

# **VA RICERCA SULL'ALI DORATE: QUANTO, COME E DOVE GLI ITALIANI PUBBLICANO SULLE CEFALEE**

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# Cos'è una pubblicazione scientifica?

*“not a piece of information, but an expression of the state of the scholar or group of scholars at a particular time. We do not, contrary to superstition, publish a fact, a theory, or a finding, but some complex of these. A scientific paper is, at the same time more and less than a concept or a datum or a hypothesis. If the paper is an expression of a person or several persons working in the research front, we can tell something about the relations among the people from the papers themselves”*

Pierce, 1980

Chi è uno scienziato?

*“any person who has ever  
published a scientific paper”*

Price, 1970

# Cos'è la bibliometria?

*“the application of mathematical and statistical methods to books and other means of communication”*

Pritchard, 1969

# LA BIBLIOMETRIA

- ❑ La **bibliometria** è un ambito di studio applicato alle varie discipline scientifiche, che comprende anche **l'analisi bibliometrica**, sviluppatosi negli ultimi vent'anni grazie alla disponibilità online di banche dati di grandi dimensioni.
- ❑ E' collocata entro un contesto più ampio di **scientometria**, la scienza per la misura e l'analisi della scienza.
- ❑ La bibliometria, utilizza tecniche matematiche e statistiche per analizzare i modelli di distribuzione delle pubblicazioni e per esplorare l'impatto entro le comunità scientifiche

# L'ANALISI BIBLIOMETRICA

- ❑ Le due misure bibliometriche più conosciute sono:
  - il numero di citazioni
  - il fattore di impatto o impact factor IF, il numero di citazioni ricevute nell'anno corrente agli articoli pubblicati nei due anni precedenti diviso per il totale del numero di articoli pubblicati negli stessi due anni.
- ❑ Ci sono numerosi altri indicatori meno noti e altri emergenti, in particolare nel contesto Open Access.

# H INDEX

Con **h-index** si intende un indice proposto nel 2005 da Jorge E. Hirsch della University of California di San Diego per quantificare la prolificità e l'impatto del lavoro degli scienziati, basandosi sul numero delle loro pubblicazioni ed il numero di citazioni ricevute.

## H INDEX (cont.)

- Secondo la definizione, uno scienziato è di indice  $n$  se ha pubblicato almeno  $n$  lavori, ciascuno dei quali è stato citato almeno  $n$  volte.
- In altre parole, uno studioso con un indice pari a 3 ha pubblicato 3 lavori citati almeno 3 volte ciascuno. L'indice è strutturato per verificare con un processo relativamente semplice non solo la produzione, ma anche l'influenza di uno scienziato, distinguendolo da chi avesse pubblicato molti articoli ma di scarso interesse. Inoltre l'indice non è troppo influenzato da singoli articoli di grande successo.

## scholar index

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98 references between 1985 and 2009  
98 references cited (2267 citations)

• [Cattura rettangolare](#)

[h-index](#): 23 (a=4.29, m=0.96)  
[g-index](#): 45

23.13 citations per reference (median=6.00)  
23.13 citations per cited reference (median=6.00)

- |  |                                                                                                                                                                                                                                                        |
|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | <a href="#">162</a> <a href="#">Migraine without aura and reproductive life events: a clinical epidemiological study in 1300 women</a><br>F Granella, G Sances, C Zanferrari, A ... : The Journal of ..., 1993 - interscience.wiley.com                |
|  | <a href="#">135</a> <a href="#">Double blind comparison of lithium and verapamil in cluster headache prophylaxis</a><br>..., C Peccarisi, G Micieli, F Granella, M ... : The Journal of ..., 1990 - interscience.wiley.com                             |
|  | <a href="#">124</a> <a href="#">Course of migraine during pregnancy and postpartum: a prospective study</a><br>G Sances, F Granella, RE Nappi, A Fignon, N ... , 2003 - cep.sagepub.com                                                                |
|  | <a href="#">118</a> <a href="#">Characteristics of menstrual and nonmenstrual attacks in women with menstrually related migraine referred to headache centres</a><br>F Granella, G Sances, G Allais, RE Nappi, A Tirelli, ... , 2004 - cep.sagepub.com |
|  | <a href="#">110</a> <a href="#">Psychiatric comorbidity in chronic daily headache.</a><br>... Proietti, C Galli, F Granella, G Sandrini, G ... journal of headache, 1998 - ncbi.nlm.nih.gov                                                            |
|  | <a href="#">109</a> <a href="#">Characteristics of headache at menopause: a clinico-epidemiologic study</a><br>I Neri, F Granella, R Nappi, GC Manzoni, F Facchinetti, ... - Menopause, 1993 - Elsevier                                                |

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saving... parsing... reading... saving... parsing... reading... saving... parsing...  
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parsing... reading... saving... parsing... Caching results... done

738 references between 1982 and 2010

738 references cited (23668 citations)

[h-index](#): 78 (a=3.89, m=2.79)

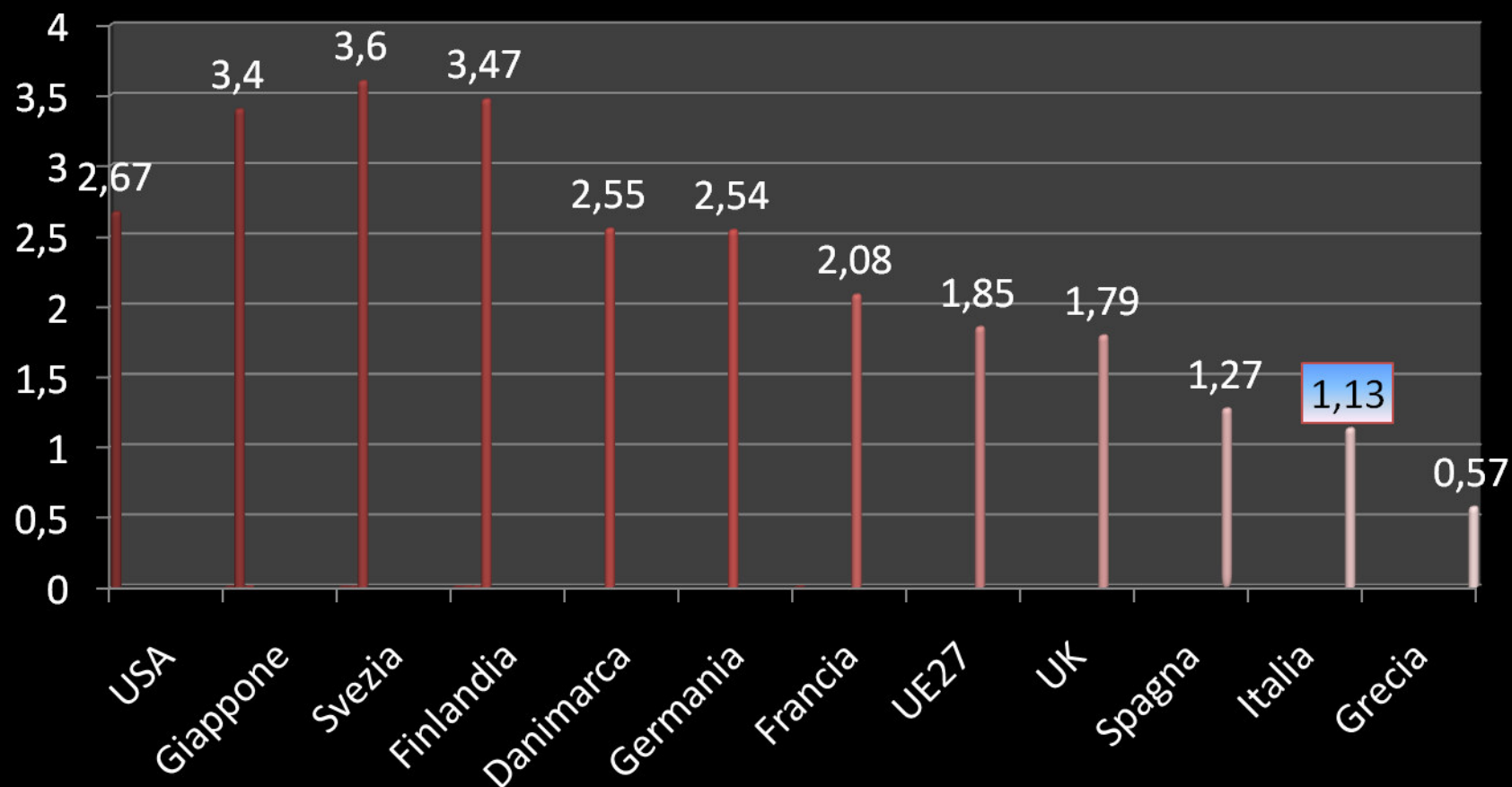
[g-index](#): 130

32.07 citations per reference (median=9.00)

32.07 citations per cited reference (median=9.00)

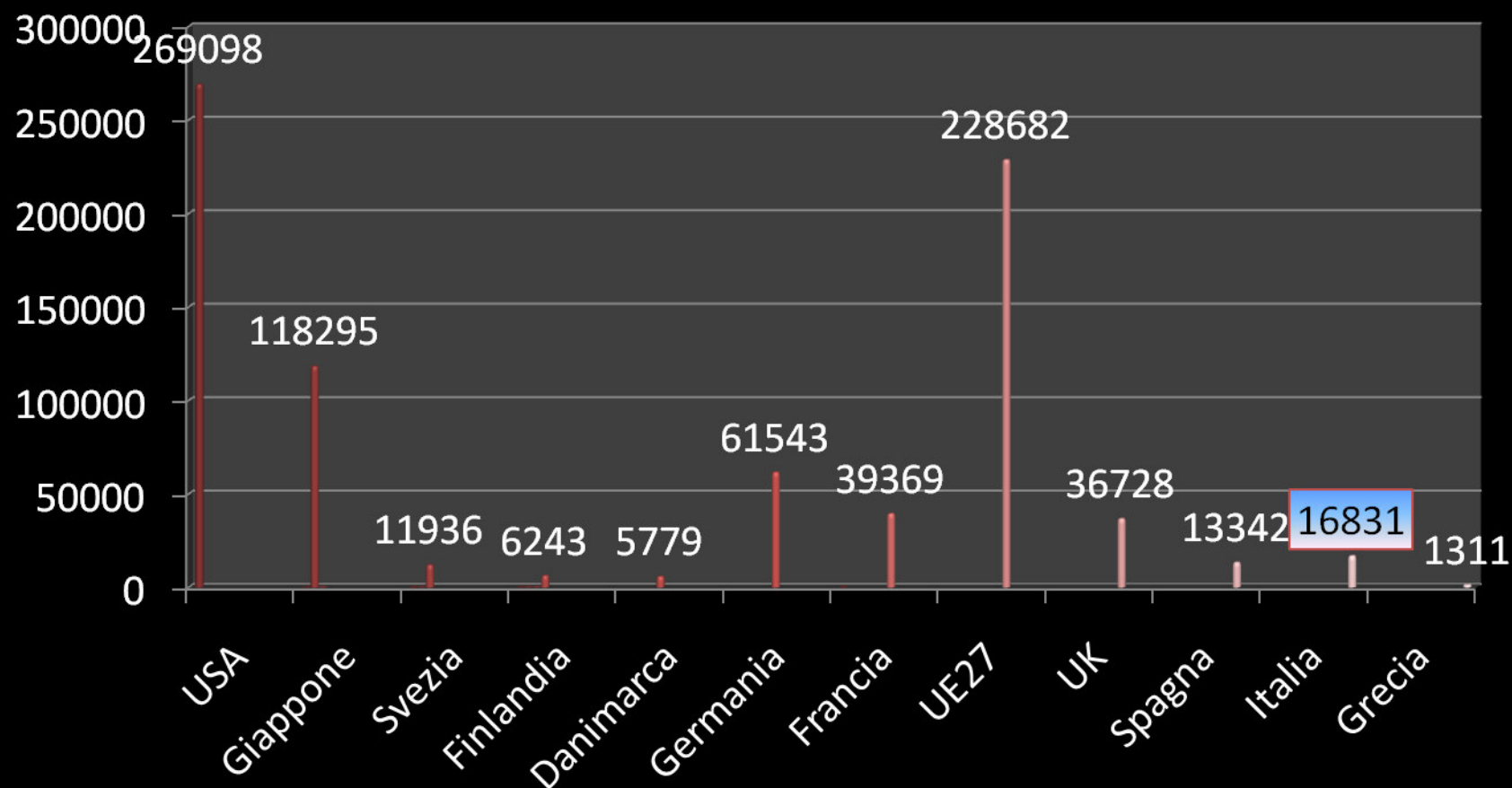
- |  |                                                                                                                                                                                                                                 |
|--|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | <a href="#">945</a> <a href="#">Migraine--current understanding and treatment</a><br>PJ Goadsby, RB Lipton, MD Ferrari - New England Journal of ..., 2002 - content.nejm.org                                                    |
|  | <a href="#">721</a> <a href="#">Mechanism and management of headache</a><br>JW Lance, PJ Goadsby - 1993 - orton.catie.ac.cr                                                                                                     |
|  | <a href="#">591</a> <a href="#">Vasoactive peptide release in the extracerebral circulation of humans during migraine headache</a><br>PJ Goadsby, L Edvinsson, R Ekman - Annals of Neurology, 1990 - interscience.wiley.com     |
|  | <a href="#">555</a> <a href="#">A review of paroxysmal hemicranias, SUNCT syndrome and other short-lasting headaches with autonomic feature, including new cases</a><br>PJ Goadsby, RB Lipton - Brain, 1997 - Oxford Univ Press |
|  | <a href="#">548</a> <a href="#">Hypothalamic activation in cluster headache attacks</a><br>... May, A Bahra, C Büchel, RSJ Frackowiak, PJ Goadsby - The Lancet, 1998 - Elsevier                                                 |

# Intensità spesa in R&S



Percentuale di PIL destinata a R&S (dati 2007)

# Spesa in R&S (valori assoluti)



Spesa destinata a R&S nel 2007 (milioni di Euro)

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## Country Rankings

### Ranking Parameters

Subject Area:

Subject Category:

Region:

Order By:

Display countries with at least:

Complete list.

# COUNTRY RANKINGS 2008 PER NUMERO DI PUBBLICAZIONI: TUTTI I CAMPI SCIENTIFICI

|    | Country                                                                                          | Documents | Citable documents | Citations | Self-Citations | Citations per Document | H index |
|----|--------------------------------------------------------------------------------------------------|-----------|-------------------|-----------|----------------|------------------------|---------|
| 1  |  United States  | 375.927   | 343.536           | 954.004   | 478.922        | 2,54                   | 1.048   |
| 2  |  China          | 231.726   | 229.482           | 190.428   | 109.187        | 0,82                   | 246     |
| 3  |  United Kingdom | 120.630   | 109.126           | 284.330   | 86.187         | 2,36                   | 636     |
| 4  |  Germany        | 105.558   | 99.399            | 247.823   | 79.970         | 2,35                   | 558     |
| 5  |  Japan         | 101.282   | 98.042            | 162.048   | 55.655         | 1,60                   | 492     |
| 6  |  France       | 80.426    | 74.805            | 165.059   | 47.458         | 2,05                   | 510     |
| 7  |  Canada       | 68.160    | 63.739            | 151.242   | 38.698         | 2,22                   | 495     |
| 8  |  Italy        | 64.831    | 60.174            | 135.995   | 39.002         | 2,10                   | 442     |
| 9  |  Spain        | 52.596    | 48.936            | 99.638    | 31.288         | 1,89                   | 347     |
| 10 |  India        | 50.519    | 47.537            | 50.586    | 19.185         | 1,00                   | 206     |

# COUNTRY RANKINGS 2008 PER NUMERO DI CITAZIONI: TUTTI I CAMPI SCIENTIFICI

|    | Country                                                                                          | Documents | Citable documents | Citations | Self-Citations | Citations per Document | H index |
|----|--------------------------------------------------------------------------------------------------|-----------|-------------------|-----------|----------------|------------------------|---------|
| 1  |  United States  | 375.927   | 343.536           | 954.004   | 478.922        | 2,54                   | 1.048   |
| 2  |  United Kingdom | 120.630   | 109.126           | 284.330   | 86.187         | 2,36                   | 636     |
| 3  |  Germany        | 105.558   | 99.399            | 247.823   | 79.970         | 2,35                   | 558     |
| 4  |  China          | 231.726   | 229.482           | 190.428   | 109.187        | 0,82                   | 246     |
| 5  |  France        | 80.426    | 74.805            | 165.059   | 47.458         | 2,05                   | 510     |
| 6  |  Japan        | 101.282   | 98.042            | 162.048   | 55.655         | 1,60                   | 492     |
| 7  |  Canada       | 68.160    | 63.739            | 151.242   | 38.698         | 2,22                   | 495     |
| 8  |  Italy        | 64.831    | 60.174            | 135.995   | 39.002         | 2,10                   | 442     |
| 9  |  Australia    | 47.021    | 43.409            | 100.169   | 28.066         | 2,13                   | 380     |
| 10 |  Spain        | 52.596    | 48.936            | 99.638    | 31.288         | 1,89                   | 347     |

# COUNTRY RANKINGS 2008 PER H INDEX: TUTTI I CAMPI SCIENTIFICI

|    | Country                                                                                          | Documents | Citable documents | Citations | Self-Citations | Citations per Document | H index |
|----|--------------------------------------------------------------------------------------------------|-----------|-------------------|-----------|----------------|------------------------|---------|
| 1  |  United States  | 375.927   | 343.536           | 954.004   | 478.922        | 2,54                   | 1.048   |
| 2  |  United Kingdom | 120.630   | 109.126           | 284.330   | 86.187         | 2,36                   | 636     |
| 3  |  Germany        | 105.558   | 99.399            | 247.823   | 79.970         | 2,35                   | 558     |
| 4  |  France         | 80.426    | 74.805            | 165.059   | 47.458         | 2,05                   | 510     |
| 5  |  Canada         | 68.160    | 63.739            | 151.242   | 38.698         | 2,22                   | 495     |
| 6  |  Japan         | 101.282   | 98.042            | 162.048   | 55.655         | 1,60                   | 492     |
| 7  |  Italy        | 64.831    | 60.174            | 135.995   | 39.002         | 2,10                   | 442     |
| 8  |  Switzerland  | 25.736    | 24.076            | 79.368    | 15.622         | 3,08                   | 432     |
| 9  |  Netherlands  | 35.855    | 33.255            | 98.617    | 23.007         | 2,75                   | 430     |
| 10 |  Sweden       | 23.146    | 22.001            | 60.110    | 12.852         | 2,60                   | 381     |

# COUNTRY RANKINGS 2008 PER NUMERO DI PUBBLICAZIONI: MEDICINA

|    | Country                                                                                          | Documents | Citable documents | Citations | Self-Citations | Citations per Document | H index |
|----|--------------------------------------------------------------------------------------------------|-----------|-------------------|-----------|----------------|------------------------|---------|
| 1  |  United States  | 114.564   | 96.507            | 323.935   | 161.810        | 2,83                   | 701     |
| 2  |  United Kingdom | 36.213    | 29.566            | 99.448    | 26.994         | 2,75                   | 450     |
| 3  |  Germany        | 26.031    | 22.532            | 73.023    | 19.233         | 2,81                   | 373     |
| 4  |  China          | 22.062    | 21.374            | 20.115    | 6.840          | 0,91                   | 130     |
| 5  |  Japan         | 21.488    | 19.823            | 37.663    | 10.530         | 1,75                   | 282     |
| 6  |  Italy        | 19.283    | 16.332            | 50.245    | 11.552         | 2,61                   | 342     |
| 7  |  France       | 19.148    | 15.555            | 47.203    | 10.367         | 2,47                   | 364     |
| 8  |  Canada       | 17.870    | 15.432            | 53.323    | 10.709         | 2,98                   | 387     |
| 9  |  Spain        | 14.234    | 11.661            | 26.996    | 6.688          | 1,90                   | 250     |
| 10 |  Australia    | 13.720    | 11.533            | 35.306    | 8.081          | 2,57                   | 277     |

# COUNTRY RANKINGS 2008 PER NUMERO DI CITAZIONI: MEDICINA

|    | Country                                                                                          | Documents | Citable documents | Citations | Self-Citations | Citations per Document | H index |
|----|--------------------------------------------------------------------------------------------------|-----------|-------------------|-----------|----------------|------------------------|---------|
| 1  |  United States  | 114.564   | 96.507            | 323.935   | 161.810        | 2,83                   | 701     |
| 2  |  United Kingdom | 36.213    | 29.566            | 99.448    | 26.994         | 2,75                   | 450     |
| 3  |  Germany        | 26.031    | 22.532            | 73.023    | 19.233         | 2,81                   | 373     |
| 4  |  Canada         | 17.870    | 15.432            | 53.323    | 10.709         | 2,98                   | 387     |
| 5  |  Italy          | 19.283    | 16.332            | 50.245    | 11.552         | 2,61                   | 342     |
| 6  |  France        | 19.148    | 15.555            | 47.203    | 10.367         | 2,47                   | 364     |
| 7  |  Netherlands  | 11.945    | 10.398            | 41.223    | 8.613          | 3,45                   | 336     |
| 8  |  Japan        | 21.488    | 19.823            | 37.663    | 10.530         | 1,75                   | 282     |
| 9  |  Australia    | 13.720    | 11.533            | 35.306    | 8.081          | 2,57                   | 277     |
| 10 |  Spain        | 14.234    | 11.661            | 26.996    | 6.688          | 1,90                   | 250     |

# COUNTRY RANKINGS 2008 PER H INDEX: MEDICINA

|    | Country                                                                                          | Documents | Citable documents | Citations | Self-Citations | Citations per Document | H index |
|----|--------------------------------------------------------------------------------------------------|-----------|-------------------|-----------|----------------|------------------------|---------|
| 1  |  United States  | 114.564   | 96.507            | 323.935   | 161.810        | 2,83                   | 701     |
| 2  |  United Kingdom | 36.213    | 29.566            | 99.448    | 26.994         | 2,75                   | 450     |
| 3  |  Canada         | 17.870    | 15.432            | 53.323    | 10.709         | 2,98                   | 387     |
| 4  |  Germany        | 26.031    | 22.532            | 73.023    | 19.233         | 2,81                   | 373     |
| 5  |  France         | 19.148    | 15.555            | 47.203    | 10.367         | 2,47                   | 364     |
| 6  |  Italy        | 19.283    | 16.332            | 50.245    | 11.552         | 2,61                   | 342     |
| 7  |  Netherlands  | 11.945    | 10.398            | 41.223    | 8.613          | 3,45                   | 336     |
| 8  |  Sweden       | 6.573     | 5.983             | 21.664    | 3.679          | 3,30                   | 284     |
| 9  |  Japan        | 21.488    | 19.823            | 37.663    | 10.530         | 1,75                   | 282     |
| 10 |  Switzerland  | 6.939     | 6.059             | 24.555    | 3.596          | 3,54                   | 281     |

# COUNTRY RANKINGS 2008 PER NUMERO DI PUBBLICAZIONI: NEUROLOGIA CLINICA

|    | Country                                                                                          | Documents | Citable documents | Citations | Self-Citations | Citations per Document | H index |
|----|--------------------------------------------------------------------------------------------------|-----------|-------------------|-----------|----------------|------------------------|---------|
| 1  |  United States  | 6.931     | 5.913             | 17.174    | 8.536          | 2,48                   | 194     |
| 2  |  Germany        | 2.178     | 1.891             | 5.521     | 1.556          | 2,53                   | 128     |
| 3  |  Japan          | 1.783     | 1.653             | 2.496     | 737            | 1,40                   | 100     |
| 4  |  United Kingdom | 1.687     | 1.416             | 5.163     | 1.339          | 3,06                   | 139     |
| 5  |  Italy         | 1.505     | 1.303             | 3.123     | 750            | 2,08                   | 103     |
| 6  |  Canada       | 1.274     | 1.137             | 3.492     | 776            | 2,74                   | 117     |
| 7  |  France       | 1.160     | 1.022             | 2.318     | 572            | 2,00                   | 109     |
| 8  |  Spain        | 820       | 666               | 1.642     | 455            | 2,00                   | 74      |
| 9  |  Netherlands  | 741       | 649               | 2.294     | 473            | 3,10                   | 103     |
| 10 |  China        | 734       | 695               | 1.315     | 354            | 1,79                   | 45      |

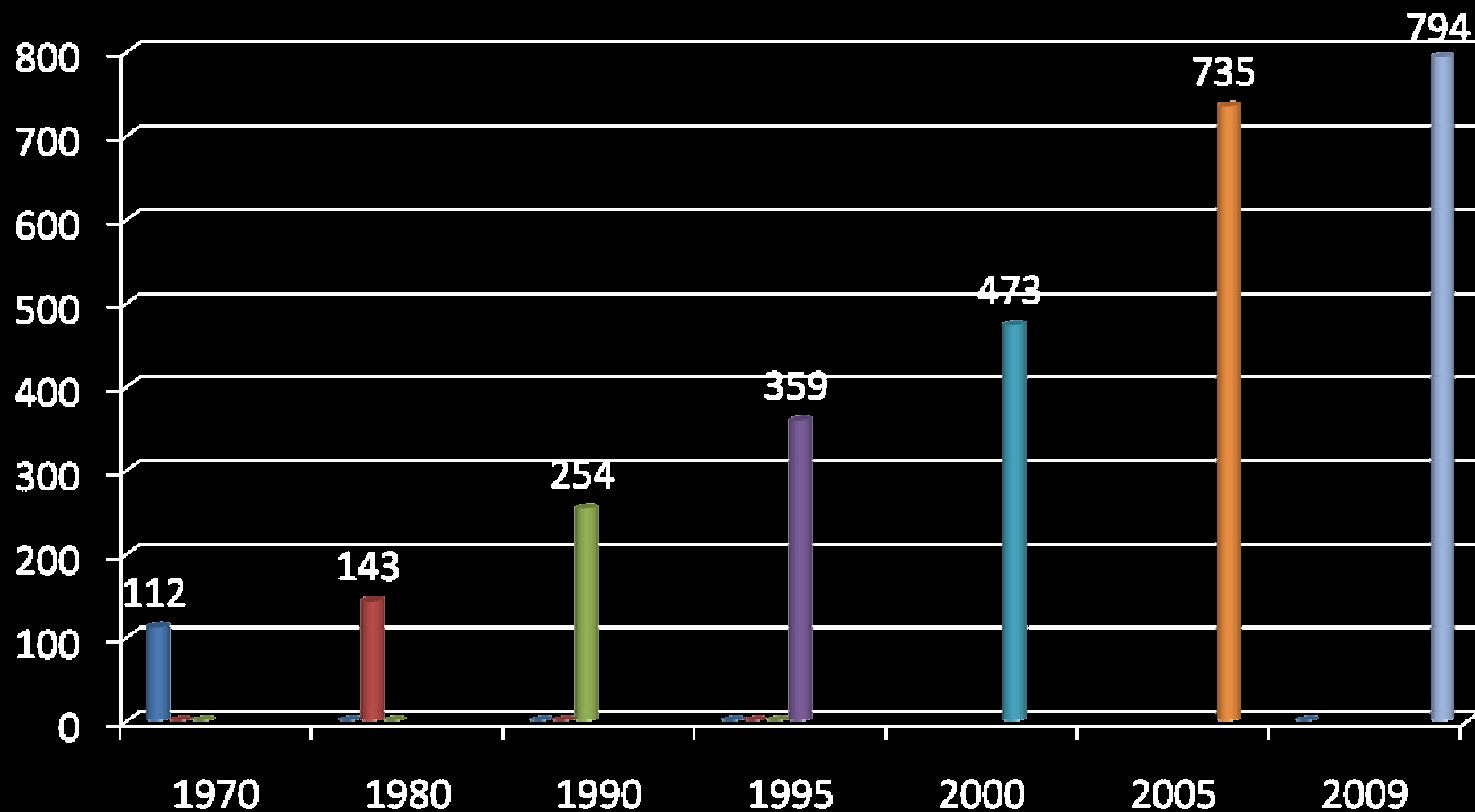
# COUNTRY RANKINGS 2008 PER NUMERO DI CITAZIONI: NEUROLOGIA CLINICA

|    | Country                                                                                          | Documents | Citable documents | Citations | Self-Citations | Citations per Document | H index |
|----|--------------------------------------------------------------------------------------------------|-----------|-------------------|-----------|----------------|------------------------|---------|
| 1  |  United States  | 6.931     | 5.913             | 17.174    | 8.536          | 2,48                   | 194     |
| 2  |  Germany        | 2.178     | 1.891             | 5.521     | 1.556          | 2,53                   | 128     |
| 3  |  United Kingdom | 1.687     | 1.416             | 5.163     | 1.339          | 3,06                   | 139     |
| 4  |  Canada         | 1.274     | 1.137             | 3.492     | 776            | 2,74                   | 117     |
| 5  |  Italy         | 1.505     | 1.303             | 3.123     | 750            | 2,08                   | 103     |
| 6  |  Japan        | 1.783     | 1.653             | 2.496     | 737            | 1,40                   | 100     |
| 7  |  France       | 1.160     | 1.022             | 2.318     | 572            | 2,00                   | 109     |
| 8  |  Netherlands  | 741       | 649               | 2.294     | 473            | 3,10                   | 103     |
| 9  |  Australia    | 659       | 587               | 1.959     | 424            | 2,97                   | 90      |
| 10 |  Spain        | 820       | 666               | 1.642     | 455            | 2,00                   | 74      |

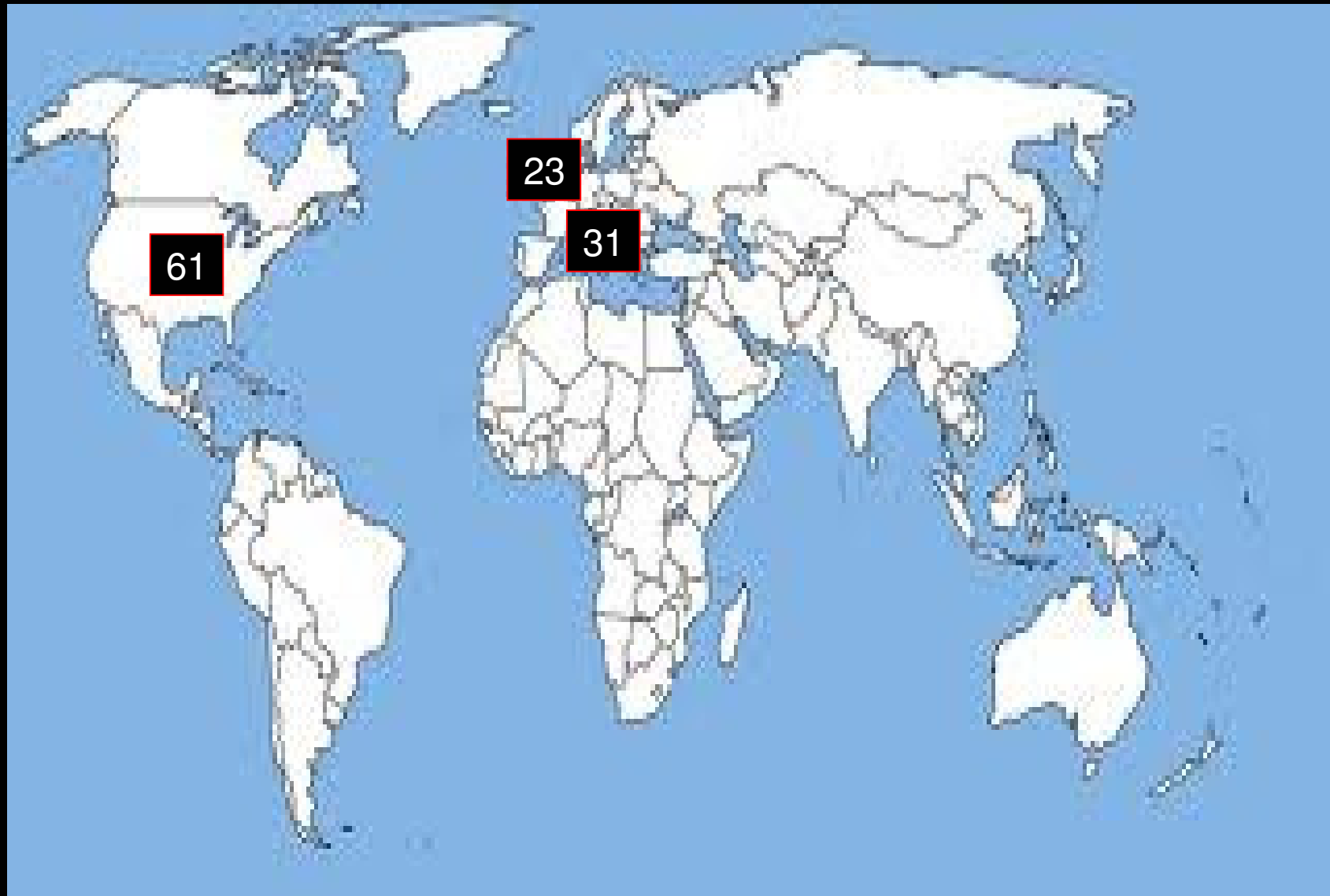
# COUNTRY RANKINGS 2008 PER H INDEX: NEUROLOGIA CLINICA

|    | Country                                                                                          | Documents | Citable documents | Citations | Self-Citations | Citations per Document | H index |
|----|--------------------------------------------------------------------------------------------------|-----------|-------------------|-----------|----------------|------------------------|---------|
| 1  |  United States  | 6.931     | 5.913             | 17.174    | 8.536          | 2,48                   | 194     |
| 2  |  United Kingdom | 1.687     | 1.416             | 5.163     | 1.339          | 3,06                   | 139     |
| 3  |  Germany        | 2.178     | 1.891             | 5.521     | 1.556          | 2,53                   | 128     |
| 4  |  Canada         | 1.274     | 1.137             | 3.492     | 776            | 2,74                   | 117     |
| 5  |  France         | 1.160     | 1.022             | 2.318     | 572            | 2,00                   | 109     |
| 6  |  Italy        | 1.505     | 1.303             | 3.123     | 750            | 2,08                   | 103     |
| 7  |  Netherlands  | 741       | 649               | 2.294     | 473            | 3,10                   | 103     |
| 8  |  Japan        | 1.783     | 1.653             | 2.496     | 737            | 1,40                   | 100     |
| 9  |  Sweden       | 367       | 349               | 1.125     | 198            | 3,07                   | 97      |
| 10 |  Australia    | 659       | 587               | 1.959     | 424            | 2,97                   | 90      |

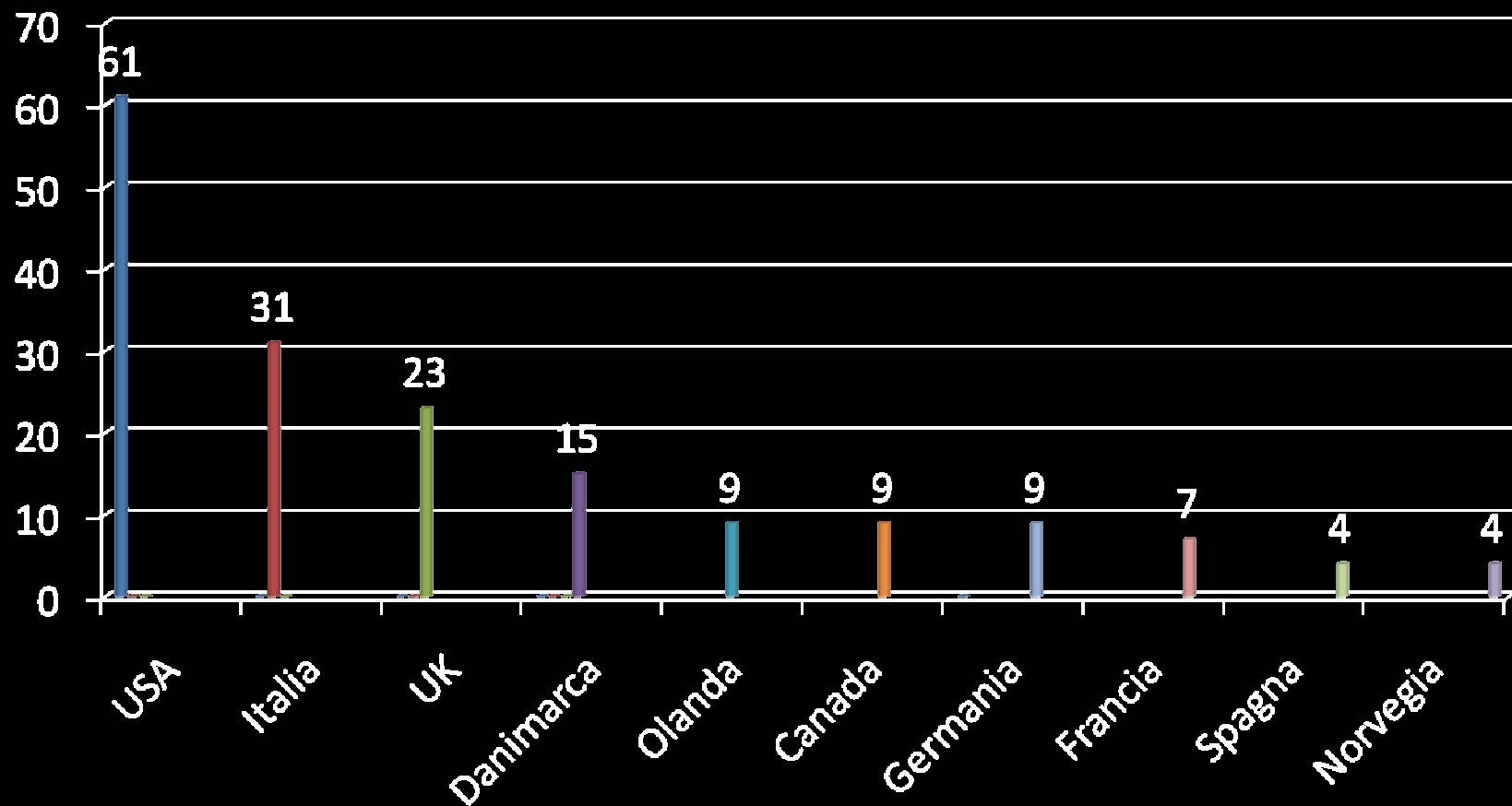
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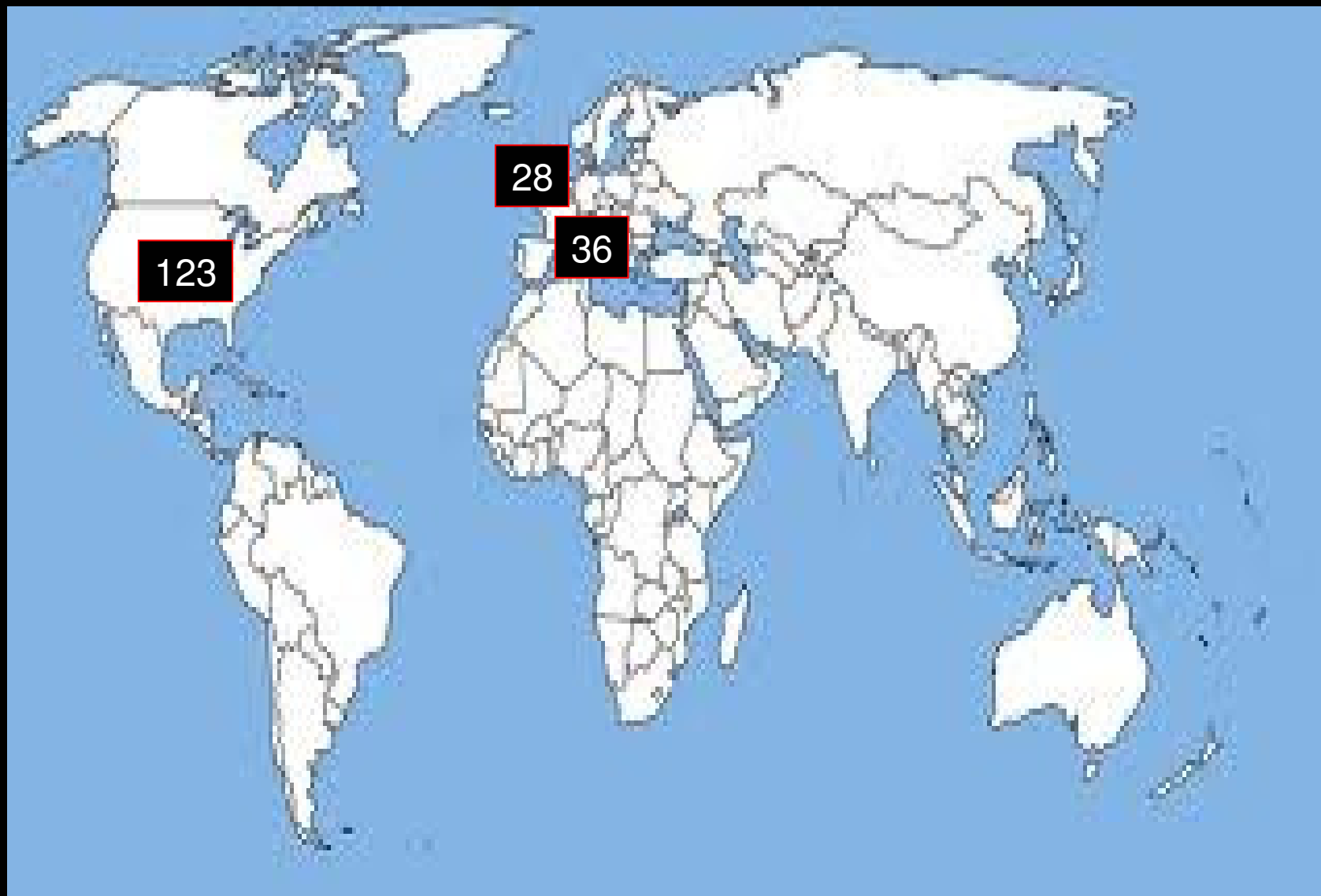
## NUMERO DI PUBBLICAZIONI PER “EMICRANIA” (MESH) 1995: COUNTRY RANKINGS



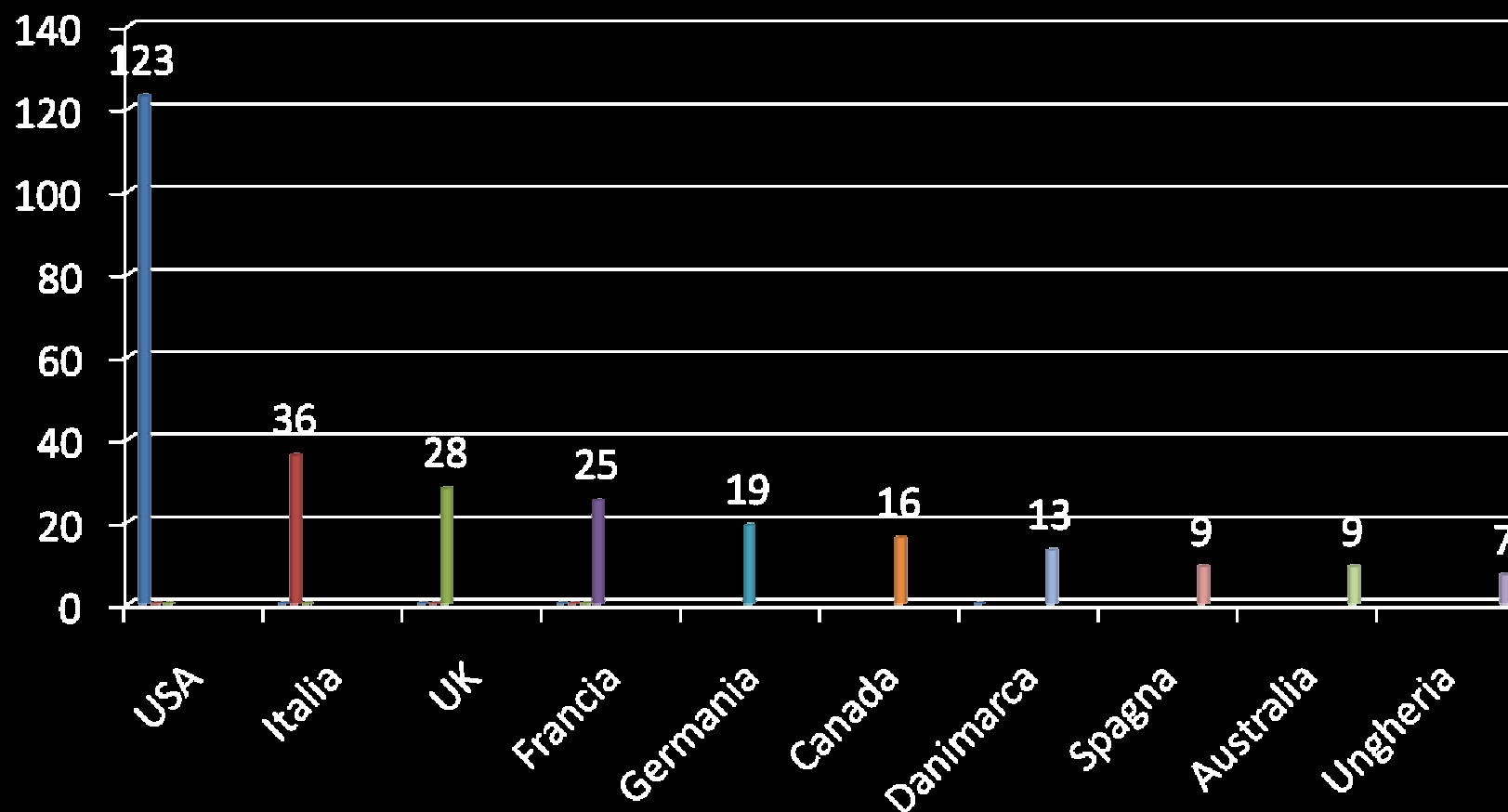
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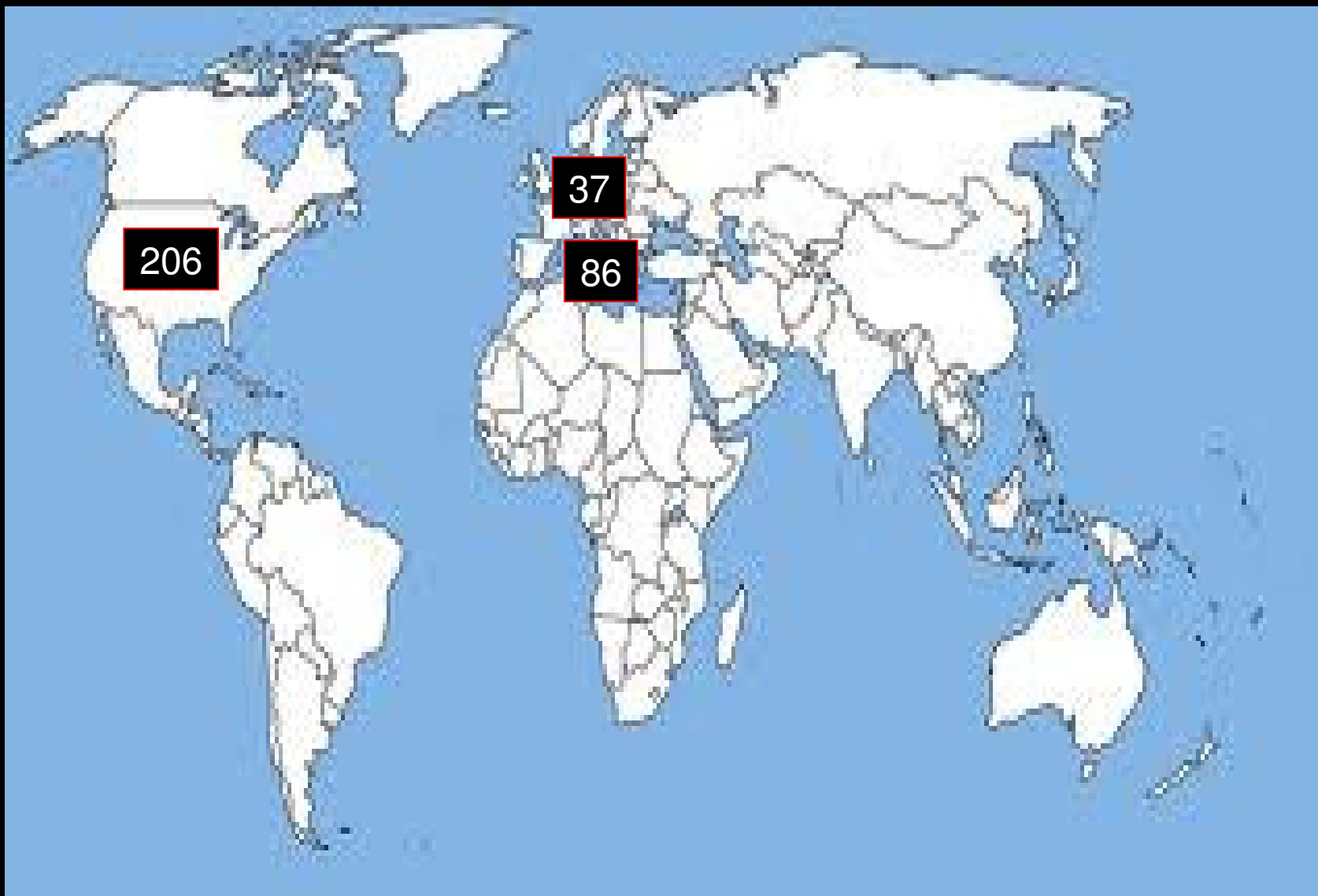
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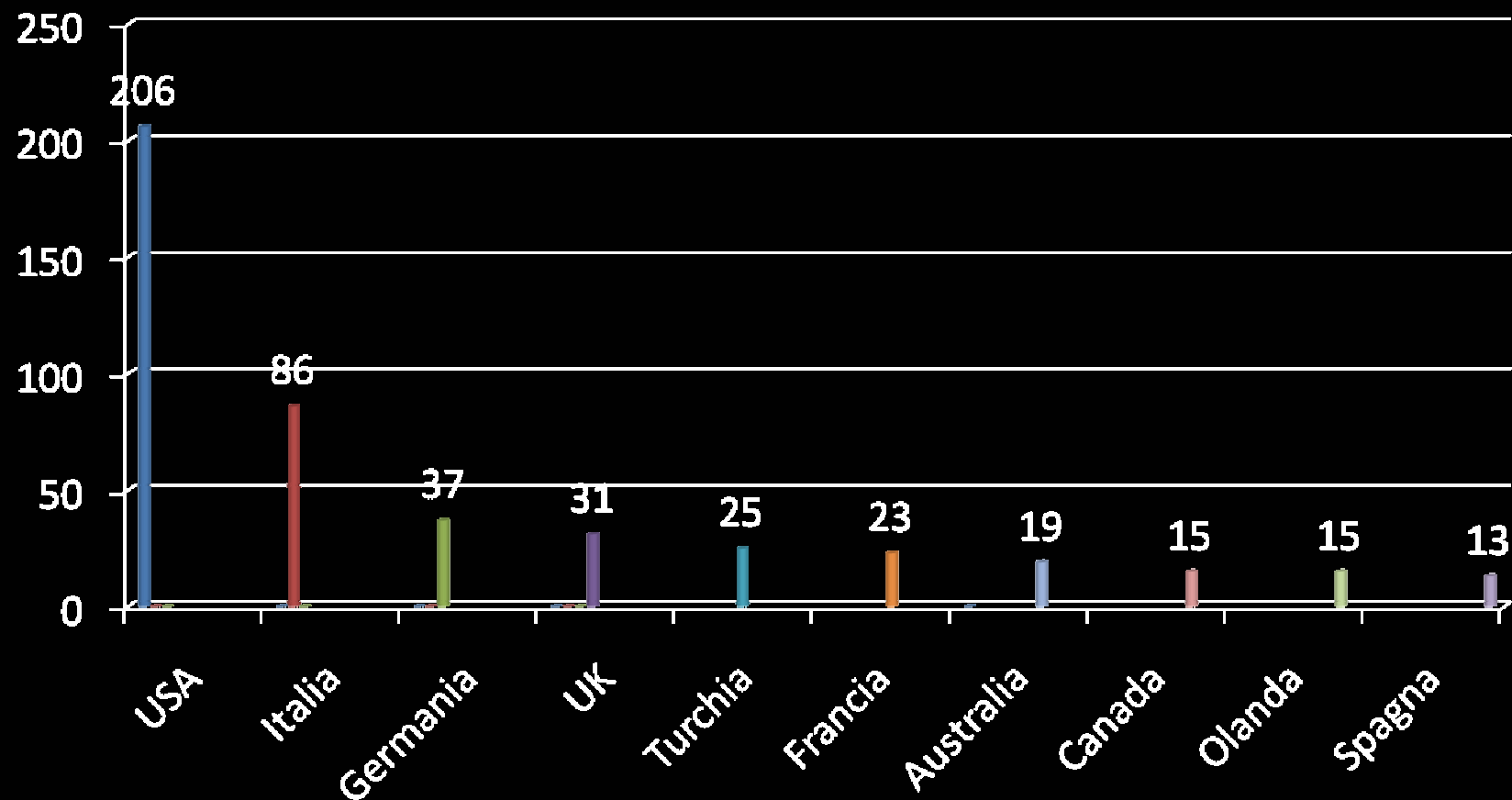
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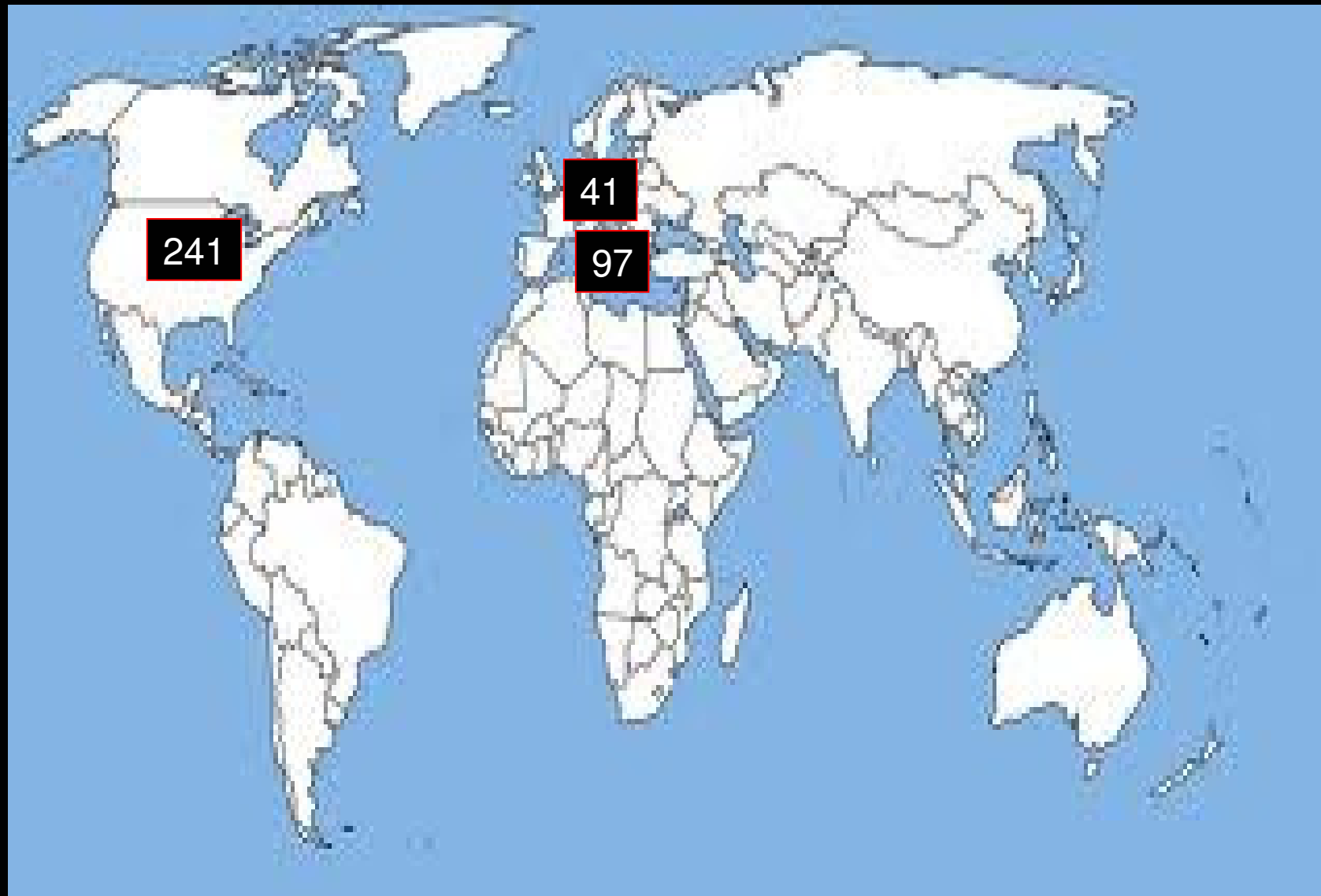
## NUMERO DI PUBBLICAZIONI PER “EMICRANIA” (MESH) 2005: COUNTRY RANKINGS



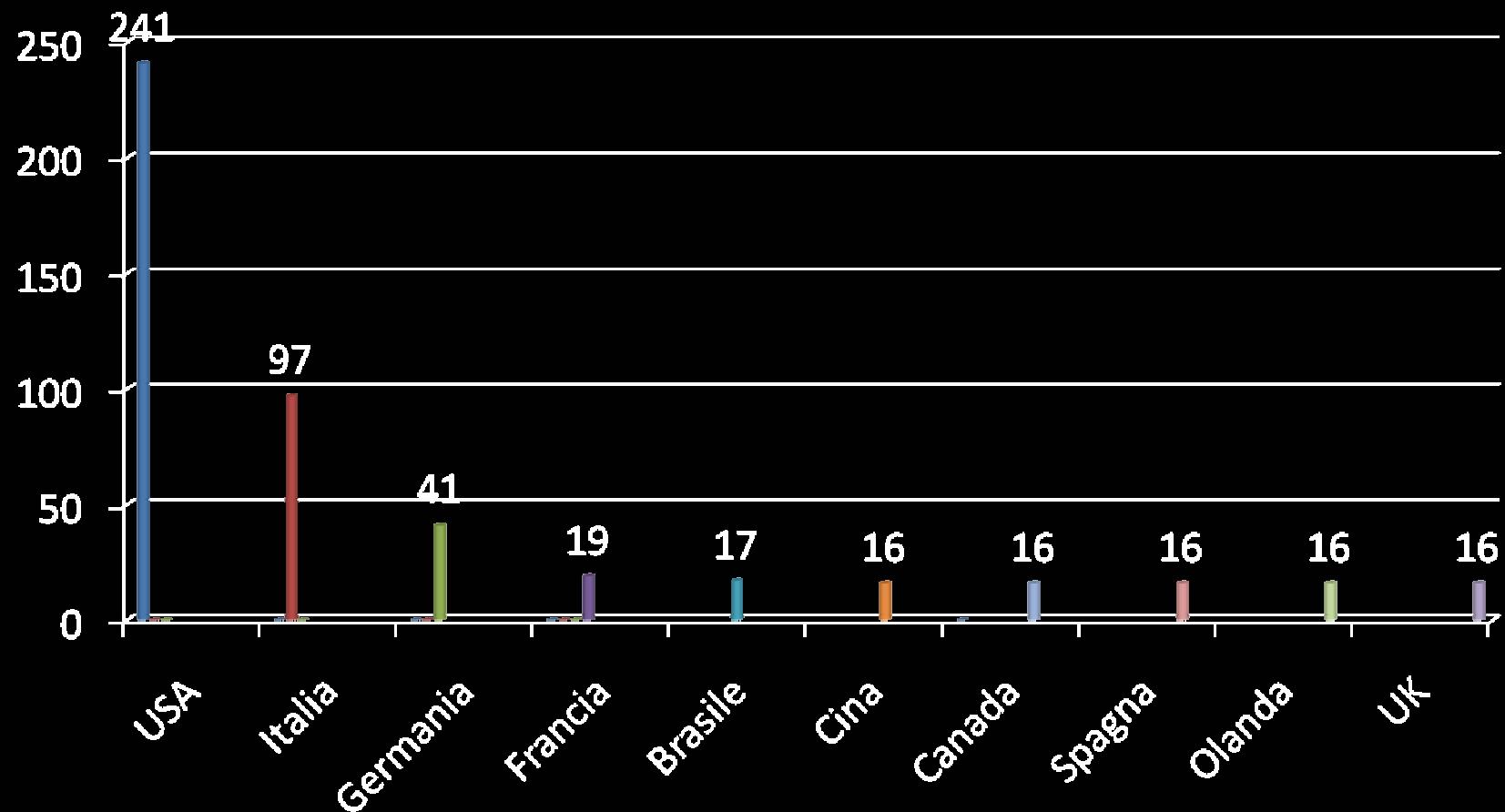
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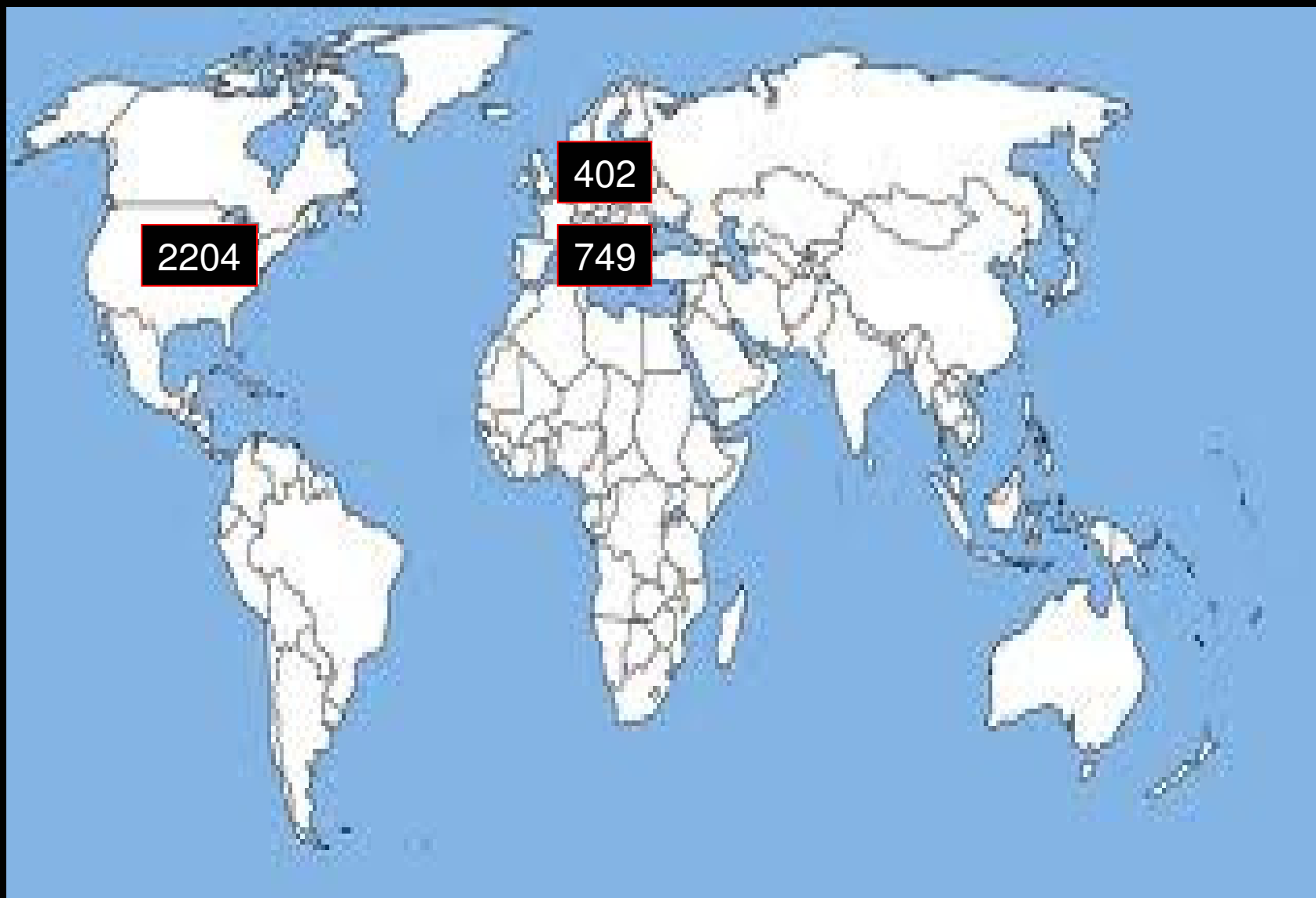
## NUMERO DI PUBBLICAZIONI PER “EMICRANIA” (MESH) 2009: COUNTRY RANKINGS



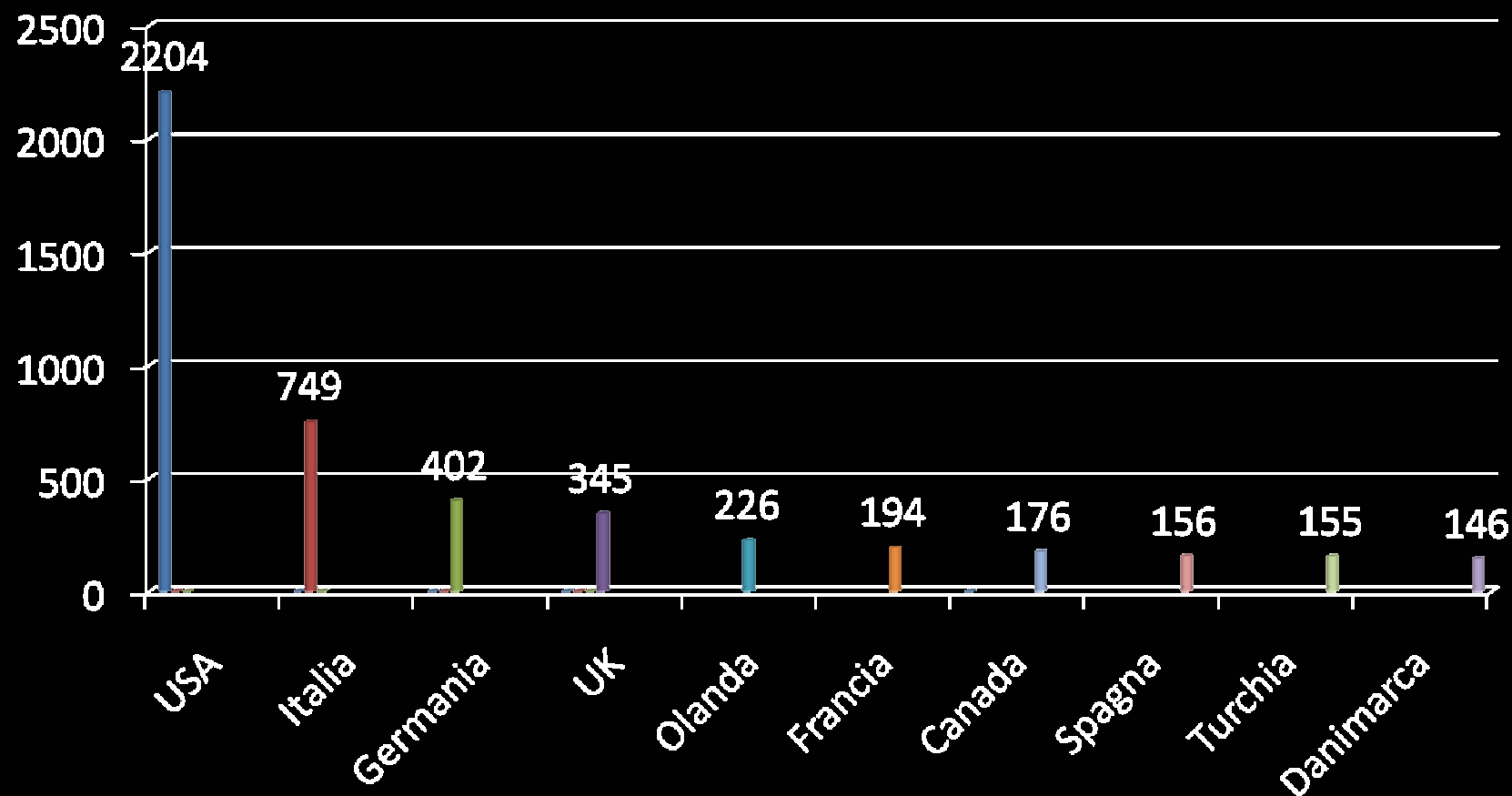
## NUMERO DI PUBBLICAZIONI PER “EMICRANIA” (MESH) 2009: COUNTRY RANKINGS



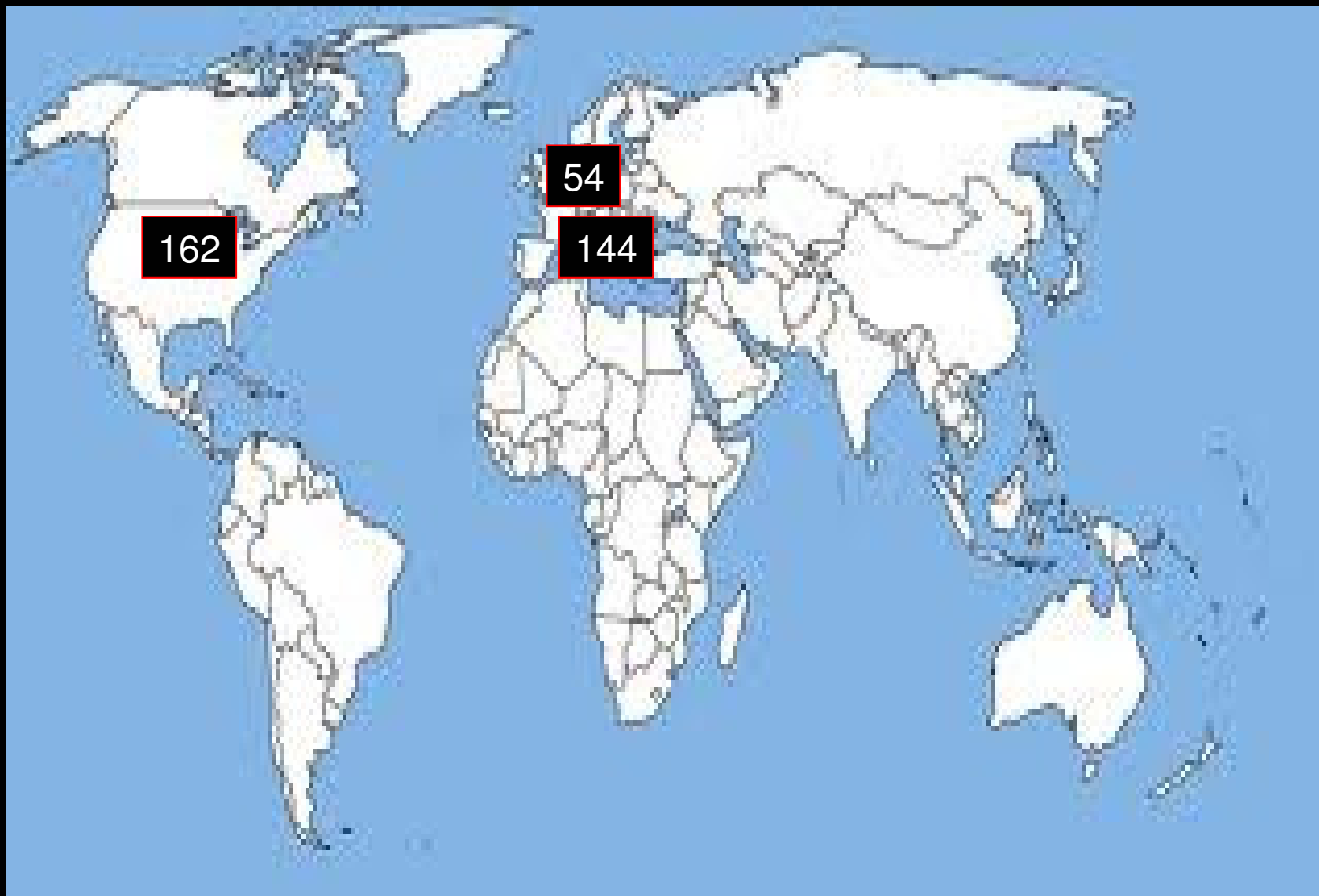
## NUMERO DI PUBBLICAZIONI PER “EMICRANIA” (MESH) 1995-2009: COUNTRY RANKINGS



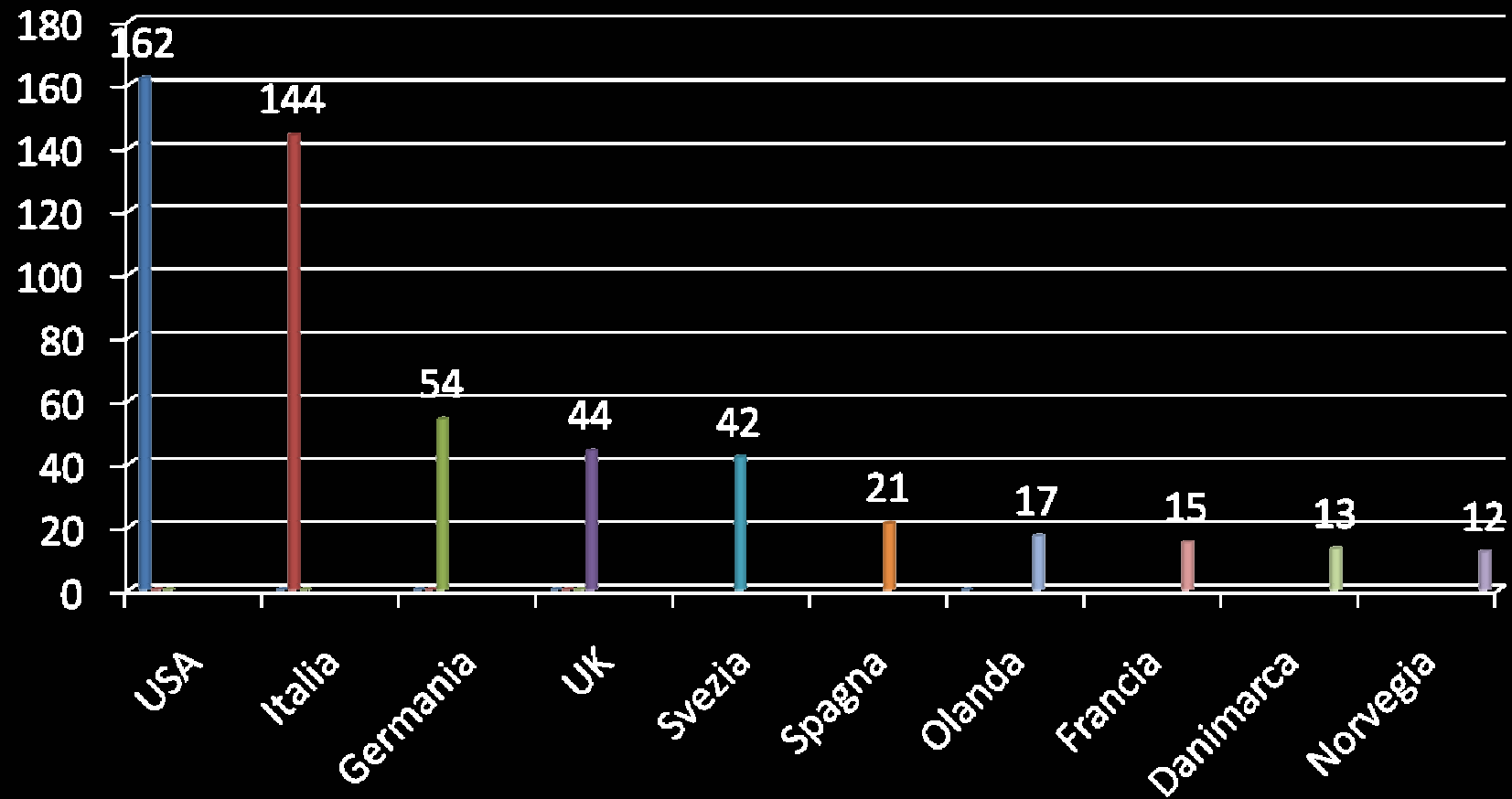
## NUMERO DI PUBBLICAZIONI PER “EMICRANIA” (MESH) 1995-2009: COUNTRY RANKINGS



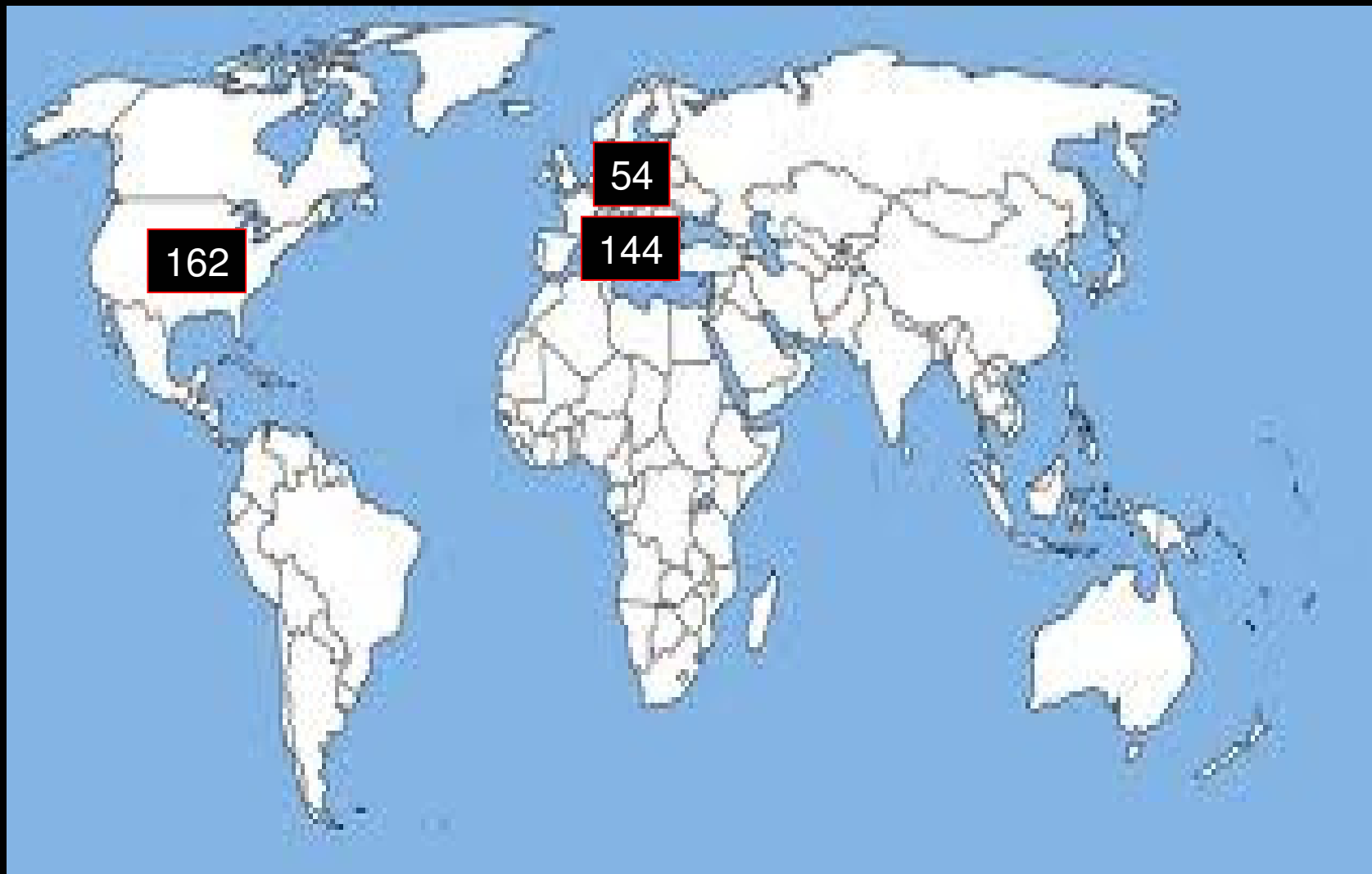
## NUMERO DI PUBBLICAZIONI PER “CEFALEA A GRAPPOLO” (MESH) 1995-2009: COUNTRY RANKINGS



## NUMERO DI PUBBLICAZIONI PER “CEFALEA A GRAPPOLO” (MESH) 1995-2009: COUNTRY RANKINGS



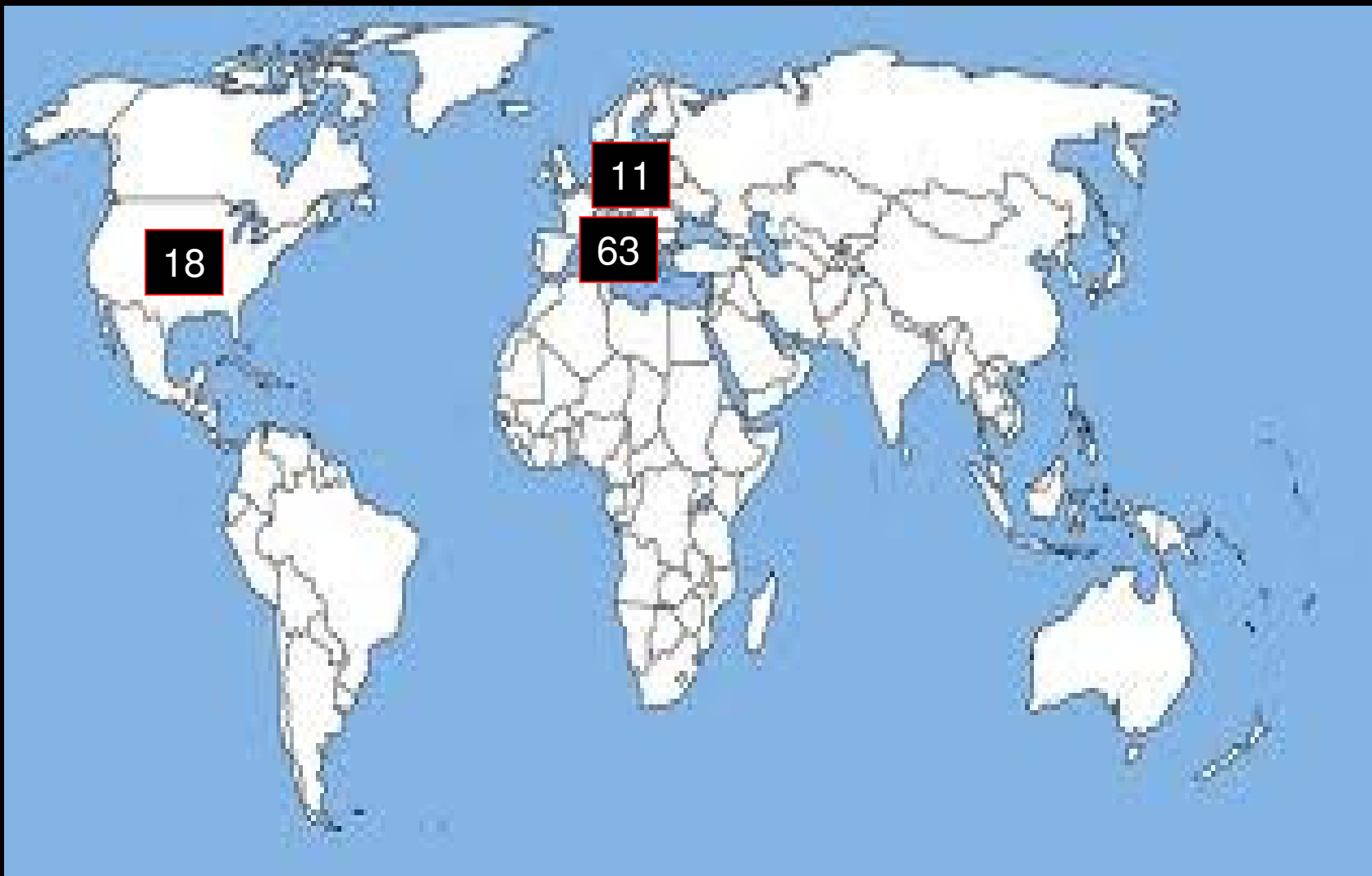
# NUMERO DI PUBBLICAZIONI PER “EMICRANIA” (MESH) 1995-2009 SULLA RIVISTA “CEPHALALGIA”: COUNTRY RANKINGS



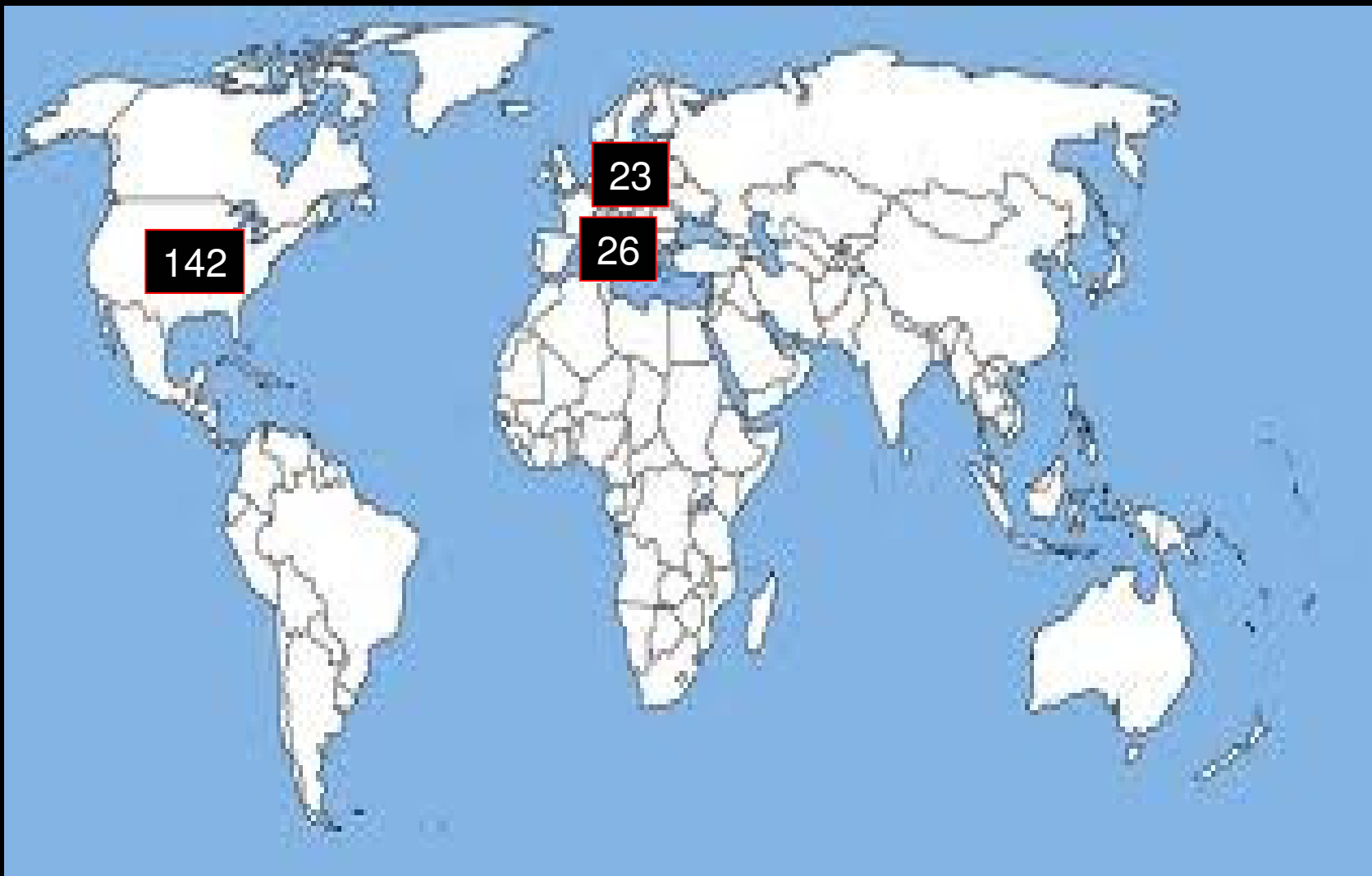
# NUMERO DI PUBBLICAZIONI PER “EMICRANIA” (MESH) 1995-2009 SULLA RIVISTA “HEADACHE”: COUNTRY RANKINGS



NUMERO DI PUBBLICAZIONI PER “EMICRANIA” (MESH) 2005-  
2009 SULLA RIVISTA “JOURNAL OF HEADACHE AND PAIN”:  
COUNTRY RANKINGS



# NUMERO DI PUBBLICAZIONI PER “EMICRANIA” (MESH) 1995-2009 SULLA RIVISTA “NEUROLOGY”: COUNTRY RANKINGS



|      | Per year | Rank | Authors                        | Title ▲                   |
|------|----------|------|--------------------------------|---------------------------|
| 1136 | 59.79    | 1    | WF Stewart, RB Lipton, DD ...  | Prevalence of migraine    |
| 779  | 0.00     | 2    | C Weiller, A May, V Limmroth   | Brain stem activation i   |
| 1389 | 92.60    | 3    | RA Ophoff, GM Terwindt, M...   | Familial hemiplegic mig   |
| 305  | 16.94    | 4    | A Joutel, MG Bousser, V Bio... | A gene for familial hen   |
| 1020 | 102.00   | 5    | RB Lipton, WF Stewart, S Di... | Prevalence and burde      |
| 744  | 25.66    | 6    | N Geschwind, P Behan           | Left-handedness: Ass      |
| 805  | 16.43    | 7    | BS Bille                       | ... and short-term prog ▼ |

| Cites                               | Per year | Rank  | Authors                             | Title            |
|-------------------------------------|----------|-------|-------------------------------------|------------------|
| <input checked="" type="checkbox"/> | 266      | 14.00 | 26 W Pryse-Phillips, H Findlay, ... | A Canadian pop   |
| <input checked="" type="checkbox"/> | 535      | 17.83 | 27 J Olesen, B Larsen, M Laurit...  | Focal hyperemia  |
| <input checked="" type="checkbox"/> | 335      | 13.96 | 28 NT Mathew, U Reuveni, F P...     | Transformed or   |
| <input checked="" type="checkbox"/> | 195      | 13.00 | 29 A Carolei, C Marini, G DE MA...  | History of migra |
| <input checked="" type="checkbox"/> | 188      | 3.55  | 30 PM Milner                        | Note on a possil |
| <input checked="" type="checkbox"/> | 212      | 11.16 | 31 RB Lipton, WF Stewart, DO ...    | Undiagnosed mi   |
| <input checked="" type="checkbox"/> | 251      | 14.76 | 32 WF Stewart, A Shechter, RB...    | Migraine hetero  |

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Grazie per l'attenzione