



[Mechanical Engineering](#) > YOSHIDA Masashi



YOSHIDA Masashi

Organization	Mechanical Engineering
Position	Professor
Academic Title	Ph.D.
Research Fields	Non-Destructive Evaluation, Super Conductor, New Materials

<< Research Subjects >>

1. [Mechanical Properties of Composite Materials](#)
2. [Non-Destructive Evaluation by Ultra Sonic](#)
3. [New Materials](#)

<< Academic Activities >>

Papers and Notes

1. M. Yoshida and T. Yumitate: "Mechanical Properties of TiB₂-Al₃Ti and TiB₂-(Al,Ni)3Ti Composites", Mater. Trans. Vol.53, No.11, pp.1933-1937 (2012).
2. M.Yoshida: "Influence of Sintering Temperature on the Microstructure of TiB₂ Sintered with Al₃Ti Additive", Mater. Trans. Vol.53, No.7, pp.1648-1651 (2012).
3. M.Yoshida and T.Asano: "A new method to measure the oxide layer thickness of steels" Journal of Nondestructive Evaluation 22, pp11-21 (2003)
4. H.Nishida, H.Yamaguchi and M.Yoshida : "Use of Electromagnetic Acoustic Resonance Method to Detect Micro-Voids Via Evaluation of Ultrasonic Wave Attenuation Coefficient of SUS304 Steel Fabricated by Hot Isostatic Press" JSME International Journal A 44, pp8-16 (2001)
5. M.Yoshida, A.Seki, Y.Shirai and T.Ohmi : "Passivation of Stainless Steel by \square -Al₂O₃ Films Resistant to Ozonized Water" J.Vacuum Sci. Technol. A 17 pp1059-1065 (1999)
6. T.Ohmi, M.Yoshida, Y.Matsudaira, Y. Shirai, O.Nakamura, M. Gozyuki and Y.Hashimoto : "Development of a stainless steel tube resistant to corrosive Cl₂ gas for use in semiconductor manufacturing" J. Vac. Sci. Technol. B 16 pp2789-2795 (1998)
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8. M.Yoshida."Melt State of Bi₂SrxCa_{3-x}Cu₂O_z with 1.5
9. M.Yoshida and A.Endo : "Crystal Growth of Bi₂212 in the Sr-Enriched, Ca-Reduced Compositional Range" J. Supercond. 7 pp87-89 (1994)
10. M.Yoshida , A.Endo and N. Hara : "Fablication of Two Tesla Magnet Using Bi₂212 Ag-Sheathed Tapes" Jpn. J. Appl. Phys.33, ppL421-L423 (1994)
11. M.Yoshida and A.Endo : "Improvement of J_c of Ag-Sheathed Bi₂212 Tapes Using Melt Growth Technique under Reduced Oxygen Partial Pressure" Jpn. J. Appl. Phys.32 ppL1509-L1512 (1993)
12. H. Sato, T. Ido, S.Uchida, S.Tajima, M.Yoshida, K.Tanabe, K.Tatsuhaba and N. Miura : "Superconducting and Normal States of Ba_{1-x}K_xBiO₃ Studied with Use of High-Quality Thin Films" Phys. Rev. B48, pp6617-6625 (1993)
13. S.Tajima, Y.Mizuo, M.Yoshida, T.Wada, Y.Yaqegashi, T.Takata, M.Kagiya, N.Koshizuka, H.Yamauchi, K.Tamasaku and S.Uchida : "Optical Study of the Superconductor- nonsuperconductor Transition in (L₁,Ce)₂(Ba,L₂)₂ Cu 3O_{8+z}(L₁ and L₂=Rare Earths)" Phys. Rev. B47, pp12126-12133 (1993)
14. S.Gotoh, N.Koshizuka, M.Yoshida, H. Fujimoto, M. Murakami, H. Izumi and K. Ohata : "Direct Observation of Magnetic Flux Behavior in High-T_c Oxide Superconductors" IEEE Translation J. on Magn. in Japan, 7, pp525-532 (1992)
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 19. M.Murakami, M.Yoshida, H.Fujimoto, S.Gotoh, N.Koshizuka and S.Tanaka:"Detection of Oxygen Deficient Regions in YBa₂Cu₃O_x Superconductors by Polarized Optical Microscopy" Jpn. J. Appl. Phys. 30, ppL796-L797 (1991)
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 22. M.Yoshida, S.Tajima, Y.Mizuo, T.Wada, Y.Yaegashi, A.Ichinose, H.Yamauchi, N.Koshizuka and S.Tanaka: "Raman Scattering Spectra of (Sm_{2/3}Ce_{1/3})₂(Ba_{2/3}Sm_{1/3})₂Cu₃O₉" J. Phys. Soc. Jpn. 60 pp1204-1207 (1991)
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 24. S.Gotoh, N.Koshizuka, M.Yoshida, M.Murakami and S.Tanaka:"Direct Observation of Flux Behavior in High-Tc Oxide Superconductors Using the Faraday Effect of Iron Garnet Films" Jpn. J. Appl. Phys. 29 ppL1083-L1085 (1990)
 25. M.Yoshida, N.Koshizuka and S.Tanaka: "Magnon-Scattering Spectra of PrBa₂Cu₃O₆, PrBa₂Cu₃O₇, NdBa₂Cu₃O₆ and Nd_{1.6}Ba_{1.4}Cu₃O_{7.3}" Phys. Rev. B42 pp8760-8763 (1990)
 26. M.Yoshida, S.Gotoh, T. Takata, N.Koshizuka and S.Tanaka: "Phonon Raman Scattering of NdBa₂Cu₃O_y and Nd_{1.6}Ba_{1.4}Cu₃O_y" Phys. Rev. B41 pp11689-11692 (1990)
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 32. N.Ohno, M.Yoshida, K.Nakamura and Y.Nakai: "Multiple LO Phonon Scattering in Indium Iodide" Solid State Commun. 53 pp569-572 (1985)
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 38. K.Nakamura, N.Ohno and M.Yoshida: "Scattering Spectra of Orthorhombic Indium Bromide under Resonant Excitation" Solid State Commun. 36 pp211-214 (1980)
 39. N.Ohno, M.Yoshida, K.Nakamura and Y.Nakai: "Resonant Raman Scattering and Luminescence in Indium Iodides"J. Phys. Soc. Jpn. 49, pp1391-1398 (1980)

Books

1. M. Yoshida: "Excitons in Indium Halides" Thesis (Kyoto University, 1984)

Presentations

1. T.Yumitate, S.Ikenaga, M.Yoshida, "Effects of the Addition of Al₃Ti on the Sintering of refractory TiB₂", The International Scientific and Technical Conference; Up-to-dates Materials Science and Nanotechnologies, Komsomolsk, Russia, pp326-329., 2010
2. M. Yoshida, "Application of digital image correlation analysis to the study of plastic deformation of BCC iron polycrystals ". The International Scientific and Technical Conference; Up-to-dates Materials Science and Nanotechnologies, Komsomolsk, Russia, pp321-325., 2010
3. M.Yoshida, "Effects of Al₃Ti Addition on the Sintering of TiB₂ ", MRS 2010 Fall meeting, Boston, to be published in the MRS 2010 Fall meeting proceedings, 2010
4. M.Yoshida and M.Akiyama: "Meso-scale analysis of Strain Distribution in Poly-crystalline Metals Using Digital Image Correlation Analysis" Proc. 9th Int. Conf. on Computational Plasticity, Barcelona, Spain, pp358-361 (Sep. 5, 2007)
5. M.Yoshida and M.Akiyama: "Strain analysis of Microstructure by Direct Observation on Flat Surface of Metal" Proc. 8th Int. Conf. on Computational Plasticity, Barcelona, Spain, pp595-598 (Sep. 5, 2005)
6. M. Yoshida: "Microwave Properties of Bi₂₂₁₂ Thin Films Grown on MgO Single Crystals" Proceedings of the 9th International Symposium on Superconductivity, Sapporo, Japan, pp1117-1120 (Oct. 21, 1996)
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8. M.Yoshida: " Partial Melt State of Bi₂SrxCa_{3-x}Cu₂O_z with 1.5
9. M.Yoshida , A.Endo and N. Hara:"Fabrication of 2-Tesla Magnet Using Bi₂₂₁₂ Ag-Sheathed Tapes" Proceedings of the 6th International Symposium on Superconductivity, Hiroshima, Japan pp703-706 (Oct. 26, 1993)
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11. M. Yoshida: "Fabrications of Ag-Sheathed Y-Substituted Bi₂₂₁₂ Tapes" Proceedings of the 5th International Symposium on Superconductivity, Kobe, Japan, pp721-724 (Nov. 16, 1992)
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14. [M.Yoshida, S.Tajima, Y.Mizuo, T.Wada, Y.Yaqgashi, A.Ichinose and N.Koshizuka: " Phonons in \(Sm,Ce\)2\(Ba,Sm\)2Cu3Ox"](#) [Proceedings of the 3rd International Symposium on Superconductivity, Sendai, Japan](#), pp 215-218 (Nov. 6, 1990)
15. [Raman Scattering from Spin Fluctuations in Pr_{2-x}Ce_xCuO_{4-y}, Nd_{2-x}Ce_xCuO_{4-y} and Sm_{2-x}Ce_xCuO_{4-y}](#)
16. [S.Gotoh, N.Koshizuka, M.Yoshida, H.Fujimoto, and M.Murakami: "Dynamical Magnetic Flux Behavior in High-Tc Oxide Superconductors"](#) [Proceedings of the 3rd International Symposium on Superconductivity, Sendai, Japan](#), pp569-572 (Nov. 6, 1990)
17. [I.Tomeno, M.Yoshida, K.Ikeda, T.Takata, K.Tai and N.Koshizuka: "Optical Properties of Ln_{2-x}Ce_xCuO_{4-y}, \(Ln=Pr, Nd, and Sm\) Single Crystals"](#) [Proceedings of the 2nd International Symposium on Superconductivity, Tsukuba, Japan](#), pp577-580 (Nov. 14, 1989)
18. [M.Yoshida, S.Gotoh, T.Takata and N.Koshizuka: "Raman Scattering Spectra of NdBa₂Cu₃O_y Single Crystals"](#) [Proceedings of the 2nd International Symposium on Superconductivity, Tsukuba, Japan](#), pp581-584 (Nov. 14, 1989)
19. [M.Yoshida: "Characteristics in the Growth of the YBa₂Cu₃O_x and YBaSrCu₃O_x Crystalline Films"](#) [Proceedings of the 1st International Symposium on Superconductivity, Nagoya, Japan](#), pp615-620 (Aug. 28, 1988)
20. [M.Yoshida, H.Watanabe, N.Ohno, H.Mitsutake, K.Nakamura and Y.Nakai: "Multiple LO Phonon Scattering in Indium Bromide"](#) [Proceedings of the International Conference on Luminescence, Madison, USA](#), pp488-490 (Aug. 13, 1984)