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Energy Advances

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IN THIS ISSUE

ISSN 2753–1457 CODEN EANDBJ 4(1) 1–178 (2025)

Cover
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EDITORIAL

8

Reflecting on another successful year of *Energy Advances*

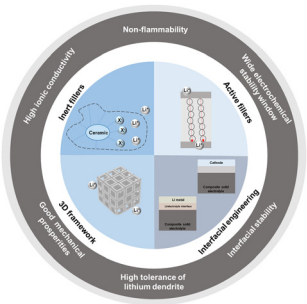
Volker Presser

REVIEWS

11

Composite solid-state electrolytes for all solid-state lithium batteries: progress, challenges and outlook

Senhao Wang, Andrea La Monaca and George P. Demopoulos*



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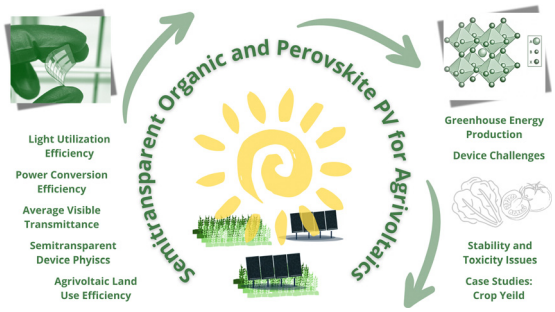
REVIEWS

37

Semitransparent organic and perovskite photovoltaics for agrivoltaic applications

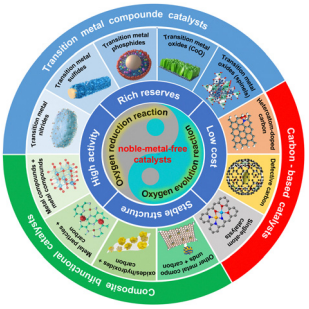
Souk Y. Kim, Noura Rayes, Armen R. Kemanian, Enrique D. Gomez and Nutifafa Y. Doumon*



55

Recent advances in noble-metal-free bifunctional oxygen electrode catalysts

Hengqi Liu, Rui Xiong, Shengyu Ma, Ran Wang, Zhiguo Liu, Tai Yao and Bo Song*

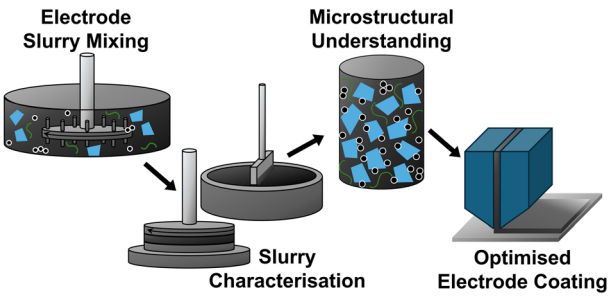


PERSPECTIVE

84

Battery electrode slurry rheology and its impact on manufacturing

Carl D. Reynolds,* Helen Walker, Ameir Mahgoub, Ebenezer Adebayo and Emma Kendrick

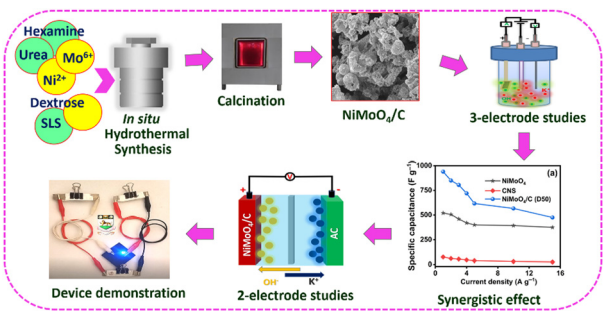


PAPERS

94

Rational design of $NiMoO_4$/carbon nanocomposites for high-performance supercapacitors: an *in situ* carbon incorporation approach

Raji Yuvaraja, Sankar Sarathkumar, Venkatesan Gowsalya, Sorna Pandian Anitha Juliet, Selvakumar Veeralakshmi, Siva Kalaiselvam, Gunniya Hariyanandam Gunasekar and Selvan Nehru*



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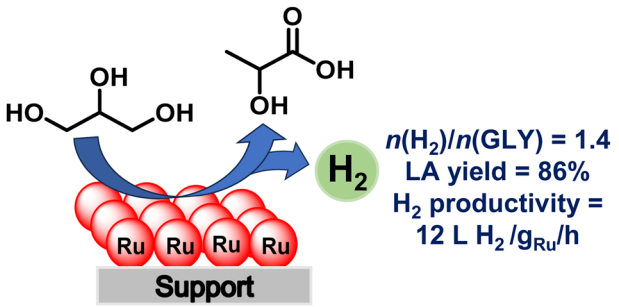
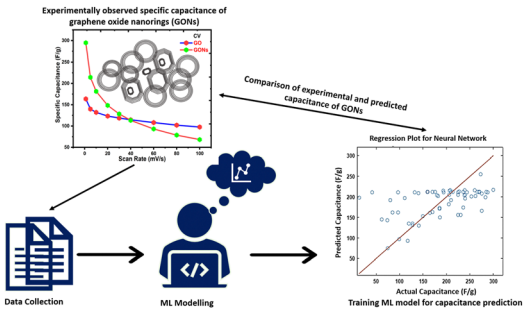
106



Supported ruthenium catalysts for the transformation of aqueous glycerol to hydrogen gas and lactic acid

Ankit Kumar, Bhanu Priya, Rohit Kumar Rai, Parveen Garg, Uday Deshpande and Sanjay Kumar Singh*

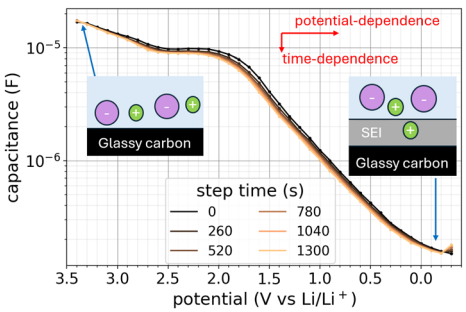
119



A machine learning approach for estimating supercapacitor performance of graphene oxide nano-ring based electrode materials

Gaurav Kumar Yogesh, Debabrata Nandi, Rungsima Yeetsorn, Waritnan Wanchan, Chandni Devi, Ravi Pratap Singh, Aditya Vasistha, Mukesh Kumar, Pankaj Koinkar* and Kamlesh Yadav*

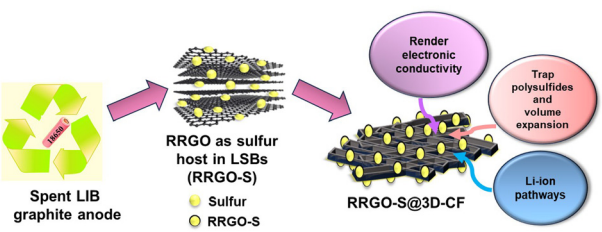
140



Double layer capacitance as a sensitive metric to monitor the formation of solid electrolyte interphases in Li–ion batteries

Maximilian Schalenbach,* Baolin Wu, Chih-Long Tsai, Anna Windmüller, Luc Raijmakers, Shicheng Yu, Hermann Tempel and Rüdiger-A. Eichel

152



Reduced graphene oxide derived from the spent graphite anodes as a sulfur host in lithium–sulfur batteries

J. Priscilla Grace, Y. Kaliprasad and Surendra K. Martha*

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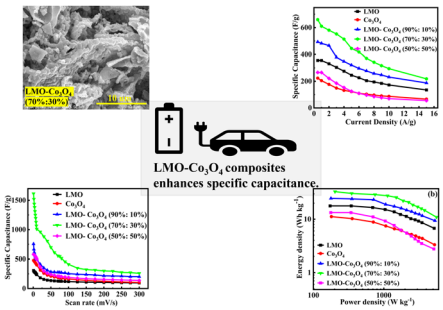
162

Synergetic effect towards high electrochemical performance in $LaMnO_3$–Co_3O_4 composites

Alisha Dhakal,* Felio A. Perez and Sanjay R. Mishra*



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