Annotated Bibliography

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**Electric Cars in New Energy Revolution**

**Holmberg, K., & Erdemir, A. (2019). The impact of tribology on energy use and CO2 emission globally and in combustion engine and electric cars. Tribology International, 135, 389-396.** [**https://www.osti.gov/servlets/purl/1559285**](https://www.osti.gov/servlets/purl/1559285)

The authors discuss how environmental sustainability has grown over the years, which calls for the need to get transparent transport systems. They emphasize the need of having electric cars come up with new advances that can work in reducing the amount of energy they consume. The authors, therefore, recommend the need for having innovative designs as a way of improving the efficiency of cars. The article is useful for my research as it uses different mechanisms to analyze the impact of friction among electric car users thereby providing accurate findings for the study.

**Degirmenci, K., & Breitner, M. H. (2017). Consumer purchase intentions for electric vehicles: Is green more important than price and range?. Transportation Research Part D: Transport and Environment, 51, 250-260.** **https://eprints.qut.edu.au/102860/8/TRD\_2016\_302\_Accepted\_Version.pdf**

The article highlights the need for electric vehicle manufacturers to consider going green in producing energy sources. Here, a more significant focus is given on the role of the vehicles in environmental performance by the use of attitude predictors and purchase intention. The use of a variety of reflective measurements that looked at the environmental performance makes the research suitable in analyzing measures to be implemented for electric cars in the new energy revolution.

**Use of Cobalt in Electric Cars**

**Behrmann, E., Farchy, J., & Dodge, S. (2018). Hype Meets Reality as Electric Car Dreams Run Into Metal Crunch. Bloomberg Business News.** **irstcobalt.com/\_resources/pdf/Bloomberg-Hype-Meets-Reality-as-Electric-Car-Dreams-Run-Into-Metal-Crunch-Jan-11-201**

In analyzing the realities behind electric cars, the authors confirm that tons of cobalt is usually needed in making electric cars. Here, the use of cobalt is considered a useful element with the growing demand of the cars; the authors predict that there will be a shortage in the mineral supplies. The article further explains how mining deals have had even children working with their hands, which makes it a reliable article in explaining some of the hazardous conditions they face**.**

**Nkulu, C. B. L., Casas, L., Haufroid, V., De Putter, T., Saenen, N. D., Kayembe-Kitenge, T., ... & Numbi, O. L. (2018). Sustainability of artisanal mining of cobalt in DR Congo. Nature sustainability, 1(9), 495-504.** **ncbi.nlm.nih.gov/pmc/articles/PMC6166862/**

The authors discuss the process behind cobalt mining for making lithium-ion batteries required by electric cars. Mining this mineral is considered to have transformed one of the Congo's neighborhoods, affecting the people living around. The article clarifies that there have been cases where cobalt was found in blood and urine, especially in children living around the mining sites. This gives a confirmation of how the mining of cobalt is not sustainable for both adults and children, which will help in facilitating accurate findings of my research.

**Beck, C., Jones, T., Swafford, L., & Schmidt, H. (2018). Electric Vehicles. https://shareok.org/bitstream/handle/11244/317114/ElectricCars.pdf?sequence=1**

The article looks at how cobalt mining has become a business where most families rely on for their survival. The authors point out that families, including children, engage in the practice where most of them take pride in the small amounts of money they get from the activity. In analyzing different situations associated with the mining, the dangers of engaging in it are equally mentioned, which makes the article useful in the study. It gives a clear picture of how efforts of making the dream of electric cars a reality affect individuals.