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Titolo	Current neuropharmacology
Pubbl/distr/stampa	Sharjah, U.A.E. ; ; San Francisco, CA, : Bentham Science Publishers
ISSN	1875-6190
Descrizione fisica	1 online resource
Soggetti	Neuropharmacology Central nervous system - Effect of drugs on Central Nervous System Agents - pharmacology Periodical Periodicals.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Periodico
Note generali	Refereed/Peer-reviewed

2. Record Nr. UNINA9910729792803321

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Titolo	Broadband Terahertz Devices and Communication Technologies / / Lu Zhang, Xiaodan Pang, Prakash Pitchappa
Pubbl/distr/stampa	Basel : , : MDPI - Multidisciplinary Digital Publishing Institute, , 2023
Descrizione fisica	1 online resource (180 pages)
Disciplina	808.00285
Soggetti	Communication and technology
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Sommario/riassunto	The remarkable explosion of wireless devices and bandwidth-consuming Internet applications has boosted the demand for wireless communications with ultra-high data rates. The wireless traffic volume is foreseen to match or even surpass the wired services by 2030, and high-precision wireless services will need to be guaranteed with a peak data rate of well beyond 100 Gbit/s, eventually reaching 1 Tbit/s. To meet the exponentially increasing traffic demand, new regions in the radio spectrum are being explored. The terahertz band, which is sandwiched between microwave frequencies and optical frequencies, is considered the next breakthrough point to revolutionize communication technology due to its rich spectrum resources. It is recognized as a promising candidate for future rate-greedy applications, such as 6G communications. At the World Radio Communication Conference 2019 (WRC-19), it was announced that the identification of frequency bands in the frequency range of 275 GHz-450 GHz is permitted for land-mobile and fixed service applications, indicating potential standardization of the low-frequency window of terahertz band for near-future wireless communications. Motivated by the potential of terahertz wireless communications, this reprint reports on recent critical technological breakthroughs in terms of broadband terahertz devices and communications, as well as novel technologies at other frequency bands that can also motivate terahertz research.