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学位論文（ 2015 年度）

論文題名

Open Innovation in the EV Industry: the
Impact of Technology Leadership

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論文要旨

所属ゼミ	浅川 研究会	学籍番号	81430767	氏名	陳 建維
(論文題名) Open Innovation in the EV Industry: the Impact of Technology Leadership					
(内容の要旨) This paper seeks to examine the impact of patent release and technology sharing in the still immature electric vehicle industry. While open innovation has been a hot topic and widely examined under various contexts from software development, agriculture to drug discovery, it is still being explored in the emerging clean transportation markets. As Tesla Motors CEO Elon Musk noted, patent release has the potential to accelerate innovation and hasten the advent of sustainable transportation. Because access to firsthand data has been limited and the quantitative effects of open innovation are still manifesting, the presented research here will be an integrative literature review based off of publicized interviews of Tesla Motors CEO Elon Musk, previously published literature as well as analyses of current events. Specifically, this paper will discover and organize the ways that open innovation can promote an EV industry. The open innovation movement may entail faster platform standardization, increased driving range, reduced charging times, cost reduction of R&D, and the initiation of technology sharing. <i>Conclusion:</i> In an immature developing industry, open innovation is most effective when undertaken by a technology leader. Keywords: Open Innovation, Disruptive Technology, Electric Vehicles (EV), Absorptive Capacity, Patent Release, Free-revealing Theory, Change Agent, Domino Effect, Global Alliances, Knowledge Sharing, Intellectual Property, Market Creation Strategy, Technology Leadership, Internet of Things (IoT), Economies of Scale, Clean Energy					