

**Name: Prof. Aleksandra B. Djurišić**

**Academic qualifications:**

**1997, PhD**, 1995, MSc, 1994, Dipl.Ing EE in Elec. Eng., School of Electrical Engineering (EE), University of Belgrade, Belgrade, Yugoslavia

**Previous academic positions held:**

03 2009 – 06 2013 Associate Professor, Dept. of Physics, HKU  
07 2003 – 02 2009 Assistant Professor, Dept. of Physics, HKU  
08 2001- 06 2003 Research Assistant Professor, EEE Dept. & Physics Dept, HKU  
05. 2000 –07 2001 Postdoctoral fellow, Department of EEE, HKU  
10. 1998 – 03. 2000 Alexander von Humboldt postdoctoral fellow, Institute for Applied Photophysics, University of Technology Dresden  
11. 1997 – 09. 1998 William Mong postdoctoral fellow, Department of EEE, HKU  
1994 –1997 Research & teaching associate, School of EE, University of Belgrade,

**Present academic position: 07 2013 – present Professor, Dept. of Physics, HKU**

**Relevant Research Work**

Nanomaterials, optoelectronics, organic materials and devices, photocatalysis.

**ISI Web of Science indicators:**

Publications (total)=340, Times cited=14530, h-index=54, m=2.35

**ISI Essential Science Indicators:** Ranked in top 1% in Materials Science; Highly cited papers: 4 (all fields, accessed Sept. 2018).

**Awards:**

Outstanding Young Researcher of the University of Hong Kong in 2005/2006.  
March 2009, The CSJ (Chemical Society of Japan) Asian International Symposium, The Distinguished Lectureship Award for work on Organic optoelectronics  
HKU Science Faculty KE Award 2012

**Professional Membership and activities**

Senior Member, OSA, SPIE

Editorial Board Member: Thin Solid Films (2011-present)

**Ten representative publications**

**A Recent five years (2014-2018)**

1. W. Chen, F. Z. Liu, X. Y. Fen, **A. B. Djurišić**, W. K. Chan, Z. B. He, „Cesium doped NiO<sub>x</sub> as an efficient hole transport material for high performance perovskite solar cells“, Adv. Energy Mater. 7, 1700722, 2017. **(inside back cover)**
2. F. Z. Liu, Q. Dong, M. K. Wong, **A. B. Djurišić**, A. Ng, Z. W. Ren, Q. Shen, C. Surya, W. K. Chan, J. Wang, A. M. C. Ng, C. Z. Liao, H. K. Li, K. M. Shih, C. R. Wei, H. M. Su, and J. F. Dai, Is excess PbI<sub>2</sub> beneficial for perovskite solar cell performance?, Adv. Energy Mater. 6, 1502206, 2016. **(cover page)**
3. W. Chen, Y. H. Wu, J. Fan, **A. B. Djurišić**, F. Z. Liu, H. W. Tam, A. Ng, C. Surya, W. K. Chan, Z. B. He, „Understanding the doping effect on NiO: towards high performance inverted perovskite solar cells“, Adv. Energy Mater. 8, 1703519, 2018. **(inside back cover)**

4. W. Chen, Y. C. Zhou, L. J. Wang, Y. H. Wu, B. Tu, B. B. Yu, F. Z. Liu, H. W. Tam, G. Wang, **A. B. Djurišić**, L. Huang, Z. B. He, „Molecular Doped Nickel Oxide: Verified Charge Transfer and High Efficient Planar Inverted Mixed Cations Perovskite Solar Cell“, *Adv. Mater.* 30, 1800515, 2018.
5. M. K. Wong, F. Z. Liu, C. S. Kam, T. L. Leung, **A. B. Djurišić**, J. Popović, H. K. Li, K. M. Shih, K. H. Low, W. K. Chan, W. Chen, Z. B. He, A. Ng, C. Surya, „Synthesis of lead-free perovskite films by combinatorial evaporation: fast processes for screening different precursor combinations“, *Chem. Mater.* 29, 9946–9953, 2017.

### **B Beyond recent five year period**

1. K. K. Wong, A. Ng, X. Y. Chen, Y. H. Ng, Y. H. Leung, K. H. Ho, **A. B. Djurišić**, A. M. C. Ng, W. K. Chan, L. H. Yu, D. L. Phillips, „Effect of ZnO nanoparticle properties on dye-sensitized solar cell performance“, *ACS Appl. Mater. Interfaces* 4, 1254-1261, 2012.
2. A. M. C. Ng, **A. B. Djurišić**, K. H. Tam, W. M. Kwok, W. K. Chan, D. L. Phillips, and K. W. Cheah 'Organic nanoclusters on inorganic nanostructures for tailoring emission properties of organic materials' *Adv. Funct. Mater.*, 18, 566-574, 2008.
3. W.-Y. Wong, G.-J. Zhou, Z. He, K.-Y. Cheung, A. M. C. Ng, **A. B. Djurišić**, W. K. Chan, “Organometallic Polymer Light-Emitting Diodes Derived from a Platinum(II) Polyyne Containing the Bithiazole Ring”, *Macromol. Chem. Phys.* 209, 1319-1332, 2008.
4. W.-Y. Wong, X.-Z. Wang, Z. He, K. K. Chan, **A. B. Djurišić**, K. Y. Cheung, C. T. Yip, A. M. C. Ng, Y. Y. Xi, C. S. K. Mak, W. K. Chan, “Tuning the absorption, charge transport properties, and Solar Cell Efficiency with the Number of Thienyl Rings in Highly Conjugated Platinum-containing Poly(aryleneethynylene)s”, *J. Am. Chem. Soc.* 129, 14372-14380, 2007.
5. W. Y. Wong, Z. He, **A. B. Djurišić**, C. T. Yip, K. Y. Cheung, H. Wang, C. S. K. Mak, W. K. Chan, “Metallated conjugated polymers as a new avenue towards high efficiency polymer solar cells”, *Nature Mater.* 6, 521, 2007.

### Research grants records:

PI of 7 externally funded projects (2 GRF, 2 ITF, 1 RFCID, 1 ECF, 1 SZSTI (SZ fund Basic Research Programme (Theme Based)), Co-I in 13 externally funded projects (9 GRF, 1 NSFC-RGC, 1 CRF, 1 ITS, 1 ITF seed project ITP/038/10NP).

### Relevant external research grants:

#### Completed:

ECF 35/2015 “Encapsulation of next generation solar cells for high humidity environments”, 2016-04-01/2017-09-30, 499680 HK\$

#### On-going

SZSTI (SZ fund Basic Research Programme (Theme Based) 基20170422, “新型钙钛矿太阳能电池封装材料及工艺研究” 2018-02-27/2021-01-31, 1.9M RMB