–63].

[b] Two complexes which are homeomorphic but combinatorially distinct. *Ann. of Math.* (2), $74:575$–590; [CP-2, 123–138].

[c] (with M. A. Kervaire). On 2-spheres in 4-manifolds. *Proc. Nat. Acad. Sci.* U.S.A., $47:1651$–1657; [CP-4, 159–165].

[d] Variedades diferenciables con frontera. *An. Inst. Mat. Univ. Nac. Autónoma México,* $1:82$–116. (Revised and augmented translation: "Smooth manifolds with boundary" first published in [CP-3, 191–222].

[e] Lectures on differentiable structures. First published in [CP-3, 177–190].

[f] Microbundles and differentiable structures. First published in [CP-4, 173–190].

1962

[a] (with M. G. Barratt). An example of anomalous singular homology. *Proc. Amer. Math. Soc.,* $13:293$–297; [CP-4, 107–111].

[b] A duality theorem for Reidemeister torsion. *Ann. of Math.* $(2), 76:137$–147; [CP-2, 139–149].

[c] A unique decomposition theorem for 3-manifolds. *Amer. J. Math.,* $84:1$–7; [CP-2, 237–243].

[d] A survey of cobordism theory. *Enseignement Math.* $(2), 8:16$–23; [CP-3, 283–290]. (Erratum in [CP-3, 291–292].)

[e] On axiomatic homology theory. *Pacific J. Math.,* $12:337$–341; [CP-4, 101–105].

[f] The work of J. H. C. Whitehead. In *The Mathematical Works of J. H. C. Whitehead, vol. 1,*, J. H. C. Whitehead and I. M. James, editors, pages xxi–xxxiii, Pergamon Press, Oxford; [CP-4, 261–278].

1963

[a] (with M. A. Kervaire). Groups of homotopy spheres. I. *Ann. of Math.* $(2), 77:504$–537; [CP-3, 89–122].

[b] Spin structures on manifolds. *Enseignement Math.* $(2), 9:198$–203; [CP-3, 293–298].

[c] Topological manifolds and smooth manifolds. In *Proc. Internat. Congr. Math., Stockholm* 1962, pages 132–138, Inst. Mittag-Leffler, Djursholm; [CP-4, 191–197].

[d] *Morse Theory.* Based on lecture notes by M. Spivak and R. Wells. *Annals of Math. Studies,* no. 51. Princeton University Press, Princeton, NJ. (Translated into Russian, Japanese, Korean).

[e] The representation rings of some classical groups. First published in [CP-5, 143–154].

1964

[a] On the Betti numbers of real varieties. *Proc. Amer. Math. Soc.,* $15:275$–280; [CP-1, 133–140].

[b] Microbundles. I. *Topology,* 3 (suppl. 1)$:53$–80; [CP-4, 199–226].

[c] Eigenvalues of the Laplace operator on certain manifolds. *Proc. Nat. Acad. Sci.* U.S.A., $51:542$; [CP-1, 49–51].

[d] Most knots are wild. *Fund. Math.,* $54:335$–338; [CP-2, 55–58].

[e] (with M. W. Hirsch). Some curious involutions of spheres. *Bull. Amer. Math. Soc.,* $70:372$–377; [CP-2, 105–110].

[f] Differential topology. In *Lectures on Modern Mathematics, vol. II,* T. Saaty, editor, pages 165–183. Wiley, New York. Also available in *Uspehi Mat. Nauk,* 20(6(126)) : 41–54, 1965 (in Russian); [CP-3, 123–141].

[g] Some free actions of cyclic groups on spheres. In *Differential Analysis, Bombay Colloq.,* 1964, International Mathematical Union, pages 37–42. Oxford Univ. Press, London; [CP-2, 111–116].

1965

[a] (with J. C. Moore). On the structure of Hopf algebras. *Ann. of Math.* (2), 81 : 211–264; [CP-5, 37–90]. An earlier version from 1959 is published in [CP-5, 7–36].

[b] On the Stiefel-Whitney numbers of complex manifolds and of spin manifolds. *Topology,* 3 : 223–230; [CP-3, 307–314].

[c] Remarks concerning spin manifolds. In *Differential and Combinatorial Topology, a Symposium in Honor of Marston Morse,* S. S. Cairns, editor, pages 55–62. Princeton Univ. Press, Princeton, NJ; [CP-3, 299–306].

[d] *Lectures on the h-cobordism theorem.* Notes by L. Siebenmann and J. Sondow. Princeton University Press, Princeton, NJ. (Translated into Russian).

[e] *Topology from the Differentiable Viewpoint.* Based on notes by David W. Weaver. The University Press of Virginia, Charlottesville, Va. (Translated into Russian, Japanese). Revised reprint, Princeton Landmarks in Mathematics, Princeton University Press, Princeton, NJ, 1997.

[f] (with H. Bass) On unimodular groups over number fields. First published in [CP-5, 165–179].

1966

[a] Whitehead torsion. *Bull. Amer. Math. Soc.,* 72 : 358–426; [CP-2, 151–219].

[b] (with R. H. Fox). Singularities of 2-spheres in 4-space and cobordism of knots. *Osaka J. Math.,* 3 : 257–267; [CP-2, 59–69].

1967

[a] (with H. Bass and J.-P. Serre). Solution of the congruence subgroup problem for SL_n ($n \geqslant 3$) and Sp_{2n} ($n \geqslant 2$). *Inst. Hautes Études Sci. Publ. Math.,* 33 : 59–137. Erratum: On a functorial property of power residue symbols. ibid. 44 : 241–244, 1974; [CP-5, 181–259 and 261–264].

1968

[a] On characteristic classes for spherical fibre spaces. *Comment. Math. Helv.,* 43 : 51–77; [CP-4, 227–253].

[b] A note on curvature and fundamental group. *J. Differential Geometry,* 2 : 1–7; [CP-1, 53–61].

[c] *Singular Points of Complex Hypersurfaces. Annals of Math. Studies,* no. 61. Princeton University Press, Princeton, NJ. (Translated into Russian, Japanese).

[d] Infinite cyclic coverings. In *Conference on the Topology of Manifolds* (*Michigan State Univ., E. Lansing, Mich.,* 1967), J. G. Hocking, editor, pages 115–133. Prindle, Weber & Schmidt, Boston, Mass; [CP-2, 71–89].

[e] Growth of finitely generated solvable groups. *J. Differential Geometry,* 2 : 447–449; [CP-5, 155–157].

[f] Uses of the fundamental group. First published in [CP-2, 221–225].

1969

[a] (with G. Lusztig and F.P. Peterson). Semi-characteristics and cobordism. *Topology,* 8 : 357–359; [CP-4, 113–115].

[b] On isometries of inner product spaces. *Invent. Math.,* 8 : 83–97; [CP-5, 331–345].

[c] A problem in cartography. *Amer. Math. Monthly,* 76 : 1101–1112; [CP-1, 159–172].

[d] Algebraic K-theory and quadratic forms. *Invent. Math.,* 9 : 318–344; [CP-5, 347–373].

1970

[a] (with O. Burlet). Torsion et type simple d'homotopie. In *Essays on Topology and Related Topics* (*Mémoires dédiés à Georges de Rham*)*,* A. Haefliger and R. Narasimhan, editors, pages 12–17. Springer, New York; [CP-2, 227–232].

[b] (with P. Orlik). Isolated singularities defined by weighted homogeneous polynomials. *Topology,* 9 : 385–393; [CP-1, 141–151].

[c] Foliations and foliated vector bundles. First published in [CP-4, 279–320].

[d] Symmetric inner products over a Dedekind domain. First published in [CP-5, 375–380].

1971

[a] Symmetric inner products in characteristic 2. In *Prospects in Mathematics* (*Proc. Sympos., Princeton Univ., Princeton, NJ,* 1970), H. Rossi, editor, pages 59–75. *Annals of Math. Studies,* no. 70. Princeton Univ. Press, Princeton, NJ; [CP-5, 381–397].

[b] *Introduction to Algebraic K-Theory. Annals of Math. Studies,* no. 72. Princeton University Press, Princeton, NJ. (Translated into Russian).

[c] On the construction FK. In *Algebraic Topology: A Student's Guide*, by J. F. Adams, pages 119–136; [CP-4, 45–53].

1973

[a] (with D. Husemoller). *Symmetric Bilinear Forms.* Ergebnisse der Mathematik und ihrer Grenzgebiete, Band 73. Springer-Verlag, New York. (Translated into Russian).

1974

[a] (with J.D. Stasheff). *Characteristic Classes. Annals of Math. Studies,* no. 76. Princeton University Press, Princeton, NJ. (Translated into Russian, Japanese).

1975

[a] Isolated critical points of complex functions. In *Differential Geometry* (*Proc. Sympos. Pure Math., vol. XXVII, Part 1, Stanford Univ., Stanford, Calif.,* 1973), S. S. Chern and R. Osserman, editors, pages 381–382. Amer. Math. Soc., Providence, RI; [CP-1, 153–156].

[b] On the 3-dimensional Brieskorn manifolds $M(p,\,q,\,r)$. In *Knots, Groups, and* 3-*Manifolds* (*Papers dedicated to the memory of R. H. Fox*), L. P. Neuwirth, editor, pages 175–225. *Annals of Math. Studies,* no. 84. Princeton Univ. Press, Princeton, NJ; [CP-2, 245–295].

1976

[a] Curvatures of left invariant metrics on Lie groups. *Advances in Math.,* 21 (3) : 293–329; [CP-1, 73–111].

[b] Problems in differential geometry. In *Mathematical Developments Arising from Hilbert Problems,* pages 54–57,*Proc. Symposia Pure Math. vol.* XXVIII, F. Browder, editor, Amer. Math. Soc., Providence, RI; [CP-1, 63–71].

[c] Hilbert's problem 18: on crystallographic groups, fundamental domains, and on sphere packing. In *Mathematical Developments Arising from Hilbert Problems,* pages 491–506. *Proc. Sympos. Pure Math., vol.* XXVIII, F. Browder, editor. Amer. Math. Soc., Providence, RI; [CP-1, 173–187].

1977

[a] On deciding whether a surface is parabolic or hyperbolic. *Amer. Math. Monthly,* 84 (1) : 43–46; [CP-1, 113–118].

[b] On fundamental groups of complete affinely flat manifolds. *Advances in Math.,* 25 (2) : 178–187; [CP-1, 119–130].

[c] (with W. Thurston). Characteristic numbers of 3-manifolds. *Enseignement Math.* (2), 23 (3-4) : 249–254; [CP-2, 297–302].

1978

[a] (with L.S. Shapley). Values of large games. II. Oceanic games. *Math. Oper. Res.,* 3 (4) : 290–307.

[b] Analytic proofs of the "hairy ball theorem" and the Brouwer fixed-point theorem. *Amer. Math. Monthly,* 85 (7) : 521–524; [CP-1, 235–242].

[c] How to compute volume in hyperbolic space. First published in [CP-1, 189–212].

[d] Euler characteristic and finitely additive Steiner measures. First published in [CP-1, 213–234].

1982

[a] Hyperbolic geometry: the first 150 years. *Bull. Amer. Math. Soc.* (N.S.), 6 (1) : 9–24; [CP-1, 243–260].

1983

[a] On the homology of Lie groups made discrete. *Comment. Math. Helv.,* 58 (1) : 72–85; [CP-4, 117–130].

[b] On polylogarithms, Hurwitz zeta functions, and the Kubert identities. *Enseign. Math.* (2), 29 (3-4) : 281–322; [CP-5, 265–306].

[c] On the geometry of the Kepler problem. *Amer. Math. Monthly,* 90 (6) : 353–365; [CP-1, 261–279].

[d] The Schläfli differential inequality. First published in [CP-1, 281–295].

1984

[a] Remarks on infinite-dimensional Lie groups. In *Relativity, groups and topology, II* (*Les Houches,* 1983), B. S. DeWitt and R. Stora, editors, pages 1007–1057. North-Holland, Amsterdam; [CP-5, 91–141].

1985

[a] On the concept of attractor. *Comm. Math. Phys.,* 99 (2) : 177–195. Correction and remarks, *Comm. Math. Phys.,* 102 (3) : 517–519; [CP-6, 21–41 and 43–45].

1986

[a] Directional entropies of cellular automaton-maps. In *Disordered systems and biological organization* (*Les Houches, 1985*), volume 20 of *NATO Adv. Sci. Inst. Ser. F Comput. Systems Sci.,* E. Bienenstock, F. Fogelman Soulie and G. Weisbuch, editors, pages 113–115, Springer, Berlin; [CP-6, 47–49].

1987

[a] The work of M. H. Freedman. In *Proc. Internat. Congr. Math., Berkeley, Calif. 1986, vol. 1,* A. M. Gleason, editor, pages 13–15, Amer. Math. Soc., Providence, RI. Also published in *Fields Medallists Lectures,* volume 5 of World Sci. Ser. 20th Century Math., M. F. Atiyah and D. Iagolnitzer, editors, pages 405–408. World Sci. Publ., River Edge, NJ., 1997; [CP-4, 321–323].

1988

[a] Nonexpansive Hénon maps. *Adv. in Math.,* 69 (1) : 109–114; [CP-6, 81–86].

[b] On the entropy geometry of cellular automata. *Complex Systems,* 2 (3) : 357–385; [CP-6, 51–79].

[c] (with W. Thurston). On iterated maps of the interval. In *Dynamical systems* (*College Park, MD, 1986-87*), *Lecture Notes in Math.,* no. 1342, J. C. Alexander, editor, pages 465–563. Springer, Berlin; [CP-6, 87–155].

1989

[a] Self-similarity and hairiness in the Mandelbrot set. In *Computers in Geometry and Topology* (*Chicago, IL,* 1986), volume 114 of *Lecture Notes in Pure and Appl. Math.,* M. C. Tangora, editor, pages 211–257. Dekker, New York; [CP-6, 289–335].

[b] (with S. Friedland). Dynamical properties of plane polynomial automorphisms. *Ergodic Theory Dynam. Systems,* 9 (1) : 67–99; [CP-6, 255–287].

1992

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1993

[a] (with M. Lyubich). The Fibonacci unimodal map. *J. Amer. Math. Soc.,* 6 (2) : 425–457; [CP-6, 439–471].

[b] (with L.R. Goldberg). Fixed points of polynomial maps. II. Fixed point portraits. *Ann. Sci. École Norm. Sup.* (4) 26 (1) : 51–98; [CP-6, 473–520].

[c] Geometry and dynamics of quadratic rational maps, *Experiment. Math.,* with an appendix by the author and Tan Lei. 2 (1) : 37–83; [CP-6, 371–438].

1994

[a] *Collected Papers of John Milnor 1, Geometry.* Publish or Perish Inc., Houston, TX. (Available through the A.M.S.)

[b] Thurston's algorithm without critical finiteness. *Linear and Complex Analysis Problem Book 3, Part 2,* Havin and Nikolskii editors, Lecture Notes in Math no. 1474, pp. 434–436, Springer, Berlin.

[c] Problems on local connectivity. ibid. pp. 443-446.

1995

[a] *Collected Papers of John Milnor 2, The Fundamental Group.* Publish or Perish Inc., Houston, TX. Reprint, American Mathematical Society, RI, 2009.

[b] A Nobel Prize for John Nash. *Math. Intelligencer,* 17 (3) : 11 –17. Also available in *Pokroky Mat. Fyz. Astronom,* 41 (4) : 169–179, 1996 (in Czech) and in *Gac. R. Soc. Mat. Esp.,* 5 (3) : 560–577, 2002 (in Spanish).

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[d] On the Steenrod homology theory. In *Novikov Conjectures, Index Theorems and Rigidity, vol.* 1 *(Oberwolfach, 1993)*, volume 226 of *London Math. Soc. Lecture Note Ser.,* S. C. Ferry, A. Ranicki and J. Rosenberg, editors, pages 79–96, Cambridge Univ. Press, Cambridge; [CP-4, 83–100].

1997

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1998

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1999

[a] The mathematical work of Curtis T. McMullen. In *The mathematical work of the* 1998 *Fields medalists, Notices Amer. Math. Soc.,* 46 : 23–26; [CP-6, 521–529].

[b] Growing up in the old Fine Hall. In *Prospects in Mathematics* (Princeton, NJ, 1996), H. Rossi, editor, pages 1–11. Amer. Math. Soc., Providence, RI.

[c] *Dynamics in One Complex Variable.* Friedr. Vieweg & Sohn, Braunschweig. Second edition, 2000. Third edition, *Annals of Math. Studies, no.* 160, Princeton University Press, Princeton, NJ, 2006.

2000

[a] (with C. Tresser). On entropy and monotonicity for real cubic maps. *Comm. Math. Phys.,* 209 (1) : 123–178. With an appendix by Adrien Douady and Pierrette Sentenac; [CP-6, 177–232].

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[d] Local connectivity of Julia sets: expository lectures. In *The Mandelbrot Set, Theme and Variations, vol.* 274 of *London Math. Soc. Lecture Note Ser.,* Tan Lei, editor, pages 67–116. Cambridge Univ. Press, Cambridge.

[e] On rational maps with two critical points. *Experiment. Math.,* $9\,(4): 481$–522.

2003

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2004

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2006

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2007

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2008

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2009

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[c] Fifty years ago: topology of manifolds in the 50s and 60s. In *Low Dimensional Topology,* volume 15 of *IAS/Park City Math. Ser.,* T. Mrowka and P. Osváth, editors, pages 9–20. Amer. Math. Soc., Providence, RI; [CP-4, 345–356].

2010

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2011

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2012

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2013

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