

# **Study Of Superconductivity: On Alkali Metal Doped A<sub>3</sub>C<sub>60</sub> (A=K,Rb And Cs) Superconductors By Berhanu Tulu Kacha;Singh Pooran**

**By Berhanu Tulu Kacha;Singh Pooran**

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We study the mechanism of superconductivity in alkali-metal- doped C<sub>60</sub> It is shown that the dynamic Jahn-Teller effect is responsible for superconductivity in

<http://scitation.aip.org/content/aip/proceeding/aipcp/10.1063/1.1420120>

Bcker av Singh Pooran i Bokus bokhandel: Study of on Alkali Metal Doped A<sub>3</sub>C<sub>60</sub> (A=K,Rb and Cs) av Berhanu Tulu Kacha, Singh Pooran. H FTAD

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av Berhanu Tulu Kacha, Singh Pooran on Alkali Metal Doped A<sub>3</sub>C<sub>60</sub> (A=K,Rb and Cs) Bli f rst att betygs tta och recensera boken Study of Superconductivity

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View superconductivity was carried out. Studies

<http://www.tandfonline.com/doi/full/10.1080/08957950600864401>

High pressure studies, All alkali metals have been predicted to become Hillier, Narelle Jayne, "High Pressure Studies of Superconductivity" (2013

<http://openscholarship.wustl.edu/etd/1102/>

Superconductivity and structure of C<sub>60</sub> doped with metals through the thermal decomposition of alkali azides. A systematic study on the superconductivity

<http://ieeexplore.ieee.org/articleDetails.jsp?arnumber=834662>

Scitation: NMR studies of alkali-doped C<sub>60</sub> superconductors with small lattice constants

<http://scitation.aip.org/content/aip/proceeding/aipcp/10.1063/1.1420131>

These results contribute to the understanding of superconductivity in light alkali metal Raman study of the electron phonon interaction in light

[http://iopscience.iop.org/0953-8984/23/11/115701?v\\_morerelated\\_rev=yes](http://iopscience.iop.org/0953-8984/23/11/115701?v_morerelated_rev=yes)

Apr 29, 2012 has led to the discovery of a new subclass of organic superconductors, alkali Metal-intercalated aromatic hydrocarbons: a new  
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3339435/>

During the 1992-93 year of the research program on Basic Optical Studies of High T<sub>c</sub> Oxide Superconductors, electron-phonon interaction in the alkali metal  
<http://oai.dtic.mil/oai/oai?verb=getRecord&metadataPrefix=html&identifier=ADA268148>

This analysis clearly demonstrates that the superconductivity in alkali-doped fullerides is the Nonempirical study of superconductivity in alkali-doped fullerides  
<http://arxiv.org/pdf/1505.05849.pdf>

the direct study of superconductivity with more conventional Rb, Cs) compounds exhibiting superconductivity [7]. These heavy alkali metal atoms act as spacers,  
[http://iopscience.iop.org/0953-8984/23/11/115701/pdf/0953-8984\\_23\\_11\\_115701.pdf](http://iopscience.iop.org/0953-8984/23/11/115701/pdf/0953-8984_23_11_115701.pdf)

Mar 20, 2013 Title: Non-empirical Study of Superconductivity in Alkali-doped Fullerides Based on Density Functional Theory for Superconductors  
<http://arxiv.org/abs/1303.5138>

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Recommended Citation. Wang, Miaoyin, "Neutron scattering study of the iron based superconductors." PhD diss., University of Tennessee, 2013.  
[http://trace.tennessee.edu/utk\\_graddiss/2494/](http://trace.tennessee.edu/utk_graddiss/2494/)

High pressure studies of superconductivity: Authors: Hillier, Narelle Jayne: All alkali metals have been predicted to become superconducting under pressure.  
<http://adsabs.harvard.edu/abs/2013PhDT.....58H>

In the present study, Superconductivity was found in and . Superconductivity, Electron Paramagnetic Resonance,  
<http://www.hindawi.com/journals/acmp/2008/941372/>

Chapter II is a study on another interesting family of superconductors, the alkali The study concludes that the and alkali compounds of Buckminsterfullerene  
<http://thesis.library.caltech.edu/5296/>

X-ray diffraction studies show that the alkali-doped fullerene has we present our experimental results on the structure and superconductivity of alkali-doped  
<http://www.sciencedirect.com/science/article/pii/S003810989190169V>

The layer structured superconductors show a low All of the alkali metal intercalation compounds with and Superconductivity of alkali metal

<http://m.iopscience.iop.org/0953-2048/26/12/122001/article>

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D. E. MacLaughlin, in Solid State Physics, Vol. 31, H. Ehrenreich, F. Seitz, and D. Turnbull, eds. (Academic, New York, 1976).

<http://link.springer.com/article/10.1007/BF00732274>

Superconductivity in alkali-metal This discovery of superconductivity in K x picene shows that In this study, we have prepared alkali-metal-intercalated

<http://www.nature.com/articles/nature08859>

Theory for superconductivity in alkali chromium arsenides  $A_2Cr_3As_3$  (A=K,Rb,Cs) 2015 Feb. We use transport and neutron scattering to study electronic,

<http://www.mathpubs.com/detail/1502.03928v2/Theory-for-superconductivity-in-alkali-chromium-arsenides-A2Cr3As3-AKRbCs>

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Superconductivity of alkali and alkaline earth compounds of  $C_{60}$ . theoretical study of the spin coupling in the  $C_{60}^{2-}$  fulleride ion,

<http://onlinelibrary.wiley.com/doi/10.1002/qua.560480859/citedby>

Research & Faculty; Department Publications; Muon-spin-relaxation studies of the alkali-fulleride superconductors

<http://www.chem.ubc.ca/muon-spin-relaxation-studies-alkali-fulleride-superconductors>

Abstract. The search for new molecular superconductors based upon concepts derived from the interpretation of alkali fullerides superconductivity led to the study of

<http://www.sciencedirect.com/science/article/pii/S037967799801501X>

Journal of Superconductivity, Vol. 7, No. 6, 1994 NMR Studies of Alkali  $C_{60}$  Superconductors V. A. Stenger, ~ C. Recchia, 1 C. H. Pennington, 1 D. R

<http://link.springer.com/content/pdf/10.1007%2F00732274.pdf>

Berhanu Tulu Kacha and Singh Pooran to show the mechanism of superconductivity in  $A_3C_{60}$  (A=K, Rb and Cs) on Alkali Metal Doped  $A_3C_{60}$  (A=K,Rb and Cs)

<http://www.ozon.ru/context/detail/id/31834057/>

Abstract There has been much debate over the mechanism of superconductivity in the alkali fulleride superconductors  $A_3C_{60}$  (A = alkali metal).

<http://adsabs.harvard.edu/abs/1996PhDT.....23S>

Non- empirical Study of Superconductivity in Alkali- doped Fullerides Based on Density Functional Theory for Superconductors by Ryosuke Akashi

<http://www.general-ebooks.com/book/36486305-non-empirical-study-of-superconductivity-in-alkali-doped-fullerides-based-on-density-functional-theory-for-superconductors>

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<http://www.materialstoday.com/electronic-properties/news/alkali-fullerides-reveal-more-superconductivity-se/>