

### 1180 nm GaInNAs quantum well based high power DBR laser diodes

Viheriälä, J., Aho, A., Virtanen, H., Koskinen, M., Dumitrescu, M. & Guina, M., 24 Feb 2017, *High-Power Diode Laser Technology XV*. Zediker, M. S. (ed.). SPIE, 6 p. 100860K. (Proceedings of SPIE; vol. 10086).

Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Scientific > peer-review

### 1180nm VECSEL with 50 W output power

Kantola, E., Leinonen, T., Ranta, S., Tavast, M., Penttinen, J-P. & Guina, M., 2015, *Proceedings of SPIE - The International Society for Optical Engineering*. SPIE, Vol. 9349. 93490U

Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Scientific > peer-review

### 1.3µm U-bend traveling wave SOA devices for high efficiency coupling to silicon photonics

Viheriälä, J., Tuorila, H., Zia, N., Cherchi, M., Aalto, T. & Guina, M., 2019, *Silicon Photonics XIV*. Reed, G. T. & Knights, A. P. (eds.). SPIE, IEEE, 109230E. (Proceedings of SPIE - The International Society for Optical Engineering; vol. 10923).

Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Scientific > peer-review

### 1.55-µm wavelength wafer-fused OP-VECSELs in flip-chip configuration

Mereuta, A., Nechay, K., Caliman, A., Suruceanu, G., Gallo, P., Guina, M. & Kapon, E., 2019, *Vertical External Cavity Surface Emitting Lasers (VECSELs) IX*. Keller, U. (ed.). SPIE, IEEE, 1090103. (Proceedings of SPIE - The International Society for Optical Engineering; vol. 10901).

Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Scientific > peer-review

### 1800-luvun Helsingin kadonneiden konserttitilojen akustiikan mallintaminen

Niemi, H., Kylliäinen, M., Jäppinen, J. & Lindqvist, M., 1 Sep 2015, *Akustiikkapäivät 2015*. Kuopio, p. 77-82 6 p. (Akustiikkapäivät).

Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Scientific

### 2D Video Coding of Volumetric Video Data

Schwarz, S., Hannuksela, M. M., Fakour-Sevom, V. & Sheikhi-Pour, N., 5 Sep 2018, *2018 Picture Coding Symposium, PCS 2018 - Proceedings*. IEEE, p. 61-65 5 p. 8456265

Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Scientific > peer-review

### 360 panorama super-resolution using deep convolutional networks

Fakour-Sevom, V., Guldogan, E. & Kämäräinen, J-K., 2018, *VISIGRAPP 2018 - Proceedings of the 13th International Joint Conference on Computer Vision, Imaging and Computer Graphics Theory and Applications*. SCITEPRESS, Vol. 4. p. 159-165 7 p.

Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Scientific > peer-review

### 405-nm pumped Ce<sup>3+</sup>-doped silica fiber for broadband fluorescence from cyan to red

Yadav, A., Chichkov, N. B., Gumenyuk, R., Zherebtsov, E., Melkumov, M. A., Yashkov, M. V., Dianov, E. M. & Rafailov, E. U., 2019, *Optical Components and Materials XVI*. Digonnet, M. J. F. & Jiang, S. (eds.). SPIE, IEEE, 1091406. (Proceedings of SPIE - The International Society for Optical Engineering; vol. 10914).

Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Scientific > peer-review

### 50 W VECSEL emitting at 1180 nm

Kantola, E., Leinonen, T., Penttinen, J-P., Tavast, M., Ranta, S. & Guina, M., 2015, *2015 Conference on Lasers and Electro-Optics Europe - European Quantum Electronics Conference, 21.-25.6. Munich, Germany: CB\_3\_1*. OSA

Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Scientific > peer-review

### 73-fs SESAM mode-locked Tm,Ho:CNNG laser at 2061 nm

Wang, Y., Zhao, Y., Pan, Z., Suomalainen, S., Härkönen, A., Guina, M., Griebner, U., Wang, L., Loiko, P., Mateos, X., Chen, W. & Petrov, V., 2020, *Solid State Lasers XXIX: Technology and Devices*. Clarkson, W. A. & Shori, R. K. (eds.). SPIE, 1125929. (Proceedings of SPIE - The International Society for Optical Engineering; vol. 11259).

Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Scientific > peer-review

### 8th Nordic Conference on Construction Economics and Organization

Kähkönen, K. (ed.), 2015, In : *Procedia Economics and Finance*. 21

Research output: Contribution to journal > Special issue > Scientific > peer-review

#### **A 1.5-W frequency doubled semiconductor disk laser tunable over 40 nm at around 745 nm**

Saarinen, E. J., Lyytikäinen, J., Ranta, S., Rantamäki, A., Saarela, A., Sirbu, A., Iakovlev, V., Kapon, E. & Okhotnikov, O. G., 2016, *Proceedings of SPIE: Vertical External Cavity Surface Emitting Lasers (VECSELs) VI*. SPIE, Vol. 9734. 8 p. 97340P-8. (Spie conference proceedings).

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

#### **A Batteryless Semi-Passive RFID Sensor Platform**

Ma, S., Pournoori, N., Sydänheimo, L., Ukkonen, L., Björninen, T. & Georgiadis, A., 1 Sep 2019, *2019 IEEE International Conference on RFID Technology and Applications (RFID-TA)*. IEEE, p. 171-173 3 p.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

#### **A bibliometric study on authorship trends and research themes in knowledge management literature**

Jussila, J. J., Mustafee, N., Aramo-Immonen, H., Menon, K., Hajikhani, A. & Helander, N., 7 Jun 2017, *12th International Forum on Knowledge Asset Dynamics, St. Petersburg, Russia 7-9 June 2017: Knowledge Management in the 21st Century: Resilience, Creativity and Co-creation*. St. Petersburg, Russia, Vol. 12. p. 389-397 9 p.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

#### **Abstracting Application Development for Resource Constrained Wireless Sensor Networks**

Laukkarinen, T., 4 Sep 2015, Tampere: Tampere University of Technology. 104 p. (Tampere University of Technology. Publication; vol. 1306)

Research output: Book/Report › Doctoral thesis › Collection of Articles

#### **A Capacity Bound for mmWave-based Channel Access in Ultra-Dense Wearable Deployments**

Galinina, O., Turlikov, A., Pyattaev, A., Johnsson, K., Andreev, S. & Koucheryavy, Y., 2015, *2015 7th International Congress on Ultra Modern Telecommunications and Control Systems and Workshops (ICUMT)*. IEEE, p. 298-304 7 p.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

#### **Accessible Games for Blind Children, Empowered by Binaural Sound**

Drossos, K., Zormpas, N., Giannakopoulos, G. & Floros, A., Jul 2015, *Proceedings of the 8th ACM International Conference on Pervasive Technologies Related to Assistive Environments*. New York, NY, USA: Association for Computing Machinery (ACM), p. 5:1-5:8 8 p. (PETRA '15).

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

#### **Accurate depth estimation from a sequence of monocular images supported by proprioceptive sensors**

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Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

#### **Accurate impedance model of grid-connected inverter for small-signal stability assessment in high-impedance grid**

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Research output: Contribution to journal › Article › Scientific › peer-review

#### **A Co-creation Centre for University–Industry Collaboration – A Framework for Concept Development**

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Research output: Contribution to journal › Article › Scientific › peer-review

#### **A computationally feasible optimization approach to inverse SAR translational motion compensation**

Vehmas, R., Jylhä, J., Väilä, M. & Kymälä, J., 2015, *Proceedings of the 12th European Radar Conference (EuRAD 2015)*. IEEE, p. 17-20 4 p.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

#### **A continuum based macroscopic unified low- and high cycle fatigue model**

Frondelius, T., Holopainen, S., Kouhia, R., Ottosen, N. S., Ristinmaa, M. & Vaara, J., 2 Dec 2019, In : *MATEC Web of Conferences*. 300, 8 p., 16008.

Research output: Contribution to journal › Conference article › Scientific › peer-review

#### **A continuum damage model for creep fracture and fatigue analyses**

Kauppila, P., Kouhia, R., Ojanperä, J., Saksala, T. & Sorjonen, T., 2016, *21st European Conference on Fracture, ECF21, 20-24 June 2016, Catania, Italy*. p. 887–894 8 p. (Procedia Structural Integrity; vol. 2).

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

#### **A coordination-based brokerage architecture for multi-cloud resource markets**

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Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

#### **Acquisition of E5 Galileo signals in Matlab**

Stepanova, E., Kudryavtsev, I. & Lohan, E-S., 2015, In : *Procedia Engineering*. 104, p. 36-42 7 p.

Research output: Contribution to journal › Article › Scientific › peer-review

#### **A Cross-Cultural and Gender-Based Perspective for Online Security: Exploring Knowledge, Skills and Attitudes of Higher Education Students.**

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Research output: Contribution to journal › Article › Scientific › peer-review

#### **Action and power efficiency in self-organization: The case for growth efficiency as a cellular objective in *Escherichia coli***

Georgiev, G. Y., Aho, T., Kesseli, J., Yli-Harja, O. & Kauffman, S. A., 2019, *Evolution, Development and Complexity - Multiscale Evolutionary Models of Complex Adaptive Systems*. Flores Martinez, C. L., Georgiev, G. Y., Smart, J. M. & Price, M. E. (eds.). Springer, p. 229-244 16 p. (Springer Proceedings in Complexity).

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

#### **Action recognition using the 3D dense microblock difference**

Voronin, V., Pismenskova, M., Zelensky, A., Cen, Y., Nadykto, A. & Egiazarian, K., 2018, *Counterterrorism, Crime Fighting, Forensics, and Surveillance Technologies II*. SPIE, 1080200. (Proceedings of SPIE; vol. 10802).

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

#### **Active corrosion phase as a service life extension of concrete facades**

Köliö, A., Lahdensivu, J. & Pentti, M., 2015, *Proceedings of the Eurocorr 2015, European corrosion congress*. Austrian Society for Metallurgy and Materials (ASMET); EFC; DECHEMA

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Professional

#### **Actors' agency in the routines of innovation project portfolio management**

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Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

#### **Adapting service-based working culture as the key driver for organisational creativity and innovation**

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#### **Adaptive Feedback in Local Coordinates for Real-time Vision-Based Motion Control Over Long Distances**

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Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

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Research output: Contribution to journal › Article › Scientific › peer-review

#### **Advanced coatings by novel high-kinetic thermal spray processes**

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Research output: Contribution to journal › Article › Professional

#### **Advanced Treatments of Aramid Fibers for Composite Laminates**

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Research output: Chapter in Book/Report/Conference proceeding › Chapter › Scientific › peer-review

#### **Advocator, jester, spokesperson, provocateur and boundary spanner? Exploring different communication styles at twitter**

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#### **A dynamical quality model to continuously monitor software maintenance**

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#### **A dynamic paper machine simulator for testing of model predictive control applications**

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Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

#### **Affective experiences and student engagement in higher education**

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Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

#### **A follow-up case study of the relation of PLM Architecture, Maturity and Business processes**

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#### **Agency relationships in global project business**

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Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

#### **Agile methods in performance management system development process**

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Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

#### **Air pressure difference between indoor and outdoor or staircase in multi-family buildings with exhaust ventilation system in Finland**

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Research output: Contribution to journal › Article › Scientific › peer-review

### **ÄKK-hankkeen suositukset tulevaisuuden ääneneristysmääräyksiä koskien**

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Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Scientific

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Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Scientific

### **Alkyl thiophene vinylene electropolymerization in C8mimPF6, potential use in solar cells**

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Research output: Contribution to journal > Article > Scientific > peer-review

### **All-fiber mode-locked laser at 0.98 $\mu\text{m}$**

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Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Scientific > peer-review

### **Alpha radiation induced luminescence in solar blind spectral region**

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### **Aluetehokkuuden kustannusvaikutukset**

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Research output: Chapter in Book/Report/Conference proceeding > Chapter > Scientific > peer-review

### **Älykäs kaupunkilogistiikka – CityLog**

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Research output: Book/Report > Commissioned report > Professional

### **Älylaitteet ja stressi: Aiheuttajat, seuraukset ja hallintakeinot**

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Research output: Chapter in Book/Report/Conference proceeding > Chapter > Professional

### **A membrane external-cavity surface-emitting laser (MECSEL) with emission around 825 nm**

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Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Scientific > peer-review

### **A mixed-integer linear programming approach for global discrete size optimization of frame structures**

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#### **A model for anisotropic magnetostriction**

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#### **A model for profiling information and knowledge management in the public sector**

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#### **An accurate small-signal model of a three-phase VSI-based photovoltaic inverter with LCL-filter**

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#### **Analysis of Cognitive Cooperative Networks with Best Relay Selection and Diversity Reception**

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Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

#### **Analysis of Crowdsensed WiFi Fingerprints for Indoor Localization**

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Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

#### **Analysis of outdoor and indoor propagation at 15 GHz and millimeter wave frequencies in microcellular environment**

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Research output: Contribution to journal › Article › Scientific › peer-review

#### **Analysis of Real Mobility Records in Urban and Suburban Environments**

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#### **Analysis of the aircraft operational reliability research series: From statistical models to avionics data monitoring**

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Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

#### **Analysis of upconversion nanoparticles as an active medium for upconversion light sources**

Fedotov, A., Pominova, D., Orlovskaya, E., Orlovskii, Y., Niemi, T. & Gumenyuk, R., 1 Mar 2019, *Proceedings of SPIE: Optical Components and Materials XVI*. S P I E - International Society for Optical Engineering, Vol. 10914. 9 p. 109140R. (Proceedings of SPIE : the International Society for Optical Engineering; vol. 10914).

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

#### **Analysis of User Exploration Patterns during Scene Cuts in Omnidirectional Videos**

Monakhov, D., Naik, D., Curcio, I. D. D. & Toukoma, H., Oct 2018, *SMPTE 2018*. SMPTE, 20 p.

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#### **Analysis on bus travel time through traffic light intersection**

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Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Professional

#### **An anisotropic continuum damage model for concrete**

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Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific

#### **An approval of MPPT based on pv cell's simplified equivalent circuit during fast-shading conditions**

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Research output: Contribution to journal › Article › Scientific › peer-review

#### **A new generation sweating thermal manikin for the evaluation of the thermal comfort of protective clothing in Arctic Conditions**

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Research output: Chapter in Book/Report/Conference proceeding › Chapter › Scientific

#### **A new method to calculate natural convection heat transfer from a non-isothermal fin array**

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Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

#### **A new waveguiding mechanism based upon geometric phase**

Alberucci, A., Pannian, J. C., Slussarenko, S., Piccirillo, B., Santamato, E., Marrucci, L. & Assanto, G., 2016, *Frontiers in Optics 2016*. Optical Society of America (OSA), FF3H.3

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

#### **An example of scenario-based evaluation of military capability areas An impact assessment of alternative systems on operations**

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Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

#### **Jitter suppression in passive harmonic mode-locking fiber ring laser**

Korobko, D. A., Zolotovskii, I. O., Gumenyuk, R. V. & Fotiadi, A. A., 2020, *Nonlinear Optics and its Applications 2020*. Broderick, N. G. R., Dudley, J. M. & Peacock, A. C. (eds.). SPIE, p. 238 - 247 (Proceedings of SPIE; vol. 11358).

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

#### **Jossakin vuoti öljy, muualla tihkuivat tiedot - etiikka katoavien rajojen ja suurten skandaalien aikakaudella**

Lilja, K., 2015, *Silmät auki It-etiikkaan*. EDUSKUNNAN TULEVAISUUSVALIOKUNTA, p. 85-101 16 p. (Eduskunnan tulevaisuusvaliokunnan julkaisu; no. 12).

Research output: Chapter in Book/Report/Conference proceeding › Chapter › Scientific › peer-review

#### **Joustavat asuinympäristöt: 10 visiota aikaa kestäväään kaupunkiasumiseen**

Kotilainen, S. (ed.), Hedman, M. (ed.) & Heikkinen, J. (ed.), 31 Mar 2015, Tampere: Tampereen teknillinen yliopisto. Arkkitehtuurin laitos. 268 p. (Housing Design)

Research output: Book/Report › Anthology › Professional