**Nuclear Data Section**

**International Atomic Energy Agency**

**P.O.Box 100, A-1400 Vienna, Austria**

**Memo CP-D/1124**

**Date:** 10 January 2025

**To:** Distribution

**From:** N. Otsuka

**Subject: Automatic identification of DOI for primary references by REFDOI**

I processed all primary references taken from journals in the EXFOR Master File Ver. 2024 (EXFOR-2024) by REFDOI. The tool could identify a DOI for **82%** of all primary references. Table 1 summarizes the fractions of successful and unsuccessful cases (18%). I categorized the unsuccessful cases to the following four cases:

ISSN not in CrossRef (**14%** of primary references in EXFOR-2024)

The publishers do not deposit information of the article to CrossRef. For example, only issues published in 2013 or later are registered in CrossRef for **YF**.

Non-integer volume (**1%** of primary references in EXFOR-2024)

This is mainly due to absence of any volume number and typical for journals from former USSR countries.

*Example:* J,YK,,(3-4),41,1994 in EXFOR 32234

Such journals are anyway not registered in CrossRef. (i.e., ISSN not in Dict. 44).

Paper # exists (**1%** of primary references in EXFOR-2024)

This is mainly for **BAP**, which usually compiles abstracts of several theses in one page. A similar case is collection of abstracts from an AIP meeting in **PR**.

*Example*: J,PR,77,748(H11),5003 in EXFOR 11035

Other reasons (**1%** of primary references in EXFOR-2024)

This is typically for **PR** articles coded without a paper number required (i.e., two regular articles start on the same page). This is a compilation mistake, and the paper number must be added to the reference code.

*Example*: J,PR,81,139,51 in EXFOR 11041. **139 must be 139(1).**

Table 1 shows that the low probability to find DOI in area 3, 4, A, F, G, M and S are mainly due to absence of ISSNs of their main journals in Dictionary 44. (i.e., the publishers do not deposit their bibliographies to CrossRef.). See Memo CP-D/1120 about this dictionary.

Table 2 summaries typical journals for which the tool could not find a DOI. As expected, journals not in CrossRef are typically published in other than English (e.g., Russian, Chinese), and journals without integer volumes (e.g., no volume numbering) are typically from former USSR countries.

The cases belonging to the last category (Other reasons) could be due to a compilation mistake, and I looked into all 254 cases to understand the actual reasons. Mismatch of the issue numbers coded in EXFOR and registered in CrossRef is a major factor to disturb DOI identification. In many cases, we can avoid this trouble by omitting the issue number in the reference code, and **I would recommend again omission of the issue number in a journal reference code when it is not required to identify the article.**

Table 1. Fractions of the journal references which DOIs are found and not found in CrossRef.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Area | Total (articles) | DOI found (%) | DOI not found | | | |
| ISSN not in CrossRef  (%) | Non-integer volume (%) | Paper # exists (%) | Other reasons (%) |
| 1 | 3500 | 89 | 3 |  | 7 | 1 |
| 2 | 2577 | 88 | 9 |  |  | 2 |
| 3 | 1801 | **69** | **29** |  |  | 1 |
| 4 | 1090 | **24** | **70** | 6 |  |  |
| A | 1151 | **71** | **24** | 1 | 1 | 2 |
| B | 176 | 98 | 2 |  |  | 1 |
| C | 2751 | 97 | 1 |  | 1 | 1 |
| D | 2164 | 88 | 9 | 1 |  | 1 |
| E | 1301 | 97 | 1 |  |  | 2 |
| F | 1416 | **66** | **32** | 1 |  | 1 |
| G | 256 | **69** | **23** | 8 |  |  |
| J | 23 | 100 |  |  |  |  |
| K | 89 | 97 | 2 |  |  | 1 |
| L | 258 | 95 | 3 |  | 2 |  |
| M | 993 | 60 | **38** | 1 |  | 1 |
| O | 2321 | 94 | 6 |  |  |  |
| P | 144 | 94 | 5 |  |  | 1 |
| R | 52 | 98 |  |  |  | 2 |
| S | 201 | **56** | **44** |  |  |  |
| T | 277 | 98 | 1 |  | 1 |  |
| V | 13 | 85 | 15 |  |  |  |
| Total | 22554 | 82 | 14 | 1 | 1 | 1 |

Table. Typical journals which DOIs are not found in CrossRef

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | ISSN not in CrossRef  (%) | | Non-integer volume (%) | | Paper # exists (%) | | Other reasons (%) | |
| 1 | YF | 17 | YK | 37 | BAP | 63 | PR | 20 |
| 2 | IZV | 11 | VAT/I | 18 | PR | 29 | NP | 9 |
| 3 | AE | 9 | IZK | 11 | NAT | 1 | NP/A | 8 |
| 4 | ZET | 6 | KSF | 5 | PR/C | 1 | RCA | 7 |
| 5 | SNP | 5 | AE/S | 5 | JNE | 1 | PR/C | 5 |
| 6 | CNP | 5 | VAT/O | 3 | ACR | 1 | NC/A | 4 |
| 7 | BAS | 3 | VAT/Y | 3 | ACR/A | 0 | ADP | 4 |
| 8 | PHE | 3 | KSO | 3 | JAP | 0 | YF | 4 |
| 9 | JET | 2 | ZNJD | 3 | JNE/A | 0 | EPJ/A | 4 |
| 10 | UFZ | 2 | IZU | 2 | SJA | 0 | JPR/C | 3 |

**Distribution:**

[nrdc.memo-distribution@iaea.org](mailto:nrdc.memo-distribution@iaea.org)

**Appendix: Details of the other cases (254 reference codes).**

FB means the item is registered in the Feedback List for corrections by the originating centre.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Subent#** | **REFERENCE** | **FB** | **Comment to centres** | **Comment not to centres** | **Action taken by me** |
| 11041.001 | J,PR,81,139,51 | x | Add paper# (1). |  |  |
| 11057.001 | J,PR,88,686,5211 | x | Add paper# (1). |  |  |
| 11156.001 | J,CJR/A,25,73,194703 |  |  | volume#=25a in CrossRef |  |
| 11157.001 | J,CJR/A,25,134,47 |  |  | volume#=25a in CrossRef |  |
| 11158.001 | J,CJR/A,25,261,1947 |  |  | volume#=25a in CrossRef |  |
| 11247.001 | J,PR,71,269,47 | x | Add paper# (1). |  |  |
| 11437.001 | J,CJR/A,25,77,47 |  |  | volume#=25a in CrossRef |  |
| 11473.001 | J,PR,83,479,51 | x | Add paper# (1). |  |  |
| 11577.001 | J,PR,90,1121,5306 | x | Add paper# (1). |  |  |
| 11582.001 | J,PR,76,308,4907 | x | Add paper# (1). |  |  |
| 11649.001 | J,PR,89,1307,5303 | x | Add paper# (1). |  |  |
| 11744.001 | J,PR,83,1059,51 | x | Add paper# (1). |  |  |
| 11756.001 | J,PR,70,557,4610 | x | Add paper# (1). |  |  |
| 11803.001 | J,PR,100,429,55 | x | Add paper# (2). |  |  |
| 11860.001 | J,PR,99,330,5507 | x | Add paper# (1). |  |  |
| 12067.001 | J,PR,76,300,4907 | x | Add paper# (1). |  |  |
| 12201.001 | J,PR,82,276,51 | x | Add paper# (1). |  |  |
| 12205.001 | J,PR,92,835,195311 | x | Add paper# (2). |  |  |
| 12238.001 | J,PR,90,1121,5306 | x | Add paper# (2). |  |  |
| 12284.001 | J,HP,13,654,6706 |  |  | Landing page absent (i.e., no DOI) |  |
| 12301.001 | J,NSE,1,1,5603 |  |  | Another content (Preface is also with page#=1 (wrong) in CrossRef |  |
| 12387.001 | J,PR,89,320,5301 | x | Add paper# (1). |  |  |
| 12492.001 | J,PR,72,88,4707 | x | Add paper# (1). |  |  |
| 12538.001 | J,PR,93,1433,5403 | x | Add paper# (1). |  |  |
| 12583.001 | J,PR,85,135,1952 | x | Add paper# (2). |  |  |
| 12584.001 | J,PR,94,735,54 | x | Add paper# (1). |  |  |
| 12626.001 | J,PR,72,986,4711 | x | Add paper# (2). |  |  |
| 12648.001 | J,PR,57,936,4005 | x | Add paper# (2). |  |  |
| 12650.001 | J,PR,50,490,36 | x | Add paper# (2). |  |  |
| 12652.001 | J,PR,55,106,1939 | x | Add paper# (2). |  |  |
| 12894.001 | J,JNM,122-123,1071,198405 |  |  | vol=#123 (wrong) in CrossRef | Informed to Science Direct |
| 13022.001 | J,NP,9,273,1959 |  | ? | year=#1958 in CrossRef, 1958-1959 in a hard copy |  |
| 13028.001 | J,PR,89,1306,5303 | x | Add paper# (1). |  |  |
| 13053.001 | J,CJR/B,25,364,1947 |  |  | volume#=25b in CrossRef |  |
| 13055.001 | J,CJR/B,27,757,49 |  |  | volume#=27b in CrossRef |  |
| 13081.001 | J,PR,137,(4),B837,1965 |  | Delete issue#. | issue#=4B in CrossRef |  |
| 13457.001 | J,PR,76,1717,4912 | x | Add paper# (2). |  |  |
| 13565.001 | J,PR,80,908,195012 | x | Add paper# (1). |  |  |
| 13571.001 | J,PR,89,877,5302 | x | Add paper# (1). |  |  |
| 13573.001 | J,PR,77,840,5003 | x | Add paper# (1). |  |  |
| 13574.001 | J,PR,82,558,5105 | x | Add paper# (1). |  |  |
| 13580.001 | J,JAP,30,1323,195909 |  |  | Another content (Editorial) is also with page#=1 in CrossRef |  |
| 13791.001 | J,PR,77,291,195001 | x | Add paper# (2). |  |  |
| 13803.001 | J,PR/C,63,014004,200101 |  |  | year=2000 in CrossRef |  |
| 13957.001 | J,PR/C,63,014606,2001 |  |  | year=2000 in CrossRef |  |
| 14275.001 | J,PR,73,262,1948 | x | Add paper# (2). |  |  |
| 14300.001 | J,NT,25,305,1974 | x | year=1974 -> 1975 |  |  |
| 14628.001 | J,CJR/B,25,371,1947 |  |  | volume#=25b in CrossRef |  |
| 14780.001 | J,PR,87,(Q3),215,1952 | x | 87,(Q3),215 -> 87,215(Q3) |  |  |
| 20154.001 | J,NP/A,159,49,1970 |  |  | Two DOIs exist (10.1016/0375-9474(70)90027-8 and 10.1016/0375-9474(70)90660-3) |  |
| 20205.001 | J,NP,9,569,5901 |  | ? | year=#1958 in CrossRef, 1958-1959 in a hard copy |  |
| 20260.001 | J,ZN/A,26,1928,7211 | x | year=7211 -> 1971 |  |  |
| 20293.001 | J,JPJ,22,368,6102 | x | year=6102 -> 1967 |  |  |
| 20305.001 | J,NP/A,160,161,197001 | x | year=197001 -> 1971 |  |  |
| 20312.001 | J,NST,6,485,6909 |  |  | Another content (Introducing the …) is also with page#=485 (wrong) in CrossRef | Informed to NST office |
| 20319.001 | J,PR,80,469,5011 | x | Add paper# (1). |  |  |
| 20320.001 | J,PR,80,750,5011 | x | Add paper# (1). |  |  |
| 20420.001 | J,NST,12,1,7501 |  |  | Table of contents is also with page#=1 in CrossRef | Informed to NST office |
| 20481.001 | J,JPR/C,31,C2-217,1970 |  |  | first author="Adam" is additionally required to find the DOI in CrossRef |  |
| 20714.001 | J,NP/A,267,(1),157,1976 |  | Delete issue#. | issue# is absent in CrossRef |  |
| 20923.001 | J,JPR/C,27,C1-88,196601 |  |  | first author="Huck" is addtionally required to find the DOI in CrossRef |  |
| 20932.001 | J,ADP,15,287,6506 |  |  | volume#=470 in CrossRef |  |
| 21079.001 | J,JPR/C,27,C1-102,196601 |  |  | first author="Chambon" is additionally required to find the DOI in CrossRef |  |
| 21091.001 | J,ADP,7,50,6101 |  |  | volume#=462 in CrossRef |  |
| 21116.001 | J,NP,1,420,1956 |  |  | Two DOI exist (10.1016/S0029-5582(56)80058-8 and 10.1016/0029-5582(56)90104-3) | Informed to CrossRef |
| 21166.001 | J,NP/A,111,255,6804 |  |  | Two DOI exist (10.1016/0375-9474(68)90121-8 and 10.1016/S0375-9474(68)91200-1) | Informed to CrossRef |
| 21168.001 | J,NC,8,383,5103 |  |  | year=2008 (wrong) in CrossRef | Informed to CrossRef |
| 21207.001 | J,JNE/A,11,34,195911 | x | Add paper# (1). |  |  |
| 21256.001 | J,NSE,27,85,6601 | x | year=6601 -> 1967 |  |  |
| 21311.001 | J,NP/A,318,1,54,7904 | x | Delete issue# (format error) |  |  |
| 21380.001 | J,PR,77,286,195001 | x | Add paper# (2). |  |  |
| 21381.001 | J,PR,82,969,195106 | x | Add paper# (1). |  |  |
| 21384.001 | J,PR,90,1125,53 | x | Add paper# (1). |  |  |
| 21414.001 | J,JPR,12,6S,195101 |  | ? |  |  |
| 21415.001 | J,JPR,13,171,5203 | x | Add paper# (1). |  |  |
| 21511.001 | J,PR,75,1276,4903 | x | Add paper# (1). |  |  |
| 21580.001 | J,NP/A,329,1,141,791008 | x | Delete issue# (format error) |  |  |
| 21596.001 | J,RCA,23,170,77 | x | year=77 -> 1976 (typo in the article copy) | |  |
| 21610.001 | J,ZK,149,337,79 |  |  | Two DOI exist (10.1524/zkri.1979.149.14.337 and 10.1524/zkri.1979.149.3-4.337) | Informed to CrossRef |
| 21716.001 | J,JIN,35,389,72 | x | year=72->1973 |  |  |
| 21718.001 | J,RCA,19,(3),102,72 | x | year=72->1973 |  |  |
| 21772.001 | J,NST,19,341,1982 |  |  | Another content (Categories of …) is also with page#=341 (wrong) in CrossRef | Informed to NST office |
| 21806.001 | J,NP/A,393,(1),1,198301 |  |  | Issue#=1-2 in CrossRef |  |
| 21855.001 | J,NSE,83,229,8202 | x | year=8202->1983 |  |  |
| 21867.001 | J,AEJ,23,(1),62,80 | x | year=80 -> 1981 |  |  |
| 21888.001 | J,NC/A,70,(4),402,8208 |  | Delete issue#. | issue#=3 (wrong) in CrossRef | Informed to Springer Nature |
| 21940.001 | J,ADP,39,(6),408,82 |  |  | volume#=494 in CrossRef |  |
| 22012.001 | J,ADP,42,(3),283,1985 |  |  | volume#=497 in CrossRef |  |
| 22190.001 | J,NP/A,512,189,9006 |  |  | Two DOI exist (10.1016/S0375-9474(05)80001-6 and 10.1016/0375-9474(90)93112-J) | Informed to CrossRef |
| 22466.001 | J,RCA,86,(1),1,1999 | x | Delete incorrect issue#. | Issue#=1-2 in CrossRef |  |
| 22642.001 | J,NST,37,821,2000 |  |  | Interference with J,NSTS,1,821,2000 (registered as J,NST,37,(s1),821,2000 in CrossRef.) |  |
| 22649.001 | J,NST,37,827,2000 |  |  | Interference with J,NSTS,1,827,2000 (registered as J,NST,37,(s1),827,2000 in CrossRef.) |  |
| 22656.001 | J,PR/C,65,014604,2002 |  |  | year=2001 in CrossRef |  |
| 22661.001 | J,ANE,29,(10),2019,200210 | x | Delete incorrect issue#. | Issue#=17 in CrossRef |  |
| 23079.001 | J,KPS,50,(5),1494,2007 |  | Delete issue#. | Issue#=95 in CrossRef |  |
| 23080.001 | J,KPS,50,(5),1592,200705 |  | Delete issue#. | Issue#=95 in CrossRef |  |
| 23156.001 | J,KPS,59,(2),1876,201108 |  | Delete issue#. | Issue#=2(3) in CrossRef |  |
| 23171.001 | J,KPS,59,(2),1378,2011 |  | Delete issue#. | Issue#=2(3) in CrossRef |  |
| 23470.001 | J,RCA,107,33,2019 |  |  | year=2018 in CrossRef |  |
| 23598.001 | J,EPJ/A,7,189,2000 |  |  | Two DOI exist (10.1007/s100500050380 and 10.1007/PL00013598) | Informed to CrossRef |
| 30007.002 | J,NC/A,3,(3),467,197106 |  | Delete issue#. | Issue#=4 (wrong) in CrossRef | Informed to Springer Nature |
| 30007.003 | J,NC/A,3,(3),467,197106 |  | Delete issue#. | Issue#=4 (wrong) in CrossRef | Informed to Springer Nature |
| 30007.004 | J,NC/A,3,(3),467,197106 |  | Delete issue#. | Issue#=4 (wrong) in CrossRef | Informed to Springer Nature |
| 30007.005 | J,NC/A,3,(3),467,197106 |  | Delete issue#. | Issue#=4 (wrong) in CrossRef | Informed to Springer Nature |
| 30007.006 | J,NC/A,3,(3),467,197106 |  | Delete issue#. | Issue#=4 (wrong) in CrossRef | Informed to Springer Nature |
| 30007.007 | J,NC/A,3,(3),467,197106 |  | Delete issue#. | Issue#=4 (wrong) in CrossRef | Informed to Springer Nature |
| 30007.008 | J,NC/A,3,(3),467,197106 |  | Delete issue#. | Issue#=4 (wrong) in CrossRef | Informed to Springer Nature |
| 30007.009 | J,NC/A,3,(3),467,197106 |  | Delete issue#. | Issue#=4 (wrong) in CrossRef | Informed to Springer Nature |
| 30162.001 | J,ADP,16,354,196507 |  |  | volume#=471 in CrossRef |  |
| 30197.001 | J,NP/A,106,401,196801 |  |  | year=1967 (wrong) in CrossRef | Informed to Science Direct |
| 30458.001 | J,RCA,23,(3),127,1976 | x | Delete incorrect issue#. | Issue#=3-4 in CrossRef |  |
| 30705.001 | J,ADP,43,602,1986 |  |  | volume#=498 in CrossRef |  |
| 31003.001 | J,ADP,12,225,1963 |  |  | volume#=467 in CrossRef |  |
| 31276.001 | J,PIA,27,216,1961 |  |  |  |  |
| 31475.001 | J,AUJ,24,671,1971 |  |  | Landing page absent (i.e., no DOI) |  |
| 31660.001 | J,RCA,97,63,2009 |  |  | page# absent in CrossRef | informed to CrossRef |
| 31754.001 | J,ADP,7,413,1963 |  |  | volume#=466 in CrossRef |  |
| 31771.001 | J,ANE,100,(2),42,2017 |  |  | Vol. 100 has part 1 and 2, and both parts start from page 1. |  |
| 31777.001 | J,ZP/A,354,401,1996 |  |  | Two DOIs exist (10.1007/s002180050062 and 10.1007/BF02769543) | Informed to CrossRef |
| 32680.001 | J,RCA,98,127,2010 |  |  | page# absent in CrossRef | informed to CrossRef |
| 33091.001 | J,JRN,303,2497,2015 |  |  | volume# and page# are abesnt in CrossRef | Informed to CrossRef |
| 33141.001 | J,IPA,58,218,2020 |  |  | volume# and page# are abesnt in CrossRef |  |
| 33142.001 | J,IPA,58,228,2020 |  |  | volume# and page# are abesnt in CrossRef |  |
| 33143.001 | J,IPA,58,241,2020 |  |  | volume# and page# are abesnt in CrossRef |  |
| 33164.001 | J,IPA,58,351,2020 |  |  | volume# and page# are abesnt in CrossRef |  |
| 41564.001 | J,YF,76,(11),1398,2013 | x | page#=1398 -> 1479 |  |  |
| A0148.001 | J,RCA,32,173,1983 |  |  | Another content (Instruction to …) is also with page#=173 (wrong) in CrossRef |  |
| A0245.001 | J,EPJ/A,7,303,2000 |  |  | Two DOI exist (10.1007/s100500050396 and 10.1007/PL00013599). | Informed to CrossRef |
| A0263.001 | J,PR/C,63,011302,2001 |  |  | year=2000 in CrossRef |  |
| A0438.001 | J,EPJ/A,7,397,2000 |  |  | Two DOI exist (10.1007/s100500050408 and 10.1007/PL00013623) | Informed to CrossRef |
| A0640.001 | J,ZP/A,355,209,1996 |  |  | Two DOIs exist (10.1007/BF02769686 and 10.1007/s002180050100) | Informed to CrossRef |
| A1007.001 | J,ND/A,11,569,1973 |  |  | Registered with ISSN=0092640X (wrong) in CrossRef |  |
| A1203.001 | J,NP,21,(2),189,196011 |  | Delete issue#. | issue# is absent in CrossRef |  |
| A1269.001 | J,NP,50,(4),629,196401 |  | Delete issue#. | issue# is absent in CrossRef |  |
| A1282.001 | J,NP,39,(4),541,6212 |  | Delete issue#. | issue# is absent in CrossRef |  |
| A1294.001 | J,NP,58,(1),32,1964 |  | Delete issue#. | issue# is absent in CrossRef |  |
| A1298.001 | J,NP,50,(4),621,196401 |  | Delete issue#. | issue# is absent in CrossRef |  |
| A1356.001 | J,NP,42,(4),608,196304 |  | Delete issue#. | issue# is absent in CrossRef |  |
| A1385.001 | J,NP,53,(3),465,196404 |  | Delete issue#. | issue# is absent in CrossRef |  |
| A1386.001 | J,PR,82,(1),100,195104 | x | Add paper# (2). |  |  |
| A1388.001 | J,NP,10,(1),33,195902 |  | Delete issue#. | issue# is absent in CrossRef |  |
| A1389.001 | J,NP,21,(1),1,196011 |  | Delete issue#. | issue# is absent in CrossRef |  |
| A1391.001 | J,NP,44,(4),664,196307 |  | Delete issue#. | issue# is absent in CrossRef |  |
| A1392.001 | J,NP,45,(4),586,196308 |  | Delete issue#. | issue# is absent in CrossRef |  |
| A1430.001 | J,NP,15,(3),411,6003 |  | Delete issue#. | issue# is absent in CrossRef |  |
| A1440.001 | J,NP,48,(2),299,196310 |  | Delete issue#. | issue# is absent in CrossRef |  |
| A1444.001 | J,NP,5,(1),148,195801 |  | Delete issue#. | issue# is absent in CrossRef |  |
| A1473.001 | J,NP,44,(2),205,196306 |  | Delete issue#. | issue# is absent in CrossRef |  |
| A1485.001 | J,NP,46,(3),336,196307 |  | Delete issue#. | issue# is absent in CrossRef |  |
| A1518.001 | J,NP,48,(1),90,196309 |  | Delete issue#. | issue# is absent in CrossRef |  |
| A1520.001 | J,NP,53,(3),375,196404 |  | Delete issue#. | issue# is absent in CrossRef |  |
| A1523.001 | J,NP,15,(3),464,196003 |  | Delete issue#. | issue# is absent in CrossRef |  |
| A1616.001 | J,JPJ,51,(5),3093,8210 | x | Delete incorrect issue#. | issue#=10 in CrossRef |  |
| B0106.001 | J,JPR,23,1000,1962 | x | Add paper# (2). |  |  |
| C0195.001 | J,JRC,71,509,1982 |  |  | Landing page absent (i.e., no DOI) |  |
| C0285.001 | J,PR,84,845,51 | x | Add paper# (2). |  |  |
| C0619.001 | J,PR/C,61,015802,200001 |  |  | year=1999 in CrossRef |  |
| C0696.001 | J,NP/A,106,323,1968 |  |  | year=1967 (wrong) in CrossRef | Informed to Science Direct |
| C0792.001 | J,PR/C,63,014603,200101 |  |  | year=2000 in CrossRef |  |
| C0800.001 | J,PR/C,63,024601,200102 |  |  | year=2000 in CrossRef |  |
| C0945.001 | J,PR,98,1197,1955 | x | Add paper# (X1). |  |  |
| C1015.001 | J,PR,133,(3),B647,1964 |  | Delete issue#. | issue#=3B in CrossRef |  |
| C1150.001 | J,PR/C,63,014604,2001 |  |  | year=2000 in CrossRef |  |
| C1221.001 | J,PR,133,(2),B323,1964 |  | Delete issue#. | issue#=2B in CrossRef |  |
| C1253.001 | J,PR/C,65,015801,2002 |  |  | year=2001 in CrossRef |  |
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| C2608.001 | J,PR,85,934,1952 | x | Add paper# (2). |  |  |
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| D0091.001 | J,JPR/C,31,C2-205,1970 |  |  | first author="Morand" is additionally required to find the DOI in CrossRef |  |
| D0205.001 | J,EPJ/A,14,53,2002 |  |  | Two DOIs exist (10.1007/s10050-002-8789-y and 10.1140/epja/iepja1269) | Informed to CrossRef |
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| D0503.001 | J,RCA,97,71,2009 |  |  | page# absent in CrossRef | informed to CrossRef |
| D0555.001 | J,RCA,97,79,2009 |  |  | page# absent in CrossRef | informed to CrossRef |
| D0556.001 | J,RCA,97,113,2009 |  |  | page# absent in CrossRef | informed to CrossRef |
| D0568.001 | J,RCA,97,535,2009 |  |  | page# absent in CrossRef | informed to CrossRef |
| D0573.001 | J,PR,136,(4),B994,1964 |  | Delete issue#. | issue#=4B in CrossRef |  |
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| D0906.001 | J,JP/CS,940,012034,2017 | x | year=2017 -> 2018 | Typo in the original print, which is now fixed by the publisher |  |
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| E0932.001 | J,JPR/C,45,(C4),C4-453,198403 | |  | first author="Fujiwara" is additionally required to find the DOI in CrossRef |  |
| E1144.001 | J,NP/A,448,205,1985 | x | year=1985 -> 1986 (typo in article) | |  |
| E1351.001 | J,JPR/C,51,(C6),C6-423,199011 | |  | first author="Takamatsu" is additionally required to find the DOI in CrossRef |  |
| E1379.001 | J,NP/A,448,205,1985 | x | year=1985 -> 1986 (typo in article) | |  |
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| E1859.001 | J,NP,7,(2),116,195806 |  | Delete issue#. | issue# is absent in CrossRef |  |
| E1874.001 | J,NP,41,(2),275,196303 |  | Delete issue#. | issue# is absent in CrossRef |  |
| E1901.001 | J,NP/A,739,(1),3,200407 | x | Delete incorrect issue#. | Issue#=1-2 in CrossRef |  |
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| E2102.001 | J,RCA,96,(2),67,200802 |  |  | first author="Uddin" is additionally required to find the DOI in CrossRef |  |
| E2339.001 | J,KPS,59,(2),1805,201108 |  | Delete issue#. | Issue#=2(3) in CrossRef |  |
| E2340.001 | J,KPS,59,(2),2035,201108 |  | Delete issue#. | Issue#=2(3) in CrossRef |  |
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| F0770.001 | J,EPJ/A,13,123,2002 |  |  | Two DOIs exist (10.1007/s10050-002-8730-4 and 10.1140/epja1339-23) | Informed to CrossRef |
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| F1283.001 | J,YF,80,175,2017 |  |  | DOI does not exist? |  |
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| F1326.001 | J,YF,80,(4),338,2017 |  |  | DOI does not exist? |  |
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| O0914.001 | J,ZP/A,344,345,1993 |  |  | year=1992 (wrong) in CrossRef | Informed to Springer Nature |
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| P0024.001 | J,NP/A,106,323,1968 |  |  | year=1967 (wrong) in CrossRef | Informed to Science Direct |
| R0047.001 | J,PR,133,(5),B1165,196403 |  | Delete issue#. | issue#=5B in CrossRef |  |
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