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Selected Scholarly Contributions [Data Provided by Scopus]

Yang, H.S., Kim, S.-H., Kannan, A.G., Kim, S.K., Park, C., Kim, D.-W.

Performance Enhancement of Silicon Alloy-Based Anodes Using Thermally Treated Poly(amide imide) as a Polymer Binder for High Performance Lithium-Ion Batteries

(2016) Langmuir, 32 (13), pp. 3300-3307.

Lee, J.-M., Cho, K.H., Kim, D.-W., Chung, I.

Analysis of gate-induced drain leakage characteristics and threshold voltage modulation of plasma-doped FinFETs for low-power applications

(2016) Japanese Journal of Applied Physics, 55 (4), art. no. 04ED17, .

Kim, C.-H., Han, J.-Y., Kim, N.-C., Ryi, S.-K., Kim, D.-W.

Characteristics of dense palladium alloy membranes formed by nano-scale nucleation and lateral growth

(2016) Journal of Membrane Science, 502, pp. 57-64.

Ponraj, R., Kannan, A.G., Ahn, J.H., Kim, D.-W.

Improvement of Cycling Performance of Lithium-Sulfur Batteries by Using Magnesium Oxide as a Functional Additive for Trapping Lithium Polysulfide

(2016) ACS Applied Materials and Interfaces, 8 (6), pp. 4000-4006.

Kim, D.W., Lee, H.-D., de Silva, C.W., Park, J.-W.

Service-provider intelligent humanoid robot using TCP/IP and CORBA

(2016) International Journal of Control, Automation and Systems, pp. 1-8. Article in Press.

Kim, S.-K., Jung, Y.-C., Kim, D.-H., Shin, W.-C., Ue, M., Kim, D.-W.

Lithium-ion cells assembled with flexible hybrid membrane containing Li⁺-conducting lithium aluminum germanium phosphate

(2016) Journal of the Electrochemical Society, 163 (6), pp. A974-A980.

Kannan, A.G., Kim, S.H., Yang, H.S., Kim, D.-W.

[Silicon nanoparticles grown on a reduced graphene oxide surface as high-performance anode materials for lithium-ion batteries](#)

(2016) RSC Advances, 6 (30), pp. 25159-25166.

Kim, D.W.

[Humanoid robot based on the middleware CORBA](#)

(2015) ICCAS 2015 - 2015 15th International Conference on Control, Automation and Systems, Proceedings, art. no. 7364838, pp. 1302-1304.

Shin, W.-K., Kannan, A.G., Kim, D.-W.

[Effective Suppression of Dendritic Lithium Growth Using an Ultrathin Coating of Nitrogen and Sulfur Codoped Graphene Nanosheets on Polymer Separator for Lithium Metal Batteries](#)

(2015) ACS Applied Materials and Interfaces, 7 (42), pp. 23700-23707.

Lee, J.-H., Han, J.-Y., Kim, K.-M., Ryi, S.-K., Kim, D.-W.

[Development of homogeneous Pd-Ag alloy membrane formed on porous stainless steel by multi-layered films and Ag-upfilling heat treatment](#)

(2015) Journal of Membrane Science, 492, pp. 242-248.

Annamalai, A., Kannan, A.G., Lee, S.Y., Kim, D.-W., Choi, S.H., Jang, J.S.

[Role of Graphene Oxide as a Sacrificial Interlayer for Enhanced Photoelectrochemical Water Oxidation of Hematite Nanorods](#)

(2015) Journal of Physical Chemistry C, 119 (34), pp. 19996-20002.

Kwon, K.-C., Song, M.-J., Kwon, K.-H., Jeoung, H.-V., Kim, D.-W., Lee, G.-S., Hong, J.-P., Park, J.-G.

[Nanoscale CuO solid-electrolyte-based conductive-bridging-random-access-memory cell operating multi-level-cell and 1selector1resistor](#)

(2015) Journal of Materials Chemistry C, 3 (37), pp. 9540-9550.

Arriaza, O.V., Kim, D.-W., Lee, D.Y., Suhaimi, M.A.

[Trade-off analysis between machining time and energy consumption in impeller NC machining](#)

(2015) Robotics and Computer-Integrated Manufacturing, . Article in Press.

Jung, Y.-C., Choi, J.-H., Lee, S.-M., Doh, C.-H., Kim, D.-W.
[PEO/NASICON based hybrid solid electrolyte for all solid-state lithium battery](#)
(2015) 28th International Electric Vehicle Symposium and Exhibition 2015, EVS 2015, .

Lee, Y., Kim, T.Y., Kim, D.-W., Lee, J.K., Choi, W.
[Coating of spinel LiNi_{0.5}Mn_{1.5}O₄ cathodes with SnO₂ by an electron cyclotron resonance metal-organic chemical vapor deposition method for high-voltage applications in lithium ion batteries](#)
(2015) Journal of Electroanalytical Chemistry, 736, pp. 16-21.

Ryi, S.-K., Ahn, H.-S., Park, J.-S., Kim, D.-W.
[Pd-Cu alloy membrane deposited on CeO₂ modified porous nickel support for hydrogen separation](#)
(2014) International Journal of Hydrogen Energy, 39 (9), pp. 4698-4703.

Lee, C.-S., Heo, E.-Y., Lee, D.Y., Kim, J.-M., Kim, D.-W.
[Tool path generation considering NC block-based machining stability](#)
(2014) FAIM 2014 - Proceedings of the 24th International Conference on Flexible Automation and Intelligent Manufacturing: Capturing Competitive Advantage via Advanced Manufacturing and Enterprise Transformation, pp. 117-122.

Suhaimi, M.A., Kim, D.-W., Lee, J.-Y., Arriaza, O.V.
[Rough-cut machining an impeller with 3-axis and 5-axis NC machines](#)
(2014) FAIM 2014 - Proceedings of the 24th International Conference on Flexible Automation and Intelligent Manufacturing: Capturing Competitive Advantage via Advanced Manufacturing and Enterprise Transformation, pp. 689-696.

Na, K.-Y., Baek, K.-J., Kim, J.-K., Kim, D., Kim, N.-S., Kim, Y.-S.
[Improved body effect and analog characteristics of N-channel MOSFET with lateral asymmetric substrate doping](#)
(2014) IEEE Transactions on Electron Devices, 61 (7), art. no. 6814917, pp. 2250-2256.

Arriaza, O.V., Kim, D.-W., Lee, J.-Y., Suhaimi, M.A.

[Balancing tradeoffs between machining time and energy consumption for impeller rough machining](#)
(2014) FAIM 2014 - Proceedings of the 24th International Conference on Flexible Automation and Intelligent Manufacturing: Capturing Competitive Advantage via Advanced Manufacturing and Enterprise Transformation, pp. 671-678.

Suhaimi, M.A., Kim, D.-W., Cuka, B.K.

[Roughing an impeller: A review](#)
(2014) FAIM 2014 - Proceedings of the 24th International Conference on Flexible Automation and Intelligent Manufacturing: Capturing Competitive Advantage via Advanced Manufacturing and Enterprise Transformation, pp. 679-687.

Arun, V., Agrawal, N., Lavallee, G., Cantoro, M., Kim, S.-S., Kim, D.-W., Datta, S.

[Investigation of In_xGa_{1-x}As FinFET architecture with varying indium \(x\) concentration and quantum confinement](#)

(2014) Digest of Technical Papers - Symposium on VLSI Technology, art. no. 6894372, .

Lee, S.-H., Kim, Y.-R., Hong, J.-H., Jeong, E.-Y., Yoon, J.-S., Baek, C.-K., Kim, D.-W., Lee, J.-S., Jeong, Y.-H.

[Investigation of low-frequency noise in p-type nanowire FETs: Effect of switched biasing condition and embedded SiGe layer](#)

(2014) IEEE Electron Device Letters, 35 (7), art. no. 6823696, pp. 702-704.

Lee, D., Kim, D., Yi, J.-H., Kim, D.W.

[Real-time hybrid path planning algorithm for mobile robot](#)

(2014) Transactions of the Korean Institute of Electrical Engineers, 63 (1), pp. 115-122.

Kim, D.W., Lee, H.-D., Park, S.-W., Park, J.-W.

[Network based intelligent agent for ubiquitous environments](#)

(2014) Lecture Notes in Electrical Engineering, 279 LNEE, pp. 523-530.

Park, T.-G., Kim, D.

[Design of unknown input observers for linear systems with unmatched unknown inputs](#)

(2014) Transactions of the Institute of Measurement and Control, 36 (3), pp. 399-410.

Han, J.-Y., Kim, C.-H., Kim, S.-H., Kim, D.-W.
[Development of Pd alloy hydrogen separation membranes with dense/porous hybrid structure for high hydrogen perm-selectivity](#)
(2014) Advances in Materials Science and Engineering, 2014, art. no. 438216, .

Kim, D.W., Lee, H.-D., Park, S.-W., Park, J.-W.
[Network based intelligent agent for ubiquitous environments](#)
(2014) Lecture Notes in Electrical Engineering, 279 LNEE, pp. 1357-1364.

Lee, S.-H., Kim, Y.-R., Hong, J.-H., Jeong, E.-Y., Jang, J.-W., Yoon, J.-S., Kim, D.-W., Baek, C.-K., Lee, J.-S., Jeong, Y.-H.
[Characterization of low frequency noise in nanowire FETs considering variability and quantum effects](#)
(2013) Device Research Conference - Conference Digest, DRC, art. no. 6633824, pp. 123-124.

Kim, D.W.
[A study on the humanoid-robot-posture-generation](#)
(2013) International Conference on Control, Automation and Systems, art. no. 6703907, pp. 273-275.

Kim, D.W.
[Serviceable intelligent agent for ubiquitous](#)
(2013) International Conference on Control, Automation and Systems, art. no. 6704170, pp. 1366-1368.

Kang, T.-K., Zhang, H., Park, G.-T., Kim, D.W.
[Ego-motion-compensated object recognition using type-2 fuzzy set for a moving robot](#)
(2013) Neurocomputing, 120, pp. 130-140.

Kim, H.J., Kim, D.W., Kim, S.W.
[Characteristics of optical diffusers for light-emitting diodes backlight unit prepared by melt-extrusion process](#)
(2013) Japanese Journal of Applied Physics, 52 (10 PART2), art. no. 10MB24, .

Kim, K., Kim, D., Kim, D.

[Redundant-path scheme for efficient interworking between a wireless sensor network and the internet](#)
(2013) International Journal of Distributed Sensor Networks, 2013, art. no. 813070, .

Najam, F., Yu, Y.S., Cho, K.H., Yeo, K.H., Kim, D.-W., Hwang, J.S., Kim, S., Hwang, S.W.

[Interface trap density of gate-all-around silicon nanowire field-effect transistors with TiN gate: Extraction and compact model](#)

(2013) IEEE Transactions on Electron Devices, 60 (8), art. no. 6548055, pp. 2457-2463.

Kim, D.W., Lee, H.-D., Park, S.-W., Park, J.-W.

[Use of flexible network framework for various service components of network based robot](#)

(2013) Lecture Notes in Electrical Engineering, 240 LNEE, pp. 597-600.

Kim, D.W., Park, S.-W., Park, J.-W.

[Use of genetic algorithm for robot-posture](#)

(2013) Lecture Notes in Electrical Engineering, 240 LNEE, pp. 593-596.

Kang, T.-K., Lim, M.-T., Park, G.-T., Kim, D.W.

[3D vision-based local path planning system of a humanoid robot for obstacle avoidance](#)

(2013) Journal of Electrical Engineering and Technology, 8 (4), pp. 879-888.

Kim, D.W., Lasky, T.A., Velinsky, S.A.

[Autonomous multi-mobile robot system: Simulation and implementation using fuzzy logic](#)

(2013) International Journal of Control, Automation and Systems, 11 (3), pp. 545-554.

Kim, Y.-R., Lee, S.-H., Sohn, C.-W., Choi, D.-Y., Sagong, H.-C., Kim, S., Jeong, E.-Y., Kim, D.-W., Hong, H., Baek, C.-K., Lee, J.-S., Jeong, Y.-H.

[Simple S/D series resistance extraction method optimized for nanowire FETs](#)

(2013) IEEE Electron Device Letters, 34 (7), art. no. 6517866, pp. 828-830.

Lee, C.-S., Heo, E.-Y., Kim, J.-M., Choi, I.-H., Kim, D.-W.

[Electrode wear estimation and compensation for EDM drilling](#)

(2013) Lecture Notes in Mechanical Engineering, 7, pp. 525-536.

Kim, D.-W., Suhaimi, M.A., Kim, B.-M., Cho, M.-H., Chen, F.F.
[Rough cut machining for impellers with 3-axis and 5-axis NC machines](#)
(2013) Lecture Notes in Mechanical Engineering, 7, pp. 609-616.

Kim, D.W., Lee, H.-D., Park, J.-W., Park, S.-W.
[Flexible network framework for various service components of network based robot](#)
(2012) Communications in Computer and Information Science, 350 CCIS, pp. 137-144.

Kim, D.W., Park, J.-W., Park, S.-W.
[Genetic algorithm based robot posture](#)
(2012) Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics), 7709 LNCS, pp. 65-72.

Kim, D.-W., Choi, S., Yoon, J.S., Chung, C.
[Future logic device technologies beyond the 28nm node](#)
(2012) ICSICT 2012 - 2012 IEEE 11th International Conference on Solid-State and Integrated Circuit Technology, Proceedings, art. no. 6467592, .

Park, M.-R., Kim, D., Kim, S.-H.
[A simple SNR based linear back-off to propagate multi-hop emergency messages on the distributed VANETs](#)
(2012) Communications in Computer and Information Science, 341 CCIS, pp. 34-41.

Kim, H.J., Kim, D.W., Kim, S.W.
[Improvement of optical and thermo-mechanical properties of polycarbonate-based diffusers for LED backlight unit by incorporation of porous silica particles](#)
(2012) Polymer (Korea), 36 (6), pp. 761-767.

Kim, D.W., Seo, S.-J., Kim, Y.-G.
[Use of an evolutionary inductive self-organizing network for uncertain nonlinear and robotic systems](#)
(2012) International Journal of Advanced Robotic Systems, 9, art. no. 147, .

Kwak, H.-J., Kim, D.-W., Park, G.-T.
[A new fuzzy inference technique for singleton type-2 fuzzy logic systems](#)
(2012) International Journal of Advanced Robotic Systems, 9, art. no. 81, .

Lee, S.-H., Baek, C.-K., Park, S., Kim, D.-W., Sohn, D.K., Lee, J.-S., Kim, D.M., Jeong, Y.-H.
[Characterization of channel-diameter-dependent low-frequency noise in silicon nanowire field-effect transistors](#)
(2012) IEEE Electron Device Letters, 33 (10), art. no. 6287544, pp. 1348-1350.

Kang, T.-K., Zhang, H., Kim, D.W., Park, G.-T.
[Enhanced SIFT descriptor based on modified discrete Gaussian-Hermite moment](#)
(2012) ETRI Journal, 34 (4), pp. 572-582.

Kim, J.-P., Jang, M.-S., Kim, W.-H., Joo, J.-Y., Cho, J.-H., Kim, D.-W., Song, S.-B.
[Improvement in the color uniformity of LED by microspheres generated from phase separation](#)
(2012) Optical Materials, 34 (9), pp. 1614-1617.

Kim, S.H., Bae, H.J., Oh, C.W., Kim, D.-W., Yamada, S., Jin, G., Roh, Y.
[Advanced 10nm width silicon-on-insulator tri-gate transistors with no annealing of gate oxide using optimized novel silicon-on-insulator realization technology](#)
(2012) Japanese Journal of Applied Physics, 51 (4 PART 2), art. no. 04DC04, .

Kim, D.W., Kim, N.-H., Park, G.-T.
[ZMP based neural network inspired humanoid robot control](#)
(2012) Nonlinear Dynamics, 67 (1), pp. 793-806.

Ryi, S.-K., Park, J.-S., Hwang, K.-R., Kim, D.-W., An, H.-S.
[Pd-Cu alloy membrane deposited on alumina modified porous nickel support \(PNS\) for hydrogen separation at high pressure](#)
(2012) Korean Journal of Chemical Engineering, 29 (1), pp. 59-63.

Kim, Y.-R., Lee, S.-H., Baek, C.-K., Baek, R.-H., Yeo, K.-H., Kim, D.-W., Lee, J.-S., Jeong, Y.-H.
[Reliable extraction of series resistance in silicon nanowire FETs using Y-function technique](#)
(2011) 2011 IEEE Nanotechnology Materials and Devices Conference, NMDC 2011, art. no. 6155357, pp. 262-265.

Hong, B.H., Hwang, S.W., Lee, Y.Y., Son, M.H., Ahn, D., Cho, K.H., Yeo, K.H., Kim, D.-W., Jin, G.Y., Park, D.
[Low temperature characterization of PMOS-type gate-all-around silicon nanowire FETs as single-hole-transistors](#)
(2011) AIP Conference Proceedings, 1399, pp. 291-292.

Kim, D.W.
[Evolved humanoid robot walking](#)
(2011) International Conference on Control, Automation and Systems, art. no. 6106234, pp. 1509-1511.

Hong, B.H., Cho, N., Lee, S.J., Yu, Y.S., Choi, L., Jung, Y.C., Cho, K.H., Yeo, K.H., Kim, D.-W., Jin, G.Y., Oh, K.S., Park, D., Song, S.-H., Rieh, J.-S., Hwang, S.W.
[Subthreshold degradation of gate-all-around silicon nanowire field-effect transistors: Effect of interface trap charge](#)
(2011) IEEE Electron Device Letters, 32 (9), art. no. 5944946, pp. 1179-1181.

Wang, R., Zhuge, J., Huang, R., Yu, T., Zou, J., Kim, D.-W., Park, D., Wang, Y.
[Investigation on variability in metal-gate Si nanowire MOSFETs: Analysis of variation sources and experimental characterization](#)
(2011) IEEE Transactions on Electron Devices, 58 (8), art. no. 5746516, pp. 2317-2325.

Hong, B., Lee, S., Hwang, S., Cho, K., Yeo, K.H., Kim, D.-W., Jin, G., Park, D.
[Co-existence of random telegraph noise and single-hole-tunneling state in gate-all-around PMOS silicon nanowire field-effect-transistors](#)
(2011) Journal of Semiconductor Technology and Science, 11 (2), pp. 80-87.

Baek, R.-H., Baek, C.-K., Choi, H.-S., Lee, J.-S., Yeoh, Y.Y., Yeo, K.H., Kim, D.-W., Kim, K., Kim, D.M., Jeong, Y.-H.

[Characterization and modeling of 1/f noise in Si-nanowire FETs: Effects of cylindrical geometry and different processing of oxides](#)

(2011) IEEE Transactions on Nanotechnology, 10 (3), art. no. 5422646, pp. 417-423.

Jung, Y.C., Hong, B.H., Choi, L., Hwang, S.W., Cho, K.H., Lee, S.-Y., Kim, D.-W., Park, D.

[Experimental investigations on ballistic transport in multi-bridged channel field effect transistors](#)

(2011) Japanese Journal of Applied Physics, 50 (4 PART 2), art. no. 04DC18, .

Baek, R.-H., Baek, C.-K., Lee, S.-H., Suk, S.D., Li, M., Yeoh, Y.Y., Yeo, K.H., Kim, D.-W., Lee, J.-S., Kim, D.M., Jeong, Y.-H.

[C-V characteristics in undoped gate-all-around nanowire FET array](#)

(2011) IEEE Electron Device Letters, 32 (2), art. no. 5671455, pp. 116-118.

Kim, D.W., Park, T.-G.

[An Energy Efficient MAC protocol providing guaranteed service for wireless sensor network](#)

(2011) KSII Transactions on Internet and Information Systems, 5 (1), pp. 123-140.

Kang, T.-K., Kim, D., Park, G.-T.

[Development of vision based autonomous obstacle avoidance system for a humanoid robot](#)

(2011) Transactions of the Korean Institute of Electrical Engineers, 60 (1), pp. 161-166.

Baek, R.-H., Ko, M.-D., Lee, S.-H., Baek, C.-K., Yeo, K.H., Kim, D.-W., Lee, J.-S., Kim, D.M., Jeong, Y.-H.

[RETRACTED ARTICLE: Analysis of parasitic bottom capacitance in n- and p-type Si-nanowire field effect transistors on bulk](#)

(2011) Proceedings of the IEEE Conference on Nanotechnology, art. no. 6144524, pp. 139-143.

Jeong, Y.-H., Baek, R.-H., Baek, C.-K., Yeo, K.H., Kim, D.-W., Chung, J.Y., Kim, D.M.

[Comparative study of C-V characteristics in Si-NWFET and MOSFET](#)

(2010) 2010 IEEE Nanotechnology Materials and Devices Conference, NMDC2010, art. no. 5651942, pp. 26-29.

Kim, D.W., Kang, J.-H., Park, G.-T.

[Door-opening behaviour by home service robot in a house](#)

(2010) International Journal of Robotics and Automation, 25 (4), pp. 271-284.

Liu, C., Yu, T., Wang, R., Zhang, L., Huang, R., Kim, D.-W., Park, D., Wang, Y.

[Negative-bias temperature instability in gate-all-around silicon nanowire MOSFETs: Characteristic modeling and the impact on circuit aging](#)

(2010) IEEE Transactions on Electron Devices, 57 (12), art. no. 5594998, pp. 3442-3450.

Baek, R.-H., Choi, H.-S., Sagong, H.C., Lee, S.-H., Choi, G.-B., Song, S.H., Park, C.-H., Lee, J.-S., Jeong, Y.-H., Baek, C.-K., Kim, D.M., Yeoh, Y.Y., Yeo, K.H., Kim, D.-W., Kim, K.

[Characterization of Gate-All-Around Si-NWFET, including Rsd, cylindrical coordinate based 1/f noise and hot carrier effects](#)

(2010) IEEE International Reliability Physics Symposium Proceedings, art. no. 5488846, pp. 94-98.

Kim, D.W., Kim, N.-H., Park, G.-T.

[Neural network control of humanoid robot](#)

(2010) Journal of Institute of Control, Robotics and Systems, 16 (10), pp. 963-968.

Kim, D.-W., Park, Y.-J., Kang, S.-M., An, H.-S., Park, J.-S.

[Pd-Cu-Ni ternary alloy membrane with high temperature durability for hydrogen separation and purification](#)

(2010) Japanese Journal of Applied Physics, 49 (10), pp. 1002081-1002083.

Kim, D.-W., Yeo, K.H., Suk, S.D., Li, M., Yeoh, Y.Y., Sohn, D.K., Chung, C.

[Fabrication and electrical characteristics of Self-aligned \(SA\) Gate-All-Around \(GAA\) Si NanoWire MOSFETs \(SNWFET\)](#)

(2010) 2010 IEEE International Conference on Integrated Circuit Design and Technology, ICICDT 2010, art. no. 5510288, pp. 63-66.

Kim, D.W., De Silva, C.W., Park, G.-T.

[Evolutionary design of Sugeno-type fuzzy systems for modelling humanoid robots](#)

(2010) International Journal of Systems Science, 41 (7), pp. 875-888.

Kim, D.-W., Park, Y.J., Woo, B.-I., Kang, S.-M., Park, J.-S.

Study on the perm-selectivity of thin Pd-Cu-Ni ternary alloy membrane for hydrogen purification and separation

(2010) Japanese Journal of Applied Physics, 49 (1 Part 1), art. no. 018003, .

Baek, R.-H., Baek, C.-K., Jung, S.-W., Yeoh, Y.Y., Kim, D.-W., Lee, J.-S., Kim, D.M., Jeong, Y.-H.

Comparison of series resistance and mobility degradation extracted from n- and p-type si-nanowire field effect transistors using the y-function technique

(2010) Japanese Journal of Applied Physics, 49 (4 PART 2), art. no. 04DN06, .

Baek, R.-H., Baek, C.-K., Jung, S.-W., Yeoh, Y.Y., Kim, D.-W., Lee, J.-S., Kim, D.M., Jeong, Y.-H.

Characteristics of the series resistance extracted from Si Nanowire FETs Using the Y-function technique

(2010) IEEE Transactions on Nanotechnology, 9 (2), art. no. 5170055, pp. 212-217.

Kim, D.W., Yi, C.-H.

Multi-mobile robot system with fuzzy rule based structure in collision avoidance

(2010) Journal of Institute of Control, Robotics and Systems, 16 (3), pp. 233-238.

Oh, C.W., Kim, S.H., Kim, D.-W., Park, D., Kim, K.

Hybrid integration of ultrathin-body partially insulated MOSFETs and a bulk MOSFET for better IC performance: A multiple-VTHechnology using partial SOI structure

(2010) IEEE Electron Device Letters, 31 (1), art. no. 5337920, pp. 59-61.

Ryi, S.-K., Park, J.-S., Kim, S.-H., Kim, D.-W., Woo, B.-I., Grace, J.R.

Development of a hydrogen purifier with Pd-based composite membrane

(2010) Korean Journal of Chemical Engineering, 27 (1), pp. 235-240.

Kim, J.-H., Kim, D.W., You, B.-J., Park, G.-T.

A design of framework for smart services of robots in intelligent environment

(2009) Communications in Computer and Information Science, 65, pp. 55-61.

Zhuge, J., Wang, R., Huang, R., Zou, J., Huang, X., Kim, D.-W., Park, D., Zhang, X., Wang, Y.
[Experimental investigation and design optimization guidelines of characteristic variability in silicon nanowire CMOS technology](#)
(2009) Technical Digest - International Electron Devices Meeting, IEDM, art. no. 5424421, pp. 3.5.1-3.5.4.

Kim, J-H., Kim, D-W., You, B-J., Park, G-T.
[A design of framework for smart services of robots in intelligent environment](#)
(2009) International Journal of Control and Automation, 2 (4), pp. 1-12.

Sung, D.S., Li, M., Yun, Y.Y., Kyoung, H.Y., Jae, K.H., Lim, H., Park, H., Kim, D.-W., Chung, T., Kyung, S.O., Lee, W.-S.
[Characteristics of sub 5nm tri-gate nanowire MOSFETs with single and poly Si channels in SOI structure](#)
(2009) Digest of Technical Papers - Symposium on VLSI Technology, art. no. 05200665, pp. 142-143.

Chang, W.O., Hyun, J.B., Jae, K.H., Sang, J.P., Bok, K.P., Kim, D.-W., Chung, T., Kyung, S.O., Lee, W.-S.
[A novel thin BOX SOI technology using bulk Si wafer for system-on-chip \(SoC\) application](#)
(2009) Digest of Technical Papers - Symposium on VLSI Technology, art. no. 5200647, pp. 96-97.

Ming, L., Kyoung, H.Y., Sung, D.S., Yun, Y.Y., Kim, D.-W., Tae, Y.C., Kyung, S.O., Lee, W.-S.
[Sub-10 nm gate-all-around CMOS nanowire transistors on bulk Si substrate](#)
(2009) Digest of Technical Papers - Symposium on VLSI Technology, art. no. 5200646, pp. 94-95.