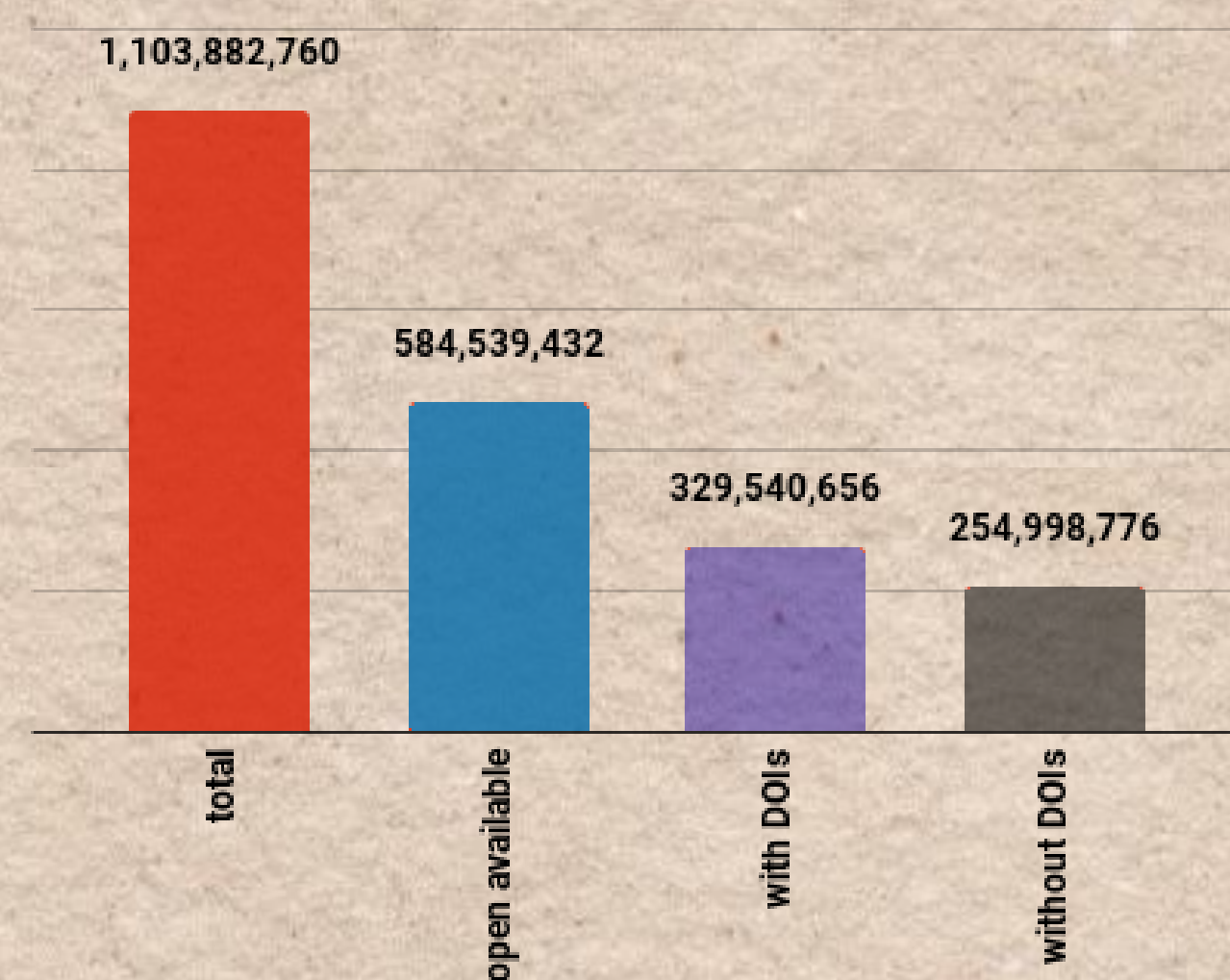


Open citations are an important part of open scholarly infrastructure. Their development also shows both the power and limitations of established parties, restricting their potential use for the wider scholarly community.

QUALITY OF CITATION DATA

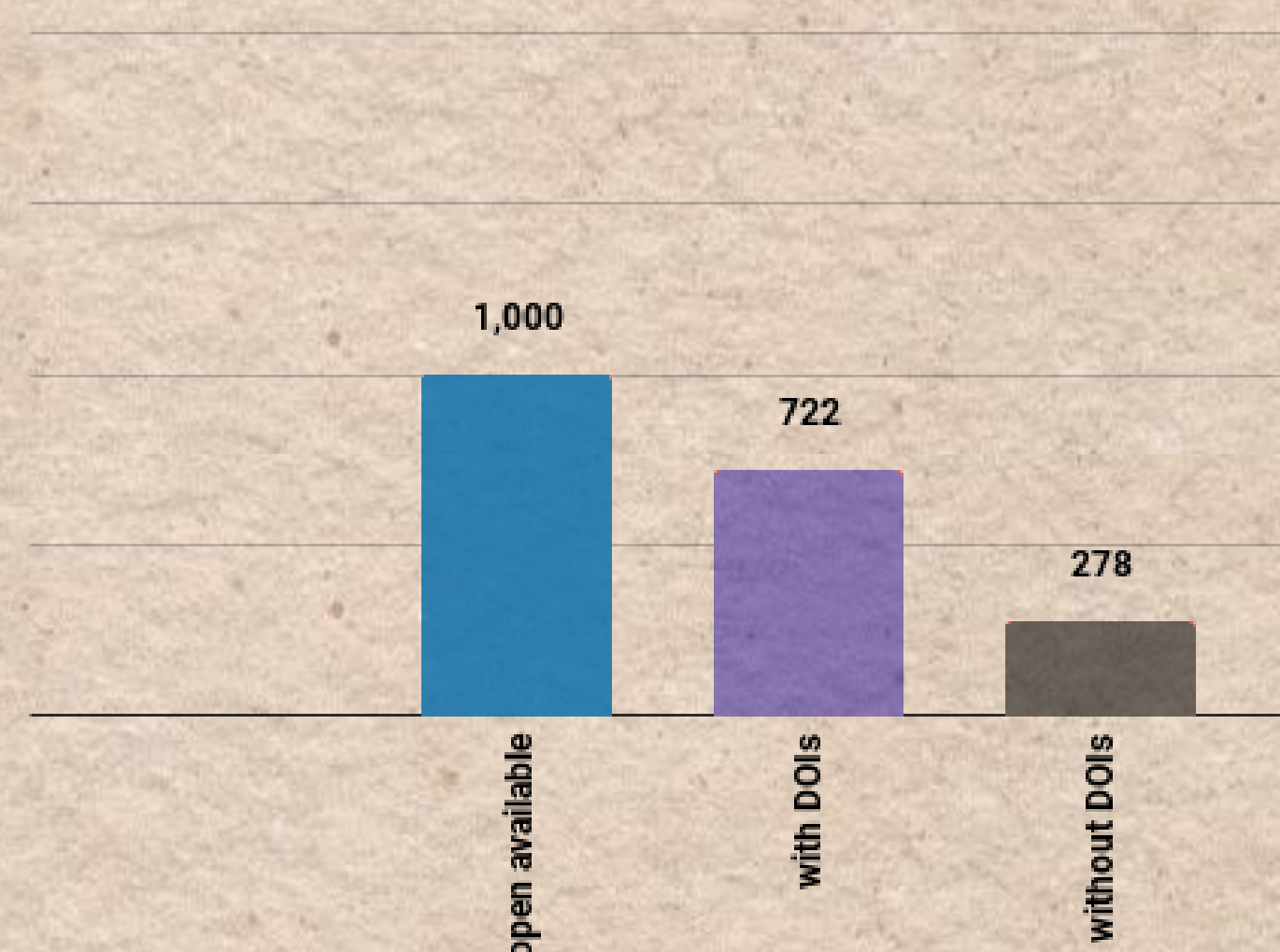
More and more publishers are making references openly available through Crossref, but their quality is often still suboptimal, with many references lacking important information including DOIs (Fig 1a). This limits their use in open citation indexes, like OpenCitations' COCI index.

Fig 1a. Citation counts in Crossref
cited from: all works, all publication years



data: D. Ecer (April 2018)
<https://elifesci.org/crossref-data-notebook>

Fig 1b. Random selection of 1000 open citations
cited from: journal articles published 2015-2017



data: B. Kramer (Sept 2018)
<https://github.com/bmkramer/crossref-open-citations>

COMMUNITY ENRICHMENT – an experiment

To explore the power of community enrichment of citations, we took a random sample of open citations from Crossref (Fig 1b), identified citations to journal articles missing DOIs and present a subset here for enrichment by conference participants: that's **YOU** !

POSSIBILITIES AND PITFALLS

Community enrichment of citation data would enable the scholarly community as a whole to not only to make optimal use of open citations, but also contribute to their value, without enclosing the enriched data.

Questions around enrichment of open citation data include: whether responsibility for providing good citation data should be extended beyond publishers, what legitimate sources to get additional citation data information from (eg Wikidata), how alternative routes to enrichment would scale, and how provenance of enrichments should be dealt with.

LET'S DISCUSS !

DOI WANTED

#9 first-page: 132, article-title: Impact of fan gap flow on the centrifugal impeller aerodynamics, volume: 1, author: Lee, year: 2010, journal-title: Fluids Eng	cited by: 10.1515/tij-2016-0070 reference 3 of 8	#9 first-page: 132, article-title: Impact of fan gap flow on the centrifugal impeller aerodynamics, volume: 1, author: Lee, year: 2010, journal-title: Fluids Eng	cited by: 10.1515/tij-2016-0070 reference 3 of 8	#38 first-page: 309, article-title: Multiplicação in vitro de Eucalyptus grandis x E. urophylla cultivado em meio semissólido e em biorreator de imersão temporária, volume: 39, author: Oliveira ML, year: 2011, journal-title: Scientia Forestalis	cited by: 10.1590/1806-90882017000600005 reference 25 of 37	#39 author: Shaikh, volume: 6, first-page: 2333, year: 2011, journal-title: Int. J. Electrochem. Sci.	cited by: 10.1002/ange.201606137 reference 32 of 51	#52 author: Rashidi F, volume: 129, first-page: 417, year: 2012, journal-title: Appl Catal A	cited by: 10.1177/0040517515573408 reference 28 of 33	#108 volume: 08, first-page: 051, year: 2016, journal-title: Journal of Cosmology and Astroparticle Physics	cited by: 10.1155/2017/9687976 reference 47 of 65
#116 author: Bowen, volume: 0, first-page: 1, year: 2014, journal-title: Energy Environ. Sci.	cited by: 10.1039/c4cc04592h reference 3 of 53	#126 issue: 1, first-page: 189, volume: 35, author: Tan, year: 2014, journal-title: Journal of Chinese Agricultural Mechanization	cited by: 10.1051/mateconf/20166102027 reference 9 of 11	#140 first-page: 379, article-title: Effect of the extracts from Gastrodia elata Bl. On mycelial growth and polysaccharide biosynthesis by Grifola frondosa, volume: 6, author: Zhang, year: 2012, journal-title: African Journal of Microbiology Research	cited by: 10.1111/ajr.12831 reference 24 of 24	#159 first-page: 301, article-title: Natural history of rheumatic heart disease: a 12 years observational study penicillin bites the muscle but heals the heart, volume: 26, author: Rizvi, year: 2014, journal-title: Journal of Ayub Medical College Abbottabad	cited by: 10.1111/ajr.12379 reference 18 of 22	#228 first-page: 10, article-title: How the gut feels, smells, and talks, volume: 170, author: Beumer, year: 2017, journal-title: Cell	cited by: 10.1126/scisignal.aao3888 reference 18 of 2	#279 issue: 10, first-page: 2877, volume: 9, author: S Fan, year: 2012, journal-title: Fan S, Wang R, Zhang Y, Guo K (2012) Classifying computer generated graphics and natural images based on image contour. Int J Inf Comput Sci 9(10):2877–2895, journal-title: Int J Inf Comput Sci	cited by: 10.1007/s11042-016-4153-0 reference 5 of 20
#285 unstructured: Edosomwan, S., Prakash, S. K., Kouame, D., Watson, J. and Seymour, T. (2011). The history of social media and its impact on business. Journal of Applied Management and Entrepreneurship, Vol. 16 No. 3, pp. 79-91.	cited by: 10.1108/mip-09-2014-0169 reference 16 of 56	#303 author: Young JV, first-page: E133, year: 2014, journal-title: Radio Graphics	cited by: 10.1080/00016489.2016.1247498 reference 2 of 20	#340 volume: 14, issue: 1, first-page: 123, year: 2015, journal-title: IEEE Transactions on Wireless Communications	cited by: 10.1155/2015/554865 reference 7 of 9	#380 volume: 59, first-page: 456, year: 2010, journal-title: Morbidity and Mortality Weekly Report	cited by: 10.1155/2016/5319425 reference 12 of 16	#398 issue: 3/2, first-page: 57, author: V.A. Vlasov, A. G. Karegin, A. A. Karegin, A. P. Shekhovtsova, Izv. Vyssh. Uchebn. Zaved. Fiz., 57, No. 3/2, 87-90 (2014), journal-title: Izv. Vyssh. Uchebn. Zaved. Fiz.	cited by: 10.1007/s11182-015-0558-x reference 5 of 10	#433 issue: 15, first-page: 5185, volume: 6, author: Bodla M. A., year: 2012, journal-title: African Journal of Business Management	cited by: 10.1177/2278523715605426 reference 2 of 45
#453 author: Udaya K. R., volume: 324, year: 2012, journal-title: Fluid Phase Equilib	cited by: 10.1080/15567036.2015.1124940 reference 9 of 11	#481 issue: 6, key: 43 CR3, first-page: 889, volume: 96, author: R Labianca, year: 2010, unstructured: Labianca R, Merelli B. Screening and diagnosis for colorectal cancer: present and future. Tumori. 2010;96(6):889–901., journal-title: Tumori	cited by: 10.1186/s13578-015-0043-9 reference 3 of 58	#512 unstructured: Карпова, Т.В. Разработка концепции обеспечения нейтронового доступа к конфиденциальной информации / Т.В. Карпова, Н.М.Андреева // Вестник МГТУ Станкин. – 2011. - № 2 (18). – С.87-90., Karlova, T.V. Conception development of ensuring multilevel access to confidential information / T. V. Karlova, N. M. Kuznetsov // Bulletin of MSTU Stankin. – 2011. - No. 2 (14). – pp. 87-90.	cited by: 10.12737/2986 reference 1 of 3	#526 first-page: 1463, volume: 13, author: AA Nawaz, year: 2013, unstructured: A.A. Nawaz, X. Mao, Z.S. Stratton, T. Huang, J., Unconventional microfluidics: expanding the discipline. Lab Chip, R Soc Chem(13), 1463 (2013), journal-title: Lab Chip, R Soc Chem	cited by: 10.1007/s00339-017-0754-3 reference 8 of 13	#550 first-page: 25, article-title: Rotating cross-arm trellis technology for blackberry production, volume: 3, author: Taleaia, year: 2013, journal-title: Berry Research	cited by: 10.3233/hr-150104 reference 8 of 14	#578 first-page: 84, volume: 8, author: S. Tamilselvi, year: 2015, unstructured: Tamilselvi S., Asathambai M.: Column mode adsorption studies of acid dye using a novel adsorbent. Rasayan J. Chem. 8, 84-91 (2015), journal-title: Rasayan J. Chem.	cited by: 10.1007/s13369-016-2250-z reference 33 of 37
#626 author: Huang, volume: 51, first-page: 12355, year: 2012, journal-title: Ind. Eng. Chem. Res.	cited by: 10.1002/pat.3648 reference 36 of 39	#639 first-page: 147, volume: 7, author: YP Wang, year: 2012, unstructured: Wang, Y. P. et al. Arc behavior over amorphous and nanostructured electrode materials. China Sci. 7, 147–150 (2012)., journal-title: China Sci.	cited by: 10.1038/s41598-017-18114-2 reference 3 of 33	#655 author: Gao J., volume: 6, first-page: p11, year: 2013, journal-title: Sci. Signal.	cited by: 10.1038/ncomms16022 reference 63 of 63	#666 first-page: 48, article-title: Identification of early interstitial lung disease in smokers from the COPDGen Study, volume: 17, author: Washko, year: 2010, journal-title: Acad Radiol	cited by: 10.1136/oemed-2016-104178 reference 15 of 33	#668 volume: 34, first-page: 124, journal-title: Pakistan Veterinary Journal	cited by: 10.3920/bm2016.0194 reference 6 of 28	#727 first-page: 108, article-title: Spatial downscaling of precipitation using Multi-source remote sensing data: A case study of Sichuan-Chongqing region, volume: 17, author: Ji, year: 2015, journal-title: J. Geo-Inf. Sci.	cited by: 10.3390/jig6010028 reference 7 of 31
#732 unstructured: Thind M. Am J Med 2017, online 8. September 2017	cited by: 10.1007/s15006-017-0091-3 reference 10 of 1	#740 first-page: 2483, volume: 2, author: GA Devl, year: 2010, unstructured: Dewi, G.A.V., Rajendran, V., Rajendran, N. Ultrasonic characterization of calcium phosphate glasses and glass-ceramics with addition of TiO2. Int J Eng Sci Technol. 2, 2483–2490 (2010), journal-title: Int J Eng Sci Technol	cited by: 10.1007/s41779-017-0037-7 reference 23 of 38	#751 author: 차성훈, volume: 48, issue: 4, first-page: 241, journal-title: 한국문헌정보학회지.	cited by: 10.31179/plj.16.2.201505.010 reference 11 of 11	#752 volume: 15, first-page: 2015, journal-title: Journal of Mathematical Logic,	cited by: 10.1017/jml.2016.35 reference 5 of 5	#769 issue: 2, first-page: 157, volume: 52, author: Robinson K., year: 2014, journal-title: Language Arts	cited by: 10.1111/ele.12099 reference 7 of 8	#790 first-page: 114, article-title: Lost in translation: Animal models and clinical trials in cancer treatment, volume: 6, author: Mak, year: 2014, journal-title: Am. J. Transl. Res.	cited by: 10.3390/mi7120233 reference 10 of 186
#804 first-page: 8599, year: 2012, journal-title: ACS nano 6:10	cited by: 10.1017/s1431927615002123 reference 3 of 5	#817 author: Santi L, volume: 4, first-page: 2470, year: 2013, journal-title: Nat. Commun.	cited by: 10.1038/nature22361 reference 3 of 22	#823 author: TA Burrow, volume: 31, article-title: CNS, lung, and lymph node involvement in Gaucher disease type 3 after 11 years of therapy: Clinical, histopathologic, and biochemical findings, journal-title: Mol Genet Metab	cited by: 10.1371/journal.pone.0120194 reference 18 of 32	#827 first-page: 82, article-title: Body image in women undergone bariatric surgery: sociocultural interactions, volume: 9, author: Castro, year: 2013, journal-title: Motricidade	cited by: 10.1111/obr.12518 reference 65 of 88	#843 unstructured: Cutter DJ, Schaapveld M, Darby SC, et al. Risk of valvular heart disease after treatment for Hodgkin lymphoma. J Natl Cancer Inst. 2015;107.	cited by: 10.1007/s11886-016-0768-z reference 89 of 108	#909 unstructured: Horiszny, J. (2012). Reduction of inrush current by demagnetization of magnetic core. International Journal of Applied Electromagnetics and Mechanics, Vol. 39 Nos 1-4, pp. 1013-1019.	cited by: 10.1108/compel-01-2016-0007 reference 2 of 4
#933 unstructured: Bohinc T, Kozl U, Vidan S. 2013. Glucosinolates as arsenal for defending Brassicas against cabbage flea beetle (Phyllotreta spp.) attack. Zemdirbyste 100: 199–204	cited by: 10.1051/oc/2016021 reference 10 of 92	#956 first-page: 550, article-title: Moderated estimation of fold change and dispersion for RNA-seq data with DESeq2, volume: 15, author: Love, year: 2014, journal-title: Genome Biol	cited by: 10.1093/bioinformatics/btu094 reference 1 of 3	#971 author: Lendel A, volume: 31, first-page: 567, year: 2010, journal-title: Human Brain Mapping	cited by: 10.1080/02699052.016.1199914 reference 43 of 95	#976 first-page: 76, article-title: The career model touching-the-sky yet grounded: the theoretical base of Chinese Career Net (in Chinese), volume: 6, author: Liu, year: 2014, journal-title: Int. Scholarly Sci. Res. Innov.	cited by: 10.3389/fpsyg.2016.01761 reference 56 of 92	#986 issue: 3, first-page: 643, volume: 9, author: Tebar M., year: 2015, journal-title: Int. Scholarly Sci. Res. Innov.	cited by: 10.1111/err.17071 reference 3 of 3	#990 volume: 107, first-page: 10, year: 2013, journal-title: American Political Science Review	cited by: 10.1017/err.17071 reference 3 of 3

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