

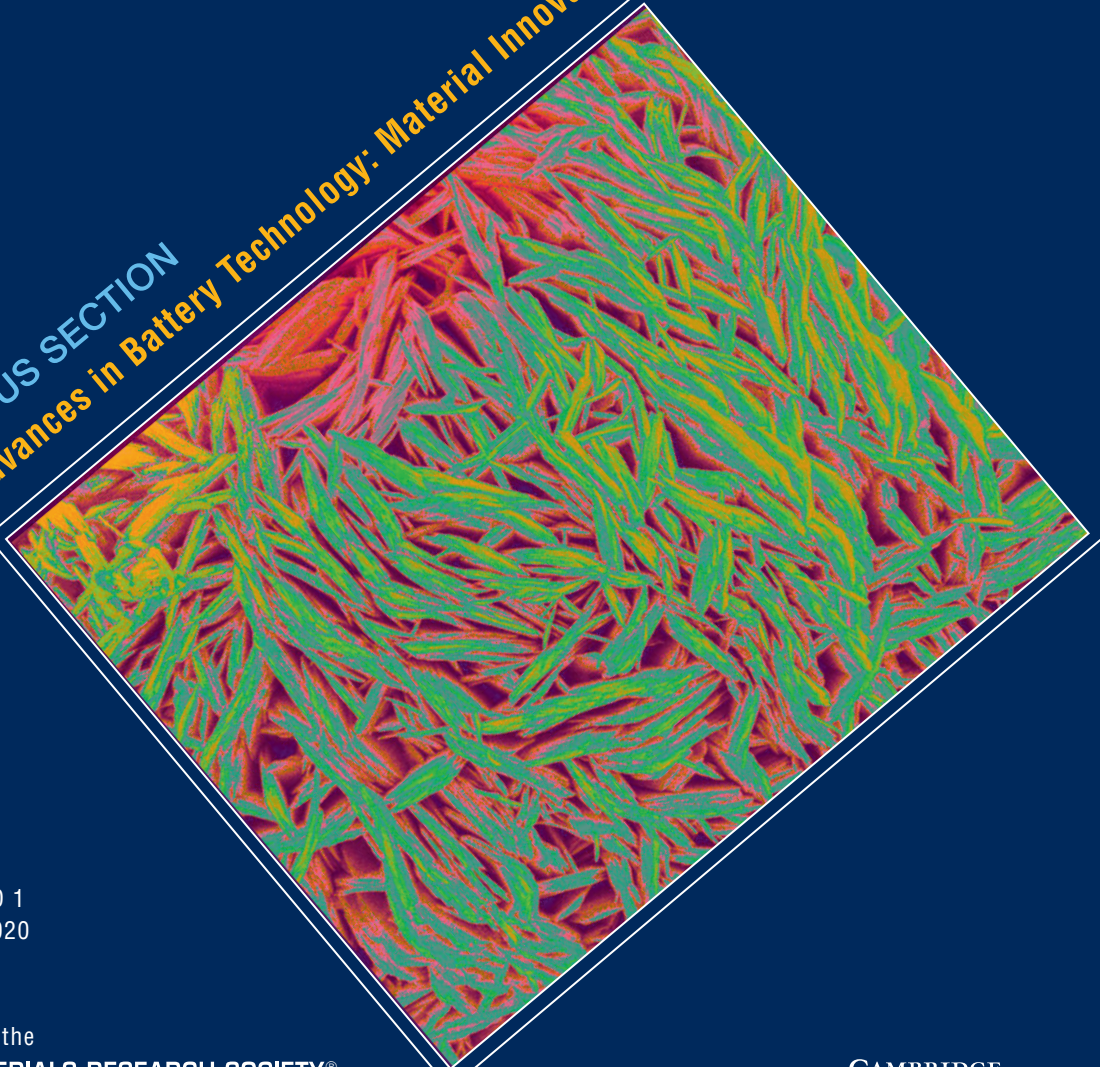


**jmr**

Journal of  
MATERIALS RESEARCH



**FOCUS SECTION**  
**Advances in Battery Technology: Material Innovations in Design and Fabrication**



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Cover: The morphology of Ni<sub>0.8</sub>Co<sub>0.1</sub>Mn<sub>0.1</sub>(OH)<sub>2</sub>. G. Yang, X. Gin, B. Wang, F. Cai, J. Gao. "Well-ordered spherical LiNi<sub>0.8</sub>Co<sub>0.1</sub>Mn<sub>0.1</sub>O<sub>2</sub> cathode material for lithium-ion batteries synthesized" [p. 51].

**ANNOUNCEMENT**

- 1 *Journal of Materials Research* announces appointment of Associate Editor of Polymeric Metals Gary Messing

**FOCUS SECTION: ADVANCES IN BATTERY TECHNOLOGY: MATERIAL INNOVATIONS IN DESIGN AND FABRICATION**

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- 12–19 N-doped carbon nanosheets as high-performance anodes for Li- and Na-ion batteries Aswathy K. Radhakrishnan, Shantikumar Nair, Dhamodaran Santhanagopalan

**ARTICLES**

- 20–30  $\text{SnO}_2$  nano-mulberries anchored onto RGO nanosheets for lithium ion batteries Feilong Gong, Mengmeng Liu, Lihua Gong, Dandan Li, Yu Li, Feng Li
- 31–41 Annealing of  $\text{LiCoO}_2$  films on flexible stainless steel for thin film lithium batteries Yibo Ma, Mu Chen, Yue Yan, Youxiu Wei, Weiming Liu, Xiaofeng Zhang, Jiaming Li, Ziyi Fu, Jiuyong Li, Xuan Zhang
- 42–50 Synergic effect of nanostructuring and excess  $\text{Mn}^{3+}$  content in the electrochemical performance of  $\text{Li}_4\text{Ti}_5\text{O}_{12}-\text{LiNi}_{0.5}\text{Mn}_{1.5}\text{O}_4$  Li-ion full-cells Anulekha K. Haridas, Adduru Jyothirmayi, Chandra S. Sharma, Tata N. Rao
- 51–57 Well-ordered spherical  $\text{LiNi}_{0.8}\text{Co}_{0.1}\text{Mn}_{0.1}\text{O}_2$  cathode material for lithium-ion batteries Gai Yang, Xianzhong Qin, Bo Wang, Feipeng Cai, Jian Gao

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**BIOMEDICAL MATERIALS, REGENERATIVE MEDICINE AND DRUG DELIVERY**

**ARTICLE**

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**2D AND NANOMATERIALS**

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- 98–111 **Evolution of Nb oxide nanoprecipitates in Cu during reactive mechanical alloying** Qun Li, Xuekun Shang, Blanka Janicek, Pinshane Y. Huang, Pascal Bellon, Robert S. Averback