

CURRICULUM VITAE

Professor Murakami, Ri-ichi

National Taiwan University of Science and Technology



○Education :

- 1972, March Department of Precision Mechanics, Faculty of Engineering, Tokushima University
- 1974, March Master Course of Precision Mechanics, Graduate school of Engineering, Tokushima University
- 1977, September Doctoral Course, Graduate school of Science and Engineering, Tokyo Institute of Technology

○Degree :

- Master of Engineering(Tokushima University) (1974, March)
- Doctor of Engineering(Tokyo Institute of Technology) (1977, September)

○Employment :

- 1977, 10 Assistant Professor Department of Precision Mechanics, Faculty of Engineering, Tokushima University, Japan
- 1982, 06 Lecturer, Department of Precision Mechanics, Faculty of Engineering, Tokushima University, Japan
- 1984, 03 Researcher, The University of Auckland, New Zealand
- 1987, 09 Associate Professor, Department of Precision Mechanics, Faculty of Engineering, Tokushima University, Japan
- 1991, 04 Full Professor, Department of Production Mechanical Engineering, College of Engineering, Tokushima University,

	Japan
1993, 10	Full Professor, Department of Mechanical Engineering, Faculty of Engineering, Tokushima University, Japan
2005, 10	Vice Director, International Collaboration Education Center, Tokushima University, Japan
2006, 04	Full Professor, Graduate School of Advanced Technology and Science, Tokushima University, Japan
2014, 03	Retirement Tokushima University
2014, 04	Professor, Department of Materials Science and Engineering, National Taiwan University of Science and Technology, Taiwan
Present	

Publication

1. Academic Research Paper

- 1) Jin-woo Lee, Soo-Jeong Park, Yun-hae Kim, Riichi Murakami, Thermal characteristics of carbon fiber reinforced epoxy containing multi-walled carbon nanotubes, *Results in Physics*, 9 (2018), 1-5.
- 2) Dongyan Zhang, Manipulation of Optical and Electrical Properties of ZnO Thin Films via Embedded Nano Structure, *International Journal of Modern Physics B*, Vol. 32, No. 19(2018), 1840039.
- 3) Aulia Fajrin, Wahyu Solafide, Ri-ichi Murakami, The Effects of Fiber Ply Orientation, Laminate Layer, and PLA Content on Mechanical Properties of Carbon Fiber Reinforced PLA Composites, SCOPUS, 2017 to be submitted.
- 4) Sipahutar Wahyu, Chang-Mou Wu, Ri-ichi Murakami and Mei-Hsiu Yao, Effect of the Water Absorption Behavior of Carbon Fiber/Bio Plastic Materials Composites on Mechanical Properties, Surface Fracture and Thermal Behavior, *Journal of Composites Structure*, (2017) to be submitted.
- 5) C. M. Wu, P. C. Lin and R. Murakami, Long-term creep behavior of self-reinforced PET composites, *eXPRESS Polymer Letters*, Vol. 11, No. 10(2017), 820-831.
- 6) Angaw Kelemework Abay, Molla Bahiru Gebeyehu, Hsieh Kun Lin, Po Chun Lin, Jiunn-Yih Lee, Chang-Mou Wu, Ri-Ichi Murakami, Tai-Chin Chiang, Preparation and characterization of poly(lactic acid)/recycled polypropylene blends with and without the coupling agent, n-(6-aminohexyl)aminomethyltriethoxysilane, *J Polym Res* (2016) 23:198.
- 7) Gebeyehu M, Chang Y, Abay A, Chang S, Lee J, Wu C, Chiang T, Murakami R, Fabrication and characterization of continuous silver nanofiber/polyvinylpyrrolidone (AgNF/PVP) core-shell nanofibers using the coaxial electrospinning process, *RSC Advances*, vol. 6, issue 59 (2016)
- 8) Jiunn-Yih Lee, Ching Hsiang Hsu, Chiang Luan Su, Ri-ichi Murakami, Chi-Wei Lin, Ching-Hsiang Lu, A Study on Activated Carbon Nanofibrous Adsorbents Prepared by Technology for Electrospun Composite Yarn, *FIBERS AND POLYMERS* 16(11):2437-2444 · NOVEMBER 2015.
- 9) Bo Wu, Linjie Zhang, JianXun Zhang, Ri-ichi Murakami, Young-Shik Pyoun, An investigation of ultrasonic Nanocrystal surface modification machining process by numerical simulation, *Advances in Engineering Software*, 83(2015), 59-69.

- 10) Dongyan Zhang and Ri-ichi Murakami, Effect of spacer layer on enhancement and quenching of photoluminescence by surface plasmon, *Modern Physics Letters B*, Vol. 29, Nos. 6&7 (2015), 1540034-1-5.
- 11) Pankaj M. Koinkar, Daisuke Yonekura, Ri-ichi Murakami, Toshiro Moriga and Mohendra A. More, Field electron emission characteristics of plasma treated carbon nanotubes, *Modern Physics Letters B*, Vol. 29, Nos. 6&7 (2015), 1540030-1-4.
- 12) B. Wu, J. Zhang, L. Zhang, Y. S. Pyoun, Ri-ichi Murakami, Effect of Ultrasonic Nanocrystal Surface Modification on surface and fatigue properties of quenching and tempering S45C steel, *Applied Surface Science*, 2014/11.
- 13) Daisuke Yonekura, Hiroshi Ushita, Yusuke Sakaguchi, Ri-ichi Murakami, Influence of Self-Assembly Condition on Film Formation, Optical and Electrical Properties of Gold Nano Network Film, *Journal of the Society of Material Science, Japan*, Vol. 63, No. 11, 2014, pp. 763-769.
- 14) C. Han, S. Yang, K. G. Chang, P. P. Wang, Ri-ichi Murakami and X. P. Song, *Journal of Materials Chemistry C*, 2014/10.
- 15) Ravil Kayumov, Young Sik Pyun, Chang Min Suh and Riichi Murakami, Mechanical and Fatigue Characteristics of Ti-6Al-4V Extra Low Interstitial and Solution-Treated and Annealed Alloys After Ultrasonic nanocrystal Surface Modification Treatment, *Journal of Nanoscience and Nanotechnology*, Vol. 12, No.12, 2014/12, pp.9430-9435.

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2. International Conference Paper

- 1) Ri-ichi Murakami, Chang Mou Wu, Sipatutar Wahyu and Mei Hsiu Yao, Effect of Water Absorption on Mechanical Properties of Carbon Fiber Reinforced Bioplastic Composites, PHENMA 2018, Physics and Mechanics of New Materials and Their Applications, Busan, South Korea.
- 2) Chang Mou Wu, Po-Chun Lin, Jieng-Chiang Chen, Ri-ichi Murakami, The Study of Stress Concentration of Self-reinforced PET Composites by Digital Image Correlation and Finite Element Method, PHENMA 2018, Physics and Mechanics of New Materials and Their Applications, Busan, South Korea.
- 3) Chala, Chang Mou Wu, Min Hui Chou, Zhen-Lin Guo, Ri-ichi Murakami, Melt Electrospun Reduced Tungsten oxide/Polylactic acid Fiber Membrane as photothermal Material for Solar-driven Interfacial Water Evaporation, Tolesa Fita, 15th International Conference on Nanoscience & Nanotechnologies, 3-6 July, 2018, Thessaloniki, Greece.
- 4) Chang-Mou Wu*, Min-Hui Chou, Tolesa Fita Chala, Ning-Ya Yu, Ri-ichi Murakami, Photothermally Activated Pyroelectric PVDF Generator for Noncontact Energy Harvesting, 11th International Conference on Advanced Nano Materials, 18-20 July, 2018, Aveiro, Portugal.
- 5) Ri-ichi Murakami, Effect of the Wetting Immersion on Mechanical properties of Carbon Fiber Reinforced Bioplastic Composites, 4th International Forum on Advanced Technologies March 8th -9th, 2018, Tokushima, Japan.
- 6) Ri-ichi Murakami, Introduction of Taiwan Tech and Summer School 2017 in NTUST, The 13th

International Symposium on Global Engineering Education, March 8, 2018, Tokushima, Japan.

- 7) Scientific Committee members: 2018 International Conference on “Physics and Mechanics of New Materials and Their Applications” and Exhibition (PHENMA 2018), 9-11 August, 2018, Busan, South Korea
- 8) Ri-ichi Murakami, Effect of Moisture on Mechanical Properties and Electric Magnetic Wave Shielding of Carbon Fiber Reinforced Bioplastic Composites, 2018 International Symposium on Novel and Sustainable Technology (2018 ISNST), October 4-5, 2018, Tainan, Taiwan.
- 9) Po-Chun Lin, Chang-Mou Wu, Po-Hsun Chen, Ri-ichi Murakami 以數位影像關聯量測技術探討全聚酯自增強複合材料之開孔應變集中效應, CTAM2017, Tainan, Taiwan, 2017.
- 10) Aulia Fajrin, Wahyu Solafide, Ri-ichi Murakami, Surface and Mechanical Properties of PLA Composites Reinforced by Carbon Fiber, The 3rd International Conference on Materials and Metallurgical Engineering and Technology (ICOMMET) 2017: Advancing Innovation in Materials Science, Technology and Applications for Sustainable Future, , 30-31 October, 2017, Surabaya, Indonesia.
- 11) Ri-ichi Murakami, Wu Bo, Young-Sik Pyun and Mei-Hsiu Yao, The effect of Ultrasonic Nanocrystal Surface Modification and Plasma Nitriding on Fatigue Strength of S45C Steel, Proceedings of International Conference on Materials Research and Technology, ICMRT-2017, July 10-11, 2017, P. 16, Delhi, India.
- 12) Dongyan Zhang and Ri-ichi Murakami, Manipulation of optical and electrical properties of ZnO thin films via embedded nano structure, Abstract Book AMDP 2017, 8th International Conference on Advanced Materials Development and Performance, 11-15 July, 2017, P. 3, Pune, India.
- 13) Ri-ichi Murakami, Wahyu Solafide, Aulia Fajrin and Mei-Hsiu Yao, Effect of Water Absorption on Mechanical Properties and Dimensional Stability of Carbon/Bio Plastic Materials Composites, Abstract Book AMDP 2017, 8th International Conference on Advanced Materials Development and Performance, 11-15 July, 2017, P. 216, Pune, India.
- 14) Ri-ichi Murakami, The Effect of Ultrasonic Nanocrystal Surface Modification and Plasma Nitriding on Fatigue Strength in Super Long-life Region for S45C Steel (Invited Speech), 2nd International Forum on Advanced Technologies, March 7-8, 2016, Tokushima, Japan.
- 15) Dongyan Zhang and Ri-ichi Murakami, Improvement of transparent and conducting properties of ZnO thin films by embedded metal nano-particles (Keynote address), International Conference on Functional Materials and Microwaves-(ICFMM-2015), December 28-30, 2015, pp.17-18, Aurangabad, India
- 16) Ri-ichi Murakami, Bo Wu and Young-Shik Pyoun, The Effect of Ultrasonic Nanocrystal Surface Modification and Plasma Nitriding on Fatigue Strength in Super Long Region for S45C steel (Invited Talk), 2015 International Symposium on Nano Science and Technology, October 30-31, 2015, p.11, Tainan, Taiwan.
- 17) Ri-ichi Murakami and Dongyan Zhang, Improvement of Transparent and Conducting Properties of ZnO Thin Films by Embedded Metal Nano-Particles, Proceedings of International Conference on Functional Materials and Microwaves-ICFMM-2015, December 28-30, p. 17-18, 2015, Aurangabad, India.
- 18) Ri-ichi Murakami, The Improvement of Optical Transmission and the Resistivity of ZnO/Ag/ZnO Multilayers Films (Invited speaker) IUMRS-ICEM 2014(June 10-14, 2014) , TWTC Nangang

Exhibition Hall, Taipei, Taiwan

- 19) Ri-ichi Murakami, Effect of spacer layer on enhancement and quenching of photoluminescence by surface plasmon (Plenary Speech), 7th International Conference on Advanced Materials Development & Performance(July 17th-20th, 2014), Korea Maritime and Ocean University, Busan, Korea).
- 20) Takahiro Himizu, Satoshi Fukui, Daisuke Yonekura, and Ri-ichi Murakami, Analysis of metal surface properties after plastic deformation using the atomic force microscope, 7th International Conference on Advanced Materials Development & Performance(July 17th-20th, 2014), Korea Maritime and Ocean University, Busan, Korea
- 21)Pankaj M. Koinkar, Daisuke Yonekura, Toshihiro Moriga, Ri-ichi Murakami and Mahendra A. More, Field electron emission characteristics of plasma treated carbon nanotubes (Invited Talk), 7th International Conference on Advanced Materials Development & Performance(July 17th-20th, 2014), Korea Maritime and Ocean University, Busan, Korea.
- 22) Ri-ichi Murakami, The Improvement of Optical Transmission and the Resistivity of ZnO/Ag/ZnO Multilayers Films, IUMRS-ICEM 2014(June 10-14, 2014) , TWTC Nangang Exhibition Hall, Taipei, Taiwan.
- 23) Ri-ichi Murakami, Effect of spacer layer on enhancement and quenching of photoluminescence by surface plasmon (Plenary Speech), 7th International Conference on Advanced Materials Development & Performance(July 17th-20th, 2014), Korea Maritime and Ocean University, Busan, Korea
- 24)Takahiro Himizu, Satoshi Fukui, Daisuke Yonekura, and Ri-ichi Murakami, Analysis of metal surface properties after plastic deformation using the atomic force microscope, 7th International Conference on Advanced Materials Development & Performance(July 17th-20th, 2014), Korea Maritime and Ocean University, Busan, Korea.
- 25) Pankaj M. Koinkar, Daisuke Yonekura, Toshihiro Moriga, Ri-ichi Murakami and Mahendra A. More, Field electron emission characteristics of plasma treated carbon nanotubes (Invited Talk), 7th International Conference on Advanced Materials Development & Performance(July 17th-20th, 2014), Korea Maritime and Ocean University, Busan, Korea.
- 26) Yoichiro Tashiro, Daisuke Yonekura and Ri-ichi Murakami, Influence of nitrogen pressure during TiN deposition process on photocatalytic properties of oxidized TiN film, 7th International Conference on Advanced Materials Development & Performance(July 17th-20th, 2014), Korea Maritime and Ocean University, Busan, Korea.
- 27)Daisuke Yonekura, Kohei Iida and Ri-ichi Murakami, Surface modification of medium carbon steel by electron beam alloying (Invited Talk). 7th International Conference on Advanced Materials Development & Performance(July 17th-20th, 2014), Korea Maritime and Ocean University, Busan, Korea.

- 28) Takashi Yonezawa, Daisuke Yonekura and Ri-ichi Murakami, Influence of surface roughness of steel plate on self-assembly behavior of silica particles. 7th International Conference on Advanced Materials Development & Performance (July 17th-20th, 2014), Korea Maritime and Ocean University, Busan, Korea.
- 29) Yusuke Sakaguchi, Daisuke Yonekura and Ri-ichi Murakami, Influence of concentration of gold nanoparticles solution on optical and electrical properties assembled films. 7th International Conference on Advanced Materials Development & Performance (July 17th-20th, 2014), Korea Maritime and Ocean University, Busan, Korea.
- 30) Ri-ichi Murakami, The effect of hybrid surface treatments of ultrasonic nanocrystal surface modification and plasma nitiding on the fatigue strength of super long-life region for S45C steel (Invited Speaker), 2014 SEM Fall Conference and International Symposium on Intensive Loading and Its Effects, October 19-22, 2014, Friendship Palace, Friendship Hotel, Beijing, China.

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3. Book

- 1) Pankaji Koinkar, Amit Kumar, Dinesh Kumar Avasthi, Mahendra More and Ri-ichi Murakami, The High Energy Ion Irradiation Impact on Carbon Nanotubes, Handbook of Polymer Nanocomposites. Processing, Performance and Application, Volume B: Carbon Nanotube Based Polymer Composites, Kamal K. Kar, Jitendra K. Pandey, Sravendra Rana Editors, Springer-Verlag Berlin Heidelberg, pp.1-12, 2015.
- 2) 村上理一, 熱可塑性CFRTP の疲労強度および引張強度に及ぼす因子, 技術情報協会, 自動車軽量化, pp.205-215, 2015年5月.
- 3) 村上理一, . 他35名, , 電波吸収体の技術と応用II, 株式会社シーエムシー出版, No.280, pp.189-193-189-193, 東京, 2008年1月.
- 4) 山口裕之, 石田三千雄, 村上理一, 宮田憲治, 山口修二, 村田貴信, , 科学技術と倫理, 株式会社ナカニシヤ出版, 京都, 2007年2月.
- 5) 村上理一, 金允海, 楠川量啓, 材料の強度と破壊と基礎, 西日本法規出版, 材料強度学入門, 2005年3月.
- 6) 村上理一, . 他59名, エレクトロニクス用カーボン技術大全集, 株式会社技術情報協会, pp.553-565, 東京, 2004年8月.
- 7) 橋本修, 村上理一, . 他34名, 次世代電波吸収体の技術と応用展開, 株式会社シーエムシー出版, 次世代電波吸収体の技術と応用展開, pp.189-194, 2003年2月.
- 8) 塩沢和章, 村上理一, . 他, 耐熱合金データベース構築委員会(委員長塩澤和章)編, 大阪科学技術センター附属ニューマテリアルセンター, CD-ROM版耐熱合金データベース, 大阪, 2001年1月.
- 9) 村上理一, 高尾健一, 萩山博之, 材料強度学入門, 西日本法規出版, 材料強度学入門, 1995年3月.
- 10) 西田新一, 村上理一 他, フラクトグラフィと破面解析集, 総合技術センター, 1988年2月.
- 11) 小寺沢良一, 村上理一, , 金属破断面写真集, テクノアイ出版, 金属破断面写真集, 1985年7月.