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## SCI Journals

Total: 3/5

1. **Keonhee Kim**, Soojin Park, Su Man Hu, Jonghan Song, Weoncheol Lim, Yeonjoo Jeong, Jaewook Kim, Suyoun Lee, Joon Young Kwak, Jongkil Park, Jong Keuk Park, Byeong-Kwon Ju, Doo Seok Jeong, Inho Kim\*  
"Enhanced analog synaptic behavior of SiNx/a-Si bilayer memristors through Ge implantation"  
NPG Asia Materials volume 12, Article number: 77 (2020)
2. **Keonhee Kim**, Dae Cheol Kang, Yeonjoo Jeong, Jaewook Kim, Suyoun Lee, Joon Young Kwak, Jongkil Park, Gyu Weon Hwang, Kyeong-Seok Lee, Byeong-Kwon Ju, Jong Keuk Park, Inho Kim\*  
"Ion beam-assisted solid phase epitaxy of SiGe and its application for analog memristors"  
Journal of Alloys and Compounds Volume 884, 5, 161086, (2021)
3. **Keonhee Kim**, Jae Gwang Lim, Su Man Hu, Yeonjoo Jeong, Jaewook Kim, Suyoun Lee, Joon Young Kwak, Jongkil Park, Gyu Weon Hwang, Kyeong-Seok Lee, Seongsik Park, Wook-Seong Lee, Byeong-Kwon Ju, Jong Keuk Park & Inho Kim\*  
"Multifilamentary switching of Cu/SiOx memristive devices with a Ge-implanted a-Si underlayer for analog synaptic devices"  
NPG Asia Materials volume 15, Article number: 48 (2023)
4. Samuel Shin, Dae Cheol Kang, **Keonhee Kim**, Yeonjoo Jeong, Jaewook Kim, Suyoun Lee, Joon Young Kwak, Jongkil Park, Gyu Weon Hwang, Kyeong-Seok Lee, Jong Keuk Park, Jian Li\* and Inho Kim\*  
"Emulating the short-term plasticity of a biological synapse with a ruthenium complex-based organic mixed ionic-electronic conductor"  
Materials Advances, 2022, 3, 2827-2837, (2022)
5. Youngseok Lee, Jeong-Hyun Woo, **Keonhee Kim**, Kyeong Seok Lee, Yeonjoo Jeong, Jaewook Kim, Gyu Weon Hwang, Doh-Kwon Lee, Ju-Young Kim, Inho Kim\*  
"Laser-Assisted Nanotexturing for Flexible Ultrathin Crystalline Si Solar Cells"  
Solar RRLVolume 7, Issue 19 2300376, (2023)

## International Conferences

Total: 3/5

1. **Keonhee Kim**, Soojin Park, Dae cheol Kang, Jonghan Song, Weoncheol Lim, Yeonjoo Jeong, Jaewook Kim, Suyoun Lee, Joon Young Kwak, Jongkil Park, Byeong-Kwon Ju, Inho Kim\*, Jong Keuk Park\*,  
"CBRAM based on SiGe thin films grown by solid phase epitaxy and its application for neuromorphic computing"  
Poster, Jeju, Korea, ENGE, 1-4 nov 2020
2. **Keonhee Kim**, Dae Cheol Kang, Jae Gwang Lim, Yeonjoo Jeong, Jaewook Kim, Suyoun Lee, Joon Young Kwak, Jongkil Park, Gyu Weon Hwang, Kyeong-Seok Lee, Seongsik Park, Byeong-Kwon Ju, Inho Kim, Jong Keuk Park\*  
"Cu/SiOx Memristive Devices with Insertion of a-SiGe Buffer Layer for Reliable Analog Synapse Behavior"  
Oral, Jeju, Korea, ENGE, 6-9 nov 2022
3. **Keonhee Kim**, Jae Gwang Lim, Seung, Yeonjoo Jeong, Jaewook Kim, Suyoun Lee, Joon Young Kwak, Jongkil Park, Gyu Weon Hwang, Kyeong-Seok Lee, Seongsik Park, Byeong-Kwon Ju, Jong Keuk Park, Inho Kim\*  
"Implementation of memristive devices with self-rectifying and analog switching by modulation of dual Schottky barriers"  
Oral, Boston, US, MRS Fall, 26 nov - 2 dec 2023
4. Soojin Park, **Keonhee Kim**, Su Man Hu, Jonghan Song, Weoncheol Lim, Yeonjoo Jeong, Jaewook Kim, Suyoun Lee, Joon Young Kwak, Jongkil Park, Jong Keuk Park, Byeong-Kwon Ju, Doo Seok Jeong, Inho Kim\*  
"Improved analog behaviors of dielectric/a-Si bilayer memristors by ion implantation for neuromorphic computing applications"  
Poster, Jeju, Korea, ENGE, 1-4 nov 2020
5. Sarah Chang, Beom Sic Jung, Sung Kyu Lim, **Keon Hee Kim**, Jong-Keuk Park, Inho Kim  
"Resistive memry based on Si grown by RF CVD for Artificial synapses."  
Poster, Jeju, Korea, ENGE, 1-4 nov 2018

## Domestic Conferences

Total: 1/1

1. **Keonhee Kim**, Dae Cheol Kang, Jae Gwang Lim, Yeonjoo Jeong, Jaewook Kim, Suyoun Lee, Joon Young Kwak, Jongkil Park, Gyu Weon Hwang, Kyeong-Seok Lee, Byeong-Kwon Ju, Jong Keuk Park\*, Inho Kim\*  
"Analog Memristive Devices with an Ion-Implanted Current Limiting Layer for Neuromorphic Computing"  
Oral, Gangwon-do, Korea, 24-26 Jan 2022

## Technical Papers

Total: 1/1

1. 강대철, **김건희**, 김태현, 임재광, 주병권\*  
"뉴로모픽 소자, 인간의 지능을 기계로 구현하라"  
전자과학 p.53-59 (2021.08)

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**Patents**

Total: 0/2

- 1 Inho Kim, Jong Keuk Park, Suyoun Lee, Jongkil Park, Joon Young Kwak, Jaewook Kim, Yeonjoo Jeong, **Keonhee Kim**, Kyeong-Seok Lee, Gyu Weon Hwang  
"매개 변수 변동이 감소되는 메모리스터 소자"  
Korea - 출원번호 10-2021-0069775
- 2 Inho Kim, Suyoun Lee, Joon Young Kwak, Jaewook Kim, Jongkil Park, Yeonjoo Jeong, Jong Keuk Park, Soojin Park, **Keonhee Kim**,  
"아날로그 시냅스 동작을 제공하는 비정질 실리콘 층 및 유전체 층을 포함하는 다층 메모리스터 장치"  
Korea - 출원번호 10-2020-0089357