

Nuclear Data Sheets Citation Parameters

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Commonly used Citation Parameters

Source of Citation Parameters

Nuclear Physics Journals

Nuclear Data Sheets

- Who reads it
- How it is cited

Citation Parameters

Impact Factor (y) = $[NC(y, y-1) + NC(y, y-2)] / [NA(y-1) + NA(y-2)]$

$NC(y, y-n)$: Number of Citations in the year y for articles published in the year $y-n$

$NA(y)$: Number of articles published in the year y

Immediacy Index(y) = $NC(y, y) / NA(y)$



Citation Parameters

Example:

A= number of 2002 citations for 2001 articles

B= number of 2002 citations for 2000 articles

C= number of 2001 articles

D= number of 2000 articles

$$\text{IF}(2002) = (A+B)/(C+D)$$

E= number of 2002 citations for 2002 articles

F= number of 2002 articles

$$\text{II}(2002) = E/F$$



Source of Citation Parameters

Institute for Scientific Information (ISI)

Tracks journals, producing a number of related databases

Citation parameters for journals

Journal Citation Reports (JCR)

Number of Citations for a given article

Web of Science (WoS)

Problem: NDS not included in Journal Citation Reports

Solution: Use WoS to track every NDS article to obtain citation parameters

Cumbersome, Reliable?

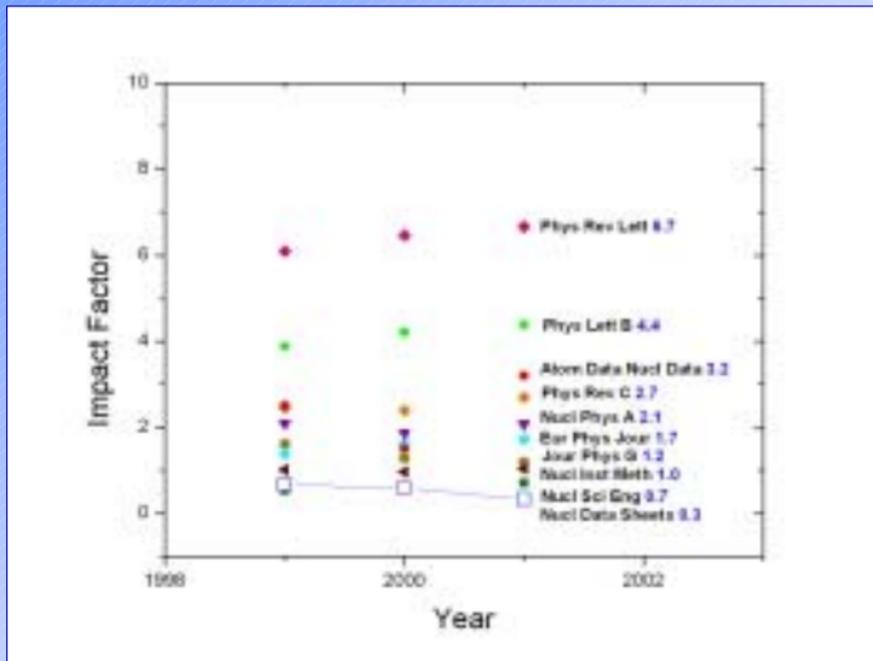


2001 Journals Citation Parameters

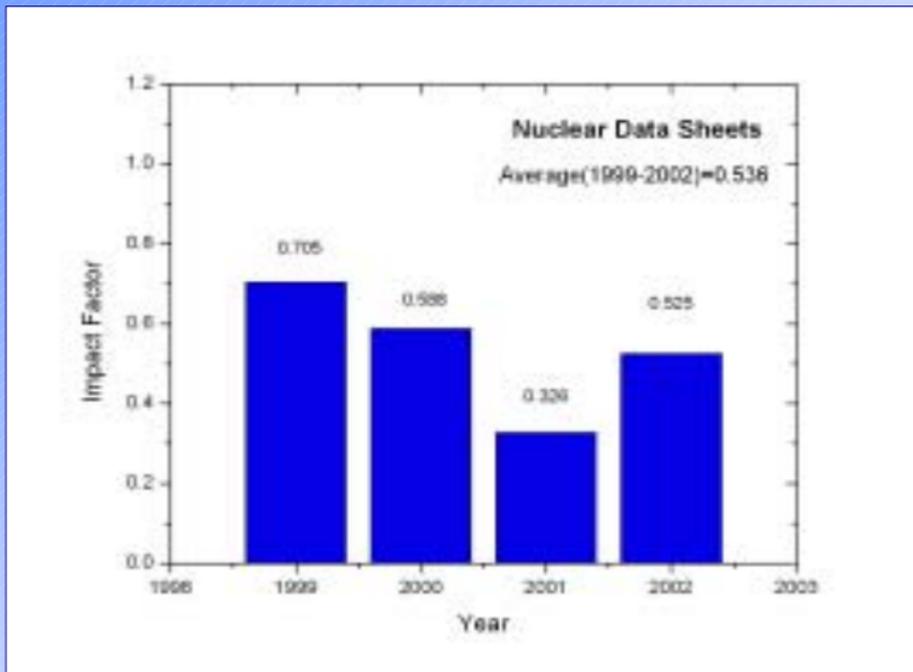
Journal	Total Articles	Total Citations	Impact Factor	Immediacy Index
Nature	939	315640	27.955	7.734
PRL	2995	187316	6.668	1.513
ADNDT	21	2481	3.194	0.810
PRC	797	20049	2.695	0.609
NPA	1151	16426	2.074	0.301
EPJ A	132	982	1.725	0.258
NDS	22	287	0.326	0.000



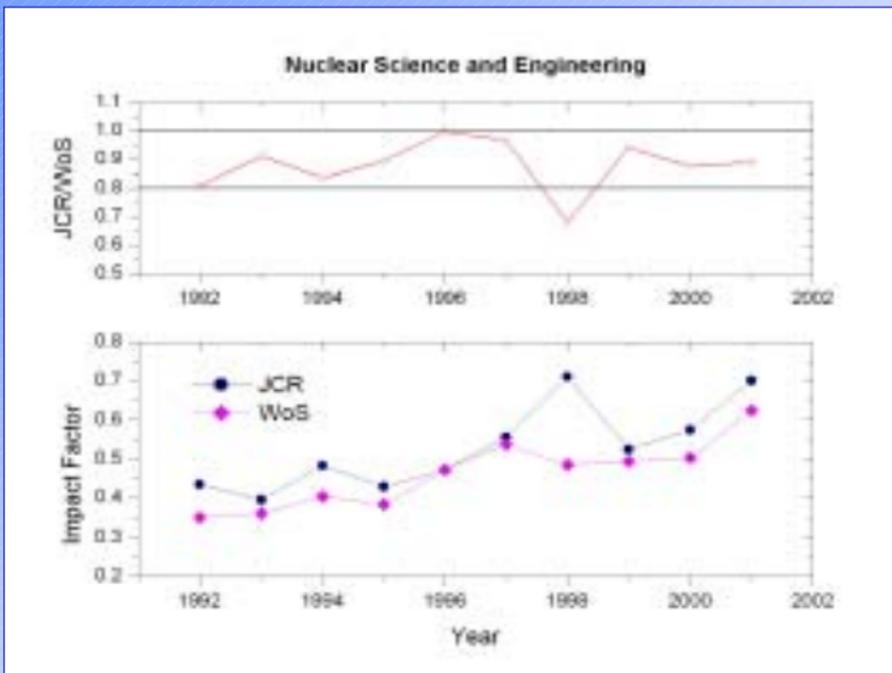
Impact Factors



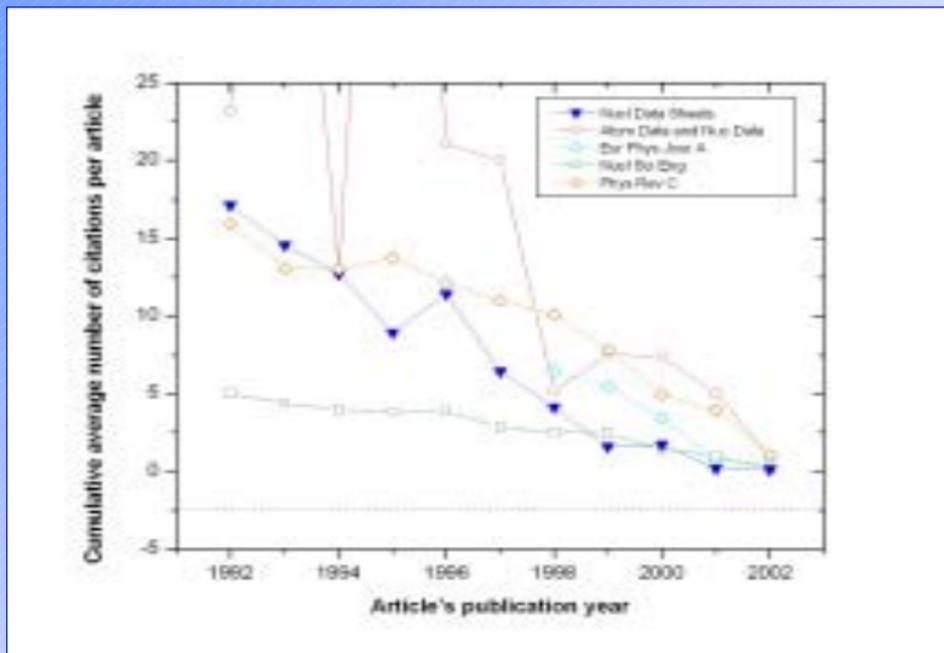
Nuclear Data Sheets Impact Factor



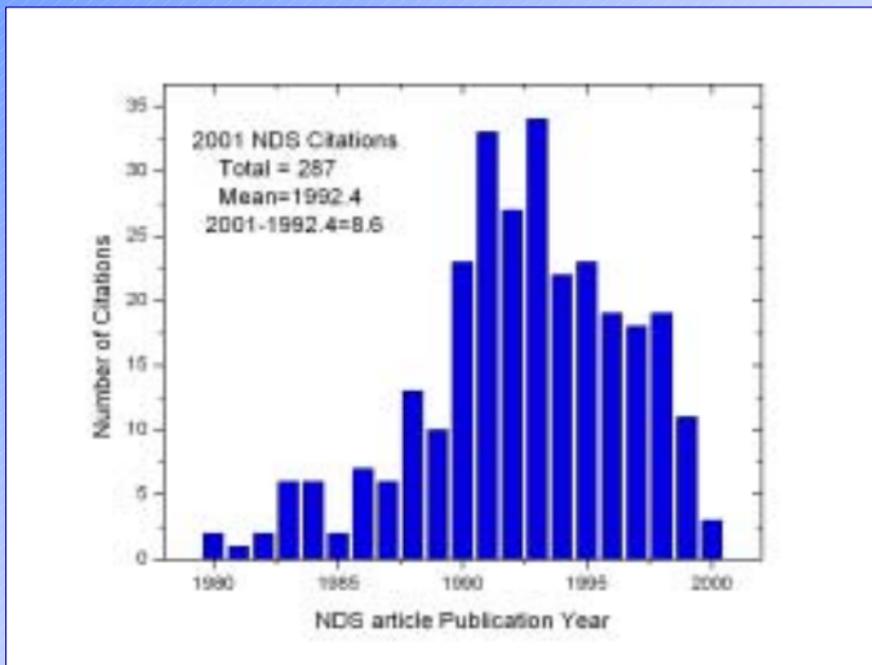
Method validation



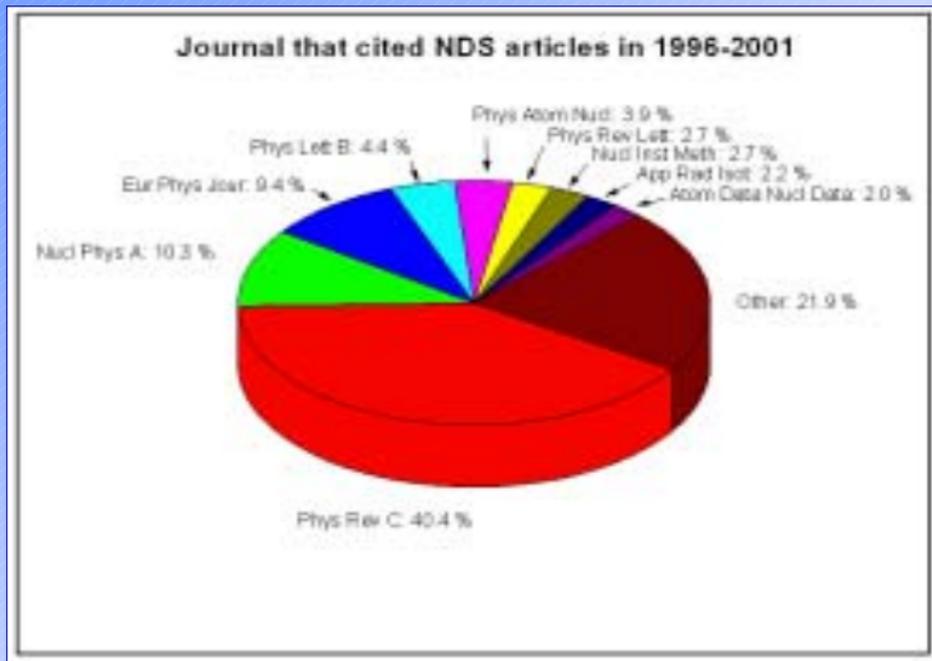
Cumulative Number of Citations



Time Distribution of NDS cited articles



Distributions of Journals citing NDS



Conclusions

- NDS can be characterized as having a modest Impact Factor, but a strong cumulative number of citations per paper.
- For the past 4 years, the average NDS Impact Factor is equal to 0.536 and the Immediacy Index is equal to 0.
- Inclusion of NDS in the ISI list of journals will greatly facilitate the comparison with other journals.
- It may be useful to produce this kind of report once a year, perhaps a few weeks before the USNDP meeting.

