

NANO KOREA 2020

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Naoaki Yabuuchi

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Nationality: Japan

EDUCATION

Osaka City University

Ph.D

Engineering

2006

PROFESSIONAL ACTIVITIES

- Postdoctoral Associate, Massachusetts Institute of Technology, USA, 2006 to 2008
- Professor, Yokohama National University, Japan, 2018 to present
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AWARD AND HONORS

- First international award, “Science Award Electrochemistry” by Volkswagen and BASF Oct. 22nd, 2012
- ISE Prize for Applied Electrochemistry (International Society of Electrochemistry, ISE) Jul., 2, 2013
- The Periodic Table of Younger Chemists (Niobium) from The International Union of Pure and Applied Chemistry (IUPAC), Dec. 20th, 2018.

MAIN SCIENTIFIC PUBLICATION

- N. Yabuuchi *et al.*, “P2-Type $\text{Na}_x[\text{Fe}_{1/2}\text{Mn}_{1/2}]\text{O}_2$ Made from Earth-Abundant Elements for Rechargeable Na Batteries” *Nature Materials*, **11**, 512-517 (2012).
- N. Yabuuchi *et al.*, “Origin of stabilization and destabilization in solid-state redox reaction of oxide ions for lithium-ion batteries” *Nature Communications*, **7**, 13814 (2016).
- Y. Kobayashi *et al.*, and N. Yabuuchi, “Activation and Stabilization Mechanisms of Anionic Redox for Li Storage Applications: Joint Experimental and Theoretical Study on Li_2TiO_3 - LiMnO_2 Binary System” *Materials Today*, in-press

RESEARCH INTERESTS

- Batteries