

# Stoffel Dominique Janssens

## Curriculum Vitae

Forename, Middle name, Surname: Stoffel, Dominique, Janssens  
Born: March 13, 1983 – Tienen, Belgium  
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### ADDRESS & CONTACT

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### EDUCATION

2011 Ph.D. Physics, Hasselt University, Belgium.  
2006 M.S. Chemistry, Free University of Brussels, Belgium.  
2004 B.A. Chemistry, Free University of Brussels, Belgium.

### APPOINTMENTS

2015–2018 Postdoctoral scholar in the Mathematics, Mechanics, and Materials Unit with Prof. Eliot Fried, Okinawa Institute of Science and Technology Graduate University (OIST), Japan.  
2013–2015 Japanese Society for the Promotion of Science Fellow in the Wide Bandgap Materials Group with PI Satoshi Koizumi, National Institute for Materials Science (NIMS), Japan.  
2011–2013 Postdoctoral scholar in the Wide Bandgap Materials Group with Prof. Ken Haenen, IMO–IMOMECA, Hasselt University (UHasselt), Belgium.

### PUBLICATIONS

Google Scholar: <http://scholar.google.com/citations?user=-KnScYUAAAAJ&hl=en>.

- 2017 **S. D. Janssens**, V. Chaurasia, and E. Fried. Effect of a surface tension imbalance on a partly submerged cylinder, *Journal of Fluid Mechanics* 830, 369–386.
- 2017 **S. D. Janssens**, S. Koizumi, and E. Fried. Behavior of self-propelled acetone droplets in a Leidenfrost state on liquid substrates, *Physics of Fluids* 29, 032103.
- 2016 T. Yamamoto, **S. D. Janssens**, R. Ohtani, D. Takeuchi, and S. Koizumi. Toward highly conductive n-type diamond: Incremental phosphorus-donor concentrations assisted by surface migration of ad molecules, *Applied Physics Letters* 109, 182102.
- 2016 Y. Balasubramaniam, P. Pobedinskas, **S. D. Janssens**, G. Sakr, F. Jomard, S. Turner, Y.-G. Lu, W. Dexters, A. Soltani, J. Verbeeck, J. Barjon, M. Nesladek, K. Haenen. Thick homoepitaxial (110)-oriented phosphorus-doped n-type diamond, *Applied Physics Letters* 109, 062105.
- 2016 D.-Q. Hoang, P. Pobedinskas, S. S. Nicley, S. Turner, **S. D. Janssens**, M. K. Van Bael, J. D'Haen, K. Haenen. Elucidation of the growth mechanism of sputtered 2D hexagonal boron nitride nanowalls, *Crystal Growth & Design* 16, 3699–3708.
- 2016 S. Drijkoningen, **S. D. Janssens**, P. Pobedinskas, S. Koizumi, M. K. Van Bael, and K. Haenen. The pressure sensitivity of wrinkled B-doped nanocrystalline diamond membranes, *Scientific Reports* 6, 35667.
- 2015 R. Caterino, R. Csiki, A. Lyuleeva, J. Pfisterer, M. Wiesinger, **S. D. Janssens**, K. Haenen, A.

- Cattani-Scholz, M. Stutzmann, J. A. Garrido. Photocurrent generation in diamond electrodes modified with reaction centers, *ACS Applied Materials & Interfaces* 7, 8099–8107.
- 2015 V. Seshan, J. O. Island, R. Van Leeuwen, W. J. Venstra, B. H. Schneider, **S. D. Janssens**, K. Haenen, E. J. R. Sudholter, L. C. P. M. de Smet, H. S. J. van der Zant, G. A. Steele, A. Castellanos-Gomez. Pick-up and drop transfer of diamond nanosheets, *Nanotechnology* 26, 125706.
- 2014 R. Ohtani, T. Yamamoto, **S. D. Janssens**, S. Yamasaki, S. Koizumi. Large improvement of phosphorus incorporation efficiency in n-type chemical vapor deposition of diamond, *Applied Physics Letters* 105, 232106.
- 2014 **S. D. Janssens**, S. Drijkoningen, and K. Haenen. Large piezoresistive effect in surface conductive nanocrystalline diamond, *Applied Physics Letters* 105, 101601.
- 2014 R. Caterino, R. Csiki, M. Wiesinger, M. Sachsenhauser, M. Stutzmann, J. A. Garrido, A. Cattani-Scholz, G. Speranza, **S. D. Janssens**, K. Haenen. Organophosphonate biofunctionalization of diamond electrodes, *ACS Applied Materials & Interfaces* 6, 13909–13916.
- 2014 V. Seshan, D. H. K. Murthy, A. Castellanos-Gomez, S. Sachdeva, H. A. Ahmad, **S. D. Janssens**, W. Janssen, K. Haenen, H. S. J. van der Zant, E. J. R. Sudholter, T. J. Savenije, L. C. P. M. de Smet. Contactless photoconductance study on undoped and doped nanocrystalline diamond films, *ACS Applied Materials & Interfaces* 6, 11368–11375.
- 2014 T. Vandenryt, L. Grieten, **S. D. Janssens**, B. van Grinsven, K. Haenen, B. Ruttens, J. D'Haen, P. Wagner, R. Thoelen, W. De Ceuninck. Rapid fabrication of micron-sized CVD-diamond structures by microfluidic contact printing, *Physica Status Solidi (a)* 211, 1377–1388.
- 2014 P. Losada-Perez, K. L. Jimenez-Monroy, B. van Grinsven, J. Leys, **S. D. Janssens**, M. Peeters, C. Glorieux, J. Thoen, K. Haenen, W. De Ceuninck, P. Wagner. Phase transitions in lipid vesicles detected by a complementary set of methods: heat-transfer measurements, adiabatic scanning calorimetry, and dissipation-mode quartz crystal microbalance, *Physica Status Solidi (a)* 211, 1448–1454.
- 2014 V. Ratautaite, **S. D. Janssens**, K. Haenen, M. Nesladek, A. Ramanaviciene, I. Baleviciute, and A. Ramanavicius. Molecularly imprinted polypyrrole based impedimetric sensor for theophylline determination, *Electrochimica Acta* 130, 361–367.
- 2014 **S. D. Janssens**, S. Drijkoningen, and K. Haenen. Ultra-thin nanocrystalline diamond membranes as pressure sensors for harsh environments, *Applied Physics Letters* 104, 073107.
- 2013 R. Bogdanowicz, A. Fabianska, L. Golunski, M. Sobaszek, M. Gnyba, J. Ryl, K. Darowicki, T. Ossowski, **S. D. Janssens**, K. Haenen, E. M. Siedlecka. Influence of the boron doping level on the electrochemical oxidation of the azo dyes at Si/BDD thin film electrodes, *Diamond and Related Materials* 39, 82–88.
- 2013 A. Fabianska, R. Bogdanowicz, P. Zieba, T. Ossowski, M. Gnyba, J. Ryl, A. Zielinski, **S. D. Janssens**, K. Haenen, E. M. Siedlecka. Electrochemical oxidation of sulphamerazine at boron-doped diamond electrodes: Influence of boron concentration, *Physica Status Solidi (a)* 210, 2040–2047.
- 2013 Y.G. Lu, S. Turner, J. Verbeeck, **S. D. Janssens**, K. Haenen, G. Van Tendeloo. Local bond length variations in boron-doped nanocrystalline diamond measured by spatially resolved electron energy-loss spectroscopy, *Applied Physics Letters* 103, 032105.
- 2013 V. Seshan, D. Ullien, A. Castellanos-Gomez, S. Sachdeva, D. H. K. Murthy, T. J. Savenije, H. A. Ahmad, T. S. Nunney, **S. D. Janssens**, K. Haenen, M. Nesladek, H. S. J. Van der Zant, E. J. R. Sudholter, L. C. P. M. De Smet. Hydrogen termination of CVD diamond films by high-temperature annealing at atmospheric pressure, *The Journal of chemical physics* 138, 234707.
- 2013 P. Pobedinskas, G. Degutis, W. Dexters, W. Janssen, **S. D. Janssens**, B. Conings, B. Ruttens, J. D'Haen, H.-G. Boyen, A. Hardy, M. K. Van Bael, K. Haenen. Surface plasma pretreatment for enhanced diamond nucleation on AlN, *Applied Physics Letters* 102, 201609.
- 2013 M. S. Murib, B. van Grinsven, L. Grieten, **S. D. Janssens**, V. Vermeeren, K. Eersels, J.

- Broeders, M. Ameloot, L. Michiels, W. De Ceuninck, K. Haenen, M. J. Schoning, P. Wagner. Electronic monitoring of chemical DNA denaturation on nanocrystalline diamond electrodes with different molarities and flow rates, *Physica Status Solidi (a)* 210, 911–917.
- 2013 K. Kummer, A. Fondacaro, F. Yakhou-Harris, V. Sessi, P. Pobedinskas, **S. D. Janssens**, K. Haenen, O. A. Williams, J. Hees, N. B. Brookes. Thin conductive diamond films as beam intensity monitors for soft x-ray beamlines, *Review of Scientific Instruments* 84, 035105.
- 2012 V. Seshan, C. R. Arroyo, A. Castellanos-Gomez, F. Prins, M. L. Perrin, **S. D. Janssens**, K. Haenen, M. Nesladek, E. J. R. Sudholter, L. C. P. M. De Smet, H. S. J. Van der Zant, D. Dulic. Current-induced nanogap formation and graphitization in boron-doped diamond films, *Applied Physics Letters* 101, 193106.
- 2012 A. Fabianska, T. Ossowski, R. Bogdanowicz, J. Czupryniak, M. Gnyba, T. Odzga, **S. D. Janssens**, K. Haenen, E. M. Siedlecka. Electrochemical oxidation of ionic liquids at highly boron doped diamond electrodes, *Physica Status Solidi (a)* 209, 1797–1803.
- 2012 M. Tsigkourakos, T. Hantschel, **S. D. Janssens**, K. Haenen, W. Vandervorst. Spin-seeding approach for diamond growth on large area silicon-wafer substrates, *Physica Status Solidi (a)* 209, 1659–1663.
- 2012 **S. D. Janssens**, S. Drijkonigen, M. Saitner, H.-G. Boyen, P. Wagner, K. Larsson, and K. Haenen. Evidence for phase separation of ethanol-water mixtures at the hydrogen terminated nanocrystalline diamond surface, *The Journal of Chemical Physics* 137, 044702.
- 2012 Y.-G. Lu, S. Turner, J. Verbeeck, **S. D. Janssens**, P. Wagner, K. Haenen, G. Van Tendeloo. Direct visualization of boron dopant distribution and coordination in individual chemical vapor deposition nanocrystalline B-doped diamond grains, *Applied Physics Letters* 101, 041907.
- 2012 Y.-G. Lu, J. Verbeeck, S. Turner, A. Hardy, **S. D. Janssens**, C. De Dobbelaere, P. Wagner, M. K. Van Bael, K. Haenen, G. Van Tendeloo. Analytical TEM study of CVD diamond growth on TiO<sub>2</sub> sol-gel layers, *Diamond and Related Materials* 23, 93–99.
- 2012 B. Van Grinsven, N. Vanden Bon, H. Strauven, L. Grieten, M. Murib, K. L. Jimenez Monroy, **S. D. Janssens**, K. Haenen, M. J. Schoning, V. Vermeeren, M. Ameloot, L. Michiels, R. Thoelen, W. De Ceuninck, P. Wagner. Heat-transfer resistance at solid-liquid interfaces: a tool for the detection of single-nucleotide polymorphisms in DNA, *ACS Nano* 6, 2712–2721.
- 2012 S. Turner, Y.-G. Lu, **S. D. Janssens**, F. Da Pieve, D. Lamoen, J. Verbeeck, K. Haenen, P. Wagner, G. Van Tendeloo. Local boron environment in B-doped nanocrystalline diamond films, *Nanoscale* 4, 5960–5964.
- 2011 G. Zhang, **S. D. Janssens**, J. Vanacken, M. Timmermans, J. Vacik, G. W. Ataklti, W. Decelle, W. Gillijns, B. Goderis, K. Haenen, P. Wagner, and V. V. Moshchalkov. Role of grain size in superconducting boron-doped nanocrystalline diamond thin films grown by CVD, *Physical Review B* 84, 214517.
- 2011 V. Vermeeren, L. Grieten, N. Vanden Bon, N. Bijmens, S. Wenmackers, **S. D. Janssens**, K. Haenen, P. Wagner, L. Michiels. Impedimetric, diamond-based immunosensor for the detection of C-reactive protein, *Sensors and Actuators B: Chemical* 157, 130–138.
- 2011 V. Petrak, L. Grieten, A. Taylor, F. Fendrych, M. Ledvina, **S. D. Janssens**, M. Nesladek, K. Haenen, P. Wagner. Monitoring of peptide induced disruption of artificial lipid membrane constructed on boron-doped nanocrystalline diamond by electrochemical impedance spectroscopy, *Physica Status Solidi (a)* 208, 2099–2103.
- 2011 L. Grieten, **S. D. Janssens**, A. Ethirajan, N. Vanden Bon, M. Ameloot, L. Michiels, K. Haenen, P. Wagner. Real-time study of protein adsorption on thin nanocrystalline diamond, *Physica Status Solidi (a)* 208, 2093–2098.
- 2011 **S. D. Janssens**, P. Pobedinskas, J. Vacik, V. Petrakova, B. Ruttens, J. D’Haen, M. Nesladek, K. Haenen, and P. Wagner. Separation of intra- and intergranular magnetotransport properties in nanocrystalline diamond films on the metallic side of the metal-insulator transition, *New Journal of Physics* 13, 083008.
- 2011 B. Van Grinsven, N. Vanden Bon, L. Grieten, M. Murib, **S. D. Janssens**, K. Haenen, E. Schnei-

- der, S. Ingebrandt, M. J. Schoning, V. Vermeeren, M. Ameloot, L. Michiels, R. Thoelen, W. De Ceuninck, P. Wagner. Rapid assessment of the stability of DNA duplexes by impedimetric real-time monitoring of chemically induced denaturation, *Lab on a Chip* 11, 1656–1663.
- 2010 B. L. Willems, G. Zhang, J. Vanacken, V. V. Moshchalkov, I. Guillaumon, H. Suderow, S. Vieira, **S. D. Janssens**, K. Haenen, P. Wagner. In/extrinsic granularity in superconducting boron-doped diamond, *Physica C: Superconductivity* 470, 853–856.
- 2010 B. L. Willems, G. Zhang, J. Vanacken, V. V. Moshchalkov, **S. D. Janssens**, K. Haenen, P. Wagner. Granular superconductivity in metallic and insulating nanocrystalline boron-doped diamond thin films, *Journal of Physics D: Applied Physics* 43, 374019.
- 2010 T. Clukers, B. Van Grinsven, T. Vandenryt, **S. D. Janssens**, P. Wagner, W. De Ceuninck, R. Thoelen, M. Daenen, K. Haenen. Boron doped nanocrystalline diamond temperature regulator for sensing applications, *Physica Status Solidi (a)* 207, 2110-2113.
- 2010 G. Zhang, J. Vanacken, J. Van de Vondel, W. Decelle, J. Fritzsche, V. V. Moshchalkov, B. L. Willems, **S. D. Janssens**, K. Haenen, P. Wagner. Magnetic field-driven superconductor–insulator transition in boron-doped nanocrystalline chemical vapor deposition diamond, *Journal of Applied Physics* 108, 013904.
- 2010 C. H. Y. X. Lim, Y. L. Zhong, **S. Janssens**, M. Nesladek, K. P. Loh. Oxygen-terminated nanocrystalline diamond film as an efficient anode in photovoltaics, *Advanced Functional Materials* 20, 1313–1318.
- 2009 B. L. Willems, V. H. Dao, J. Vanacken, L. F. Chibotaru, V. V. Moshchalkov, I. Guillaumon, H. Suderow, S. Vieira, **S. D. Janssens**, O. A. Williams, K. Haenen, P. Wagner. Intrinsic granularity in nanocrystalline boron-doped diamond films measured by scanning tunneling microscopy, *Physical Review B* 80, 224518.
- 2009 B. L. Willems, G. Zhang, J. Vanacken, V. V. Moshchalkov, **S. D. Janssens**, O. A. Williams, K. Haenen, P. Wagner. Negative magnetoresistance in boron-doped nanocrystalline diamond films, *Journal of Applied Physics* 106, 033711.

## FELLOWSHIP

2013–2015 Japanese Society for the Promotion of Science (JSPS) Fellowship.

## INVITED TALKS

- 2018 **S. D. Janssens**. The effect of grain boundaries on the electronic transport properties of nanocrystalline diamond, Laboratoire des Sciences des Procédés et des Matériaux, CNRS, Université Paris 13, Sorbonne Paris Cité, Villetaneuse, France, December 8.
- 2017 **S. D. Janssens**, V. Chaurasia, and E. Fried. Marangoni propulsion at curved interfaces, Next Generation of Optimists, National Institute for Materials Science, Tsukuba, Japan, July 31–August 1.
- 2016 **S. D. Janssens**, S. Koizumi, and E. Fried. Properties of self-propelled droplets in a Leidenfrost state on liquid substrates, New Aspects of Micro- and Macroscopic Flows in Soft Matters, Okinawa Institute of Science and Technology Graduate University, Okinawa, Japan, August 15–17.
- 2014 **S. D. Janssens**, S. Drijkoningen, and K. Haenen. Growth and properties of thin nanocrystalline diamond films, 2<sup>nd</sup> Japan-France Workshop on Diamond Power Devices, Kyushu, Japan.
- 2013 **S. D. Janssens** and K. Haenen. Fabrication and properties of nanocrystalline diamond films, 48<sup>th</sup> edition of the annual Zakopane School of Physics, Zakopane, Poland.
- 2012 **S. D. Janssens**, W. S. Yeap, S. Drijkoningen, H. Yin, H.-G. Boyen, K. Larsson, and K. Haenen. Phase separation of ethanol-water solutions at diverse terminated diamond surfaces, AIST Seminar, AIST, Tsukuba, Japan, September 28.
- 2011 **S. D. Janssens**, P. Pobedinskas, J. Vacik, V. Petrakova, J. D’Haen, M. Nesladek, P. Wagner, and K. Haenen. Separation of the intra- and intergranular magnetotransport properties in

heavily B-doped nanocrystalline CVD diamond films, 62<sup>nd</sup> Diamond Conference, University of Warwick, Warwick, UK, July 4–7.

- 2011 **S. D. Janssens**, P. Pobedinskas, J. Vacik, V. Petrakova, J. D'Haen, M. Nesladek, P. Wagner, and K. Haenen. Magnetotransport: fundamentals and application to heavily B-doped NCD, MATCON (Materials and Interfaces for Energy Storage and Conversion) summer school (FP7-ITN-project), University of Oxford, March 28–April 1.

## SYMPOSIA ORGANIZED

- 2017 OIST Diamond Workshop, OIST Seaside House, Okinawa Institute of Science and Technology Graduate University, Okinawa, Japan, October 29–November 1.

## TALKS

- 2017 **S. D. Janssens** and E. Fried. Behavior of self-propelled acetone droplets in a Leidenfrost state on liquid substrates, APS March meeting, New Orleans LA, Ernest Morial Convention Center, US, March 13–17.
- 2015 **S. D. Janssens**, S. Drijkoningen, S. Koizumi, and K. Haenen. Piezoresistivity in ultra-thin boron-doped and surface conductive nanocrystalline diamond membranes, Hasselt Diamond Workshop 2015 – SBDD XX, cultuurcentrum Hasselt, Hasselt, Belgium, February 25–27.
- 2012 **S. D. Janssens**, W. S. Yeap, S. Drijkoningen, H. Yin, H.-G. Boyen, K. Larsson, and K. Haenen. Phase separation of ethanol-water solutions at diverse terminated diamond surfaces, International Union of Materials Research Societies-International Conference on Electronic Materials 2012 (IUMRS-ICEM 2012), Pacifico Yokohama, Yokohama, Japan, September 23–28.
- 2011 **S. D. Janssens**, P. Pobedinskas, A. Taylor, V. Petrakova, J. Vacik, J. D'Haen, F. Fendrych, P. Wagner, M. Nesladek, and K. Haenen. Influence of granularity on the magnetotransport properties of thin B-doped nanocrystalline CVD diamond films, Innovations in Thin Films Processing and Characterisation 2011 & Magnetron, Ion processing and Arc Technologies European Conference 2011 (ITFPC & MIATEC 2011), Domaine de l'Asnee, Villers-les-Nancy, France, November 14–17.
- 2010 **S. D. Janssens**, V. Rezacova, M. Nesladek, K. Haenen, and P. Wagner. Influence of methane concentration on the electrical transport properties in heavily boron-doped nanocrystalline CVD diamond films, MRS 2010 Fall Meeting, Hynes Convention Center & Sheraton Boston Hotel, Boston, MA, USA, November 29–December 3.
- 2010 **S. D. Janssens**, K. Haenen, G. Zhang, B. Willems, J. Vacik, H. Suderow, J. Vanacken, V. V. Moshchalkov, and P. Wagner. Boron-doping of nanocrystalline diamond: from insulator to superconductor, Interuniversity Attraction Poles (IAP), Diepenbeek, Belgium.
- 2010 **S. D. Janssens**, S. Drijkoningen, M. Saitner, H.-G. Boyen, K. Haenen, and P. Wagner. The surface energy of hydrogen terminated nanocrystalline CVD diamond derived from contact angle measurements, Engineering of Functional Interfaces 2010 (EnFI 2010), Philipps Universitat Marburg, Marburg, Germany, July 15–16.
- 2009 **S. D. Janssens**, O. A. Williams, K. Haenen, P. Wagner, V. H. Dao, L. Chibotaru, B. L. Willems, J. Vanacken, and V. V. Moshchalkov. Scanning tunnelling microscopy / spectroscopy and magnetoresistance measurements on heavily boron-doped nanocrystalline diamond, 20<sup>th</sup> European Conference on Diamond, Diamond-like Materials, Carbon Nanotubes, and Nitrides, Athens Ledra Marriott, Athens, Greece, September 6–10.

## COMMISSIONS OF TRUST

- 2017–2018 Jury member for the doctoral dissertation 'Study and properties of neural bi-directional interfaces, fabricated by cell engulfment of boron-doped nanodiamond nanostructures' of Matthew McDonald.
- 2015–2016 Jury member for the doctoral dissertation 'Investigation of surface properties of boron

- doped diamond for developing neuron–machine interface’ of Farnoosh Vahidpour.
- 2015 Guest editor for the journal *Physica Status Solidi (a)* and on the occasion of the 20<sup>th</sup> Hasselt diamond workshop, 212, 2357–2646.
- 2010–2011 Consultant for IMEC as diamond growth expert (Leuven, Belgium).
- Reviewer for journals such as *Advanced Materials*, *Diamond and Related Materials*, *Science and Technology of Advanced Materials*, *Physica Status Solidi (a)*, and the *Journal of Fluid Mechanics*.

## TEACHING EXPERIENCE

- 2018 Advisor of the project ‘Etching cracked glass’ of graduate student Barnaby Smith.
- 2017–2018 Advisor of the project ‘Capillary overflow’ of graduate student Ali Rahmani.
- 2012–2016 Doctoral advisor for the dissertation ‘Low temperature deposition and characterisation of high quality nanocrystalline diamond films for the fabrication of highly sensitive pressure sensing membranes,’ of Sien Drijkoningen.
- 2011–2013 Undergraduate exercise course ‘Electricity and Magnetism’ at Hasselt University.
- 2009–2010 Undergraduate exercise course ‘Physics and Technology’ at Hasselt University.
- 2009–2010 Advisor for the Bachelor proof ‘The surface tension of hydrogen terminated nanocrystalline CVD diamond’ of Sien Drijkoningen.
- 2007–2011 Undergraduate exercise course ‘Biophysics’ at Hasselt University.

## COLLABORATION WITH INDUSTRY

- 2017–2018 Non-disclosure agreement with Asahi Glass Company.

## MEDIA COVERAGE

- 2017 Press release by the American Institute of Physics News Staff, entitled ‘Acetone Experiences Leidenfrost Effect, No Hotplate Needed’ on the occasion of the paper ‘S. D. Janssens, S. Koizumi, and E. Fried. Behavior of self-propelled acetone droplets in a Leidenfrost state on liquid substrates. *Physics of Fluids* 29, 032103’.

## COVERS OF JOURNALS

- 2017 A figure of the publication ‘S. D. Janssens, V. Chaurasia, and E. Fried. Effect of a surface tension imbalance on a partly submerged cylinder. *Journal of Fluid Mechanics* 830, 369–386’ was chosen for the cover of the *Journal of Fluid Mechanics*, volume **830**.
- 2014 Pictures of a diamond membrane that was prepared for making pressure sensors for harsh environments were chosen for the cover of *MRS Bulletin* **36/6**, entitled ‘CVD diamond – Research, applications, and challenges’.