

著作目錄

郭錦龍

期刊論文

1. Yu-Jen Tsai and Chin-Lung Kuo* (2021, Dec). The effect of N-doping on the electronic structure property and the Li and Na storage capacity of graphene nanomaterials: A first-principles study. *Electrochimica Acta* 403 (2022) 139719
2. Tsai-Fu Chung, Pin-Jung Chen, Cheng-Ling Tai, Po-Han Chiu, Yo-Shiuan Lin, Chien-Nan Hsiao, Chih-Yuan Chen, Shing-Hoa Wang, Jien-Wei Yeh, WoeiShyan Lee, Chin-Lung Kuo, Jer-Ren Yang (2020, Sep). Investigation of nanotwins in the bimodal-structured Fe₂₂Co₂₂Ni₂₀Cr₂₂Mn₁₄ alloy subjected to high-strain-rate deformation at cryogenic temperatures. *Materials Characterization*, 170, 110667.
3. Kang-Tien Hsieh, You-Yi Lin, Chi-Hung Lu, Jer-Ren Yang, Chin-Lung Kuo* (2020, Jul). Atomistic simulations of the face-centered-cubic-to-hexagonal-closepacked phase transformation in the equiatomic CoCrFeMnNi high entropy alloy under high compression. *Computational Materials Science*, 184, 109864.
4. Yu-Jen Tsai and Chin-Lung Kuo* (2020, Apr). Effect of Structural Disorders on the Li Storage Capacity of Graphene Nanomaterials: A First-Principles Study. *ACS Applied Materials & Interfaces*, 12, 22917-22929.
5. Yu-Ting Weng, Hansen Wang, Rung-Chuan Lee, Ching-Yu Huang, Sheng-Siang Huang, Mozaffar Abdollahifar; Li-Ming Kuo, Bing-Joe Hwang, Chin-Lung Kuo, Yi Cui; Nae-Lih Wu (2020, Jan). Efficient Synthesis of High-Sulfur-Content Cathodes for High-Performance Li-S Batteries Based on Solvothermal Polysulfide Chemistry . *Journal of Power Source*, 450, 227676.
6. Amita Sihag, Zong-Lun Xie, Ho Viet Thang, Chin-Lung Kuo, Fan-Gang Tseng, Matthew Stephen Dyer, and Hsin-Yi Tiffany Chen (2019, Oct). DFT Insights into Comparative Hydrogen Adsorption and Hydrogen Spillover Mechanisms of Pt₄/Graphene and Pt₄/Anatase (101) Surfaces. *Journal of Physical Chemistry C*, 123, 25618-25627.
7. Chao-Chun Yen, Guan-Rong Huang, Yun-Cheng Tan, Han-Wen Yeh, Da-Ji Luo, Kang-Tien Hsieh, E-Wen Huang, Jien-Wei Yeh, Su-Jien Lin, Chun-Chieh Wang, Chin-Lung Kuo, Shou-Yi Chang, Yu-Chieh Lo (2019, Oct). Lattice distortion effect on elastic anisotropy of high entropy alloys. *Journal of Alloy and Compound*.
8. Tzu-Yao Hsu, Chin-Lung Kuo, Bo-Ting Lin, Jay Shieh¹ and Miin-Jang Chen (2019, Jul). The effects of annealing and wake-up cycling on the ferroelectricity of zirconium hafnium oxide ultrathin films prepared by remote plasma atomic layer deposition. *Smart Materials and Structures*, 28 (2019) 084005.
9. Han-Hsin Chiang and Chin-Lung Kuo* (2017, Feb). A comparative firstprinciples study of the structural and electronic properties of the liquid Li–Si and Li–Ge alloys. *The Journal of Chemical Physics*. 146 (2017) 064502.
10. Kun-Han Lin and Chin-Lung Kuo* (2017, Feb). Lithiation mechanisms and lithium storage capacity of reduced graphene oxide nanoribbons: a first-principles study. *Journal of Materials Chemistry A*. 5 (2016) 4912–4922.
11. Han-Hsin Chiang, Jian-Ming Lu, and Chin-Lung Kuo* (2016, Jan). First-Principles Study of the Structural and Dynamic Properties of the Liquid and Amorphous Li-Si Alloys. *Journal of Chemical Physics*. 144 (2016) 034502-1 to 034502-12.
12. 郭錦龍*, 蔡秉均 (展上的應用。化工會刊 2020, 第 年 1267 月)。第一原理密度泛函理論計算

在材料科技發 卷第 6 期, 127。本人為第一作者、通訊作者。

專書論文

1. Yu-Jen Tsai, Chin-Lung Kuo. Origin of Enhanced Li and Na Storage Capacity of N-doped Graphene-Based Nanomaterials: A First-Principles Study. *Lithium-Ion Batteries and Solar Cells: Physical, Chemical, and Materials Properties* (ISBN: 9781003138327). CRC Press, Taylor & Francis Group. Nov, 2020.
2. Yu-Jen Tsai, Chin-Lung Kuo. Defective and Amorphous Graphene as Anode Materials for Li-ion Batteries: A First-Principles Study. *Handbook of Green Energy Materials*. CRC Press, Taylor & Francis Group. Nov, 2018.