Curriculum Vitae

Personal Detail

Gender: Male

Name: Jang-Yeon Hwang

Date of Birth: 1986.04.05

Phone: +82-02-2220-2392(office), +82-10-7101-3523(mobile)

E-mail: jangyeonhw@hanyang.ac.kr

Google Scholar Citations

https://scholar.google.co.kr/citations?user=gjARc54AAAAJ&hl=ko (h-index: 48; Dec.17, 2022)

Education

(M.S. & Ph.D. Combined) 2012.03 – 2018.02. Department of Energy Engineering, Hanyang University

Improving the Electrochemical Performances of O3-type layered $Na[Ni_xCo_yMn_z]O_2$ Cathodes by Microstructure Engineering for Sodium-Ion Batteries

(B.S.) 2005. 03. – 2011. 08. Department of Chemical Engineering, Hanyang University

Academic Position

2021.10 – Present, Associate Professor

Department of Materials Science and Engineering,

Chonnam National University

2019.07 – 2021.09, Assistant Professor

Department of Materials Science and Engineering,

Chonnam National University

2018.04 – 2019.06, Research Assistant Professor

Department of Energy Engineering

Hanyang University

Area of research interest

1) Alkali-ion (Li, Na and K) and Alkali-metal batteries

2) Lithium-Sulfur Batteries

Award

2022 Best factuality of Chonnam National University (research section)

2017 Research award at Hanyang University

2017 Ph.D. dissertation award at Hanyang University

2017 Best student award of BK21 Plus program (global section), Ministry of Education

Publications (Peer Reviewed Journal) (2014.01.~ 2022.12)

SCI Papers: > 110 publications

Selected SCI papers

1) Radially aligned hierarchical columnar structure as a cathode material for high energy density sodium-ion batteries, Nature Communications, 2015, 6, 6865.
(1st author, I.F.: 14.919, Google scholar citation: 191)

2) Sodium-ion batteries: present and future, Chemical Society Reviews, 2017, 46, 3529-3614.
(1st author, I.F.: 54.564, Google scholar citation: 2761)

3) Development of P3-$K_{0.69}CrO_2$ as an ultra-high-performance cathode material for K-ion batteries, Energy & Environmental Science, 2018, 11, 2821-2827.
(1st author, I.F.: 38.532, Google scholar citation: 135)

4) Customizing a Li–metal battery that survives practical operating conditions for electric vehicle applications, Energy & Environmental Science, 2019, 12, 2174-2184
(1st author, I.F.: 38.532, Google scholar citation: 89)

5) A new material discovery platform of stable layered oxide cathodes for K-ion batteries, Energy & Environmental Science, 2021, 14, 5864-5874.
(Corresponding author, I.F.: 38.532, Google scholar citation: 10)