

**A new high power factor single-phase diode rectifier with optimum ripple-power conversion**

**Sakkos, Tiiu; Sarv, Vello** BEC 2006 : 2006 International Baltic Electronics Conference : Tallinn University of Technology, October 2-4, 2006, Tallinn, Estonia : proceedings of the 10th Biennial Baltic Electronics Conference 2006 / p. 229-232 : ill

**A new high power factor three-phase diode rectifier using zero-sequence inductance in the third-harmonic filter**

**Sakkos, Tiiu; Sarv, Vello** The 4th International Conference Electric Power Quality and Supply Reliability : August 29...31, 2004, Pedase, Estonia : proceedings 2004 / p. 67-70 : ill

**A new low-distorting single-phase diode rectifier employing optimum ripple-power conversion**

**Sakkos, Tiiu; Sarv, Vello** 5th International Conference : Electric Power Quality and Supply Reliability : August 23-26, 2006, Viimsi, Estonia : conference proceedings 2006 / p. 23-26 : ill

**A new low-distorting three-phase diode rectifier employing optimum ripple power control**

**Sakkos, Tiiu; Sarv, Vello** 4th International Workshop CPE 2005 : Compatibility in Power Electronics : Fifth International Research and Educational Colloquium on Electronics : 1-3 June 2005, Gdynia, Poland 2005 / p. 94-96 : ill

[https://www.researchgate.net/publication/4196868\\_A\\_new\\_low-distorting\\_three-phase\\_diode\\_rectifier\\_employing\\_optimum\\_ripple\\_power\\_control](https://www.researchgate.net/publication/4196868_A_new_low-distorting_three-phase_diode_rectifier_employing_optimum_ripple_power_control)

**A power fast reverse turn-on diode thyristor T5P143**

Graujnis, V.; Kovrov, A.; Kuzmin, V.; Hanstin, R.; Toomla, O. Automation, simulation & measurement : ASM'91 : 3rd biennial conference, Tallinn, October 7-11, 1991. Section S / Tallinn Technical University 1992 / p. 132-138: ill

**A trap detector for precise measurements of optical radiation power**

Kübarsepp, Toomas; Kärhã, Petri BEC : Baltic Electronics Conference : proceedings of the 4th Biennial Conference, October 9-14, 1994, Tallinn (Estonia). 1 1994 / p. 195-200: ill

**A unity-power factor three-phase diodeelements**

**Sakkos, Tiiu; Sarv, Vello** PEDC'99 : International Workshop on Power Electronics Equipment for Power Quality Improvement : Slubice, 1999 1999 / p. 72-85

**Active power factor correction of diode rectifiers using output filters with diode-switched and harmonic-resonant stages [Electronic resource]**

**Sakkos, Tiiu; Sarv, Vello** 8th European Conference on Power Electronics and Applications : EPE'99 : 7-9 September, EPFL Lausanne, Switzerland 1999 / [10] p. : ill [CD-ROM]

**An efficient switched-inductor filter for single-phase diode rectifiers**

**Sakkos, Tiiu; Sarv, Vello** Baltic electrical engineering review 1998 / 1, p. 25-29: ill

**An improved high power factor three-phase diode rectifier employing zero-sequence inductance and ripple power re-rectification**

**Sakkos, Tiiu; Sarv, Vello; Bolgov, Viktor** 3rd International Workshop Compatibility in Power Electronics : CPE 2003 : 28-30 May 2003, Gdansk - Zielona Gora, Poland 2003 / p. 124-126 : ill

**An improved high power factor three-phase diode rectifier employing zero-sequence inductance and ripple power re-rectification [Electronic resource]**

**Sakkos, Tiiu; Sarv, Vello; Bolgov, Viktor** 3rd International Workshop Compatibility in Power Electronics : CPE 2003 : 28-30 May 2003, Gdansk - Zielona Gora, Poland 2003 / p. 187-190 : ill. [CD-ROM]

**Blood flow detection with diode laser**

**Meigas, Kalju; Hinrikus, Hiie; Kattai, Rain; Lass, Jaanus** Medical physics 2000 / 6, [CD-ROM], Digest of Papers of the 2000 World Congress on Medical Physics and Biomedical Engineering and [...] : Chicago 2000 : July 23-28, 2000, Chicago's Navy Pier, [3] p. : ill

**Change in the parameters of electron-irradiated 4H-SiC Schottky diodes as a function of the time during low-temperature isothermal annealing**

**Korolkov, Oleg; Kozlovski, Vitali V.; Lebedev, Alexander A.; Toompuu, Jana; Sleptsuk, Natalja; Rang, Toomas** Silicon Carbide and Related Materials 2018 : 12th European Conference on Silicon Carbide and Related Materials (ECSCRM 2018) : Selected, peer reviewed papers from the European Conference on Silicon Carbide and Related Materials (ECSCRM 2018), September 2-6, 2018, Birmingham, UK 2019 / p. 734-737 <https://doi.org/10.4028/www.scientific.net/MSF.963.734> <https://www.scopus.com/conrecord/details.uri?cvid=1394485017&meta=1394485017> [Article at Scopus](https://www.scopus.com/conrecord/details.uri?cvid=1394485017&meta=1394485017)

**Characterization of the throughput beam of a ten-photodiode transmission trapdetector**

**Kübarsepp, Toomas; White, Malcolm** Metrologia 2011 / p. 359-364 : ill <https://iopscience.iop.org/article/10.1088/0026-1394/48/5/017/meta>

**A CMOS constant-gm rail-to-rail input stage using a new electronic zener diode**

Yu, Chong-Gun; Park, Jong-Tae BEC'98 : the 6th Biennial Conference on Electronics and Microsystems Technology, October 7-9,

1998, Tallinn, Estonia : proceedings 1998 / p. 79-82: ill

#### **Compact two-element transmission trap detector for 1550 nm wavelength**

Vaigu, Aigar; **Kübarsepp, Toomas**; Manoocheri, Farshid Measurement science and technology 2015 / p. 1-6 : ill

#### **Comparative results of low temperature annealing of lightly doped n-layers of silicon carbide irradiated by protons and electrons**

Kozlovski, Vitali V.; **Korolkov, Oleg**; Lebedev, Alexander A.; **Toompuu, Jana**; **Sleptsuk, Natalja** Silicon Carbide and Related Materials 2019 : 18th International Conference on Silicon Carbide and Related Materials 2019 (ICSCRM 2019), Kyoto, Japan, September 29 - October 4, 2019 2020 / p. 231-236 <https://doi.org/10.4028/www.scientific.net/MSF.1004.231> [Conference Proceedings at Scopus Article at Scopus](#)

#### **Comparison of GaAs based high voltage diode stacks**

**Voitovitš, Viktor**; Kuznetsova, Natalja; **Rang, Toomas**; **Pikkov, Mihhail**; Ruut, Jana EPE-PEMC 2004 : 11th International Power Electronics and Motion Control Conference : 2-4 September 2004, Riga, Latvia : proceedings. Vol. 2 of 7, Devices, control of converters, measurements and sensors 2004 / p. 2-391 - 2-394 : ill

#### **Comparison of Si and SiC devices surge current capability by means of numerical simulations**

**Velme, Enn**; **Udal, Andres** BEC'96 : the 5th Biennial Baltic Electronics Conference, October 7-11, 1996, Tallinn, Estonia : proceedings 1996 / p. 77-80: ill

#### **Degradation of 600-V 4H-SiC Schottky diodes under irradiation with 0,9 MeV electrons**

Lebedev, Alexander A.; Davydovskaja, K. S.; Kozlovski, Vitali V.; **Korolkov, Oleg**; **Sleptsuk, Natalja**; **Toompuu, Jana** 11th European Conference on Silicon Carbide and Related Materials : September 25-29, 2016, Porto Carras Grand Resort, Halkidiki, Greece : [poster session] 2016 / p. 49

#### **Dimensional accuracy for multi-element photodetector**

**Dhoska, Klodian**; Vabson, Viktor; **Hermaste, Aigar**; **Kübarsepp, Toomas** Proceedings of NEWRAD 2014 2014 / p. 352 : ill

#### **DLTS measurements on 4H-SiC JBS-diodes with boron implanted local p-n junctions**

Ivanov, Pavel; **Korolkov, Oleg**; Samsonova, Tatyana; **Sleptsuk, Natalja**; Potapov, Alexander; **Toompuu, Jana**; **Rang, Toomas** Materials science forum 2011 / p. 409-412 [https://www.researchgate.net/publication/272046403\\_DLTS\\_measurements\\_on\\_4H-SiC\\_JBS-diodes\\_with\\_boron\\_implanted\\_local\\_p-n\\_junctions](https://www.researchgate.net/publication/272046403_DLTS_measurements_on_4H-SiC_JBS-diodes_with_boron_implanted_local_p-n_junctions)

#### **Dynamic characteristic evaluation of a 600V reverse blocking IGBT device**

**Korkh, Oleksandr**; **Blinov, Andrei** Advances in Information, Electronic and Electrical Engineering (AIEEE) : proceedings of the 5th IEEE Workshop, november 24-25, 2017, Riga, Latvia 2018 / p. 1-5 : ill <https://doi.org/10.1109/AIEEE.2017.8270527>

#### **Efficient two-stage active filters for power factor correction of diode rectifiers**

**Sakkos, Tiiu**; **Sarv, Vello** PEMC'98 : 8th International Power Electronics & Motion Control Conference : Prague, Czech Republic, 8-10 September, 1998 : proceedings 1998 / p. 7-1 - 7-6: ill

#### **Electro-thermal simulations and forward surge current failure prediction for SiC diodes**

**Velme, Enn**; **Udal, Andres** Program of 17th Nordic Semiconductor Meeting, Trondheim, Norway, June 17-20, 1996 1996 / p. 28

#### **Esimene sõprus takisti ja dioodiga**

**Sinivee, Veljo** Horisont 2008 / 1, lk. 47-49 : ill [https://artiklid.elnet.ee/record=b2041444\\*est](https://artiklid.elnet.ee/record=b2041444*est)

#### **Evaluation of high power factor three-phase diode rectifiers with parallel-resonant input filters**

**Sakkos, Tiiu**; **Sarv, Vello** The 3rd International Conference Electric Power Quality and Supply Reliability, September 4...6, 2002, Haapsalu, Estonia : proceedings 2002 / p. 76-79 : ill

#### **Experimental analysis of the dynamic performance of Si, GaAs and SiC diodes**

**Blinov, Andrei**; **Vinnikov, Dmitri**; **Rang, Toomas** BEC 2012 : 2012 13th Biennial Baltic Electronics Conference : proceedings of the 13th Biennial Baltic Electronics Conference : October 3-5, 2012, Tallinn, Estonia 2012 / p. 49-52 : ill

#### **Fault diagnosis of output-side diode-bridge in isolated DC-DC series resonant converter**

**Bakeer, Abualkasim Ahmed Ali**; **Chub, Andrii**; **Vinnikov, Dmitri** 2022 IEEE 7th International Energy Conference (ENERGYCON) 2022 <https://doi.org/10.1109/ENERGYCON53164.2022.9830339>

#### **High power factor AC-DC diode interfaces for drive systems with a voltage-source inverter using optimum re-rectification of the ripple power**

**Sakkos, Tiiu**; **Sarv, Vello** ELECTROMOTION '99 : 3rd International Symposium on Advanced Electromechanical Motion Systems : July 8-9, 1999, Patras, Greece : proceedings. Vol. II 1999 / p. 619-624 : ill

#### **High power factor single- and three-phase diode rectifiers using parallel re-rectification of the ripple power**

**Sakkos, Tiiu; Sarv, Vello** The 7th Biennial Conference on Electronics and Microsystem Technology "Baltic Electronics Conference" : BEC 2000 : October 8 - 11, 2000, Tallinn, Estonia : conference proceedings 2000 / p. 199-202 : ill

**High quality LPE GaAs power diodes with DLTS method**

**Rang, Toomas** Public service review : European Union 2009 / p. 423

**High voltage GaAs diode stacks : the choice of epistructures for assembling**

**Rang, Toomas; Voitoovitš, Viktor**; Kuznetsova, Natalja Design, Test, Integration and Packaging of MEMS/MOEMS - DTIP2004 : 12-14 May 2004, Montreux, Switzerland 2004 / p. 199-202 : ill

**High-attenuation tunnel-type detector for calibration of single-photon devices**

**Kübarsepp, Toomas; Pokatilov, Andrei**; Vabson, Viktor; **Dhoska, Klodian** Proceedings of NEWRAD 2014 2014 / p. 115-116 : ill

**High-sensitivity compact moving particles detector with an external-cavity laser diode**

**Meigas, Kalju** Tallinna Tehnikaülikooli Toimetised 1994 / lk. 82-88: ill

**Improved high-power-factor three-phase diode rectifiers using ripple-power re-rectification**

**Sakkos, Tiiu; Sarv, Vello; Järvik, Jaan** 9th European Conference on Power Electronics and Applications : 27-29 August 2001, Graz, Austria 2001 / p. DS3.1-1 : ill

**Improved high-power-factor three-phase diode rectifiers using ripple-power re-rectification [Electronic resource]**

**Sakkos, Tiiu; Sarv, Vello; Järvik, Jaan** EPE 2001 : 9th European Conference on Power Electronics and Applications : 27-29 August 2001, Graz 2001 / [9] p. : ill. [CD-ROM]

**Influence of the proton irradiation temperature on the characteristics of high-power high-voltage silicon carbide schottky diodes**

Kozlovski, Vitali V.; **Korolkov, Oleg**; Davydovskaya, Klavdia S.; Lebedev, Alexander A.; Levinshtein, Michael E.; **Sleptšuk, Natalja**; Strel'Chuk, Anatolii M.; **Toompuu, Jana** Technical Physics Letter 2020 / p. 287 - 289 <https://doi.org/10.1134/S1063785020030244>  
[Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Investigation of charge carrier lifetime temperature-dependence in 4H-SiC diodes**

**Velmre, Enn; Udal, Andres** Silicon carbide and related materials 2006 2007 / p. 375-378

[https://www.researchgate.net/publication/250348987\\_Investigation\\_of\\_Charge\\_Carrier\\_Lifetime\\_Temperature-Dependence\\_in\\_4H-SiC\\_Diodes](https://www.researchgate.net/publication/250348987_Investigation_of_Charge_Carrier_Lifetime_Temperature-Dependence_in_4H-SiC_Diodes)

**Investigation of P-i-n GaAs structures by DLTS method : the deep level transient spectroscopy in application to GaAs p-i-n structures for identification of deep levels**

**Toompuu, Jana** 2010 <https://www.amazon.com/Investigation-p-i-n-GaAs-structures-method/dp/383839223X>

**Investigation of silicon carbide diode structures via numerical simulations including anisotropic effects**

**Velmre, Enn; Udal, Andres**; Masszi, F.; Nordlander, E. Simulation of semiconductor devices and processes. Vol. 6 1995 / p. 340-343: ill [https://link.springer.com/chapter/10.1007/978-3-7091-6619-2\\_83](https://link.springer.com/chapter/10.1007/978-3-7091-6619-2_83)

**Large area 4H-SiC power Schottky diode**

**Rang, Toomas; Korolkov, Oleg; Pikkov, Mihhail** Abstracts of the 3rd International Conference and Exhibition Micro Materials : MicroMat2000 : April 17-19, 2000, Berlin, Germany 2000 / p. 303-304

**Large area 4H-SiC power Schottky diode**

**Rang, Toomas; Korolkov, Oleg; Pikkov, Mihhail** Proceedings of the 3rd International Conference and Exhibition Micro Materials : MicroMat2000 : April 17-19, 2000, Berlin, Germany 2000 / p. 890-893

**Leakage currents in 4H-SiC JBS diodes**

Ivanov, Pavel; **Korolkov, Oleg; Sleptšuk, Natalja** Semiconductors 2012 / p. 397-400 : ill

<https://link.springer.com/article/10.1134/S106378261203013X>

**LPE technology for power GaAs diode structures**

**Voitoovitš, Viktor; Rang, Toomas; Rang, Galina** Estonian journal of engineering 2010 / 1, p. 11-22 : ill

**Measurement of charge carrier lifetime temperature-dependence in 4H-SiC power diodes**

**Udal, Andres; Velmre, Enn** Proceedings of the International Conference on Silicon Carbide and Related Materials - 1999 (ICSCRM'99) : Research Triangle Park, North-Carolina, USA, Oct. 10-15, 1999. Vol. 1 2000 / p. 781-784  
<https://www.scientific.net/MSF.338-342.781>

**Measurements of charge carrier lifetime temperature dependence in 4H-SiC power diodes**

**Velmre, Enn; Udal, Andres** Abstracts of International Conference on Silicon Carbide and Related Materials : ICSCRM'99 : October 10-15, 1999, Research Triangle Park, North-Carolina, USA 1999 / paper no 394, 2 p  
[https://www.researchgate.net/publication/240833834\\_Measurement\\_of\\_Charge\\_Carrier\\_Lifetime\\_Temperature-Dependence\\_in\\_4H-](https://www.researchgate.net/publication/240833834_Measurement_of_Charge_Carrier_Lifetime_Temperature-Dependence_in_4H-)

**An MPPT algorithm for PV systems based on a simplified photo-diode model**

Restrepo, Carlos; Gonzalez-Castano, Catalina; Munoz, Javier; **Chub, Andrii**; Vidal-Ildarte, Enric; Giral, Roberto IEEE Access 2021 / p. 33189-33202 <https://doi.org/10.1109/ACCESS.2021.3061340> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**New active diode-switched transformer filters to improve power factor of three-phase diode rectifiers with capacitive smoothing**

Sakkos, Tiiu; Sarv, Vello Proceedings of the Estonian Academy of Sciences. Engineering 1997 / 3, p. 158-170: ill

**A new low-distorting three-phase diode rectifier employing optimum ripple power control [Electronic resource]**

**Sakkos, Tiiu; Sarv, Vello** Proceedings of 4th International Workshop CPE 2005 : Compatibility in Power Electronics : Fifth International Research and Educational Colloquium on Electronics : 1-3 June 2005, Gdynia, Poland 2005 / [6] p. : ill. [CD-ROM] [https://www.researchgate.net/publication/4196868\\_A\\_new\\_low-distorting\\_three-phase\\_diode\\_rectifier\\_employing\\_optimum\\_ripple\\_power\\_control](https://www.researchgate.net/publication/4196868_A_new_low-distorting_three-phase_diode_rectifier_employing_optimum_ripple_power_control)

**New unity power factor diode rectifiers using ripple-power re-rectification**

**Sakkos, Tiiu; Sarv, Vello** Eighth International Conference on Power Electronics and Variable Speed Drives : 18-19 September 2000 2000 / p. 378-381 : ill <https://ieeexplore.ieee.org/document/888953>

**Non-destructive eddy current measurements for silicon carbide heterostructure analysis**

**Sahakyan, Armen; Koel, Ants; Rang, Toomas** Materials and contact characterisation VIII 2017 / p. 49-60 : ill <https://doi.org/10.2495/MC170061> [Conference proceedings at Scopus](#) [Article at Scopus](#)

**Numerical simulation of a silicon carbide diode**

**Velme, Enn; Udal, Andres** BEC : Baltic Electronics Conference : proceedings of the 4th Biennial Conference, October 9-14, 1994, Tallinn (Estonia). 2 1994 / p. 559-566: ill [https://www.estee.ee/record=b2150914\\*est](https://www.estee.ee/record=b2150914*est)

**Numerical simulations for reverse recovery process investigations of LPE GaAs power diodes**

**Koel, Ants; Rang, Toomas; Voitovitš, Viktor; Toompuu, Jana** BEC 2012 : 2012 13th Biennial Baltic Electronics Conference : proceedings of the 13th Biennial Baltic Electronics Conference : October 3-5, 2012, Tallinn, Estonia 2012 / p. 39-42 : ill

**Numerical simulations of wideband SiC N-N heterostructure diode**

**Patankar, Udayan Sunil; Koel, Ants; Pardy, Tamas** LAEDC 2020 : Latin American Electron Devices Conference, San José, Costa Rica, February 25-28, 2020 2020 / 4 p <https://doi.org/10.1109/LAEDC49063.2020.9073489>

**A numerical transient analysis of a bulk-barrier diode**

**Udal, Andres** Solid state electronics : an international journal 1983 / p. 1130-1131 [https://www.estee.ee/record=b1202249\\*est](https://www.estee.ee/record=b1202249*est)

**Optical Self-mixing in a diode laser as a method for no touch pulse measurement**

**Meigas, Kalju; Hinrikus, Hiie; Lass, Jaanus; Kattai, Rain** VIII Mediterranean Conference on Medical and Biological Engineering and Computing : Medicon'98, June 14-17, 1998, Lemesos, Cyprus : final programme and abstracts of papers 1998 / p. 184

**Optical Self-mixing in a diode laser as a method for no touch pulse measurement**

**Meigas, Kalju; Hinrikus, Hiie; Lass, Jaanus; Kattai, Rain** VIII Mediterranean Conference on Medical and Biological Engineering and Computing : Medicon'98, June 14-17, 1998, Lemesos, Cyprus : [proceedings : CD-ROM] 1998 / [6] p. : ill

**Optimization of the alignment position for SPAD-detector calibration**

**Dhoska, Klodian; Hofer, Helmuth; Lopez, Marco; Kübarsepp, Toomas; Kück, Stefan** Doctoral School of Energy and Geotechnology II : closing conference of the project : Pärnu, Estonia, January 12-17, 2015 2015 / p. 201-202 : ill

**Performance improvement method for the voltage-fed qZSI with continuous input current**

**Vinnikov, Dmitri; Roasto, Indrek; Strzelecki, Ryszard; Adamowicz, Marek** MELECON 2010 : the 15th IEEE Mediterranean Electrotechnical Conference : 25th-28th April 2010, Malta : book of abstracts 2010 / p. 135 <https://ieeexplore.ieee.org/document/5476229>

**Power factor correction of single-phase diode rectifiers by a second-harmonic series-resonant filter stage**

**Sakkos, Tiiu; Sarv, Vello** BEC'98 : the 6th Biennial Conference on Electronics and Microsystems Technology, October 7-9, 1998, Tallinn, Estonia : proceedings 1998 / p. 223-226: ill

**Power factor correction of three-phase diode rectifiers using optimum ripple-power control**

**Sakkos, Tiiu; Sarv, Vello** EPE-PEMC 2004 : 11th International Power Electronics and Motion Control Conference : 2-4 September 2004, Riga, Latvia : proceedings. Vol.5 of 7, Power supply quality, renewables, power systems and DER 2004 / p. 5-397 - 5-401 : ill

**Power factor correction on three-phase diode rectifiers using ripple-power re-rectification and resonant filters**

**Järvik, Jaan; Sakkos, Tiiu; Sarv, Vello** 48. Internationales Wissenschaftliches Kolloquium, 22.-25.09.2003, Technische Universität Ilmenau, Germany 2003 / p. 595-596 : ill

**Power factor correction on three-phase diode rectifiers using ripple-power re-rectification and resonant filters [Electronic resource]**

**Järvik, Jaan; Sakkos, Tiiu; Sarv, Vello** 48. Internationales Wissenschaftliches Kolloquium, 22.-25.09.2003, Technische Universität Ilmenau, Germany : proceedings and our portrait 2003 / [8] p. : ill. [CD-ROM]

**Power quality improvement in diode rectifiers using ripple-power re-rectification and multifunctional filter elements**

**Sakkos, Tiiu; Sarv, Vello; Järvik, Jaan** EPQU'01 : Electrical Power Quality and Utilisation : 6th International Conference : September 19-21, 2001, Cracow, Poland : proceedings 2001 / p. 333-338 : ill

**Predictable quantum efficient detector I : photodiodes and design**

Sildoja, Meelis; Manoocheri, Farshid; **Kübarsepp, Toomas** Proceedings of NEWRAD : [Maui, Hawaii, 18-23 September 2011] 2011 / p. 227-228 : ill <https://cris.vtt.fi/en/publications/predictable-quantum-efficient-detector-i-photodiodes-and-predict>

**Predictable quantum efficient detector. I, Photodiodes and predicted responsivity**

Sildoja, Meelis; Manoocheri, Farshid; Merimaa, Mikko; Ikonen, Erkki; Müller, Ingmar; Werner, Lutz; Gran, Jarle; **Kübarsepp, Toomas**; Smid, Marek; Rastello, Maria Luisa Metrologia 2013 / p. 385-394 : ill <https://doi.org/10.1088/0026-1394/50/4/385> <https://cris.vtt.fi/en/publications/predictable-quantum-efficient-detector-i-photodiodes-and-predict> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Predictable quantum efficient detector II : characterization results**

Müller, Ingmar; Brida, G.; **Kübarsepp, Toomas** Proceedings of NEWRAD : [Maui, Hawaii, 18-23 September 2011] 2011 / p. 209-210 : ill

**Predictable quantum efficient detector. II, Characterization and confirmed responsivity**

Müller, Ingmar; Johannsen, Uwe; Linke, Ulrike; Socaciu-Siebert, Liana; Smid, Marek; Porrovecchio, Geiland; Sildoja, Meelis; Manoocheri, Farshid; Ikonen, Erkki; Gran, Jarle; **Kübarsepp, Toomas**; Brida, Giorgio; Werner, Lutz Metrologia 2013 / p. 395-401 : ill <https://doi.org/10.1088/0026-1394/50/4/395> <https://www.scilit.com/publications/aacc372397c67cfa0451e026894282f> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Progress in development of the resonant tunneling diodes as promising compact sources at the THz gap bottom**

**Udal, Andres; Jaanus, Martin**; Valušis, Gintaras; Kašalynas, Irmantas; Ikonen, Zoran; Indjin, Dragan THz for CBRN and explosives detection and diagnosis ; 2017 / p. 169-178 [https://doi.org/10.1007/978-94-024-1093-8\\_20](https://doi.org/10.1007/978-94-024-1093-8_20) [Article collection metrics at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

**Pulse profile registration using self-mixing in diode laser**

**Meigas, Kalju; Hinrikus, Hiie; Lass, Jaanus; Kattai, Rain** Proceedings of the 20th Annual International Conference of the IEEE Engineering in Medicine and Biology Society. Vol. 20, no. 4, Biomedical Engineering Towards the Year 2000 and Beyond : Hong Kong SAR, China, October 29-November 1, 1998 1998 / p. 1875-1878 : ill

**Recent progress in development of the resonant tunneling diode sources for the critical part of THz gap**

**Udal, Andres; Jaanus, Martin**; Valušis, Gintaras; Kašalynas, Irmantas; Ikonen, Zoran; Indjin, Dragan 4th Annual Conference of COST Action MP1204 & SMMO2016 Conference : Lisbon, Portugal, 21-24 March 2016 2016 / [1] p

**Self-mixing in a diode laser as a method for coherent photodetection**

**Meigas, Kalju; Hinrikus, Hiie; Lass, Jaanus; Kattai, Rain** Proceedings of the Estonian Academy of Sciences. Engineering 1998 / 4, p. 307-316

**SEU study of wideband heterostructure diode for particle detection**

**Patankar, Udayan Sunil; Koel, Ants** 2021 IEEE International Conference on Consumer Electronics (ICCE) 2021 / 4 p. : ill <https://doi.org/10.1109/ICCE50685.2021.9427613> [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

**SiC JBS diode symmetrical voltage doubler represented as the diffusion-welded stack**

**Korolkov, Oleg; Land, Raul; Toompuu, Jana; Sleptšuk, Natalja; Rang, Toomas** Silicon carbide and related materials 2017 : ICSCRM 2017 : selected, peer reviewed papers from the 2017 International Conference on Silicon Carbide and related materials, September 17-22, 2017, Washington, DC, USA 2018 / p. 862-865 : ill <https://doi.org/10.4028/www.scientific.net/MSF.924.862> [Conference Proceedings at Scopus](#) [Article at Scopus](#)

**SiC Schottky diode for power converters**

**Pikkov, Mihhail; Rang, Toomas** PEDC 2001 : Power Electronics Devices Compatibility : 2nd conference : 3-5 September 2001, Zielona Gora, Poland 2001 / p. 156-161 : ill

**SiC Schottky diode for use in power convertors**

**Pikkov, Mihhail; Rang, Toomas**; Pokatilov, Andrei BEC 2006 : 2006 International Baltic Electronics Conference : Tallinn University of Technology, October 2-4, 2006, Tallinn, Estonia : proceedings of the 10th Biennial Baltic Electronics Conference 2006 / p. 245-246 : ill

### **SiC schottky diode rectifier bridge represented as the diffusion-welded stack**

**Korolkov, Oleg**; Kozlovski, Vitali V.; Lebedev, Alexander A.; **Land, Raul**; **Sleptšuk, Natalja**; **Toompuu, Jana**; **Rang, Toomas** Silicon Carbide and Related Materials 2016 : selected, peer reviewed papers from the 11th European Conference on Silicon Carbide and Related Materials 2016 (ECSCRM 2016), September 25-29, 2016, Halkidiki, Greece 2017 / p. 697-700 : ill <https://doi.org/10.4028/www.scientific.net/MSF.897.697> [Conference proceedings at Scopus](#) [Article at Scopus](#)

### **SiC schottky diode rectifier bridge represented as the diffusion-welded stack**

**Korolkov, Oleg**; **Land, Raul**; **Sleptšuk, Natalja**; **Toompuu, Jana**; **Rang, Toomas** 11th European Conference on Silicon Carbide and Related Materials : September 25-29, 2016, Porto Carras Grand Resort, Halkidiki, Greece : [poster session] 2016 / p. 42

### **SiC и GaAs диоды в устройствах силовой электроники**

**Blinov, Andrei**; **Vinnikov, Dmitri**; **Rang, Toomas** Технічна електродинаміка : тематичний випуск : силова електроніка та енергоефективність 2012 / с. 42-46 : ил

### **SiC-diode forward surge current failure mechanisms : experiment and simulation**

**Velmre, Enn**; **Udal, Andres** ESREF'97 : proceedings of the 8th European Symposium on Reliability of Electron Devices, Failure Physics and Analysis, Oct. 7-10, 1997, Bordeaux, France 1997 / p. 1671-1674 <https://www.sciencedirect.com/science/article/abs/pii/S0026271497001364>

### **SiC-diodes forward surge current failure mechanisms : experiment and simulation**

**Udal, Andres**; **Velmre, Enn** Microelectronics and reliability 1997 / 10/11, p. 1671-1674

### **Simulations of a predictable quantum efficient detector with PC1D**

Gran, Jarle; **Kübarsepp, Toomas**; Sildoja, Meelis; Manoocheri, Farshid; Ikonen, Erkki; Müller, Ingmar Metrologia 2012 / p. S130-S134 : ill <https://research.aalto.fi/en/publications/simulations-of-predictable-quantum-efficient-detector-with-pc1d>

### **Simulations of predictable quantum efficient detector with PC1D**

Gran, Jarle; **Kübarsepp, Toomas**; Sildoja, Meelis; Manoocheri, Farshid; Ikonen, Erkki; Müller, Ingmar Proceedings of NEWRAD : [Maui, Hawaii, 18-23 September 2011] 2011 / p. 263-265 : ill <https://cris.vtt.fi/en/publications/simulations-of-a-predictable-quantum-efficient-detector-with-pc1d>

### **Simulations of wide bandgap SiC N-N heterostructure diode**

**Patankar, Udayan Sunil**; **Koel, Ants**; **Pardy, Tamas** 2020 IEEE International Conference on Consumer Electronics (ICCE), Las Vegas, NV, USA, January 4-6, 2020 2020 / 4 p <https://doi.org/10.1109/ICCE46568.2020.9043130>

### **Skin surface vibration measurement by optical self mixing in a diode laser**

**Meigas, Kalju**; **Lass, Jaanus**; **Kattai, Rain** 8th International IMEKO Conference on Measurement in Clinical Medicine Biomedical Measurement and Instrumentation & 12th International Symposium on Biomedical Engineering, Dubrovnik, Croatia, September 16-19, 1998 : proceedings 1998 / p. 2.42-2.45: ill

### **Spectral properties of incoherent terahertz torch based on parabolic Ga(As,Bi)/AlGaAs quantum wells**

Karaliunas, Mindaugas; Pagalys, Justas; Jakštas, Vytautas; Norkus, Ričardas; Urbanowicz, Andrzej; Devenson, Jan; Devenson, Renata; **Udal, Andres**; Valušis, Gintaras Terahertz Emitters, Receivers, and Applications X : SPIE Optical Engineering + Applications, 11-15 August 2019, San Diego, California, United States : proceedings SPIE digital library 2019 <https://doi.org/10.1117/12.2528428> [Conference proceeding at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

### **Tartu dioditegija trügib ainulaadse tehnoloogiaga maailmaturule : [firma Clifton nõukogu liikme Toomas Rangi kommentaariga]**

Paris, Krister; Aru, Erik; **Rang, Toomas** Põhjarannik 2005 / 23. märts, Ärileht, lk. 3

### **Temperature influence on current suppressing effect in SiC Schottky diode**

**Kurel, Raido**; **Rang, Toomas** Proceedings of the 3rd International Conference and Exhibition Micro Materials : MicroMat2000 : April 17-19, 2000, Berlin, Germany 2000 / p. 1208-1209

### **Temperature influence on current suppressing effect in SiC Schottky diode**

**Kurel, Raido**; **Rang, Toomas** Abstracts of the 3rd International Conference and Exhibition Micro Materials : MicroMat2000 : April 17-19, 2000, Berlin, Germany 2000 / p. 217-218

### **The dependence of reverse recovery time on barrier capacitance and series on-resistance in Schottky diodes**

**Veher, Oleksandr**; **Sleptšuk, Natalja**; **Toompuu, Jana**; **Korolkov, Oleg**; **Rang, Toomas** Materials and contact characterisation VIII 2017 / p. 15-22 : ill <https://doi.org/10.2495/MC170021> [Conference proceedings at Scopus](#) [Article at Scopus](#)

### **The experimental results of reverse recovery effects in power fastrecovery diodes analyzed by numerical model**

**Velmre, Enn**; **Udal, Andres**; Vaher, G.T.; **Tarma, Mati** Proceedings International AEGEAN Conference on Electrical Machines and Power Electronics, Kusadasi 27-29 May, 1992 1992 / p. 738-743: fig

### **The Schottky parameter test for combined diffusion welded and sputter large area contacts**

**Korolkov, Oleg; Kuznetsova, Natalja; Rang, Toomas; Syrkin, A.; Dmitriev, V.** Silicon carbide and related materials 2007 / p. 737-740 <https://www.scientific.net/MSF.556-557.737>

### **The silicon photodiodes as standard detectors in optical radiometry**

**Veismann, Uno; Kübarsepp, Toomas; Vajakas, Toivo** BEC'96 : the 5th Biennial Baltic Electronics Conference, October 7-11, 1996, Tallinn, Estonia : proceedings 1996 / p. 341-342: ill

### **Two new high power factor single-phase diode rectifiers using optimum ripple-power conversion [Electronic resource]**

**Sakkos, Tiiu; Sarv, Vello** EPE-PEMC 2006 : 12th International Power Electronics and Motion Control Conference : Portorož, Slovenia, August 30 - September 1, 2006 : proceedings 2006 / p. 1636-1641 : ill. [CD-ROM]  
<https://ieeexplore.ieee.org/document/4778639>

### **Two new unity power factor three-phase diode rectifiers with ripple power re-rectification and resonant filters**

**Sakkos, Tiiu; Sarv, Vello** BEC 2002 : proceedings of the 8th Biennial Baltic Electronics Conference : October 6-9, 2002, Tallinn, Estonia 2002 / p. 401-404 : ill

### **Very high-speed signal rectification using current conveyors**

**Wilson, Brett; Dodd, Alan J.; Männama, Vello** BEC'96 : the 5th Biennial Baltic Electronics Conference, October 7-11, 1996, Tallinn, Estonia : proceedings 1996 / p. 421-424: ill

### **X[hii]-diode for chaotic and hyperchaotic oscillators**

**Tamaševicius, A.; Lindberg, Erik; Mykolaitis, G.; Cenys, A.; Namajunas, A.** BEC'98 : the 6th Biennial Conference on Electronics and Microsystems Technology, October 7-9, 1998, Tallinn, Estonia : proceedings 1998 / p. 75-78: ill

### **Временная нестабильность прохождения импульсного сигнала в системе связи на полупроводниковом лазере**

**Grigorjev, Jüri** Исследования по прикладной квантовой электронике 1980 / с. 75-81 : илл [https://www.ester.ee/record=b1264135\\*est](https://www.ester.ee/record=b1264135*est)  
<https://digikogu.taltech.ee/et/Item/f0ea9a48-f3f6-47c5-b32e-0623bc73476a>

### **Гетеродинирование инфракрасного излучения на MOM диоде**

**Astrak, R.V.; Soonurm, T.E.; Hinrikus, Hiie** Тезисы докладов республиканской научно-технической конференции, посвященной 80-летию со дня изобретения радио А. С. Поповым 1975 / с. 36-37 [https://www.ester.ee/record=b1322122\\*est](https://www.ester.ee/record=b1322122*est)

### **Использование отрицательного сопротивления для компенсации активных потерь**

**Kulikov, V.; Toomet, Madis** XVI студенческая научно-техническая конференция вузов Прибалтики, Белорусской ССР и Калининградской области, посвященная 100-летию со дня рождения В. И. Ленина : 20-25 апреля 1970 г. : (тезисы докладов). Электротехника и энергетика 1970 / с. 54 [https://www.ester.ee/record=b1379483\\*est](https://www.ester.ee/record=b1379483*est)

### **О расчете диодного детектора с закрытым входом**

**Eiskop, Ilmar** Труды по электротехнике и автоматике : сборник статей. [1] 1963 / с. 77-83 : илл  
[https://www.ester.ee/record=b2181953\\*est](https://www.ester.ee/record=b2181953*est) <https://digikogu.taltech.ee/et/Item/c0cba674-7147-4659-abad-39f8419dd45e>

### **О старении электролюминесцентных диодов**

**Valdna, Vello; Varvas, Jüri** Полупроводниковые материалы. 2 1972 / с. 113-116 : илл [https://www.ester.ee/record=b1476073\\*est](https://www.ester.ee/record=b1476073*est)  
<https://digikogu.taltech.ee/et/Item/75bd57ba-4543-4614-ab7c-3230cb13e005>

### **Плавно изменяемая задержка на диодах с накоплением заряда**

**Grigorjev, Jüri; Zahharov, Boriss** Теоретические основы методов и приборов измерения параметров слабых сигналов 1977 / с. 47-50 : илл [https://www.ester.ee/record=b1310662\\*est](https://www.ester.ee/record=b1310662*est) <https://digikogu.taltech.ee/et/Item/7121b5da-f4d1-474c-af67-2e0600ba0e11>

### **Расчет ступени нагруженной диодным детектором**

**Eiskop, Ilmar** Труды по электротехнике и автоматике : сборник статей. 2 1964 / с. 69-75 : илл  
[https://www.ester.ee/record=b2181978\\*est](https://www.ester.ee/record=b2181978*est) <https://digikogu.taltech.ee/et/Item/b53fe7c7-f8c2-4d67-895d-b1823e09c84b>

### **Расчет туннельного тока в переходах металл - полупроводник**

**Rang, Toomas** Расчет и проектирование измерительных преобразователей 1983 / с. 69-74 : ил  
[https://www.ester.ee/record=b1288985\\*est](https://www.ester.ee/record=b1288985*est) <https://digikogu.taltech.ee/et/Item/4e3815a3-f217-4ae2-9776-1b5ea3c25959>

### **Численное моделирование диодных структур с учетом Оже-рекомбинации и фотогенерации**

**Udal, Andres** Проблемы моделирования полупроводниковых структур и сложных схем на ЭВМ 1982 / с. 3-20 : ил  
[https://www.ester.ee/record=b1339926\\*est](https://www.ester.ee/record=b1339926*est) <https://www.etera.ee/zoom/121726/view?page=3&p=separate&search=true&tool=search>

### **Численное моделирование мощных диодов Шоттки на ЭВМ**

**Rang, Toomas; Udal, Andres** Известия высших учебных заведений : международный ежемесячный научно-технический журнал. Радиоэлектроника 1983 / с. 92-93 [https://www.ester.ee/record=b2768571\\*est](https://www.ester.ee/record=b2768571*est)

**Численный расчет диода с точным учётом электронно-дырочного рассеяния**

**Velme, Enn; Udal, Andres** Силовые быстродействующие полупроводниковые приборы : сборник статей 1984 / с. 39-43  
[https://www.ester.ee/record=b1238033\\*est](https://www.ester.ee/record=b1238033*est)

**Шумы мом диода**

Astrik, R.; Soonurm, T.; **Hinrikus, Hiie** Труды по радиотехнике : сборник статей. 2 1975 / с. 33-36 : илл  
[https://www.ester.ee/record=b2190715\\*est](https://www.ester.ee/record=b2190715*est) <https://digikogu.taltech.ee/et/Item/7c870ec1-0e49-4f2b-a354-8e2133afce48>