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**Laura Armstrong &
Elsie Jacobson**



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The New Zealand Indices of Multiple Deprivation (IMD): A new suite of indicators for social and health research in Aotearoa, New Zealand

Daniel John Exeter  , Jinfeng Zhao , Sue Crengle , Arier Lee , Michael Browne 

Published: August 3, 2017 • <https://doi.org/10.1371/journal.pone.0181260>

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Abstract

For the past 20 years, the New Zealand Deprivation Index (NZDep) has been the universal measure of area-based social circumstances for New Zealand (NZ) and often the key social determinant used in population health and social research. This paper presents the first theoretical and methodological shift in the measurement of area deprivation in New Zealand.

New Zealand Indices of Multiple Deprivation (IMD): A set of indicators for social and health research in Aotearoa New Zealand

in Exeter , Jinfeng Zhao , Sue Crengle , Alier Lee , Michael Browne 

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DOI: 10.1038/s41467-018-04953-8

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Very large tunneling magnetoresistance in layered magnetic semiconductor CrI_3

Zhe Wang ^{1,2}, Ignacio Gutiérrez-Lezama^{1,2}, Nicolas Ubrig ^{1,2}, Martin Kroner³, Marco Gibertini^{1,2}, Takashi Taniguchi⁴, Kenji Watanabe ⁴, Ataç Imamoğlu³, Enrico Giannini ¹ & Alberto F. Morpurgo ^{1,2}

Magnetic layered van der Waals crystals are an emerging class of materials giving access to new physical phenomena, as illustrated by the recent observation of 2D ferromagnetism in $\text{Cr}_2\text{Ge}_2\text{Te}_6$ and CrI_3 . Of particular interest in semiconductors is the interplay between

Faraday rotation in the cold objective lens, has been measured independently and was subtracted from the data in order to obtain the traces shown in Fig. 4.

Data availability. All relevant data are available from the corresponding authors on request.

Received: 24 January 2018 Accepted: 5 June 2018

Published online: 28 June 2018

References

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Data Availability Statement: All research outputs related to this publication including the Data Zone concordance tables and the Data Zone-level ranks of The Index of Multiple Deprivation (IMD) and its Domains are freely available for download from https://figshare.com/articles/Data_Zones_for_New_Zealand/5207884 and https://figshare.com/articles/The_Index_of_Multiple_Deprivation_IMD_/5207887 respectively, or from the IMD project's website <http://www.fmhs.auckland.ac.nz/imd>. 2013 Census Meshblock files used as the building blocks to develop Data Zones can be obtained from http://www.statistics.govt.nz/browse_for_stats/Maps_and_geography/Geographic-areas/digital-boundary-files.aspx#censusbased.

Access to the raw data used to develop the indicators used in the development of the IMD are available from the Integrated Data Infrastructure (IDI), which is maintained by Statistics New Zealand, subject to ethical approval, for researchers who meet the criteria for access to confidential data. Information regarding access to the IDI is available from http://www.stats.govt.nz/browse_for_stats/snapshots-of-nz/integrated-data-infrastructure.aspx or by contacting access2microdata@stats.govt.nz <<mailto:access2microdata@stats.govt.nz>>. Some data used in the Access Domain of the IMD were obtained from <http://koordinates.com/layer/152-nz-petrol-stations/> and <https://koordinates.com/layer/189-nz-supermarkets/>. Further information about data availability can be obtained from the senior author, Dr Daniel Exeter (d.exeter@auckland.ac.nz <<mailto:d.exeter@auckland.ac.nz>>) and from <http://www.fmhs.auckland.ac.nz/imd>.

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The Index of Multiple Deprivation (IMD)

Dataset posted on 21.07.2017, 08:32 by [Daniel Exeter](#), Michael Browne, Arier Lee, Jinfeng Zhao, Sue Crengle

A fileset containing excel spreadsheets allowing researchers to map area-deprivation using the IMD.

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- <http://www.fmhs.auckland.ac.nz/imd>

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Health Research Council of New Zealand 13/428

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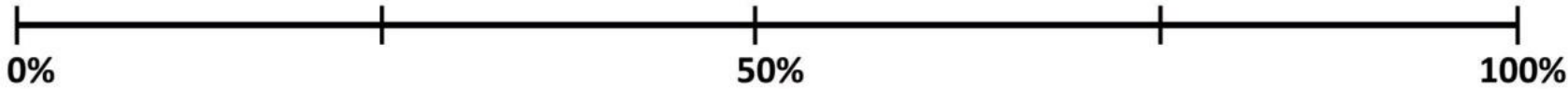
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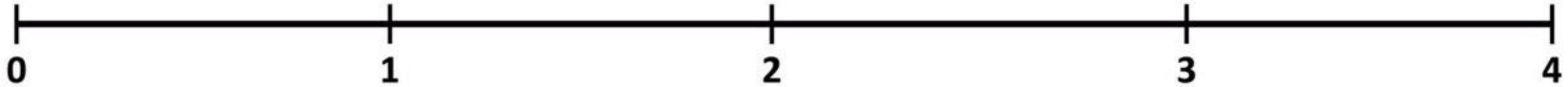
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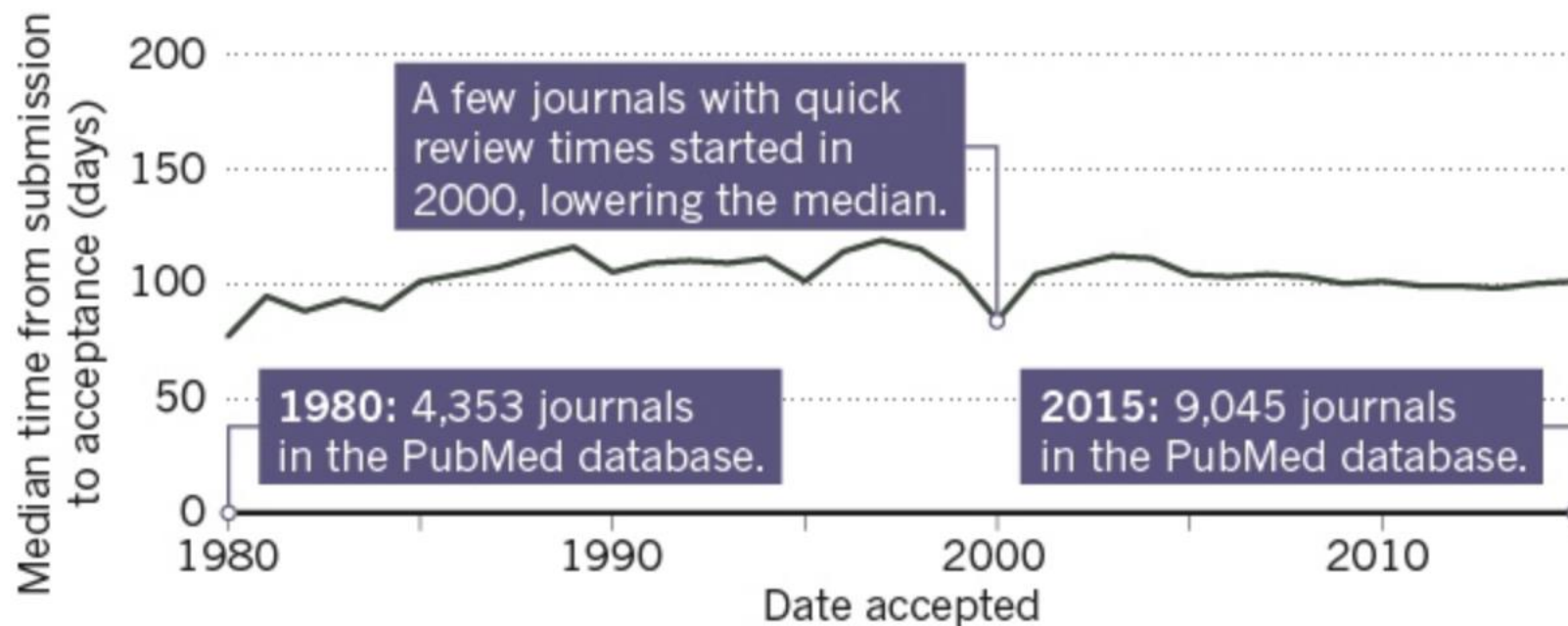
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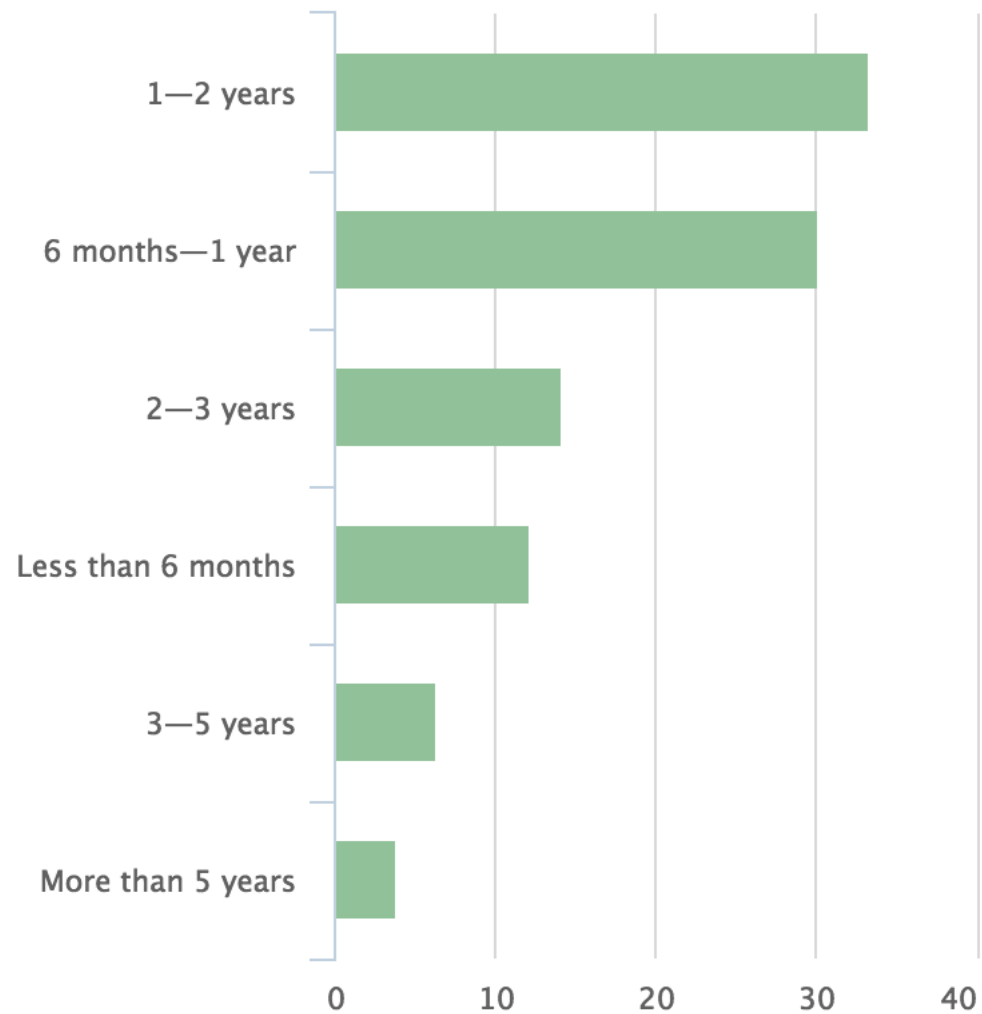
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Kendall Powell

10 February 2016



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Henrike O. Heyne✉, Tarjinder Singh, [...] Johannes R. Lemke✉

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 Elsie C. Jacobson,  Jo K. Perry, David S. Long, Ada L. Olins,  Donald E. Olins, Bryon E. Wright,  Mark H. Vickers, Justin M. O'Sullivan

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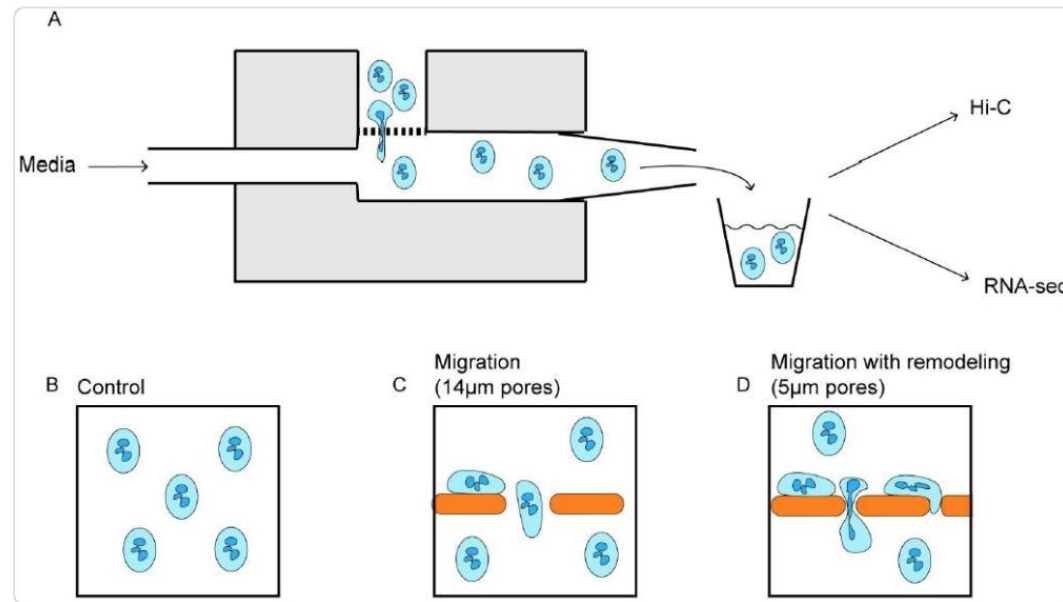
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Elsie C. Jacobson, Jo K. Perry, David S. Long, Ada L. Olins, Donald E. Olins, Bryon E. Wright, Mark H. Vickers, Justin M. O'Sullivan

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Profiling of pluripotency factors in individual stem cells and early embryos

Sarah J Hainer, Ana Boskovic, Oliver J Rando, Thomas G Fazzio

bioRxiv 286351; doi: <https://doi.org/10.1101/286351>

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Svetlana Lockwood, Kelly A Brayton, Jeff A Daily, Shira L Broschat

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Sheila Ktichen, Aakrosh Ratan, Oscar Bedoya-Reina, Rico Burhans, Nicole Fogarty, Webb Miller, Iliana Baums

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Profiling of pluripotency factors in individual stem cells and early embryos

Sarah J Hainer, Ana Boskovic, Oliver J Rando, Thomas G Fazio

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Wibke Schwarzer, Nezar Abdennur, Anton Goloborodko, Aleksandra Pekowska, Geoffrey Fudenberg, Yann Loe-Mie, Nuno A Fonseca, Wolfgang Huber, Christian Haering, Leonid Mirny, François Spitz

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Trench-parallel strike slip faults develop at lithospheric scale during oblique high-angle subduction. A "sliver" plate forms due to slip partitioning between the subduction plane (margin-normal slip) and the strike slip fault (margin-parallel slip). This process ultimately controls the location of volcanoes and earthquakes. The Great Sumatran Fault (GSF) is a showcase of this tectonic configuration located in the Sumatran section of the Sunda arc-trench system. Kinematics of the large-scale structures of the Sumatra section of the Sunda trench are well understood and tensional and compressional domains have been identified at the regional scale. However, detailed understanding of the stress distribution is still lacking yet essential for

1



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