

Representative Publication of Prof. Kwun Nam HUI

1. Xiaolong Xu, K.S. Hui*, **K.N. Hui***, H. Wang*, J. Liu, "Recent Advances in the Interface Design of Solid-State Electrolytes for Solid-State Energy Storage Devices," **Materials Horizons**, 2020. DOI: 10.1039/C9MH01701A [link](#)
2. Xiaolong Xu, K.S. Hui*, D.A. Dinh , **K.N. Hui***, H. Wang*, "Recent Advances in Hybrid Sodium-Air Batteries," **Materials Horizons**, 6, pp. 1306-1335, 2019. [link](#); This article is part of the themed collections: [Recent Review Articles](#) and [Horizons Community Board Collection – Advanced Energy Storage Technologies](#)
3. Shude Liu, Ying Yin, Dixing Ni, K.S. Hui, **K.N. Hui***, Suchan Lee, Chu-Ying Ouyang* and Seong Chan Jun*, "Phosphorous-containing oxygen-deficient cobalt molybdate as an advanced electrode material for supercapacitors", **Energy Storage Materials**, 19, 189-196 (2019) <https://doi.org/10.1016/j.ensm.2018.10.022>
4. Shude Liu, Ying Yin, Dixing Ni, K.S. Hui, **K.N. Hui***, Ming Ma, Chu-Ying Ouyang* and Seong Chan Jun*, "New insight into the effect of fluorine doping and oxygen vacancies on electrochemical performance of Co₂MnO₄ for flexible quasi-solid-state asymmetric supercapacitors", **Energy Storage Materials**, (2019) <https://linkinghub.elsevier.com/retrieve/pii/S240582971831095X>
5. Shude Liu, Ying Yin, Musheng Wu, K.S. Hui, **K.N. Hui***, Chu-Ying Ouyang* and Seong Chan Jun*, "Phosphorus-Mediated MoS₂ Nanowires as a High-Performance Electrode Material for Quasi-Solid-State Sodium-Ion Intercalation Supercapacitors", **Small**, 15, 1803984 (2019) <https://doi.org/10.1002/smll.201803984> **Back Cover**
6. Shuxing Wu, K.S. Hui* and **K.N. Hui***, "2D Black Phosphorus: from Preparation to Applications for Electrochemical Energy Storage", **Advanced Science**, 5, 1700491 (2018) <https://onlinelibrary.wiley.com/doi/full/10.1002/advs.201700491>
7. Shude Liu, Ying Yin, K.S. Hui, **K.N. Hui***, Su Chan Lee and Seong Chan Jun*, "High-Performance Flexible Quasi-Solid-State Supercapacitors Realized by Molybdenum Dioxide@ Nitrogen-Doped Carbon and Copper Cobalt Sulfide Tubular Nanostructures", **Advanced Science**, 5, 1800733 (2018) <https://onlinelibrary.wiley.com/doi/epdf/10.1002/advs.201800733>
8. Lei Li, K.S. Hui*, **N. Hui*** and Young-Rae Cho*, "Ultrathin Petal-like NiAl Layered Double Oxide/Sulfide Composites as Advanced Electrode for High-performance Asymmetric Supercapacitor", **Journal of Materials Chemistry A**, 5, 19687-19696 (2017). <http://pubs.rsc.org/en/Content/ArticleLanding/2017/TA/C7TA06119F#!divAbstract>
9. Shude Liu, K.S. Hui*, **N. Hui***, Hai-Feng Li, Kar Wei Ng, Jincheng Xu, Zikang Tang and Seong Chan Jun*, "Asymmetric Supercapacitor with Excellent Cycling Performance Realized by Hierarchical Porous NiGa₂O₄ Nanosheets", **Journal of Materials Chemistry A**, 5, 19046-19053 (2017). <http://pubs.rsc.org/en/content/articlelanding/2017/ta/c7ta05493a#!divAbstract>
10. Shuxing Wu, K.S. Hui*, **N. Hui*** and Kwang Ho Kim*, "Ultrathin porous NiO nanoflake arrays on nickel foam as advanced electrode for high performance asymmetric supercapacitors", **Journal of Materials Chemistry A**, 4, 9113-9123 (2016). <http://pubs.rsc.org/en/content/articlelanding/2016/ta/c6ta02005d#!divAbstract>
11. Shude Liu, K.S. Hui*, **N. Hui***, Je Moon Yun and Kwang Ho Kim, "Vertically Stacked Bilayer CuCo₂O₄/MnCo₂O₄ Heterostructures on Functionalized Graphite Paper for High-Performance Electrochemical Capacitors", **Journal of Materials Chemistry A**, 4, 8061-8071 (2016). <http://pubs.rsc.org/en/content/articlelanding/2016/ta/c6ta00960c#!divAbstract>
12. X. Xia, K.S. Hui, **K.N. Hui***, S.D. Kim, J.H. Lim, S.Y. Choi, L.J. Zhang, Rajaram S. Mane, J.M. Yun and K.H. Kim*, "Facile Synthesis of Manganese Carbonate Quantum Dot/Ni (HCO₃)₂-MnCO₃ Composites as Advanced Cathode Materials for High Energy Density

Asymmetric Supercapacitors”, **Journal of Materials Chemistry A**, 3, 22102-22117
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