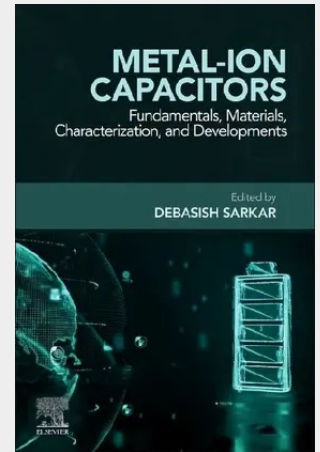


Metal-Ion Capacitors

Fundamentals, Materials, Characterization, and Developments

Metal-ion capacitors based on monovalent and multivalent ions show great potential to replace existing battery materials in fields where both high energy and high power densities are simultaneously required. Metal-ion Capacitors: Fundamentals, Materials, Characterization, and Developments provides a comprehensive understanding of this cutting-edge energy storage technology, exploring the underlying principles, materials, and design considerations. The book offers practical guidance, including fabrication techniques, design strategies, and characterization methods, enabling readers to implement technological advancements effectively. It explores diverse applications of metal-ion capacitors across industries such as renewable energy, electric vehicles, and consumer electronics, fostering the development of more sustainable and efficient energy solutions. The book will empower researchers, engineers, and students alike with the expertise needed to develop and optimize metal-ion capacitor technology for various applications.

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205,50 €

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*vorbestellbar, Erscheinungstermin ca.
September 2026*

Artikelnummer: 9780443275326

Medium: Buch

ISBN: 978-0-443-27532-6

Verlag: Elsevier Science

Erscheinungstermin: 01.09.2026

Sprache(n): Englisch

Auflage: Erscheinungsjahr 2026

Produktform: Kartoniert

Gewicht: 450 g

Seiten: 350

Format (B x H): 152 x 229 mm

