

CURRENT COMMENTS

Highly Cited Articles. 34. Articles from Italian Journals and from Italian Laboratories.

Number 6, February 7, 1977

In a recent study we reported on the most frequently cited Italian journals.¹ As a follow-up to that study, here is a list of 50 articles from Italian journals most cited during the period 1961-1975. The list will disappoint anyone who expects to find a list of articles by Italian scientists. Therefore, we give another list of highly cited articles from *non*-Italian journals where the first author's address is Italian.

The five journals in Figure 1 account for all the articles in the Italian-journal list (Figure 4). *Nuovo Cimento* accounts for 40 of the 50! Figure 2 shows the national distribution of first-author addresses. Switzerland accounts for the most--16; Italy, for 12. The other 22 articles come from six other countries. Figure 3 shows the years in which the articles were published. Surprisingly, only eleven were published before 1960. That is fairly unusual in a list such as this. This is caused by the dominance of *Nuovo Cimento*--a journal of nuclear physics. In this field there is relatively less dependence upon the older literature. These articles were heavily cited for short periods, but few will prove to have a long 'half-life'. Thus you will find that the 1974-1975 citation counts of these articles are on the average much lower than such counts in similar lists.

In our study of Italian journals we detected an emphasis on neurophysiologic

Figure 1. Journals that published the Italian-journal articles listed in Figure 4.

A = number of articles on list. B = impact factor. C = journal title.

A	B	C
40	0.994	Nuovo Cimento
7	1.061	Arch. Ital. Biol
1	0.098	Ann. Geofiz.
1	---	Minerva Chir.
1	---	Ricerca Scientifica

Figure 2. First-author address country of articles listed in Figure 4. A = number of articles. B = country of origin.

A	B	A	B
16	Switzerland	4	England
12	Italy	3	Germany
6	United States	3	Soviet Union
5	France	1	Australia

Figure 3. Year of publication of articles listed in Figure 4. A = year of publication. B = number of articles.

A	B	A	B
1945	1	1962	6
1947	1	1963	8
1954	1	1964	6
1956	2	1965	4
1958	3	1966	2
1959	3	1967	2
1960	5	1968	1
1961	4	1969	1

research. This is confirmed in this list of highly cited articles. Of the ten articles not published in *Nuovo Cimento*, seven deal with neurophysiology. Most of them concern the physiology of sleep.

Article number 40 is an important surgical report on the subclavian artery. It has been and continues to be well-cited in the international literature. Of the two remaining articles, number 39 deals with earthquakes, and number 50 concerns the statistical analysis of crystalline structure data.

As previously suggested in our study of Italian journals, much of the best of Italian research is published outside Italy. To confirm that assumption, we compiled a 'special' list of such highly cited articles. Figure 5 shows the journals in which the articles were published. Figure 6 lists the articles. They are the most cited articles

from Italian laboratories published during the period 1965-1970, on the basis of citation counts for the years 1967-72.

Most of the authors on this second list are Italian. Some of the addresses indicate an international organization, but most are from Italian academic institutions. The articles come from 27 different journals. Figure 5 gives their titles and the number of articles each contributed. Though physics is well represented again, it takes second place to the life sciences. On the whole these 50 articles have higher citation counts for the six-year period 1967-1972 than the articles in Figure 4 have for the fifteen-year period 1961-1975.

About 17 of the articles concern physics, chemistry, and physical chemistry. The majority have to do with molecular biology and physiology, especially genetic aspects of cellular physiology.

Reference

1. Garfield E. Journal citation studies. 30. Italian journals. *Current Contents* No. 4, 24 January 1977, p. 5-9.

Figure 4. Highly cited articles from Italian journals. A = item number. B = total citations 1961-1975. C = total citations 1974-1975. * = non-physics articles.

A	B	C	Bibliographic Data
1.	639	57	Gell-Mann M & Levy M. The axial vector current in beta decay. <i>Nuovo Cimento</i> 16:705-26, 1960. [<i>Ecole Normale Superieure, Paris</i>]
2.	526	112	Amati D, Stanghellini A & Fubini S. Theory of high-energy scattering and multiple production. <i>Nuovo Cimento</i> 26:896-954, 1962. [<i>CERN, Geneva</i>]
3.*	359	26	Jouvet M. Neural anatomy and reactive mechanisms in different phases of physiologic sleep. <i>Arch. Ital. Biol.</i> 100:125-206, 1962. [<i>Univ. Lyon</i>]
4.	335	32	Gottfried K & Jackson J D. On the connection between production mechanism and decay of resonances at high energies. <i>Nuovo Cimento</i> 33:309-30, 1964. [<i>CERN, Geneva</i>]
5.	332	33	Jackson J D. Remarks on the phenomenological analysis of resonances. <i>Nuovo Cimento</i> 34:1644-66, 1964. [<i>CERN, Geneva</i>]
6.	327	30	Gottfried K & Jackson J D. Influence of absorption due to competing processes on peripheral reactions. <i>Nuovo Cimento</i> 34:735-52, 1964. [<i>CERN, Geneva</i>]
7.	299	10	Regge T. Introduction to complex orbital momenta. <i>Nuovo Cimento</i> 14:951-76, 1959. [<i>Max-Planck-Inst. Physik Astrophysik, Munich</i>]
8.	243	12	Mandelstam S. Cuts in the angular-momentum plane 2. <i>Nuovo Cimento</i> 30:1148-62, 1963. [<i>Dept. Mathematical Physics, Univ. Birmingham</i>]

(Figure 4 continued)

9. 236 53 **Goldstone J.** Field theories with "superconductor" solutions. *Nuovo Cimento* 19:154-64, 1961. [*CERN, Geneva*]
10. 225 9 **Lehmann H.** Uber Eigenschaften von Ausbreitungsfunktionen und Renormierungskonstanten quantisierter Felder. *Nuovo Cimento* 11:342-57, 1954. [*Max-Planck-Inst. Physik, Goettingen*]
11. 219 17 **Mandelstam S.** Cuts in the angular-momentum plane. 1. *Nuovo Cimento* 30:1127-47, 1963. [*Dept. Mathematical Physics, Univ. Birmingham*]
12. 212 10 **Lehmann H, Symanzik K & Zimmerman W.** On the formulation of quantized field theories. 2. *Nuovo Cimento* 1:205, 1955. [*Max-Planck-Inst. Physik, Goettingen*]
- 13.* 200 22 **Rossi G F & Zanchetti A.** The brain stem reticular formation. *Arch. Ital. Biol.* 95:199-435, 1957. [*Inst. Fisiologia, Univ. Pisa*]
14. 191 13 **Omnes R.** On the solution of certain singular integral equations of quantum field theory. *Nuovo Cimento* 8:316-26, 1958. [*CERN, Geneva*]
15. 189 48 **Bertocchi L, Fubini S & Tonin M.** Integral equation for high-energy pion-pion scattering. *Nuovo Cimento* 25:626-54, 1962. [*Inst. Naz. Fisica Nucleare, Bologna*]
16. 186 7 **Regge T.** Bound states, shadow states and Mandelstam representation. *Nuovo Cimento* 18:947-56, 1960. [*Palmer Physical Laboratory, Princeton Univ.*]
17. 175 8 **Gourdin M & Salin P.** Analysis of photoproduction with an isobaric model. *Nuovo Cimento* 27:193-207, 1963. [*CERN, Geneva*]
18. 150 10 **Fubini S.** Equal-time commutators and dispersion relations. *Nuovo Cimento* 43:457-82, 1966. [*Inst. Advanced Study, Princeton*]
19. 143 6 **Jackson J D & Pilkuhn H.** On the production of vector mesons and isobars in the peripheral model. *Nuovo Cimento* 33:906-38, 1964. [*CERN, Geneva*]
- 20.* 142 15 **Eccles R M & Lundberg A.** Synaptic actions in motoneurons by afferents which may evoke the flexion reflex. *Arch. Ital. Biol.* 97:199-221, 1959. [*Inst. Physiol., Univ. Lund, Sweden; Dept. Physiology, Australian National University, Canberra*]
21. 140 7 **Toller M.** Three-dimensional Lorentz group and harmonic analysis of the scattering amplitude. *Nuovo Cimento* 37:631-57, 1965. [*Inst. Naz. Fisica Nucleare, Univ. Roma*]
22. 137 9 **Sopkovich N J.** The annihilations NN KK and YY. *Nuovo Cimento* 26:86-89, 1962. [*Carnegie Inst. of Technol., Pittsburgh*]
23. 134 8 **Bottino A, Longoni A M & Regge T.** Potential scattering for complex energy and angular momentum. *Nuovo Cimento* 23:954-1004, 1962. [*Inst. Fisica, Univ. Torino*]
24. 132 27 **Bell J S & Jackiw R.** A PCAC puzzle: $[\pi^0, YY]$ in the O-model. *Nuovo Cimento* 60:47-60, 1969. [*CERN, Geneva*]
- 25.* 122 7 **Batini C, Moruzzi G, Palestini M, Rossi G F & Zanchetti A.** Effects of complete pontine transections on the sleep-wakefulness rhythm; the mid-pontine pretrigeminal preparation. *Arch. Ital. Biol.* 97:1-12, 1959. [*Inst. Fisiologia, Univ. Pisa*]
26. 114 10 **Fubini S, Furlan G & Rossetti C.** A dispersion theory of symmetry breaking. *Nuovo Cimento* 40:1171-93, 1965. [*Inst. Fisica, Torino*]
27. 114 8 **Martin A.** Geometrical restrictions on the pion-pion partial waves. *Nuovo Cimento* 47:265-80, 1967. [*CERN, Geneva*]
28. 111 11 **Foldy L L & Wallecka J D.** Muon capture in nuclei. *Nuovo Cimento* 34:1026-61, 1964. [*CERN, Geneva*]
29. 111 14 **Harting D et al.** [*CERN, Geneva*]. $[\pi^{\pm} p]$ and $p \cdot p$ elastic scattering at 8.5, 12.4, and 18.4 GeV/c. *Nuovo Cimento* 38:60-94, 1965.

(Figure 4 continued)

30. 111 9 **Valatin J G.** Comments on the theory of superconductivity. *Nuovo Cimento* 7:843-57, 1958. [Dept. Mathematical Physics, Univ. Birmingham]
31. 105 1 **Bernstein J, Fubini S, Gell-Mann M & Thirring W.** On the decay rate of the charged pion. *Nuovo Cimento* 17:757-66, 1960. [Faculte des Sciences, Orsay]
- 32.* 103 16 **Brooks D C & Bizzi E.** Brain stem electrical activity during deep sleep. *Arch. Ital. Biol.* 101:648-65, 1963. [Univ. Pisa]
33. 100 1 **Ferrari E & Selleri F.** An approach to the theory of single pion production in the nucleon-nucleon collisions. *Nuovo Cimento* 27:1450-83, 1965. [CERN, Geneva]
34. 98 3 **Bowcock J, Cottingham W N & Lurie D.** Effect of a pion-pion scattering resonance on low energy pion-nucleon scattering. *Nuovo Cimento* 16:918-38, 1960. [CERN, Geneva]
35. 97 12 **Nozieres P & Pines D.** A dielectric formulation of the many body problem; application to the free electron gas. *Nuovo Cimento* 9:470-89, 1958. [Lab. Physique, Ecole Normale Supérieure, Paris]
- 36.* 95 5 **Rossi G F, Favale E, Hara T, Giussani A & Sacco G.** Researches on the nervous mechanisms underlying deep sleep in the cat. *Arch. Ital. Biol.* 99:270-92, 1961. [Univ. Genova]
37. 91 0 **Martin A W & Wali K C.** Meson-baryon resonances in the octet model. *Nuovo Cimento* 31:1324-51, 1964. [Argonne Nat. Lab., Argonne, Ill.]
38. 90 16 **Martin A.** Extension of the axiomatic analyticity domain of scattering amplitudes by unitarity. I. *Nuovo Cimento* 42:930-53, 1966. [CERN, Geneva]
- 39.* 85 17 **Gutenberg B & Richter C F.** The magnitude and energy of earthquakes. *Ann. Geofis.* 9:1-15, 1956. [Calif. Inst. Technology, Pasadena]
- 40.* 81 8 **Contorni L.** The collateral vertebral circulation in total excision to its source of the subclavian artery. *Minerva Chir.* 15:268-71, 1960. [Inst. Clinica Chirurgica Generale e Terapia Chirurgica Univ. Parma]
41. 80 5 **Erba E, Facchini U & Menichella E S.** Statistical emission in nuclear reactions and nuclear level density. *Nuovo Cimento* 22:1237-60, 1961.
- 42.* 78 2 **Rossi G F, Minobe K & Candia O.** An experimental study of the hypnogenic mechanisms of the brain stem. *Arch. Ital. Biol.* 101:470-92, 1963. [Univ. Geneva]
43. 77 1 **Chew G F & Mandelstam S.** Theory of the low-energy pion-pion interaction. 2. *Nuovo Cimento* 19:752-76, 1961. [Lawrence Radiation Lab., Univ. Calif.]
44. 72 14 **Logunov A A & Tavkhelidze A N.** Quasi-optical approach in quantum field theory. *Nuovo Cimento* 29:380, 1963. [Inst. High energy Physics, Serpukhov, USSR]
45. 69 0 **Bogolyubov N N.** On a new method in the theory of superconductivity. *Nuovo Cimento* 7:794-806, 1958. [Joint Institute for Nuclear Research, Dubna, USSR]
46. 68 4 **Lifshitz I M.** Some problems of the dynamic theory of non-ideal crystal lattices. *Nuovo Cimento* 3:716-34, 1956. [Academy of Science of USSR, Moscow]
47. 68 0 **Ruhl W.** A relativistic generalization of the SU₆ symmetry group. *Nuovo Cimento* 37:301-18, 1965. [CERN, Geneva]
48. 65 5 **Gourdin M & Salin P.** Some remarks about gauge invariance in the isobaric model for photoproduction. *Nuovo Cimento* 27:309-12, 1963. [Lab. Physique, Orsay, France]
49. 65 4 **Salam A.** Lagrangian theory of composite particles. *Nuovo Cimento* 25:224-27, 1962. [Imperial College, London]
- 50.* 61 24 **Immirzi A.** A new computation program for refinement of crystalline structures using the method of least squares. *Ricerca Scientifica* 37:743, 1967. [Inst. Chimica Industriale, Centro Nazionale de Chimica Macromol.]

Figure 5. Journals that published the articles from Italian laboratories listed in Figure 6. A = number of articles. B = impact factor. C = journal.

A	B	C	A	B	C
1	6.433	Adv. Enzymology	1	6.677	Lancet
1	2.129	Annals of Physics	2	3.636	Nature
2	16.795	Bacteriol. Rev.	1	8.364	New Engl. J. Med.
3	4.711	Biochemistry	1	2.518	Nuclear Physics
1	2.492	Biopolymers	3	0.994	Nuovo Cimento A
1	2.457	Inorganic Chemistry	1	9.577	Pharmacol. Rev.
1	4.383	J. Amer. Chem. Soc.	2	8.989	P. Nat. Acad. Sci. USA
1	1.558	J. Appl. Physics	2	2.133	Physics Letters
3	5.843	J. Biol. Chemistry	3	2.684	Physical Review
1	6.770	J. Cell Biology	5	5.059	Phys. Rev. Letters
1	2.919	J. Endocrinology	1	21.500	Rev. Mod. Physics
1	11.874	J. Exp. Medicine	2	5.412	Science
1	2.536	J. Geophys. Res.	1	0.149	Zschr. Krebsforsch.
7	7.502	J. Mol. Biology			

Figure 6. Articles from laboratories in Italy, published during the period 1965-1970, and highly cited during the period 1967-1972. A = item number. B = total citations 1967-1972.

A	B	Bibliographic Data
1.	344	Bishop D H L, Claybrook J R & Spiegelman S. Electrophoretic separation of viral nucleic acids on polyacrylamide gels. <i>J. Mol. Biology</i> 26:373, 1967. [<i>Internat. Lab. Genet. & Biophys., Naples</i>]
2.	399	Taylor A L. Revised linkage map of <i>E. coli</i> . <i>Bacteriol. Reviews</i> 31:332-53, 1967. [<i>Food & Agric. Org., UN, Rome</i>]
3.	312	Edelhoch H. Spectroscopic determination of tryptophan and tyrosine in proteins. <i>Biochemistry</i> 6:1948, 1967. [<i>Univ. Naples</i>]
4.	278	Druckrey H & Schneider H. Organotropic carcinogenic effects of 65 different N-nitroso compounds in BD rats. <i>Zschr. Krebsforsch.</i> 69:103-201, 1967. [<i>Gemeinsame Kernforsch., EURATOM, Varese</i>]
5.	271	Sottocasa G L, Kuylenstierna B, Ernster L & Bergstrand A. An electron-transport system associated with the outer membrane of liver mitochondria; a biological and morphological study. <i>J. Biol. Chemistry</i> 32:415-38, 1967. [<i>Inst. Chim., Univ. Trieste</i>]
6.	254	Taylor A L. Current linkage map of <i>E. coli</i> . <i>Bacteriol. Reviews</i> 34:155-75, 1970. [<i>Food & Agric. Org., UN, Rome</i>]
7.	233	Penman S & Vesco C. Localization and kinetics of formation of nuclear hetero-disperse RNA, cytoplasmic heterodisperse RNA, and polyribome-associated messenger RNA in HeLa cells. <i>J. Mol. Biology</i> 34:49-69, 1968. [<i>Intern. Lab. Genet. & Biophys., Naples; Lab. Biol. Cellulare, Rome</i>]
8.	227	DeAlfaro V, Fubini S, & Rossetti G. Sum rules for strong interactions. <i>Phys. Letters</i> 21:576-81, 1966. [<i>Univ. Inst. Fisica Teor., Univ. Torino; Univ Trieste</i>]
9.	224	Pople J A & Gordon M. Molecular orbital theory of the electron structure of organic compounds. 1. Substituent effects and dipole moments. <i>J. Amer. Chem. Soc.</i> 89:4253-61, 1967. [<i>CNR, Lab. Neurofisiol., Pisa</i>]

10. 194 Kennel C F & Petschek H E. Limit on stably trapped particle fluxes. *J. Geophys. Res.* 71:1-28, 1966. [*Int. Ctr. Theoret. Phys., Trieste*]
11. 182 DeLucia P & Cairns J. Isolation of an *E. coli* strain with a mutation affecting DNA polymerase. *Nature* 224:1164-6, 1969. [*Consiglio Naz. Ricerche, Naples*]
12. 179 Millicemili J, Henderson J A, Dolovich M B, Trop D & Kanesko K. Regional distribution of inspired gas in lung. *J. Appl. Physiology* 21:749, 1966. [*Inst. Fisiol., Univ. Milan*]
13. 159 Mangiarotti G & Schlessinger D. Polyribosome metabolism in *E. coli*. 1. Extraction of polyribosomes and ribosomal subunits from fragile growing *E. coli*. *J. Mol. Biology* 20:123, 1966. [*Inst. Chim. Biol., Univ. Genova*]
14. 156 Edsall J T, Liguori A M, Flory P J, Kendrew J C, Nemethy G, Ramachandran G N & Scheraga H A. A proposal of standard conventions and nomenclature for description of polypeptide conformations. *Biopolymers* 4:121, 1966. [*Centro Naz. Chim., Univ. Naples; Lab. Chim. Fisica, Univ. Rome*]
15. 151 Mermin M D & Wagner H. Absence of ferromagnetism or antiferromagnetism in one- or two-dimensional isotropic Heisenberg models. *Phys. Rev. Letters* 17:1133-36, 1966. [*Inst. Fis. G. Marconi, Univ. Rome*]
16. 141 Fubini S & Veneziano G. Level structure of dual-resonance models. *Nuovo Cimento A* 64:811, 1969. [*Inst. Fisica Teor. Univ. Torino*]
17. 140 Weiss J F & Kelmers A D. A new chromatographic system for increased resolution of transfer ribonucleic acids. *Biochemistry* 6:2507, 1967. [*Univ. Milano*]
18. 139 Cool R L, Giacomelli G, Kycia T F, Leontic B A, Li K K, Lundby A & Teiger J. New structure in the $K + \cdot P$ and $K + \cdot D$ total cross sections between 0.9 and 2.4 GEV/c. *Phys. Rev. Letters* 17:102, 1966. [*Inst. Naz. Fisica Nucl., Inst. Fisica, Bologna; Fac. Sci. MFN, Univ. Pisa*]
19. 137 Bussolati G & Pearce A G E. Immunofluorescent localization of calcitonin in C cells of pig and dog thyroid. *J. Endocrinology* 37:205, 1967. [*Inst. Anat. & Istol. Patol., Univ. Torino*]
20. 132 Edsall J T, Liguori A M, Flory P J, Kendrew J C, Nemethy G, Ramachandran G N, & Scheraga H A. A proposal of standard conventions and nomenclature for description of polypeptide conformations. *J. Mol. Biology* 15:399, 1966. [*Centro Naz. Chim., Univ. Naples; Inst. Chim., Lab. Chim. Fisica, Univ. Rome*]
21. 132 Muirhead H, Mazzarella L, Cox J M & Perutz M F. Structure and function of hemoglobin. 3. A three-dimensional Fourier synthesis of human deoxyhemoglobin at 5.5 Å resolution. *J. Mol. Biology* 28:117, 1967. [*Inst. Chim. Centro Naz. Chim., Naples; Inst. Anat., Univ. Bari*]
22. 128 Lehninger A L, Carafoli E & Rossi C S. Energy linked ion movements in mitochondrial systems. *Adv. Enzymology* 29:259-320, 1967. [*Inst. Pathol., Univ. Modena; Inst. Biol. Chim., Univ. Padova*]
23. 127 Cabibbo N & Radicati L A. Sum rule for isovector magnetic moment of nucleon. *Phys. Letters* 19:697, 1966. [*Inst. Fis., Univ. Rome*]
24. 126 Ciampolini M & Nardi N. 5-coordinated high-spin complexes of bivalent cobalt nickel and copper with TRIS (2-dimethylaminoethyl) amine. *Inorg. Chemistry* 5:41, 1966. [*Inst. Chim. Gen. Inorg., Univ. Firenze*]
25. 122 Fubini S, Furlan G & Rossetti C. A dispersion theory of symmetry breaking. *Nuovo Cimento A* 40:1171, 1965. [*Inst. Fisica Teor. Torino; Inst. Fis Teor. Univ. Trieste*]
26. 120 Grillo M A. Electron microscopy of sympathetic tissues. *Pharmacol. Reviews* 18:387, 1966. [*Inst. Biol. Chim., Univ. Sassari; Inst. Chim. Biol., Univ. Torino*]

27. 120 **Pernis B, Forni L & Amante L.** Immunoglobulin spots on the surface of rabbit lymphocytes. *J. Exp. Med.* 132:1001-18, 1970. [*Inst. Medicina, Univ. Genova; Lab. Immunol., Univ. Milano*]
28. 119 **Edsall J T, Liquori A M, Flory P J, Kendrew J C, Nemethy G, Ramachandran G N & Scheraga H A.** A proposal of standard conventions and nomenclature for description of polypeptide conformation. *J. Biol. Chemistry* 241:1004, 1966. [*Centro Naz. Chim., Univ. Naples; Inst. Chim., Lab. Chim. Fisica, Univ. Rome*]
29. 115 **Gilat G & Raubenheimer L J.** Accurate numerical method for calculating frequency distribution functions in solids. *Phys. Review* 144:390-5, 1966. [*Comitato Naz. Energia Nucl., Varese*]
30. 114 **Fubini S.** Equal-time commutators and dispersion relations. *Nuovo Cimento A* 43:475, 1966. [*Inst. Fisica Teor., Torino*]
31. 114 **Schlessinger D, Mangiarotti G & Apirion D.** Formation and stabilization of 30S and 50S ribosome couples in *E. coli*. *Proc. Nat. Acad. Sci. USA* 58:1782, 1967. [*Inst. Chim. Biol., Univ. Genova*]
32. 110 **Corneo G, Moore C, Sanadi D R, Grossman L I & Marmur J.** Mitochondrial DNA in yeast and some mammalian species. *Science* 151:687, 1966. [*Centro Patol. Molecol., Univ. Milano*]
33. 110 **Griffiths R B.** Thermodynamic functions for fluids and ferromagnets near the critical point. *Phys. Review* 158:176, 1967. [*Food & Agr. Org., UN, Rome*]
34. 109 **Azzi A, Chance B, Radda G K & Lee C P.** A fluorescence probe of energy-dependent structure changes in fragmented membranes. *Proc. Nat. Acad. Sci. USA* 62:612, 1969. [*G. Vernoni Stud. Fis., Univ. Padova*]
35. 108 **Mangiarotti G & Schlessinger D.** Polyribosome metabolism in *E. coli*. 2. Formation and lifetime of messenger RNA molecules, ribosomal subunit couples, and polyribosomes. *J. Mol. Biology* 29:395, 1967. [*Inst. Chim. Biol., Univ. Genova*]
36. 104 **Mangiarotti G, Apirion G, Schlessinger D & Silengo L.** Biosynthetic precursors of 30S and 50S ribosomal particles in *E. coli*. *Biochemistry* 7:456, 1968. [*Inst. Chim. Biol., Univ. Genova*]
37. 104 **Sakurai J J.** Eight ways of determining the rho-meson coupling constant. *Phys. Rev. Letters* 17:1021, 1966. [*Scuola Normale Superiore, Pisa*]
38. 103 **Bloom F E & Groppetti A.** Lesions of central norepinephrine terminals with 6-OH dopamine; biochemistry and fine structure. *Science* 166:1284-6, 1969. [*Lab. Farmaceut. Milan*]
39. 100 **Teegarden K & Baldini G.** Optical absorption spectra of alkali halides at 10 degrees K. *Phys. Review* 155:896, 1967. [*Inst. Fisica, Univ. Milan*]
40. 99 **Belletini G, Cocconi G, Diddens A N, Lillethun E, Matthiae G, Scanlon J P & Wetherell A M.** Proton-nuclei cross sections at 20 GEV. *Nucl. Physics* 79:609, 1966. [*Inst. Naz. Fis. Nucl., Univ. Pisa; Inst. Super. Sanita, Rome*]
41. 99 **Rosenberg S A & Guidotti G G.** Protein of human erythrocyte membranes. 1. Preparation, solubilization, and partial characterization. *J. Biol. Chemistry* 243:1985, 1968. [*Inst. Patol. Gen., Univ. Cagliari; Inst. Gen. Pathol., Univ. Milano*]
42. 98 **Greaves M F, Trusi A, Torrigiani G, Zamir R, Playfair J H & Roitt I M.** Immunosuppressive potency and *in vitro* activity of antilymphocyte globulin. *Lancet* 1:68, 1969. [*Clin. Med. II., Univ. Bari*]
43. 96 **Cool R L, Giacomelli G, Kycia T F, Leontic B A, Li K K & Teiger J.** New structure in K-P and K-D total cross sections between 1.0 and 2.45 GEV/c. *Phys. Rev. Letters* 16:1228, 1966. [*Inst. Naz. Fis. Nucl., Bologna; Fac. Sci., Univ. Pisa*]
44. 96 **McClusky R T, Gallo G, Vassalli P & Baldwin D S.** Immunofluorescent study of pathogenic mechanisms in glomerular diseases. *New Engl. J. Med.* 274:695, 1966. [*Inst. Naz. Appl. Cal., Rome; Inst. Fisiol. Gen., Univ. Genova; Lab. Recherche, Lepetit SPA, Milano*]

(Figure 6 continued)

45. 96 Oakes R J & Sakurai J J. Spectral-function sum rules, omega-phi mixing, and lepton-pair decays of vector mesons. *Phys. Rev. Letters* 19:1266, 1967. [*Scuola Normale Superiore, Pisa*]
46. 96 Perutz M F, Mazzarella L., Muirhead H, Crowther R A, Greer J & Kilmartin J V. Identification of residues responsible for the alkaline Bohr effect in hemoglobin. *Nature* 222:1240, 1969. [*Inst. Chim. Centro Naz. Chim. CNR, Naples; Inst. Anat., Univ. Bari*]
47. 94 Martinez-Carrion M, Bossa F, Chiancone E, Fasella P, Riva F, Turano C & Giartosio A. Isolation and characterization of multiple forms of glutamate-aspartate aminotransferase from pig heart. *J. Biol. Chemistry* 242:2397, 1967. [*CNR, Ctr. Molec. Biol., Univ. Rome; Fac. Med., Cattedra Chim. Biol., Univ. Rome; Lab. Recherche Reologia, Univ. Naples; Fac. Farm., Univ. Perugia; Inst. Biol., Chim., Univ. Rome*]
48. 93 Fubini S & Furlan G. Dispersion theory of low-energy limits. *Ann. Physics* 43:322, 1968. [*Inst. Fis. Teor. Torino; Inst. Fis. Teor., Univ. Trieste*]
49. 91 Zylber E, Vesco C & Penman S. Selective inhibition of the synthesis of mitochondria-associated RNA by ethidium bromide. *J. Mol. Biology* 44:195-204, 1969. [*Intern. Lab. Genet. & Biophys., Naples; Lab. Biol. Cellulare, Rome*]
50. 91 DiMauro S, Snyder L, Marino P, Lamberti A, Coppo A & Tocchini G P. Rifampicin sensitivity of components of DNA-dependent RNA polymerase. *Nature* 222:533, 1969. [*Inst. Internaz. Genet., Naples.*]
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ERRATUM:

In preparing Figure 6 we compiled a list of "Italian" authors. In that list a number of names were included for persons who *at one time* had been co-authors of papers published by Italian laboratories. For example, A.L. Taylor (papers #2 and #6) had been at FAO in Rome, but not when these papers were written.

During 1980 we intend to publish a revised analysis of the most-cited papers by Italian scientists. I apologize to the authors of the papers which were listed with incorrect addresses. The inclusion of these names meant that a large group of well-cited Italian authors was excluded.