

Curriculum Vitae

Seungchan Cho

Pusan, Korea, October 26, 1978

Principal Researcher

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Research areas & interests

Metal matrix composites (copper, aluminum, steel, nickel, magnesium matrix composites)

Ceramic matrix composites (hydroxyapatite composites)

Sintering (spark plasma sintering), Extrusion, Casting, Powder metallurgy, Cold spray

Education

Ph.D. in Mat. Sci. Eng., Tohoku University, Sendai, Japan, September 8, 2010

Dissertation: Fabrication of carbon nanotube reinforced copper composites using spark plasma sintering and their thermo-mechanical properties

G.P.A.: 3.0/3.0

Advisor: Prof. Akira Kawasaki

M.S. in Mat. Sci. Eng., Pusan National University, Pusan, South Korea, February 25, 2006

Dissertation: Characteristics of ZrN diffusion barrier and HfO₂ gate dielectric deposited by remote plasma enhanced-atomic layer deposition method

G.P.A.: 4.39/4.5

Advisor: Prof. Yangdo Kim and Prof. Inbae Kim

B. E. in Met. Eng., Pukyong National University, Pusan, South Korea, February 24, 2004

G.P.A.: 3.41/4.5

Professional & Research Experience

2019.04- Present	Principal Researcher, Korea Institute of Materials Science (KIMS)
2013.12-2019.03	Senior Researcher, Korea Institute of Materials Science (KIMS)
2012.05-2013.11	Senior Researcher, Samsung Electro-Mechanics Co., Ltd.
2010.10-2012.03	Post-Doctoral Fellow, Tohoku University (JSPS)
2008.10-2009.03	Teaching Assistant, Tohoku University
2008.02-2008.03	Visiting researcher, Empa-Swiss Federal Laboratories for Materials Science and Technology

Honors and Awards

- ✓ National research council of science & technology (NST) 2017 award
- ✓ Marquis Who's Who in the World 2012 (29th Edition)
- ✓ Outstanding Poster Award, Tohoku-Novosibirsk Research Student Workshop, Russia, September 19 ~ 27, 2010
- ✓ Research Fellowships of the Japan Society for the Promotion of Science (JSPS) for Young Scientists [No. 20100430] (2010.04 ~ 2012.03)
- ✓ Monbukagakusho Scholarship (2007.10 ~ 2010.03)

Publications

1. Taegyul Lee, Hobyung Chae, Sangmin Shin, Seungchan Cho, Sang-Kwan Lee, Soo Yeol Lee, Ke An, Ho Jin Ryu, "Overcoming brittleness of high volume fraction Al/SiCp composites by controlling interface characteristics", *Materials & Design* 222 (2022) 111038
2. Yoonseok Lee, Seungchan Cho, Changwook Ji, Ilguk Jo, Moonhee Choi, "Impact of Morphology on the High Cycle Fatigue Behavior of Ti-6Al-4V for Aerospace", *Metals* 12 (2022) 1722.
3. Yoon-Seok Lee, Yeonghwan Song, Seungchan Cho, Ilguk Jo, Moonhee Choi, "Effects of Magnetizing Yoke Design on the Magnetic Properties of Nd₂Fe₁₄B Permanent Magnet for Electric Vehicle Motor Applications", *Applied Sciences* 12 (2022) 7813.
4. Wonjun Bae, Junghwan Kim, Seungchan Cho, Yangjin Kim, Sang-Kwan Lee, "Suppression of thermal deformation of machine tool spindle using TiC-Fe composite", *Journal of Mechanical Science and Technology* 36(5) (2022) 2511–2520.

5. Jihye Lee, Donghyun Lee, Seungchan Cho, Hansang Kwon, Sang-Kwan Lee, Sang-Bok Lee, Junghwan Kim, “A Study on Microstructure and Mechanical Properties of TiB₂-steel Composite Fabricated by Gas Pressure Infiltration Process”, *Composites Research* 35(4) (2022) 248–254.
6. Seungchan Cho, Junghwan Kim, Ilguk Jo, Jae Hyun Park, Jaekwang Lee, Hyun-Uk Hong, Bong Ho Lee, Wook Ryol Hwang, Dong-Woo Suh, Sang-Kwan Lee, Sang-Bok Lee, “Effect of molybdenum on interfacial properties of titanium carbide reinforced Fe composite”, *Journal of Materials Science & Technology* 107 (2022) 252–258. [FA, CA]
7. Donghyun Lee, Junghwan Kim, Byeongjin Park, Ilguk Jo, Sang-Kwan Lee, Yangdo Kim, Sang-Bok Lee, Seungchan Cho, “Mechanical and Thermal Neutron Absorbing Properties of B₄C/Aluminum Alloy Composites Fabricated by Stir Casting and Hot Rolling Process”, *Metals* 11 (2021) 413. [CA]
8. Donghyun Lee, Junghwan Kim, Sang-Kwan Lee, Yangdo Kim, Sang-Bok Lee, Seungchan Cho, “Effect of Boron Carbide Addition on Wear Resistance of Aluminum Matrix Composites Fabricated by Stir Casting and Hot Rolling Processes”, *Metals* 11 (2021) 989. [CA]
9. Heejeong Kim, Jungyu Park, Sangmin Shin, Seungchan Cho, Junghwan Kim, Dong-Su Bae and Ilguk Jo, “Microstructure and Wear Behavior of TiC/AISI 1020 Metal Matrix Composites Produced by Liquid Pressing Infiltration”, *Appl. Sci.* 11 (2021) 9682.
10. Yoon-Seok Lee, Shunnosuke Yamagishi, Masataka Tsuru, Changwook Ji, Seungchan Cho, Yangdo Kim, Moonhee Choi, “Wear Behaviors of Stainless Steel and Lubrication Effect on Transitions in Lubrication Regimes in Sliding Contact”, *Metals* 2021, 11, 1854
11. Donghyun Lee, Junghwan Kim, Sang-Kwan Lee, Yangdo Kim, Sang-Bok Lee, Seungchan Cho, “Experimental and thermodynamic study on interfacial reaction of B₄C-Al6061 composites fabricated by stir casting process”, *Journal of Alloys and Compounds* 859 (2021) 157813. [CA]
12. Sangmin Shin, Hyeonjae Park, Byeongjin Park, Sang-Bok Lee, Sang-Kwan Lee, Yangdo Kim, Seungchan Cho, Ilguk Jo, “Dispersion Mechanism and Mechanical Properties of SiC Reinforcement in Aluminum Matrix Composite through Stir and Die-Casting Processes”, *Applied Sciences* 11 (2021) 952. [CA]
13. Donghyun Lee, Junghwan Kim, Byeongjin Park, Ilguk Jo, Sang-Kwan Lee, Yangdo Kim, Sang-Bok Lee, Seungchan Cho, “Mechanical and Thermal Neutron Absorbing Properties of B₄C/Aluminum Alloy Composites Fabricated by Stir Casting and Hot Rolling

- Process”, *Metals* 11 (2021) 413. [CA]
14. Seungchan Cho, Junghwan Kim, Sang-Bok Lee, Moonhee Choi, Dong-Hyun Kim, Ilguk Jo, Hansang Kwon, Yangdo Kim, “Fabrication of functionally graded hydroxyapatite and structurally graded porous hydroxyapatite by using multi-walled carbon nanotubes”, *Composites Part A* 139 (2020) 106138. [FA,CA]
 15. Taegy Lee, Hyeonjin Jung, Yeonghwan Song, Seungchan Cho, Dong-Hyun Kim, Yangdo Kim, Yoon-Seok Lee, Yongho Park, Moonhee Choi, “Development of a Highly Densified Magnetic Sheet for Inductors and Advanced Processes through Silane Surface Treatment of Fe Nanopowder”, *Applied Sciences* 10 (2020) 4770.
 16. Cheolmin Ahn, Ilguk Jo, Changwook Ji, Seungchan Cho, Brajendra Mishra, Eunkyung Lee, “Creep behavior of high-pressure die-cast AlSi₁₀MnMg aluminum alloy”, *Materials Characterization* 167 (2020) 110945.
 17. Jin Gang Lu, Seung Chan Cho, Wook Ryol Hwang, “On the Interfacial Flow Over Porous Media Composed of Packed Spheres: Part 1-Identification of the Effective Slip Length”, *Transport in Porous Media* 133 (2020) 139-157.
 18. Seongmin Ko, Hyeonjae Park, Yeong-Hwan Lee, Sangmin Shin, Ilguk Jo, Junghwan Kim, Sang-Bok Lee, Yangdo Kim, Sang-Kwan Lee, Seungchan Cho, Fabrication of TiB₂-Al1050 Composites with Improved Microstructural and Mechanical Properties by a Liquid Pressing Infiltration Process, *Materials* 13 (2020) 1588. [CA]
 19. Yeong-Hwan Lee, Namkyu Kim, Sang-Bok Lee, Yangdo Kim, Seungchan Cho, Sang-Kwan Lee, Ilguk Jo, “Microstructure and mechanical properties of lightweight TiC-steel composite prepared by liquid pressing infiltration process”, *Materials Characterization* 162 (2020) 110202. [CA]
 20. Seungchan Cho, Yeong-Hwan Lee, Seongmin Ko, Hyeonjae Park, Donghyun Lee, Sangmin Shin, Ilguk Jo, Sang-Bok Lee, Sang-Kwan Lee, “Enhanced high-temperature compressive strength of TiC reinforced stainless steel matrix composites fabricated by liquid pressing infiltration process”, *Journal of Alloys and Compounds* 817 (2020) 152714. [FA,CA]
 21. Byeongjin Park, Donghyun Lee, Ilguk Jo, Sang Bok Lee, Sang Kwan Lee, Seungchan Cho, “Automated quantification of reinforcement dispersion in B₄C/Al metal matrix composites”, *Composites Part B* 181 (2020) 107584. [CA]

22. Cheolmin Ahn, Hyunju Lee, Yoonseok Lee, Seungchan Cho, Brajendra Mishra, Eunkyung Lee, “Development of High Interstitial Stainless Steel and Evaluation of Its NaCl Corrosion Resistance”, *Metals and Materials International* (2019)
23. S.J. Park, Y. Jeong, C.W. Kim, J.H. Lee, S.C. Cho, S.B. Lee, S.K. Lee, D.H. Kim, H.U. Hong, “Superior tensile fracture strength of hot isostatically pressed TiC–steel metallic composite fabricated by a novel infiltration”, *Materials Science & Engineering A* 764 (2019) 138260.
24. Yeong-Hwan Lee, Sungmin Ko, Hyeonjae Park, Donghyun Lee, Sangmin Shin, Ilguk Jo, Sang-Bok Lee, Sang-Kwan Lee, Yangdo Kim, Seungchan Cho, “Effect of TiC particle size on high temperature oxidation behavior of TiC reinforced stainless steel”, *Applied Surface Science* 480 (2019) 951. [CA]
25. Sangmin Shin, Seungchan Cho, Donghyun Lee, Yangdo Kim, Sang-Bok Lee, Sang-Kwan Lee, Ilguk Jo, “Microstructural Evolution and Strengthening Mechanism of SiC/Al Composites Fabricated by a Liquid-Pressing Process and Heat Treatment”, *Materials* 12 (2019) 3374.
26. Sangmin Shin, Donghyun Lee, Yeong-Hwan Lee, Seongmin Ko, Hyeonjae Park, Sang-Bok Lee, Seungchan Cho, Yangdo Kim, Sang-Kwan Lee, Ilguk Jo, “High Temperature Mechanical Properties and Wear Performance of B₄C/Al7075 Metal Matrix Composites”, *Metals* 9 (2019) 1108.
27. Taegyul Lee, Jongbok Park, Junho Lee, Ilguk Jo, Seungchan Cho, Sang Bok Lee, Sang Kwan Lee, M Rifai Muslih and Ho Jin Ryu, “Residual stress measurement of SiC Tile/Al-SiCp hybrid composites using neutron diffraction”, *Funct. Compos. Struct.* 1 (2019) 035002.
28. Kwangjae Park, Dasom Kim, Kyungju Kim, Seungchan Cho, Kenta Takagi and Hansang Kwon, “Semisolid State Sintering Behavior of Aluminum–Stainless Steel 316L Composite Materials by Powder Metallurgy”, *Materials* 12 (2019) 1473.
29. Kyungju Kim, Dasom Kim, Kwangjae Park, Myunghoon Cho, Seungchan Cho and Hansang Kwon, “Effect of Intermetallic Compounds on the Thermal and Mechanical Properties of Al–Cu Composite Materials Fabricated by Spark Plasma Sintering”, *Materials* 12 (2019) 1546.
30. Dasom Kim, Kwangjae Park, Minwoo Chang, Sungwook Joo, Sanghwi Hong, Seungchan Cho and Hansang Kwon, “Fabrication of Functionally Graded Materials Using Aluminum Alloys via Hot Extrusion”, *Metals* 9 (2019) 210.

31. Kwangjae Park, Dasom Kim, Kyungju Kim, Seungchan Cho and Hansang Kwon, "Behavior of Intermetallic Compounds of Al-Ti Composite Manufactured by Spark Plasma Sintering", *Materials* 12 (2019) 331.
32. Jehong Park, Seungchan Cho, Hansang Kwon, "Aluminum-ceramic composites for thermal management in energy-conversion systems", *Scientific Reports* 8 (2019) 17852.
33. Seungchan Cho, Yeong-Hwan Lee, Seongmin Ko, Hyeonjae Park, Donghyun Lee, Sangmin Shin, Ilguk Jo, Sang-Bok Lee, Sang-Kwan Lee, "Microstructure and Properties of TiC-Inconel 718 Metal Matrix Composites Fabricated by Liquid Pressing Infiltration Process", *Composites Research* 32 (3) (2019) 158. [FA,CA]
34. Dasom Kim, Kwangjae Park, Kyungju Kim, Seung Chan Cho, Yusuke Hirayama, Kenta Takagi, Hansang Kwon, "Cold Compaction behavior of nano and micro aluminum powder under high pressure", *Composites Research* 32 (3) (2019) 141.
35. Seongmin Ko, Hyeonjae Park, Yeong-Hwan Lee, Sangmin Shin, Donghyun Lee, Ilguk Jo, Sang-Bok Lee, Sang-Kwan Lee, Seungchan Cho, "Study on the Microstructure and Mechanical Properties of High Volume Fraction TiB₂-Al1050 Metal Matrix Composites", *Composites Research* 32 (1) (2019) 1. [CA]
36. Seungchan Cho, Rin Okayasu, Keiko Kikuchi, Moonhee Choi, Jehong Park, Ilguk Jo, Sang-Bok Lee, Hansang Kwon, Yangdo Kim, Takamichi Miyazaki, Akira Kawasaki, "Electric current assisted microstructure evolution of bioceramic materials: Intragranular pore containing bulk hydroxyapatites", *Scripta Materialia* 159 (2019) 80. [FA,CA]
37. Kwangjae Park, Dasom Kim, Jehong Park, Seungchan Cho, Miyazaki Takamichi, and Hansang Kwon, "Intermetallic Compounds in Al-SUS316L Composites", *Adv. Eng. Mater.* (2018) 1800312.
38. Seungchan Cho, Ilguk Jo, Yeong-Hwan Lee, Yeon Woo Yoo, Eungsun Byon, Sang-Kwan Lee, Sang-Bok Lee, "Highly improved oxidation resistance of TiC-SKD11 composite by SiC/TiB₂ based hybrid coating", *Applied Surface Science* 448 (2018) 407. [FA,CA]
39. Thanh Tinh Tran, Thanh Thinh Vo, Seung Chan Cho, Dong Hyun Lee, Wook Ryol Hwang, "A stir casting system for drawdown of light particles in manufacturing of metal matrix composites", *Journal of Materials Processing Tech.* 257 (2018) 123.
40. Seungchan Cho, Ilguk Jo, Sang-Bok Lee, Sang-Kwan Lee, Moonhee Choi, Jehong Park, Hansang Kwon and Yangdo Kim, "Fabrication of CNT dispersed Cu matrix composites by wet mixing and spark plasma sintering process", *J. Korean Powder Metall. Inst.* 25(2) (2018) 158. [FA]

41. Seungchan Cho, Yeong-Hwan Lee, Seongmin Ko, Hyeon Jae Park, Donghyun Lee, Sangmin Shin, Ilguk Jo, Sang-Kwan Lee, Sang-Bok Lee, "Fabrication of Ceramic Particulate Reinforced Steel Composites by Liquid Pressing Infiltration Process", *Composites Research* 31 (4) (2018) 117. [FA]
42. Moonhee Choi, Seungchan Cho, Ilguk Jo, Yeonghwan Song, Chiho Kim, Jihun Yu, Yangdo Kim, "Boron Behavior Induced Lamellar Structure and Anisotropic Magnetic Properties of Nd₂Fe₁₄B during HDDR process", *Journal of the Korean Physical Society* 71 (2017) L130.
43. Seungchan Cho, Keiko Kikuchi, Eunkyung Lee, Moonhee Choi, Ilguk Jo, Sang-Bok Lee, Sang-Kwan Lee, Akira Kawasaki, "Chromium carbide/Carbon Nanotube Hybrid Structure Assisted Copper Composites with Low Temperature Coefficient of Resistance", *Scientific Reports* 7 (2017) 14943. [FA,CA]
44. Seungchan Cho, Ilguk Jo, Sang-Kwan Lee, Sang-Bok Lee, "Microstructure and Wear Characteristics of TiC-SKD11 Composite Fabricated by Liquid Pressing Infiltration Process", *Composites Research* 30 (3) (2017) 209. [FA]
45. Seungchan Cho, Ilguk Jo, Byung Mun Jung, Eunkyung Lee, Jae Ryung Choi, Sang-Kwan Lee, Sang-Bok Lee, "Interfacial analysis of TiO₂ coated carbon nanofibers and Mg-Al alloy matrix fabricated using a liquid pressing process", *Scripta Materialia* 136 (2017) 50. [FA]
46. Seungchan Cho, Ilguk Jo, Heebong Kim, Hyuk-Tae Kwon, Sang-Kwan Lee, Sang-Bok Lee, "Effect of TiC addition on surface oxidation behavior of SKD11 tool steel composites", *Applied Surface Science* 415 (2017) 155. [FA]
47. Nu-Ri Oh, Sang-Kwan Lee, Seung-Chan Cho, Il-Guk Jo, Keum-Cheol Hwang, Dae-Ha Kim, Young-Tae Cho, Dong-Woo Suh, and Hyun-Uk Hong, "Temperature Dependency of the Tensile Characteristics and Transition of Fracture Behaviors in a Novel Infiltrated TiC-SKD11 Composites", *Korean Journal of Metals and Materials* 55 (2017) 156.
48. Donghyun Lee, Seungchan Cho, Yangdo Kim, Sang-Kwan Lee, Sang-Bok Lee, Ilguk Jo, "Mechanical Properties and Wear Performance of the Al7075 Composites Reinforced with Bimodal Sized SiC Particles", *Composites Research* 30 (2017) 1.
49. Jongbok Park, Junho Lee, Ilguk Jo, Seungchan Cho, Sang Kwan Lee, Sang Bok Lee, Ho Jin Ryu, Soon Hyung Hong, "Surface modification effects of SiC tile on the wettability and interfacial bond strength of SiC tile/Al7075-SiCp hybrid composites", *Surface & Coatings Technology* 307 (2016) 399.

50. Seungchan Cho, Jae Ryung Choi, Byung Mun Jung, U. Hyeok Choi, Sang-Kwan Lee, Ki Hyeon Kim, Sang-Bok Lee, "Electro-magnetic properties of composites with aligned Fe-Co hollow fibers", *AIP Advances* 6 (2016) 055920. [FA]
51. Ilguk Jo, Seungchan Cho, Heebong Kim, Byung Mun Jung, Sang-Kwan Lee, Sang-Bok Lee, "Titanium dioxide coated carbon nanofibers as a promising reinforcement in aluminum matrix composites fabricated by liquid pressing process", *Scripta Materialia* 112 (2016) 87. [Co-CA]
52. Jae Ryung Choi, Byung Mun Jung, U Hyeok Choi, Seung Chan Cho, Ka Hyun Park, Won-jung Kim, Sang-Kwan Lee, Sang Bok Lee, "Characterization of FeCo Magnetic Metal Hollow Fiber/EPDM Composites for Electromagnetic Interference Shielding", *Composites Research* 28 (2015) 1.
53. Ilguk Jo, Seol Jeon, Eunkyung Lee, Seungchan Cho, Heesoo Lee, "Phase formation and interfacial phenomena of the in-situ combustion reaction of Al-Ti-C in TiC/Mg composites", *Materials Transactions* 56 (2015) 661.
54. Moonhee Choi, Seungchan Cho, Yeonghwan Song, Sungkyun Park, Yangdo Kim, "Simultaneous enhancement in coercivity and remanence of Nd₂Fe₁₄B permanent magnet by grain boundary diffusion process using NdH_x", *Current Applied Physics* 15 (2015) 461.
55. Hansang Kwon, Seungchan Cho, Akira Kawasaki, "Diamond-Reinforced Metal Matrix Bulk Materials Fabricated by a Low-Pressure Cold-Spray Process", *Materials Transactions* 56 (2015) 108.
56. Moonhee Choi, Seungchan Cho, Yeonghwan Song, Donghyeok Choi, Sungkyun Park, Yangdo Kim, "Novel synthesizing method of BaFe₁₂O₁₉ micro rod and its superior coercivity with shape anisotropy", *Materials Letters* 139 (2015) 292.
57. Moonhee Choi, Seungchan Cho, Yeonghwan Song, Sangmin Baek, Hyungkyu Kim, Jongsuk Jung, Hyunju Lee, Chansu Park, Sungkyun Park, Yangdo Kim, "Synthesis and characterization of hollow BaFe₁₂O₁₉ submicron spheres for advance functional magnetic materials", *Current Applied Physics* 14 (2014) 1208.
58. Seungchan Cho, Keiko Kikuchi, Takamichi Miyazaki, Akira Kawasaki, Yoshiro Arami, Jean François Silvain "Epitaxial growth of chromium carbide nanostructures on multiwalled carbon nanotubes (MWCNTs) in MWCNT-copper composites", *Acta Materialia* 61 (2013) 708. [FA,CA]
59. Seungchan Cho, Keiko Kikuchi, Akira Kawasaki, Hansang Kwon, Yangdo Kim,

- “Effective load transfer by chromium carbide nanostructure formation in the multi-walled carbon nanotube/copper matrix composite”, *Nanotechnology* 23 (2012) 315705. [FA,CA]
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- oxygen plasma”, *Korean Journal of Materials Research* 17(5) (2007) 263. [FA]
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