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Nota di contenuto	1. Processing of hybrid polymer composites : a review / Mohammad Asim [and five others] -- 2. Bio-based hybrid polymer composites : a sustainable high performance material / Mohamed Bassyouni, Umair Javaid and Syed W. ul Hasan -- 3. Water soluble polymer based hybrid nanocomposites / Johnsy George, S.N. Sabapathi and Siddaramaiah -- 4. Dynamic fabrication of amylosic supramolecular composites in an enzymatic polymerization field / Jun-ichi Kadokawa -- 5. Advanced composites with strengthened nanostructured interface / Mohit Sharma, Himani Sharma and Santiranjan Shannigrahi -- 6. Hybrid ceramic/polymer composites for bone tissue regeneration / Daniela Iannazzo [and three others] -- 7. Natural and synthetic fillers for reaching high performance and sustainable hybrid polymer composites / Daniela de Franca da Silva Freitas, Sibebe P. Cestari and Luis C. Mendes -- 8. Synthesis of conducting polymer/carbon material composites and their application in electrical energy storage / Atsushi Gabe [and four others] -- 9. Electrochemical behaviour of graphene and carbon nanotubes based hybrid polymer composites / Saptarshi Dhibar -- 10. Processing of ferroelectric polymer composites / Muklesur Rahman and Prabir K. Mukherjee -- 11. Polymer-carbon nanotubes composites obtained via radical polymerization in water-dispersed media / Dan Donescu [and three others] -- 12. Temperature effect in polyurethane/graphene/PMMA nanocomposites using

quantum mechanics and Monte Carlo for design of new materials / Norma-Aurea Rangel-Vazquez [and three others] -- 13. Polymeric thin film composite membrane for CO₂ separation / Kar Chun Wong, Pei Sean Goh and Ahamad Fauzi Esmail.

Sommario/riassunto

This book presents the latest on these composite materials that can best be described as materials that are comprised of synthetic polymers and biological/inorganic/organic derived constituents.
