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## Publications

### Journals

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- D. Abbaszadeh, A. Kunz, G. A. H Wetzelaer, J. J. Michels, N. I. Crăciun, K. Koynov, I. Lieberwirth, P. W. M Blom, "Elimination of charge carrier trapping in diluted semiconductors", Nature materials, Vol. 15, NO. 628, 2016, doi: [10.1038/nmat4626](https://doi.org/10.1038/nmat4626)
- D. Abbaszadeh\* P. W. M. Blom, "Efficient Blue Polymer Light-Emitting Diodes with Electron-Dominated Transport Due to Trap Dilution", Advanced Electronic Materials, Vol. 2, NO. 1500406, 2016, doi: [10.1002/aelm.201500406](https://doi.org/10.1002/aelm.201500406)
- D. Abbaszadeh\* G. -J. A. H. Wetzelaer\* N. Y. Doumon\* P. W. M. Blom, "Efficient Polymer Light-Emitting Diode with Air-Stable Aluminum Cathode", Journal of Applied Physics, Vol. 119, NO. 95503, 2016, doi: [10.1063/1.4943190](https://doi.org/10.1063/1.4943190)
- D. Abbaszadeh\* N. Y. Doumon\* G. -J. A. H. Wetzelaer\* L. J. A. Koster\* P. W. M. Blom, "Effect of the layer thickness on the efficiency enhancement in bilayer polymer light-emitting diodes", Synthetic Metals, Vol. 215, NO. 64, 2016, doi: [10.1016/j.synthmet.2016.02.003](https://doi.org/10.1016/j.synthmet.2016.02.003)
- A. Caretta\* M. C. Donker\* D. W. Perdok\* D. Abbaszadeh\* A. O. Polyakov\* R.W. a. Havenith\* T. T. M. Palstra\* P.H. M. van Loosdrecht, "Measurement of the acoustic-to-optical phonon coupling in multicomponent systems", Physical Review B, Vol. 91, NO. 54111, 2015, doi: [10.1103/PhysRevB.91.054111](https://doi.org/10.1103/PhysRevB.91.054111)



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- D. Abbaszadeh\* H. T. Nicolai\* G. -J. A. H. Wetzelaer\* P. W. M.  
Blom, "Exciton quenching at PEDOT:PSS anode in polymer blue-  
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224508, 2014, doi: [10.1063/1.4903952](https://doi.org/10.1063/1.4903952)
- F. Razi Astarai\* A. Irajizad\* N. S. Taghavi\* D. Abbaszadeh\* A.  
Dolati\* S. S. Mahshid, "Morphology and hydrogen sensing  
studies of the electrodeposited nanostructured palladium on  
porous silicon", International Journal of Nanotechnology , Vol. 6,  
NO. 892, 2009, doi: [10.1504/IJNT.2009.027553](https://doi.org/10.1504/IJNT.2009.027553)