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Thesis

Rachid Hamdi: *Filtres en polarisation dédiés aux applications insertion/extraction optiques reconfigurables.*
06/2008, Degree: PhD, Supervisor: Benkelfat Badr-Eddine, DOI:10.13140/RG.2.2.31822.31042

Research Experience

Jan 2012 – present **Head of Networks and Optical Telecommunications Team**
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Statistics

RG Score 13.05
Publications 26
Reads 2,159
Citations 52

Skills & Activities

Skills Birefringence, Liquid Crystals, Dispersion, Liquid Crystal Physics, Optical
Networks, Optical Switching, Optics and Photonics, Optical Fibers, Optics,
Nonlinear Optics

Languages Arabic, English, French

Scientific Memberships Société Algérienne d'Optique et Photonique, OPALS :
<https://www.opalsdz.com/saop-opals-1>

Publication Highlights

Rachid Hamdi, Badr-Eddine Benkelfat, Qin Zou, Yaneck Gottesman: *Bandwidth tuning of hybrid liquid-crystal Solc filters based on an optical cancelling technique*. Optics Communications 01/2007; 269(1):64-68., DOI:10.1016/j.optcom.2006.07.059

Rachid Hamdi, Badr-Eddine Benkelfat, Bruno Vinouze, Malek Benslama: *Multi-channel amplitude equalization based on liquid crystal polarization interference filters*. Journal of Optics A Pure and Applied Optics 08/2009; 11(10):105402., DOI:10.1088/1464-4258/11/10/105402

Rachid Hamdi, B.-E. Benkelfat, Qin Zou, Bruno Vinouze, Malek Benslama: *A Novel 1Å – 2 Wavelength Routing Switch based on a Tunable Hybrid Liquid-Crystal Solc Filter*. Photonics in Switching, 2006. PS '06. International Conference on; 11/2006, DOI:10.1109/PS.2006.4350150

Rachid Hamdi, Djalal Falih Bendimerad, Badr-Eddine Benkelfat, Bruno Vinouze: *Tuning of liquid-crystal birefringence using a square ac variable frequency voltage*. Journal of optics 10/2015; 17(10):105703., DOI:10.1088/2040-8978/17/10/105703

Abde Rezzaq Halassi, Rachid Hamdi, Djalal Falih Bendimerad, Badr-Eddine Benkelfat: *A novel synthesis approach for birefringent filters having arbitrarily amplitude transmittances*. Optics Communications 06/2016; 369:12-17., DOI:10.1016/j.optcom.2016.02.016

Journal Publications

Mohammed Mehdi Bouchene, Rachid Hamdi, Qin Zou: *Theoretical analysis of a monolithic all-active three-section semiconductor laser*. Photonics Letters of Poland 12/2017; 9(4)., DOI:10.4302/plp.v9i4.785

M.M. Bouchene, R. Hamdi, Q. Zou: *Theoretical analysis of a monolithic all-active three-section semiconductor laser*. Photonics Letters of Poland 01/2017; 9(4):131-133., DOI:10.4302/plp.2017.v9i4.785

Abde Rezzaq Halassi, Rachid Hamdi, Djalal Falih Bendimerad, Badr-Eddine Benkelfat: *A novel synthesis approach for birefringent filters having arbitrarily amplitude transmittances*. Optics Communications 06/2016; 369:12-17., DOI:10.1016/j.optcom.2016.02.016

Rachid Hamdi, Djalal Falih Bendimerad, Badr-Eddine Benkelfat, Bruno Vinouze: *Tuning of liquid-crystal birefringence using a square ac variable frequency voltage*. Journal of optics 10/2015; 17(10):105703., DOI:10.1088/2040-8978/17/10/105703

Djalal Falih Bendimerad, B.-E. Benkelfat, Rachid HAMDI, Yaneck Gottesman, Omar SEDDIKI, Bruno Vinouze: *Channel Equalization and Bandwidth Tuning Using a LC-Based Tunable Hybrid Birefringent Filter*. Journal of Lightwave Technology 07/2012; 30(13):2103-2109., DOI:10.1109/JLT.2012.2192715

- Rachid Hamdi, Robert Mikhael Farha, Salah Redadaa, Badr-Eddine Benkelfat, Djamel Abed, Abderrezak Halassi, Yassin Boumakh: *Optical bandpass Lyot filter with tunable bandwidth*. DOI:10.1109/ICTEL.2012.6221231
- Djalal Falih Bendimerad, Badr-Eddine Benkelfat, Yaneck Gottesman, Omar Seddiki, Bruno Vinouze, Rachid Hamdi: *Contrast and Finesse Enhancement in a Birefringent Filter*. IEEE Photonics Technology Letters 11/2011; 23(22):1721-1723., DOI:10.1109/LPT.2011.2168202
- S. Redadaa, I. Tifouti, R Hamdii, M. Benslama, N. Merabtine: *Phase difference statistical behavior of interferometric SAR systems*. DOI:10.1109/WOSSPA.2011.5931455
- Rachid Hamdi, Badr-Eddine Benkelfat, Bruno Vinouze, Malek Benslama: *Multi-channel amplitude equalization based on liquid crystal polarization interference filters*. Journal of Optics A Pure and Applied Optics 08/2009; 11(10):105402., DOI:10.1088/1464-4258/11/10/105402
- Rachid HAMDI, Robert FARHA, Badr-Eddine BENKELFAT: *Liquid-crystal birefringent filter-based Wavelength Blocker/Channel Equalizer for reconfigurable optical networks*. DOI:10.1109/ACTEA.2009.5227900
- Rachid Hamdi, Badr-Eddine Benkelfat, Qin Zou, Yaneck Gottesman: *Bandwidth tuning of hybrid liquid-crystal Solc filters based on an optical cancelling technique*. Optics Communications 01/2007; 269(1):64-68., DOI:10.1016/j.optcom.2006.07.059
- B.-E. Benkelfat, Y. Gottesman, R. Hamdi, M. Chikhhbled: *Continuously tunable single-frequency fiber laser based on novel hybrid Solc filter*. Proceedings of SPIE - The International Society for Optical Engineering 07/2005; 5840., DOI:10.1117/12.608076
- S Redadda, A Boualleg, R Hamdi, N Merabtine, M Benslama, Bouadzd@yaho Fr: *Dispersion Characteristics of Microstrip lines*. DOI:10.1109/EUMA.1971.331532

Conference Proceedings

- Abde Rezzaq Halassi, Rachid Hamdi, Badr-Eddine Benkelfat: *Birefringent Laser Pulse Shaper generating Arbitrarily Optimal Temporal Output Pulse Profiles*. OSA Advanced Photonics Congress, paper JT4A.1, 29 July-1 August 2019, San Francisco, California, USA
- Mohammed Mehdi Bouchene, Rachid Hamdi: *The effect of facets reflectivity on the static characteristics of (DFB) semiconductor laser*. 2018 International Conference on Electrical Sciences and Technologies in Maghreb (CISTEM), Algiers, Algeria; 10/2018, DOI:10.1109/CISTEM.2018.8613390
- Bouchene Mohammed Mehdi, Hamdi Rachid: *Effects of structural parameters on the Light-Current characteristics of multiple-phase-shift DFB semiconductor laser with distributed coupling coefficient*. Effects of structural parameters on the Light-Current characteristics of multiple-phase-shift DFB semiconductor laser with distributed coupling coefficient, Algeria; 05/2018
- Mohammed Mehdi Bouchene, Hamdi Rachid: *Study of Fabry-Pérot laser oscillation field spectrum using Traveling Wave Model(TWM)*. 3rd International Conference on Embedded Systems in Telecommunications and Instrumentation (ICESTI'16); 10/2016

Hamdi Rachid, Mohammed Mehdi Bouchene: *Analysis of relative intensity noise in Fabry-Pérot laser diodes using Traveling wave model*. Proc. First International Conference Optics and Photonics (OPAL 2015), USTHB, Algeria, Algeria; 12/2015

Halassi Abd El Rezaq, Hamdi Rachid, Boumakh Yassine: *Synthèse d'un Filtre Biréfringent Hybride à Cristaux Liquides ayant une fonction de transmission de forme quelconque*. Première Conférence Nationale sur les Télécommunications «CNT'2012», Guelma, Algeria; 11/2012

Rachid Hamdi, Hallassi Abderrazak, Boumakh Yassin, Badr-Eddine Benkelfat: *Accordabilité de la bande passante des Filtres de Lyot*. 1ère Journée Scientifique sur les Télécommunications, Guelma, Algeria; 11/2011

S. Redadaa, I. Tifouti, R Hamdi, M. Benslama: *Phase difference statistical behavior of interferometric SAR systems*. IEEE WOOSPA 2011; 06/2011

D F Bendimerad, B.-E Benkelfat, Y Gottesman, O Seddiki, R Hamdi: *Performances of a tunable birefringent filter for high density multi-wavelength applications*. Performances of a tunable birefringent filter for high density multi-wavelength applications; 05/2011

Rachid Hamdi, B.-E. Benkelfat, Qin Zou, Bruno Vinouze, Malek Benslama: *A Novel 1 λ – 2 Wavelength Routing Switch based on a Tunable Hybrid Liquid-Crystal $\lambda/4$ Filter*. Photonics in Switching, 2006. PS '06. International Conference on; 11/2006, DOI:10.1109/PS.2006.4350150