

Publications (Apr.2011 - Mar. 2012)

1. H. Hoshina, Y. Morisawa, H. Sato, H. Minamide, I. Noda, Y. Ozaki, C. Otani, "Polarization and temperature dependent spectra of poly(3-hydroxyalkanoate)s measured at terahertz frequencies" Physical Chemistry Chemical Physics Vol.13 20 pp9173-9179 (2011).
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6. M. Yamashita, C. Otani, H. Okuzaki, M. Shimizu, "Nondestructive measurement of carrier mobility in conductive polymer PEDOT:PSS using terahertz and infrared spectroscopy" Proceeding of XXX URSI General Assembly and Scientific Symposium of International Union of Radio Science (URSI-GASS 2011) Istanbul Turkey 2011 8 URSI-GASS 2011 Turkey Istanbul ppDAF2.3-1-DAF2.3-4 (2011).
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9. M. Yamashita, C. Otani, H. Okuzaki, M. Shimizu, "Carrier transport in conducting polymer PEDOT:PSS thin films investigated by THz-TDS and broadband reflectance spectroscopy" Proceedings of 36th International Conference on Infrared, Millimeter and Terahertz Waves(IRMMW-THz 2011) Houston USA 2011 10 IRMMW-THz 2011 USA Houston ppM5.247-1 (2011).
10. H. Hoshina, S. Ishii, Y. Morisawa, H. Sato, I. Noda, Y. Ozaki, C. Otani, "Isothermal crystallization of poly(3-hydroxybutyrate) studied by terahertz two-dimensional correlation spectroscopy" Proceedings of 36th International Conference on Infrared, Millimeter and Terahertz Waves(IRMMW-THz 2011) Houston USA 2011 10 IRMMW-THz USA Houston ppF2D.37-1 (2011).
11. H. Hoshina, Y. Morisawa, S. Ishii, H. Sato, I. Noda, Y. Ozaki, C. Otani, "Terahertz Spectroscopy of Poly(3-Hydroxyalkanoate)s" 2011 Annual Report Conference on Electrical Insulation and Dielectric Phenomena (CEIDP) Cancun Mexico 2011 10 IEEE Mexico Cancun pp195-198 (2011).
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- 16. S. Ariyoshi, K. Takahashi, T. Hamao, T. Noguchi, T. Taino, M. Kurakado, K. Koga, N. Furukawa, C. Otani, "Two Topics on Superconducting Tunnel Junctions: Terahertz Detector and Single-crystal Fabrication" 6th East Asia Symposium on Superconductor Electronics (EASSE2011) Yonezawa Japan 2011 10 Yamagata University Japan Yonezawa pp332457-1 (2011).
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 - 19. 佐々木 芳彰, 須賀 真之, 湯浅 哲也, 春日 博, 大森 整, 大谷 知行, "位相シフト干渉法を用いたテラヘルツ 3 次元イメージング" 信学技報 Vol. ED2011-109(2011-12) pp51-56 (2011).
 - 20. K. Uematsu, K. Maki, C. Otani, "THz beam steering using femtosecond laser interference technique" Proceedings of 36th International Conference on Infrared, Millimeter and Terahertz Waves(IRMMW-THz 2011) Houston USA 2011 10 IRMMW-THz 2011 USA Houston ppTh5.44-1 (2011).
 - 21. 山下 将嗣, "テラヘルツ及び赤外一紫外分光法を用いた PEDOT:PSS キャリア輸送特性の非破壊評価 " PEDOT の材料物性とデバイス応用 pp206-213 (2012)

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- 2. C. Otani, H. Hoshina, Y. Sasaki, A. Hayashi, "Non-destructive inspection of illicit drugs and hazardous substances in mails using terahertz waves", IUPAC International Congress on Analytical Sciences 2011 (ICAS 2011), JAIMA Special Session 'The State-of-the-Art Analytical Technology that supports Safety and Security', Kyoto, Japan, May(2011).
- 3. H. Hoshina, "Conformational change of polymer samples studied by terahertz spectroscopy", 15th East Asian Workshop on Chemical Dynamics, Pohang, Korea, May(2011).
- 4. 保科 宏道, "テラヘルツ分光で見る高分子の高次構造", 理研シンポジウム「第 12 回理研・分子研合同シンポジウム：エクストリームフォトニクス研究」, 和光, 日本, 6 月(2011).
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- 6. H. Hoshina, "Vibrational Spectroscopy of Polymers in Terahertz Frequency Region", MATRIX2011 Research of Chemistry and Physics of Matrix Isolated Species, Vancouver, Canada, July(2011).
- 7. M. Yamashita, C. Otani, H. Okuzaki, M. Shimizu, "Nondestructive measurement of carrier mobility in conductive polymer PEDOT:PSS using terahertz and infrared spectroscopy", XXX URSI General Assembly and Scientific Symposium of International Union of Radio Science (URSI-GASS 2011), Istanbul, Turkey August(2011).
- 8. 大谷 知行, 佐々木 芳彰, 宮丸 文章, 春日 博, 大森 整, "先端加工技術で拓くテラヘルツ研究と応用", 理研シンポジウム「先進もの作り技術によるアライザーキーポーネント開発基盤の構築状況」, 和光, 日本, 8 月(2011).
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- 10. C. Otani, "Terahertz sensing and imaging using superconducting detectors" 6th East Asia Symposium on Superconductor Electronics (EASSE 2011), Yonezawa, Japan, October(2011).
 - 11. C. Otani, H. Hoshina, M. Yamashita, "Terahertz spectroscopy of soft materials", Joint Conference for International Symposium on Terahertz Nanoscience (TeraNano 2011) and Workshop of International Terahertz Research Network (GDR-I THz 2011), Osaka, Japan, November(2011).
 - 12. 二川 清, 山下 将嗣, 松本 徹, 三浦 克介, 御堂 善博, 中前 幸治, "レーザ SQUID 顕微鏡、レーザテラヘルツ放射顕微鏡、関連シミュレーションの統合的/選択的利用", 電子情報通信学会信頼性研究会, 高知, 日本, 5月(2011).
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 - 14. 山下 将嗣, "テラヘルツ波を用いた集積回路計測及び導電性高分子のキャリア輸送特性評価", 名古屋産業振興公社技術講演会「テラヘルツ波の産業応用」, 名古屋, 日本, 11月(2011).
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