

HIDEYUKI KANEMATSU

A board member, Headquarter of National Institute of Technology (NIT, Japan) & Professor, NIT, Suzuka College,
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Researcher in Materials Science and Engineering –with focus in Surface Engineering & Biofilm Engineering

Ph.D (Nagoya Univ.1989), FIMF (A Fellow of IMF)

Birth: Nov 21,1957, Sakai, Osaka

Academic Background

1976	Graduation From Mikunigaoka High School
1981	A Bachelor of Engineering, Nagoya Univeristy (Materias Science And Engineering)
1983	A Master of Engineering, <u>Nagoya University</u> (Materias Science And Engineering)
1989	Ph.D, Nagoya University (Materials Science And Engineering)

Career Track

- 1986(April) Research Associate, Dept. MS & E, Faculty of Engineering, Nagoya University
- 1990(March) Research Associate, Dept. MS & E, Faculty of Engineering, Osaka University
- 1992(April) Research Associate, Dept. MS & E, Suzuka National College of Technology
- 1994(April) Assistant Professor, Dept. MS & E, Suzuka National College of Technology
- 1997(April) Associate Professor, Dept. MS & E, Suzuka National College of Technology
- 2007(April)- Full Professor, Dept. MS and E, Suzuka National College of Technology
- 2008 (Dec) A member of the expert committee for Grants-in-Aid for Scientific Research, Japan (till November, 2010)
- 2009(April) Director of Information Processing Center, Suzuka National College of Technology (concurrently) (till March, 2010)
- 2009(June) Visiting Professor of CAMP (Center for Advanced Materials Processing), Clarkson University (New York, USA)
- 2009(August) Visiting Professor of CEI (Creativity Engineering Institute), Yonsei University Complex (Seoul, Korea)
- 2010(April) Vice Director of Academic-Industrial Cooperation Center, Suzuka National College of Technology(till March, 2012)
- 2010(April) Dean of Dept. Materials Science and Engineering, Suzuka National
2014(April) College of Technology (Up to the present)
- 2014(Apr)-2018(March) Deputy President, National Institute of Technology, Suzuka College
- 2016(Apr)- A Board Member, Head Quarter of Research, Development, Academic Industrial Alliance, National Institute of Technology
- 2019(Apr)- Research Advisor of NIT, Suzuka College (2019-Present)

Awards/Competency

- Selected for inclusion in 5th Edition of Marquis Who's Who in Science and Engineering (1998 - 1999)
- Selected for inclusion in 18th Edition of Marquis Who's Who in the World (1999 -2000) MIMF(a Professional Member of Institute of Metal Finishing) (February, 2001)

- Wood Badge (Cub Scout Programme), Scout Association of Japan (May, 2002)
- Outstanding Achievement Award by American Chemical Society (August, 2002)
- President Award by Association of National Colleges of Technology, Japan (November, 2003)
- Educational Incentive Award by Suzuka National College of Technology (December, 2003)
- ChemLuminary Award (American Chemical Society: ACS) (August, 2004)
- Selected for inclusion in 9th Edition of Marquis Who's Who in Science and Engineering (2006 - 2007)
- Selected for inclusion in 1st Edition of Marquis Who's Who in Asia (2006 - 2007)
- Long Service Award for 20 years (Institute of National Colleges of Technology, Japan) (Nov 22, 2006)
- Selected for inclusion in 10th Edition of Marquis Who's Who in Science and Engineering (2008 - 2009)
- Second Place for the American Chemical Society's Chem-Luminary Award in Public Relations (8/2007)
- FIMF(a Fellow of Institute of Metal Finishing) (November, 2007) Leading Scientist of the World-2008 (I.B.C, UK, January, 2008)
- Great Mind of The 21st Century, 2007/2008 Edition (A.B.I: American Biographical Institute, USA, March 2008)
- Selected for inclusion in 34th edition of Dictionary of International Biography (International Biographical Centre, March 2008)
- Selected for Inclusion in 26th Edition of Marquis Who's Who in The World, 2009-2010
- Certificate of Participation in the NASA (National Aeronautics and Space Administration) Engineering Design Challenge. (USA, April 25, 2008)
- Selected for inclusion in 35th edition of Dictionary of International Biography (International Biographical Centre, 2010)
- Selected for inclusion in 36th edition of Dictionary of International Biography (International Biographical Centre, 2011)
- Selected for Inclusion in 2nd Edition of Marquis Who's Who in Asia 2012
- Best Reviewers Award (High Temperature Society: Currently Smart Processing Society for Materials, Environment and Energy) March, 2012
- Scientific Achievement Award (NASF: National Association for Surface Finishing, USA) June, 2012
- Selected for inclusion in 30th Edition of Marquis Who's Who in the World (2013)
- Selected for inclusion in 31st Edition of Marquis Who's Who in the World (2014)
- Selected for inclusion in 32nd Edition of Marquis Who's Who in the World (2015)
- Selected of inclusion in 33rd Edition of Marquis Who's Who in the World (2016)
- Molten Salt Award (The Molten Salt Committee, the Electrochemical Society of Japan, 2016)
- Selected of inclusion in 34th Edition of Marquis Who's Who in the World (2017)
- The 2017 Albert Nelson Marquis Lifetime Achievement Award (2017)
- The 2018 Albert Nelson Marquis Lifetime Achievement Award (2018)
- Testimonial for Key Note Lecture, KES (Knowledge- Based Intelligent Information & Engineering Systems) International 2018 held in Belgrade, Serbia.
- Selected of inclusion in 35th Edition of Marquis Who's Who in the World (2018)
- The 2019 Albert Nelson Marquis Lifetime Achievement Award (2019)
- Selected of inclusion in 36th Edition of Marquis Who's Who in the World (2019)
- Award for Excellence, National Institute of Technology (KOSEN) (2019)
- Outstanding Achievement Award, MRS Japan (2019)
- Selected of inclusion in 37th Edition of Marquis Who's Who in the World (2020)

Academic Activities

- Publication Committee Member of Institute of Metal Finishing, 2002.10-:Editorial Board Member of Japan Institute of Metals, 2003.4-2005.3
- Editorial Board Member of Tokai Kagaku Kougyoukai, 2001.4-2007.4
- Councilor of Surface Finishing Society of Japan, 2000.4-2002.3, 2004.4-2008.3, 2009.4-2011.3

- Councilor of Japan Society of Heat Treatment, 2001.4-2008.3, 2009.4-2011.3
- Board Member in Worldwide Web Branch (WIB) of NASF (California), 2005.7- Councilor of Tokai Branch for Japan Institute of Metals 2002.4-2004.3, 2006.4-2008.3
- Secretary of Central Japan Branch for Surface Finishing Society of Japan, 2000.4-2008.3
- Executive Board Member of Central Japan Branch For Japan Society of Heat Treatment, 1999.10-
- Board Member of NASF (National Association for Surface Finishing) Editorial Advisory Board 2007.8- Chairperson of the study group, "R & D for Antibacterial Environment, Well-Being Materials Based on HACCP", Aichi Science And Technology Foundation, 2008.5-2010.3
- Chairperson of the study group, "Research And Development of Environmental Risk Assessment/Reduction Technique for Metallic Materials", JST Innovation Plaza Tokai, 2008.9-2009.3
- Chairperson of the study group, "Research And Development of Environmental Friendly Technology for Plating Industries", Mie Industry and Enterprise Support Center, 2008.10- 2009.3
- Chairperson of the study group, "R & D for Biofouling on Metallic Materials and the Cross Reacting" (JST Innovation Plaza Tokai), 2009.10-2010.3
- Editorial Board Member for Journal of Environmental Control Technique, 2009.6-
- Review Committee Member of International Conference on Engineering Education and Research (ICEE/ICEER 2009 in Korea), 2009.8
- Chairperson of the voluntary ISIJ Forum (Iron and Steel Institute of Japan), "Environment Evaluation Forum of Iron And Steel Processing", 2010.3-2011.2
- A Secretary of Molten Salt Committee, The Electrochemical Society of Japan, 2011-2018
- Chairperson of the ISIJ forum (Iron and Steel Institute of Japan), "Environment Evaluation and Utilization Forum of Iron and Steel Processing", 2011-2016
- A Speciality Advisory Board member of WebmedCentral, 2012.2- A Specialty Editorial Board member of WebmedCentral, 2012.2- A Scholarly Reviewer of WebmedCentral, 2012.2-
- The organizer of Molten Symposium, the 79th meeting of Electrochemical Society, Japan. 2012-present
- An Advisory Board Member of WebmedCentral, 2012.8-
- The international committee member of the International Materials Review (ASM International & IOM3: Maney Publishing, ISSN 0950-6608) , 2012-present
- Steering Committee member of Div.of Process Evaluation and Material Characterization, ISIJ. (2013-2016)
- A member of the board of directors for Japan Society of Heat Treatment (JSHT). (2013.6-2016)
- A member of the board of directors for the Association of Tokai Engineering Education (2014 – Present)
- The Permanent Executive Secretary of Central Branch, Surface Finishing Society, Japan, (2014 –Present)
- The board member of Surface Finishing Society of Japan (SFSJ), (2015-2017)
- A Director of SUZUKA Industry-Government-Academia Networking (2015-2018)
- Vice Secretary General of Central Branch, Japan Society of Heat Treatment (2015- Present)
- The board member of representatives for Japan Thermal Spray Society (2017-Present)
- The board member of Surface Finishing Society of Japan (SFSJ) (2019-Present)
- The board member of Tokai Engineering Education Society (2019-Present)
- The representative symposium organizer for bio/advanced materials of the 30th annual convention, MRS Japan (MRS-J) (2019.4-2019.11)
- The program committee member for Interfinish 2020-20th World Congress and Exhibition (2019.10-2020.12)
- The organization committee member of Interfinish 2020-20th World Congress and Exhibition (2019.10-2020.12)
- The local executive committee member for Interfinish 2020-20th World Congress and Exhibition (2019.10-2020.12)
- The executive committee member for the 87th Annual Convention of The Electrochemical Society of Japan (2019.10-2020.3)

Social Contribution

- A Member, Mie Prefecture Japan Judging Committee of Grant-in-Aid for Program to Promote Manufacturing Products Made in Mie (2012-2016)
- A Member, Mie Prefecture (Japan) Subcommittee for Strategic Manufacturing (2015-2016)
- A Member, Mie Prefecture (Japan) Promotion Committee for Small and Medium Sized Business in North Ise

Area (2014-2015)

- Vice Chair, Mie Prefecture (Japan) A Member of Human Resources Development Council, Vice Chair (2016- Present)
- Advisor for Basic Research Collegium of Mie Prefectural Industrial Research Institute. (2017)

Affiliate Societies

Institute of Metal Finishing(IMF), The Minerals, Metals And Materials Society (TMS) , The American Chemical Society (ACS), ASM International, Electrochemical Society (ECS) National Association of Surface Finishing (NASF) Japan Institute of Metals(JIM), The Iron And Steel Institute of Japan(ISIJ), The Electrochemical Society of Japan, Japanese Society for Engineering Education (JSEE) Surface Finishing Society of Japan(SFSJ), Japan Society of Heat Treatment(JSHT), The Molten Salt Committee, The Japan Institute of Marine Engineering, Smart Processing Society for Materials, Environment and Energy, Tokai Chemical Industry Association, Japan Thermal Society

Research

Patents

1. Method for Producing a Tin-Nickel Alloy Film, JP Patent 3388408,(DN:Tokukai/2002-180283 filing date:24/10/2000), Hideyuki Kanematsu, Tatsumasa Kobayashi & Takeo Oki
2. Method for Producing a Tin-Nickel Alloy Film, JP Patent 3388410, (DN:Tokukai/2002-129375 filing date:12/12/2000), Hideyuki Kanematsu, Yoshihiko Masuo & Takeo Oki
3. Method for Producing a Tin-Nickel Alloy Film, US Patent US 6,602,354 (Date of Patent: August 5, 2003), (Application, DN/20020046787 filing date 05/23/2001), H.Kanematsu, T.Kobayashi & Takeo Oki
4. Method for Producing a Tin-Nickel Alloy Film, US Patent US 6,527,881, B2 (Date of Patent: May 4, 2003), (Application, DN/20020069943, filing date 05/23/2001), H.Kanematsu, Y.Masuo & Takeo Oki
5. Method for Producing a Tin-Zinc Alloy Film, JP Patent 3438030,(DN:Tokukai)/ 2001-180159, filing date:14/06/2001) Hideyuki Kanematsu, Tatsumasa Kobayashi & Takeo Oki
6. Method for Producing a Tin-Zinc Alloy Film, JP Patent, 3355373, filing date: 14/06/2001, Hideyuki Kanematsu, Yoshihiko Masuo, Hirohiko Ohmura
7. Zinc Plated Construction Steel for Corrosion Prevention, JP Patent, 3606376, filing date:07/03/2001,Takeo Oki, Hideyuki Kanematsu, Kazumi Murakami
8. Hot Dip Plated Steel Product, JP Patent Application, DN(Tokukai)/2002-170437, filing date:11/06/2002,Takeo Oki, Hideyuki Kanematsu, Ryoichi Ichino
9. Method for Producing a Tin-Nickel Film, JP Patent 4032117(DN(Tokugan)/2002-334812), filing date: 11/19/2002, Tatsumasa Kobayashi, Hideyuki Kanematsu, Wada Noriyuki, Takeo Oki
10. Method for producing a tin-zinc alloy film, US Patent US 6,875,291 B2(Application DN/20030024613 A1), filing date: February 6, 2003, Hideyuki Kanematsu, Tatsumasa Kobayashi, Takeo Oki
11. Method for producing a tin-zinc alloy film, US Patent US 6,709,719 B2 (Date of Patent: Mar.23, 2004), (Application, DN/ 20030026913, filing date: February 6, 2003), Hideyuki Kanematsu, Yoshihiko Masuo, Takeo Oki, Hirohiko Ohmura
12. Titanium Based Heat Radiation Materials And Its Production Method, JP Patent Application, DN (Tokugan)/2003-41547, filing date: 02/19/2003, Noriyuki Wada, Hideyuki Kanematsu, Kazuo Kojima, Takeo Oki
13. High Corrosion Resistant & High Wear Resistant Magnesium Alloys And Their Production, JP Patent Application, DN(Tokugan)/2003-301800, filing date: 08/26/2003, Hideyuki Kanematsu, Tatsumasa Kobayashi, Michiko Yoshitake, Takeo Oki & Sorayuki Fujii
14. Antimicrobial Corrosion Alloy Plating & Its Production, JP Patent Application, DN(Tokugan)/ 2003-293745, filing date:08/15/2003, Hideyuki Kanematsu, Hajime Ikigai, Yasushi Kikuchi & Takeo Oki
15. Sn-Cu Alloy Films For Antibacterial Activities, Sn-Cu Alloy Film Products For Antibacterial Activities & A Production Method For Antibacterial Sn-Cu Alloy Film Products, JP Patent Application, DN(Tokugan)/2005-171670, filing date: 06/10/2005, JP Patent No. 5017638 (filing date: June 22, 2012), Hideyuki Kanematsu, Hisakazu Ezaki, Hajime Ikigai & Takeo Oki

16. Hot Dip Galvanized Steel & Its Production Process, Jp Patent Application, DN(Tokugan)/2006-77597, filing date:03/20/2006, Nobuyasu Tsuji, Hideyuki Kanematsu
17. Ag-Sn Alloy Film, The Production Method And Anti-bacterial Items coated with Ag-Sn Surface Films, JP Patent Application, DN(Tokugan)/2006-201465, filing date: 07/25/2006, Michiko Yoshitake, Hideyuki Kanematsu & Hajime Ikigai
18. Prevention for Plating Burn of Hot Dip Galvanizing JP Patent Application, DN(Tokugan)/2007-168149, filing ate: 05/30/2007, Nobuyasu Tsuji, Hideyuki Kanematsu and Kaei Adachi
19. Anti-bacterial Products And The Production Process of Anti-bacterial Films, JP Patent Application, DN(Tokugan)/ 2007-193551, filing date: 07/25/2007, Michiko Yoshitake, Hideyuki Kanematsu & Hajime Ikigai
20. Anti-fouling composite coating to control biofilm formation
DN (Tokugan)/ 2014-036716, Hideyuki Kanematsu, Takeshi Kogo, Miwa Noda, Noriyuki Wada, Shigekazu Mizukoshi, Katsuhiko Sano

Newspaper Articles: 42

Books: (Selected 18, Total 28)

1. Practical Engineering Mathematics – Online Contents, <http://www.suzuka-ct.ac.jp/cc/gp/>, November 2005 (Modern GP Project by Japanese Education Ministry, not for sale) Tatsuya Shirai, Kanji Shibagaki, Hiroto Minoura, Hideki Yoshikawa, Hironobu Nakayama, Noriyuki Wada, Hideyuki Kanematsu et al.
2. Develop Critical Thinking Skills, Solve A Mystery, Learn Science, (CD Audio Book) Tate Publishing & Enterprises, July,2007, ISBN978-1-60247-379-9, Dana M. Barry and H. Kanematsu.
3. Antibacterial Materials for Safety, Security and Reliability, Yoneda Shuppan Co., March 2010, ISBN 978-4-946553-42-4 C3058 Hideyuki Kanematsu (editor)
4. Theory and Practice for Chemical Cleaning, Chiba, Japan: Yoneda Shuppan Co. May, 11, 2011, ISBN 978-4-946553-48-6, Satoshi Fukuzaki, Hideyuki Kanematsu, Hideo Itoh
5. Biofilm and Its Industrial Application, Yoneda Shuppan Co. March, 2015, ISBN 978-4-946553-60-8, Hideyuki Kanematsu, Hajime Ikegai, Daisuke Kuroda, Nobumitsu Hirai
6. Biofilm and Materials Science, Springer International New York, April, 9, 2015, ISBN-13: 978-3319145648 , ISBN-10: 3319145649 , Kanematsu, Hideyuki, Barry, Dana M (Eds.)
7. Handbook of Nanoceramic and Nanocomposite Coating and Materials. Makhlof, A. S. H.; Scharnweber, D., Eds.; Butterworth-Heinemann: Oxford, the UK, 2015; p 583. ISBN-13: 978-0127999470 ISBN-10: 0127999477
8. Mechanical/Metallic Materials, Kuroda D. eds.; Jikkyo Publishing, Tokyo, Japan, 2015, p.311: ISBN-978-4-407-33725-9
9. Building a System of Developmental Education at universities and Colleges in Japan, E-learning Association/Japan Remedial Education Association, eds.; Vol.2, p.312, Nakanishiya Publishing, Kyoto, Japan, 2016: ISBN978-4-7795-0885-1
10. STEM and ICT Education in Intelligent Environments, Springer International (Switzerland) July, 2016, ISBN-13:978-3319192338, ISBN-10:3319192337, Kanematsu, Hideyuki, Barry,Dana M. (Eds.)
11. Corrosion Control and Surface Finishing, Springer International (Tokyo), April, 2016, ISBN-13: 978-4431559559 ISBN-10: 4431559558 Kanematsu, Hideyuki, Barry, Dana M. (Eds.)
12. Industrial Applications for Intelligent Polymers and Coatings. 1st ed.; Hosseini, M.; Makhlof, A. S. H., Eds.; Springer International Publishing: Switzerland, 2016; 10.1007/978-3-319-26893-4.
13. Industrial Applications for Intelligent Polymers and Coatings. 1st ed.; Hosseini, M.; Makhlof, A. S. H., Eds.; Springer International Publishing: Switzerland, 2016; 10.1007/978-3-319-26893-4. ISBN-13: 978-3319268910 ISBN-10: 3319268910

14. Fundamentals of Nanoparticles. 1st ed.; Makhlof, A. S. H.; Barhoum, A., Eds.; Elsevier: Amsterdam, Neitherland, 2018. ISBN(e-book) 9780128135174 ISBN 9780323512558
15. Handbook of Nanofibers. Barhoum, A.; Bechelany, M.; Makhlof, A., Eds.; Springer International Publishing, 1st edition: Switzerland, 2019. ISBN(e-book) 978-3-319-53656-2, print ISBN: 978-3-319-53654-5
16. Corrosion Atlas Case Studies 1st Edition
Fuad Khoshnaw, Rolf Gubner ed. Elsevier Science, Amsterdam, Neitherland, 2019, ISBN: 9780128187609
17. Formation Mechanism of Biofilm and Its Evaluation/Countermeasure (in Japanese)
R&D support Center ed. Tokyo Japan 2020, in print. ISBN: 978-4—905507-38-3
18. Formation and Control of Biofilm in Various Environments
Hideyuki Kanematsu, Dana M. Barry ed. Springer Nature, Singapore, 2020 in print
ISBN 978-981-15-2239-0

Publications: (Selected Recent, Total 510) (Please attached CV for complete list)

400. Comparative Discussion for Biofilm Formation on Polymer Films and Application to Steel Coating
CAMP-ISIJ 28(2) 501-502 Sep 2015
Takeshi Kogo, Yusuke Nakako, Katsuhiko Sano, Hideyuki Kanematsu, Akiko Ogawa, Kenji Yamasaki, Hajime Ikegai and Toshihiro Tanaka
401. Investigation for biofilm formation by EQCM method
CAMP-ISIJ 28(2) 503-504 Sep 2015
Takeshi Kogo, Hiroyuki Komada, Hideyuki Kanematsu, Nobumitsu Hirai, Hajime Ikegai, Katsuhiko Sano
402. Selective acquisition of period 4 metal ions in water by biofilm
CAMP-ISIJ 28(2) 507-508 Sep 2015
Nobumitsu Hirai, Kaku Iwata, Daichi Sugita and Hideyuki Kanematsu
403. The Experiment of Sweden Game and the Evaluations of Gaming Result
Procedia Computer Science 60 1170-1177 Sep 2015
Masashi Kawaguchi, Hideyuki Kanematsu, Norio Baba
404. Evaluation for Students' Learning Manner Using Eye Blinking System in Metaverse
Procedia Computer Science 1195-1204 Sep 2015
Dana M. Barry, Nobuyuki Ogawa, Asanka Dharmawansa, Hideyuki Kanematsu, Yoshimi Fukumura, Tatsuya Shirai, Kuniaki Yajima, Toshiro Kobayashi
405. Cast Iron
Mechanical/Metallic Materials 131-140 *Jikkyo Shuppan (Tokyo)*, Oct 2015
Hideyuki Kanematsu
406. Temperature Distribution of Organic Light Emitting Diode Panel
The 26th International Symposium on Transport Phenomena, 27 September - 1 October 2015, Leoben, Austria 1-4 Oct 2015
T. Kobayashi¹, T. Uchida¹, Y. Utsumi, H. Kanematsu and T. Masuda
407. Mechanics of Soft Actuator having a Bellows Structure Operated by Inner Pressure
10th International Symposium on Advanced Science and Technology in Experimental Mechanics, 1-4 November, 2015, Matsue, Japan 1-4 Nov 2015
T. Kobayashi¹, T. Uchida¹, Y. Utsumi, H. Kanematsu and T. Masuda
408. Heat Transfer Performance of Sodium Encapsulating Engine Valves
The 10th International Symposium on Advanced Science and Technology in Experimental Mechanics, 1-4 November, 2015, Matsue, Japan, 1-4 Nov.2015
Toshiro Kobayashi, Itaru Hashimoto, Ritsuo Hashimoto, Hideyuki Kanematsu, Yuichi Utsumi and Motomichi Yamamoto
409. Effect of Heat Sink Structure on Cooling Performance of LED Bulb

- Journal of Japan Society of Design Engineering*, 50(12) p.34-38, Dec.2015
T.Kobayashi, S. Isikawa, R. Hashimoto, H. Kanematsu and Y.Utsumi
410. Separation and condensation of zinc by artificial biofilm formed by ambient germs.
International Symposium on EcoTopia Science (ISETS' 15), p.1 Dec. 2015
Hideyuki Kanematsu, Akiko Ogawa, Nobumitsu Hirai, Hajime Ikegai
 411. STEM and ICT Education in Intelligent Environments (Editing)
Intelligent Systems Reference Library, Vol.91, Series Editor, Janusz Kacprzyk, Springer International, Switzerland, 2016
Hideyuki Kanematsu, Dana M. Barry
 412. Creativity and Its Importance for Education
STEM and ICT Education in Intelligent Environments ed. Hideyuki Kanematsu & Dana M. Barry, Intelligent Systems Reference Library, p.3-7, Springer International Publishing Switzerland, 2016
Hideyuki Kanematsu, Dana M. Barry
 413. Theory of Creativity
STEM and ICT Education in Intelligent Environments ed. Hideyuki Kanematsu & Dana M. Barry, Intelligent Systems Reference Library, p.9-13, Springer International Publishing Switzerland, 2016
Dana M. Barry, Hideyuki Kanematsu
 414. STEM and Creativity
STEM and ICT Education in Intelligent Environments ed. Hideyuki Kanematsu & Dana M. Barry, Intelligent Systems Reference Library, p15-23, Springer International Publishing Switzerland, 2016
Dana M. Barry, Hideyuki Kanematsu
 415. The importance of STEM for Modern Education
STEM and ICT Education in Intelligent Environments ed. Hideyuki Kanematsu & Dana M. Barry, Intelligent Systems Reference Library, p25-30, Springer International Publishing Switzerland, 2016
Dana M. Barry, Hideyuki Kanematsu
 416. ICT and Impact on Education
STEM and ICT Education in Intelligent Environments ed. Hideyuki Kanematsu & Dana M. Barry, Intelligent Systems Reference Library, p33-40, Springer International Publishing Switzerland, 2016
Hideyuki Kanematsu, Dana M. Barry
 417. Audio-Visual Classroom and STEM
STEM and ICT Education in Intelligent Environments ed. Hideyuki Kanematsu & Dana M. Barry, Intelligent Systems Reference Library, p41-44, Springer International Publishing Switzerland, 2016
Hideyuki Kanematsu, Dana M. Barry
 418. From desktop computer to laptop and tablets.
STEM and ICT Education in Intelligent Environments ed. Hideyuki Kanematsu & Dana M. Barry, Intelligent Systems Reference Library, p45-49, Springer International Publishing Switzerland, 2016
Hideyuki Kanematsu, Dana M. Barry
 419. The utilization of the internet
STEM and ICT Education in Intelligent Environments ed. Hideyuki Kanematsu & Dana M. Barry, Intelligent Systems Reference Library, p51-55, Springer International Publishing Switzerland, 2016
Hideyuki Kanematsu, Dana M. Barry
 420. Social networking and STEM
STEM and ICT Education in Intelligent Environments ed. Hideyuki Kanematsu & Dana M. Barry, Intelligent Systems Reference Library, p57-61, Springer International Publishing Switzerland, 2016
Hideyuki Kanematsu, Dana M. Barry
 421. Amazing Airplanes
STEM and ICT Education in Intelligent Environments ed. Hideyuki Kanematsu & Dana M.

- Barry, Intelligent Systems Reference Library, p65-73, Springer International Publishing Switzerland, 2016*
Dana M. Barry, Hideyuki Kanematsu
422. Best Beans
STEM and ICT Education in Intelligent Environments ed. Hideyuki Kanematsu & Dana M. Barry, Intelligent Systems Reference Library, p75-81, Springer International Publishing Switzerland, 2016
Dana M. Barry, Hideyuki Kanematsu
423. Eating Enough
STEM and ICT Education in Intelligent Environments ed. Hideyuki Kanematsu & Dana M. Barry, Intelligent Systems Reference Library, p83-96, Springer International Publishing Switzerland, 2016
Dana M. Barry, Hideyuki Kanematsu
424. Possible Planets
STEM and ICT Education in Intelligent Environments ed. Hideyuki Kanematsu & Dana M. Barry, Intelligent Systems Reference Library, p97-102, Springer International Publishing Switzerland, 2016
Dana M. Barry, Hideyuki Kanematsu
425. Going Green
STEM and ICT Education in Intelligent Environments ed. Hideyuki Kanematsu & Dana M. Barry, Intelligent Systems Reference Library, p103-111, Springer International Publishing Switzerland, 2016
Dana M. Barry, Hideyuki Kanematsu
426. Building Bridges
STEM and ICT Education in Intelligent Environments ed. Hideyuki Kanematsu & Dana M. Barry, Intelligent Systems Reference Library, p113-119, Springer International Publishing Switzerland, 2016
Dana M. Barry, Hideyuki Kanematsu
427. Weather Watchers
STEM and ICT Education in Intelligent Environments ed. Hideyuki Kanematsu & Dana M. Barry, Intelligent Systems Reference Library, p121-131, Springer International Publishing Switzerland, 2016
Dana M. Barry, Hideyuki Kanematsu
428. Delicious Drinks
STEM and ICT Education in Intelligent Environments ed. Hideyuki Kanematsu & Dana M. Barry, Intelligent Systems Reference Library, p133-143, Springer International Publishing Switzerland, 2016
Dana M. Barry, Hideyuki Kanematsu
429. Personal Project
STEM and ICT Education in Intelligent Environments ed. Hideyuki Kanematsu & Dana M. Barry, Intelligent Systems Reference Library, p145-150, Springer International Publishing Switzerland, 2016
Dana M. Barry, Hideyuki Kanematsu
430. Mars Simulation Mission
STEM and ICT Education in Intelligent Environments ed. Hideyuki Kanematsu & Dana M. Barry, Intelligent Systems Reference Library, p153-165, Springer International Publishing Switzerland, 2016
Dana M. Barry, Hideyuki Kanematsu
431. International Discussion Held in Second Life Using One's Native Language
STEM and ICT Education in Intelligent Environments ed. Hideyuki Kanematsu & Dana M. Barry, Intelligent Systems Reference Library, p167-172, Springer International Publishing Switzerland, 2016
Dana M. Barry, Hideyuki Kanematsu
432. Virtual House of the Future During the Global Warming Era
STEM and ICT Education in Intelligent Environments ed. Hideyuki Kanematsu & Dana M. Barry, Intelligent Systems Reference Library, p173-179, Springer International Publishing

Switzerland,2016

Dana M. Barry, Hideyuki Kanematsu

433. Lessons About Nuclear Energy and Safety Held in Second Life
STEM and ICT Education in Intelligent Environments ed. Hideyuki Kanematsu & Dana M. Barry, Intelligent Systems Reference Library, p181-187, Springer International Publishing Switzerland,2016
Dana M. Barry, Hideyuki Kanematsu
434. Video Sharing and MOOCs for STEM Education
STEM and ICT Education in Intelligent Environments ed. Hideyuki Kanematsu & Dana M. Barry, Intelligent Systems Reference Library, p189-192, Springer International Publishing Switzerland,2016
Hideyuki Kanematsu, Dana M. Barry
435. For the Future – Classrooms of the Future
STEM and ICT Education in Intelligent Environments ed. Hideyuki Kanematsu & Dana M. Barry, Intelligent Systems Reference Library, p195-198, Springer International Publishing Switzerland,2016
Hideyuki Kanematsu, Dana M. Barry
436. E-learning Higher Education Linkage Project for Supporting Engineering Education in Universities and Colleges.
Building a System of Developmental Education at Universities and Colleges in Japan. 2, p.265-272, Jan. 2016
Yoshimi Fukmura, Kazunori Nishino, Nobuyuki Ogawa and Hideyuki Kanematsu
437. Biofilm Formation Behavior on Metals under Alternative Electromagnetic Fields.
Proceedings for the 6th workshop of Japan Society of Heat Treatment, Chubu Branch, vol.6 p.16-17, Mar. 2016
Seiji Higuchi, Hideyuki Kanematsu
438. Biofilm Control by Alternative Electromagnetic Fields and Its Evaluation by Raman Spectroscopic Analyses.
Proceeding for the 6th workshop of Japan Society of Heat Treatment, Chubu Branch, vol.6, p.18-19, Mar. 2016
Takumi Kubo and Hideyuki Kanematsu
439. Preparation of a Closed LBR Simulation Euro System and Biofilm Formation on Metallic Surfaces.
Proceeding for the 6th workshop of Japan Society of Heat Treatment, Chubu Branch, vol.6, p.20-21, Mar. 2016
Shun Kanesaki, Hideyuki Kanematsu
440. Evaluation of Contamination on Polymeric Materials Surface for Stents Using a Biofilm Reactor.
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