1. Record Nr. UNINA9910647213803321

Titolo	Advances in Nanogels / / edited by Chien-Chi Lin, Emanuele Mauri, Filippo Rossi
Pubbl/distr/stampa	[Place of publication not identified] : , : MDPI - Multidisciplinary Digital Publishing Institute, , 2023
ISBN	3-0365-6421-7
Descrizione fisica	1 online resource (172 pages)
Disciplina	660.294513
Soggetti	Nanogels
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	About the Editors vii -- Preface to "Advances in Nanogels" . ix -- Chien-Chi Lin, Emanuele Mauri and Filippo Rossi Editorial on the Special Issue "Advances in Nanogels" Reprinted from: Gels 2022, 8, 835, doi:10.3390/gels8120835 1 -- Emanuele Mauri, Sara Maria Giannitelli, Marcella Trombetta and Alberto Rainer Synthesis of Nanogels: Current Trends and Future Outlook Reprinted from: Gels 2021, 7, 36, doi:10.3390/gels7020036 . 3 -- Brielle Stawicki, Tyler Schacher and Hyunah Cho Nanogels as a Versatile Drug Delivery System for Brain Cancer Reprinted from: Gels 2021, 7, 63, doi:10.3390 /gels7020063 . 27 -- Simona Campora, Reham Mohsen, Daniel Passaro, Howida Samir, Hesham Ashraf, Saif El-Din Al-Mofty, et al. Functionalized Poly(N-isopropylacrylamide)-Based Microgels in Tumor Targeting and Drug Delivery Reprinted from: Gels 2021, 7, 203, doi: 10.3390/gels7040203 43 -- Abdul Qadir, Samreen Jahan, Mohd Aqil, Musarrat Husain Warsi, Nabil A. Alhakamy, Mohamed A. Alfaleh, et al. Phytochemical-Based Nano-Pharmacotherapeutics for Management of Burn Wound Healing Reprinted from: Gels 2021, 7, 209, doi:10.3390 /gels7040209 61 -- Tisana Kaewruethai, Chavee Laomeephol, Yue Pan and Jittima Amie Luckanagul Multifunctional Polymeric Nanogels for Biomedical Applications Reprinted from: Gels 2021, 7, 228, doi: 10.3390/gels7040228 81v Shadab Md, Nabil A. Alhakamy, Thikryat Neamatallah, Samah Alshehri, Md Ali Mujtaba, Yassine Riadi, et al. Development, Characterization, and Evaluation of -Mangostin-Loaded

Polymeric Nanoparticle Gel for Topical Therapy in Skin Cancer Reprinted from: Gels 2021, 7, 230, doi:10.3390/gels7040230 99 -- Gaurav Kant Saraogi, Siddharth Tholiya, Yachana Mishra, Vijay Mishra, Aqel Albutti, Pallavi Nayak and Murtaza M. Tambuwala Formulation Development and Evaluation of Pravastatin-Loaded Nanogel for Hyperlipidemia Management Reprinted from: Gels 2022, 8, 81, doi: 10.3390/gels8020081 . 125 -- Fran¸coise Chuburu, Volodymyr Malystkyi, Juliette Moreau, Mait´e Callewaert, C ´eline Henoumont, Cyril Cadiou, et al. Synthesis and Characterization of Conjugated Hyaluronic Acids. Application to Stability Studies of Chitosan-Hyaluronic Acid Nanogels Based on Fluorescence Resonance Energy Transfer Reprinted from: Gels 2022, 8, 182, doi:10.3390/gels8030182 141.

Sommario/riassunto

In the last two decades, nanogels have emerged as very promising and versatile biomaterials suitable for a wide range of applications. Their features, such as large surface areas, the ability to hold molecules, flexibility in their size and their water-based formulations, have earned them great recognition as drug delivery systems for various in vivo applications, confirming their potential. On the other hand, because of their tuneable and versatile characteristics, nanogels have been investigated in recent years for applications in various fields other than biomedicine. In view of this variety of possible applications of nanogels, in this Special Issue, we extend our knowledge on the topic of their possible uses described in literature, taking stock of the state-of-the-art for all possible nanogel applications and their synthesis methods.