

## Ten important and most cited publications by Risto Punkkinen

- [Hydrogen sensor of Pd-decorated tubular TiO<sub>2</sub> layer prepared by anodization with patterned electrodes on SiO<sub>2</sub>/Si substrate](#) (2016)
  - Sensors and Actuators B: Chemical

Jongyun Moon, Hannu-Pekka Hedman, Marianna Kemell, Aulis Tuominen, Risto Punkkinen  
(A1 Journal article – refereed)
- [Clinical assessment of a non-invasive wearable MEMS pressure sensor array for monitoring of arterial pulse waveform, heart rate and detection of atrial fibrillation](#) (2019)
  - npj Digital Medicine

Matti Kaisti, Tuukka Panula, Joni Leppänen, Risto Punkkinen, Mojtaba Jafari Tadi, Tuija Vasankari, Samuli Jaakkola, Tuomas Kiviniemi, Juhani Airaksinen, Pekka Kostianen, Ulf Meriheinä, Tero Koivisto, Mikko Pänkäälä  
(A1 Journal article – refereed)
- [The Energetic Particle Telescope \(EPT\) on Board PROBA-V: Description of a New Science-Class Instrument for Particle Detection in Space](#) (2014)
  - IEEE Transactions on Nuclear Science

Mathias Cyamukungu, Sylvie Benck, Stanislav Borisov, Ghislain Grégoire, Juan Cabrera, Jean-Luc Bonnet, Bart Desoete, Frank Preud'homme, Christophe Semaille, Glenn Creve, Juergen De Saedeleer, Stijn Ilse, Luc De Busser, Viviane Pierrard, Sabrina Bonnewijn, Jeroen Maes, Emiel Van Ransbeeck, Eddy Neefs, Joseph Lemaire, Eino Valtonen, Risto Punkkinen, Michel Anciaux, Karim Litefti, Nicolas Brun, Dirk Pauwels, Cyril Quevrin, Didier Moreau, Anuschka Helderweirt, Wojtek Hajdas, Petteri Nieminen  
(A1 Journal article – refereed)
- [A study of monitoring hydrogen using mesoporous TiO<sub>2</sub> synthesized by anodization](#) (2013)
  - Sensors and Actuators B: Chemical

Moon J, Hedman H-, Kemell M, Suominen A, Mäkilä E, Kim H, Tuominen A, Punkkinen R  
(A1 Journal article – refereed)
- [Decreasing Interface Defect Densities via Silicon Oxide Passivation at Temperatures Below 450 degrees C](#) (2020)
  - ACS Applied Materials and Interfaces

Jahanshah Rad Zahra, Lehtiö Juha-Pekka, Mack Iris, Rosta Kawa, Chen Kexun, Vähänissi Ville, Punkkinen Marko, Punkkinen Risto, Hedman Hannu-Pekka, Pavlov Andrei, Kuzmin Mikhail, Savin Hele, Laukkanen Pekka, Kokko Kalevi  
(A1 Journal article – refereed)
- [Observation of unusual metal-semiconductor interaction and metal-induced gap states at an oxide-semiconductor interface: The case of epitaxial BaO/Ge\(100\) junction](#) (2015)
  - Physical Review B

M. Kuzmin, P. Laukkanen, M. Yasir, J. Mäkelä, M. Tuominen, J. Dahl, M. P. J. Punkkinen, K. Kokko, H.-P. Hedman, J. Moon, R. Punkkinen, V. Polojärvi, V.-M. Korpijärvi, M. Guina  
(A1 Journal article – refereed)

- [Oxidation of the GaAs semiconductor at the Al<sub>2</sub>O<sub>3</sub>/GaAs junction](#) (2015)
  - Physical Chemistry Chemical Physics

Marjukka Tuominen, Muhammad Yasir, Jouko Lång, Johnny Dahl, Mikhail Kuzmin, Jaakko Mäkelä, Marko Punkkinen, Pekka Laukkanen, Kalevi Kokko, Karina Schulte, Risto Punkkinen, Ville-Markus Korpijärvi, Ville Polojärvi, Mircea Guina  
(A1 Journal article – refereed)

- [FORESAIL-1 CubeSat Mission to Measure Radiation Belt Losses and Demonstrate Deorbiting](#) (2019)
  - Journal of Geophysical Research: Space Physics

M. Palmroth, J. Praks, R. Vainio, P. Janhunen, E. K. J. Kilpua, A. Afanasiev, M. Ala-Lahti, A. Alho, T. Asikainen, E. Asvestari, M. Battarbee, A. Binios, A. Bosser, T. Brito, M. Dubart, J. Envall, U. Ganse, N. Yu. Ganushkina, H. George, J. Gieseler, S. Good, M. Grandin, S. Haslam, H.-P. Hedman, H. Hietala, N. Jovanovic, S. Kakakhel, M. Kalliokoski, V. V. Kettunen, T. Koskela, E. Lumme, M. Meskanen, D. Morosan, M. Rizwan Mughal, P. Niemelä, S. Nyman, P. Oleynik, A. Osmane, E. Palmerio, J. Peltonen, Y. Pfau-Kempf, J. Plosila, J. Polkko, S. Poluianov, J. Pomoell, D. Price, A. Punkkinen, R. Punkkinen, B. Riwanto, L. Salomaa, A. Slavinskis, T. Säntti, J. Tammi, H. Tenhunen, P. Toivanen, J. Tuominen, L. Turc, E. Valtonen, P. Virtanen, T. Westerlund  
(A1 Journal article – refereed)

- [Calibration of RADMON radiation monitor onboard Aalto-1 CubeSat](#) (2020)
  - Advances in Space Research

Oleynik P, Vainio R, Punkkinen A, Dudnik O, Gieseler J, Hedman H, Hietala H, Hægström E, Niemelä P, Peltonen J, Praks J, Punkkinen R, Säntti T, Valtonen E  
(A1 Journal article – refereed)

- [Particle Telescope PATE onboard FORESAIL-1 CubeSat](#) (2021) 43rd COSPAR Scientific Assembly Gieseler Jan, Janhunen Pekka, Kilpua Emilia, Vainio Rami, Palmroth Minna, Oleynik Philipp, Hedman Hannu-Pekka, Punkkinen Arttu, Punkkinen Risto, Salomaa Lassi, Säntti Tero, Tuominen Jarno, Virtanen Pasi, Praks Jaan, Slavinskis Andris, Rameez Kakakhel Syed, Plosila Juha, Tammi Jani, Tenhunen Hannu, Westerlund Tomi  
(O2 Other)