

Refereed Publications of Jeffrey A. Kelber

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181. Chad Ladewig, Tao Cheng, Michael D Randle, Jonathan Bird, Opeyemi Olanipekun, Peter A. Dowben, Jeffrey Kelber, and William A. Goddard III. "Ordered Three-fold Symmetric Graphene Oxide/Buckled Graphene/Graphene Heterostructures on MgO (111) by Carbon Molecular Beam Epitaxy", *J. Mater. Chem. C*. **6** (2018) 4225-4233
180. Bin Dong, E. Echeverria, A. Oyelade, D. Converse, J. Silva, J. M. Rimsza, J. Du, M.S. Driver, Benjamin Hayworth, Nan Shao, Yi Gao, Wai-Ning Mei, P. A. Dowben, J. A. Kelber "Chemical and electronic structure of composite films deposited by plasma-enhanced chemical vapor deposition from orthocarborane and pyridine source compounds" *J. Electron Spect. And Rel. Phenom.* **223** (2018) 21-28
179. [INVITED] B. Dong, A. Oyelade, J. A. Kelber, "Carborane-based polymers: a novel class of semiconductors with tunable properties" *Phys. Chem. Chem. Phys.* **19** (2017) 10986
178. Opeyemi Olanipekun, Chad Ladewig, Jeffrey A Kelber, Michael D Randle, Jubin Nathawat, Chun-Pui Kwan, Jonathan P Bird, Priyanka Chakraborti, Peter A Dowben, Tao Cheng, "Epitaxial growth of cobalt oxide phases on Ru(0001) for spintronic device applications", *Semicond. Sci. and Technol.* **32** (2017) 095011
177. [INVITED Book Chapter] Jeffrey A. Kelber, Jessica Jones, Aparna Pilli and Brock Beauclair, "Graphene/Boron Nitride Heterostructures: Direct Growth by Practical and Scalable Methods", *Elsevier Reference Module in Chemistry, Molecular Sciences and Chemical Engineering* (<https://doi.org/10.1016/B978-0-12-409547-2.12922-1>)
176. Nicole Benker, George Peterson, Yaroslav Burak, Ben Bradley, Ethiyal Wilson, James Petrosky, John McClory, Jeffrey Kelber, Jennifer Hamblin, Scott Tarry, Peter A. Dowben, Axel Enders, and Elena Echeverria, "Passive Detection of Slow Solar Neutrons Using Boron Based Materials" *Gravitational and Space Research* (submitted for publication)
175. George Glenn Peterson, Elena Echeverria, Bin Dong, Joseph P. Silva, Ethiyal R. Wilson, Jeffrey A. Kelber and Peter A. Dowben, "Increased drift carrier lifetime in semiconducting boron carbides deposited by plasma enhanced chemical vapor deposition from carboranes and benzene", *J. Vac. Sci. and Technol. A*. **35** (2017) 03E101
174. Jessica Jones, Brock Beauclair, Opeyemi Olanipekun, Sherard Lightbourne, Mofei Zhang, Brittany Pollok, Aparna Pilli, and Jeffrey Kelber, "Atomic Layer Deposition of h-BN(0001) on RuO₂(110)/Ru(0001)", *J. Vac. Sci. and Technol. A*. **35** (2017) 01B139
173. John Beatty, Tao Cheng, Yuan Cao, M. Sky Driver, William A. Goddard III, and Jeffrey A. Kelber, "Nucleation of Graphene Layers On Magnetic Oxides: Co₃O₄(111) and Cr₂O₃(0001) from Theory and Experiment", *J. Phys. Chem. Lett.* **8** (2017) 188-192

172. Jeffrey Kelber and Peter A. Dowben (inventors) “Coherent Spin Field Effect Transistor” US Patent No. 20160093746 (March 31, 2016)
171. P. A. Dowben and J. A. Kelber (inventors) “Semiconducting alloy polymers formed from orthocarborane and 1,4-diaminobenzene” US. Patent No. US 9324960 B2 (April 26, 2016)
170. Jeffrey Kelber (inventor) “Controlled epitaxial BN growth for graphene-based transistors” US. Patent US9331198 B2 (May 3, 2016)
169. Elena Echeverria, Bin Dong, George Peterson, Joseph P Silva, Ethiyal R Wilson, M Sky Driver, Young-Si Jun, Galen D Stucky, Sean Knight, Tino Hofmann, Zhong-Kang Han, Nan Shao, Yi Gao, Wai-Ning Mei, Michael Nastasi, Peter A Dowben and Jeffrey A Kelber, “Semiconducting boron carbides with better charge extraction through the addition of pyridine moieties”, *J. Phys. D.: Appl. Phys.* **49** (2016) 355302
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