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백운규

서울 공과대학 에너지공학과 교수이자, 나노소자공정연구실장을 겸임하고 있다.

에너지공학과 홈페이지 참고(2019.10.)

- 2020년 최상위논문연구자
- 2019년 최상위연구자

□

목차

학력

- Ph.D. Department of Ceramic Eng., Clemson University 1991
- M.E. Materials Sci. and Eng., Virginia Polytechnic Inst. and State Univ. 1988
- B.S. Ceramic Engineering, Hanyang University 1986

경력

- 2010 Present, Professor, Department of Energy Engineering, Hanyang University
- 2008 Present, Technology counselor, Samsung SDI Corporate Research & Development Center
- 2007 Present, Executive Director, Research & Development Planning Center for Energy & Resources
- 2007 Present, Technology counselor, Hynix semiconductor
- 2006 2010, Professor, Division of Materials Science Engineering, Hanyang University
- 1999 2006, Professor, Department of Ceramic Engineering, Hanyang University

Professional Activities

- 2015.03 Present, Head, Department of Energy Engineering, Hanyang University
- 2015.03 Present, Director, Future convergence Energy-Leaders BK21+ Program
- 2016.03 Present, Editorial Board, Journal of Scientific Report
- 2014.01 Present, Editorial Board, Journal of Nanomaterials
- 2012.01 2014.01, Director, International Collaborative R&D Program for Energy
- 2011.01 Present, Director, Gas-turbine R&D Program
- 2009.01 Present, HYU Distinguished Professor, Department of Energy Engineering, Hanyang Univ.
- 2007.06 Present, Director, Global Research Laboratory for Nano Device Processing Laboratory

연구관심분야

Energy Materials, Nano Patterning, Nano Devices Fabrication

주요연구과제

주요논문

- 1. Etching-in-a-Box: A Novel Strategy to Synthesize Unique Yolk-Shelled Fe3O4@Carbon with an Ultralong Cycling Life for Lithium Storage, Advanced Energy Materials (2016)
- 2. Graphene as an Interfacial Layer for Improving Cycling Performance of Si Nanowires in LithiumIon Batteries, Nano Letters (2015)
- 3. Construction of hybrid bowl-like structures by anchoring NiO nanosheets on flat carbon hollow particles with enhanced lithium storage properties, Energy & Environmental Science, (2015)
- 4. Assembly of micro/nanomaterials into complex, three-dimensional architectures by compressive buckling, Science (2015)
- 5. Soft network composite materials with deterministic and bio-inspired designs, Nature Communication (2015).
- 6. Porosity-Controlled TiNb2O7 Microspheres with Partial Nitridation as A Practical Negative Electrode for High-Power Lithium-Ion Batteries, Advanced Energy Materials (2015)
- 7. Surface-Coverage-Dependent Cycle Stability of Core-Shell Nanostructured Electrodes for Use in Lithium Ion Batteries, Advanced Energy Materials (2014)

저서

수상

- 2022, 세계에서 가장 영향력 있는 연구자 HCR(Highly Cited Researchers) 선정[1]
- 2012, 이 달의 과학기술자상 12월 수상자 선정
- 2011, One of 100 people who will lead Korea after 10 years by Dong-A Newspaper
- 2009, The Great Scholar Award from Hanyang University
- 2008, Scientist of the Month Award from Korea Science and Engineering Foundation
- 2007, Minister's Award from the Ministry of Commerce

언론 활동

1. ↑ <뉴스H> 2023.06.07 크로스 필드 분야 세계 최상위 연구자, 에너지공학과 백운규 교수