

Content A

PART A Nanoscience and Nanotechnology		
Stefano Bellucci	Guest editor preface for the issue dedicated to the INFN-LNF conference on nanoscience and nanotechnology	7
A Maffucci, G Miano	A general frame for modeling the electrical propagation along graphene nanoribbons, carbon nanotubes and metal nanowires	8
S V Boroznin, E V Boroznina, I V Zaporotskova, O A Davletova, N P Polikarpova	Research into boron-carbon nanotube modified by alkaline metal atoms	15
I V Zaporotskova, A A Krutoyarov, N P Polikarpova	Adsorption of polyethylene, polypropylene, polyvinyl chloride monomer units on the single-walled carbon nanotube surface	19
I V Zaporotskova, R V Shinkarev	Superfine drug-eluting polyvinylpyrrolidone based coating for biliary stents	23
M D'Acunto, A Cricenti, M Luce, S Dinarelli	Theory of near-field detection of core-gold nanoshells inside biosystems	29
Yu Shunin, S Bellucci, Yu Zhukovskii, V Gopeyenko, N Burlutskaya, T Lobanova-Shunina	Nanocarbon electromagnetics in CNT-, GNR- and aerogel-based nanodevices: models and simulations	35
Authors' Index		43
Cumulative Index		44

