

## Publications for Robert Minasian

### 2016

Minasian, R., Yi, X. (2016). Advances in High-speed and Adaptive Microwave Photonic Signal Processing. *Procedia Engineering*, 140, 217-224. <a href="http://dx.doi.org/10.1016/j.proeng.2016.07.348">[More Information]</a>

Chew, S., Nguyen, L., Yi, X., Song, S., Li, L., Bian, P., Minasian, R. (2016). Distributed optical signal processing for microwave photonics subsystems. *Optics Express*, 24(5), 4730-4739. <a href="http://dx.doi.org/10.1364/OE.24.004730">[More Information]</a>

Li, L., Yi, X., Chew, S., Song, S., Nguyen, L., Minasian, R. (2016). High-resolution optical vector network analyzer based on silicon-on-insulator coupled-resonator optical waveguides. *22nd International Conference on Applied Electromagnetics and Communications (ICECom 2016)*, Piscataway: (IEEE) Institute of Electrical and Electronics Engineers. <a href="http://dx.doi.org/10.1109/ICECom.2016.7843906">[More Information]</a>

Minasian, R. (2016). Microwave photonic frequency conversion. *Energy Materials and Nanotechnology (EMN) Quantum Meeting 2016*, Phuket: Open-Access House of Science and Technology (OAHOST).

Minasian, R., Yi, X., Li, L. (2016). Microwave photonic processing of high-speed microwave signals. *18th International Conference on Transparent Optical Networks (ICTON 2016)*, Piscataway: (IEEE) Institute of Electrical and Electronics Engineers. <a href="http://dx.doi.org/10.1109/ICTON.2016.7550273">[More Information]</a>

Yi, X., Song, S., Chew, S., Li, L., Nguyen, L., Minasian, R. (2016). Optical filtering techniques for microwave photonics. *Asia Communications and Photonics Conference (ACP 2016)*, Wuhan: Osa. <a href="http://dx.doi.org/10.1364/ACPC.2016.AS3G.5">[More Information]</a>

Song, S., Yi, X., Chew, S., Li, L., Nguyen, L., Minasian, R. (2016). Optical vector network analyzer based on silicon-on-insulator optical bandpass filter. *2016 IEEE International Topical Meeting on Microwave Photonics (MWP 2016)*, Piscataway: (IEEE) Institute of Electrical and Electronics Engineers. <a href="http://dx.doi.org/10.1109/MWP.2016.7791314">[More Information]</a>

Chew, S., Yi, X., Song, S., Li, L., Bian, P., Nguyen, L., Minasian, R. (2016). Silicon-on-Insulator Dual-Ring Notch Filter for Optical Sideband Suppression and Spectral Characterization. *Journal of Lightwave Technology*, 34(20), 4705-4714. <a href="http://dx.doi.org/10.1109/JLT.2016.2598153">[More Information]</a>

Yi, X., Li, L., Minasian, R., Chew, S., Yang, W., Song, S., Nguyen, L. (2016). Tunable microwave photonic signal processing. *The 15th International Conference on Optical Communications and Networks (ICOON 2016)*, Hangzhou: (IEEE) Institute of Electrical and Electronics Engineers.

Minasian, R. (2016). Ultra-wideband and adaptive photonic signal processing of microwave signals. *IEEE Journal of*

*Quantum Electronics*, 52(1), 1-13. <a href="http://dx.doi.org/10.1109/JQE.2015.2499729">[More Information]</a>

### 2015

Minasian, R., Yi, X. (2015). Advances in high-speed and adaptive microwave photonic signal processing. *Photonics Global Conference (PGC2015)*, Singapore: Elsevier. <a href="http://dx.doi.org/10.1016/j.proeng.2016.07.348">[More Information]</a>

Minasian, R. (2015). Microwave photonic advances in measurement and communication signal processing. *EMN Meeting on Quantum Technology: Energy Materials Nanotechnology 2015*, China, Beijing: EMN.

Yi, X., Minasian, R. (2015). Microwave photonics for analog signal processing. *14th International Conference on Optical Communications and Networks (ICOON 2015)*, Piscataway, NJ, USA: (IEEE) Institute of Electrical and Electronics Engineers. <a href="http://dx.doi.org/10.1109/ICOON.2015.7203699">[More Information]</a>

Yi, X., Minasian, R. (2015). Optical Modules for Photonic Signal Processing. *Opto-Electronics and Communications Conference (OECC) 2015*, Shanghai: (IEEE) Institute of Electrical and Electronics Engineers. <a href="http://dx.doi.org/10.1109/OECC.2015.7340079">[More Information]</a>

Chew, S., Yi, X., Song, S., Bian, P., Nguyen, L., Minasian, R. (2015). Optical sideband suppression based on silicon-on-insulator double ring weak EIT notch filter. *2015 International Topical Meeting on Microwave Photonics (MWP 2015)*, Paphos: (IEEE) Institute of Electrical and Electronics Engineers. <a href="http://dx.doi.org/10.1109/MWP.2015.7356711">[More Information]</a>

Yi, X., Huang, T., Minasian, R. (2015). A Photonic Controlled Beam Former For Phased Array Antennas. *Patent No. 2011223493, 8934774*.

Yi, X., Chen, T., Huang, T., Minasian, R. (2015). Tunable and Reconfigurable Photonic Signal Processor Using Thermally Controlled Optical Source. *Patent No. 8953237*.

Li, L., Yi, X., Huang, T., Schroder, J., Minasian, R. (2015). Spectrum-Sliced Microwave-Photonic Filter Based on Fourier Transform of Modified Optical Spectrum. *IEEE Photonics Technology Letters*, 27(13), 1422-1425. <a href="http://dx.doi.org/10.1109/LPT.2015.2423973">[More Information]</a>

Minasian, R. (2015). Ultra-Wideband and Adaptive Microwave Photonic Signal Processing. *17th International Conference on Transparent Optical Networks (ICTON 2015)*, Warsaw, Poland: National Institute of Telecommunications Department of Transmission and Optical Technologies. <a href="http://dx.doi.org/10.1109/ICTON.2015.7193295">[More Information]</a>

### 2014

Pagani, M., Chan, E., Minasian, R. (2014). A study of the linearity performance of a stimulated Brillouin scattering-based

microwave photonic bandpass filter. *Journal of Lightwave Technology*, 32(5), 999-1005. <a href="http://dx.doi.org/10.1109/JLT.2013.2296072">[More Information]</a>

Chan, E., Minasian, R. (2014). All-optical frequency shifter based on stimulated Brillouin scattering in an optical fiber. *IEEE Photonics Journal*, 6(2), 1-10. <a href="http://dx.doi.org/10.1109/JPHOT.2014.2312921">[More Information]</a>

Li, L., Yi, X., Huang, T., Minasian, R. (2014). High-Resolution Single Bandpass Microwave Photonic Filter With Shape-Invariant Tunability. *IEEE Photonics Technology Letters*, 26(1), 82-85. <a href="http://dx.doi.org/10.1109/LPT.2013.2288972">[More Information]</a>

Nguyen, T., Chan, E., Minasian, R. (2014). Instantaneous high-resolution multiple-frequency measurement system based on frequency-to-time mapping technique. *Optics Letters*, 39(8), 2419-2422. <a href="http://dx.doi.org/10.1364/OL.39.002419">[More Information]</a>

Altaqui, A., Chan, E., Minasian, R. (2014). Microwave photonic mixer with high spurious-free dynamic range. *Applied Optics*, 53(17), 3687-3695. <a href="http://dx.doi.org/10.1364/AO.53.003687">[More Information]</a>

Minasian, R. (2014). Microwave photonic processing of high-speed microwave signals. *International Conference on Microwave and THz Technologies and Applications (IRPhE™2014)*, Yerevan, Armenia: Institute of Radiophysics and Electronics.

Minasian, R. (2014). Nonlinear stimulated Brillouin scattering based photonic signal processors. *International Conference of Computational Methods in Sciences and Engineering (ICCMSE 2014)*, Melville: AIP Publishing. <a href="http://dx.doi.org/10.1063/1.4897659">[More Information]</a>

Wang, X., Chan, E., Minasian, R. (2014). Optical-to-RF phase shift conversion-based microwave photonic phase shifter using a fiber Bragg grating. *Optics Letters*, 39(1), 142-145. <a href="http://dx.doi.org/10.1364/OL.39.000142">[More Information]</a>

Nguyen, T., Chan, E., Minasian, R. (2014). Photonic multiple frequency measurement using a frequency shifting recirculating delay line structure. *Journal of Lightwave Technology*, 32(20), 3831-3838. <a href="http://dx.doi.org/10.1109/JLT.2014.2329488">[More Information]</a>

Nguyen, T., Chan, E., Minasian, R. (2014). Photonic Radio Frequency Memory Using Frequency Shifting Recirculating Delay Line Structure. *Journal of Lightwave Technology*, 32(1), 99-106. <a href="http://dx.doi.org/10.1109/JLT.2013.2290294">[More Information]</a>

Yi, X., Minasian, R. (2014). Recent Advances in Single Bandpass Microwave Photonic Filtering. *19th OptoElectronics and Communications Conference, OECC 2014 and the 39th Australian Conference on Optical Fibre Technology, ACOFT 2014*, Barton, ACT: Engineers Australia.

Altaqui, A., Chan, E., Minasian, R. (2014). Wideband microwave photonic downconverters with high dynamic range and high conversion efficiency. *16th International Conference on Transparent Optical Networks, ICTON 2014*, Warsaw, Poland: National Institute of Telecommunications. <a href="http://dx.doi.org/10.1109/ICTON.2014.6876723">[More

Information]</a>

## 2013

Minasian, R., Chan, E., Yi, X. (2013). Advances in optoelectronic approaches for wideband and programmable processing of ultrafast signals. *6th International Conference on Advanced Optoelectronics and Lasers (CAOL 2013)*, Ukraine: IEEE. <a href="http://dx.doi.org/10.1109/CAOL.2013.6657508">[More Information]</a>

Minasian, R., Chan, E., Yi, X. (2013). Advances in Ultra-Wideband and Adaptive Microwave Photonic Signal Processors. *2013 IEEE International Conference on Communications Workshops*, Piscataway, United States: (IEEE) Institute of Electrical and Electronics Engineers. <a href="http://dx.doi.org/10.1109/ICCW.2013.6649353">[More Information]</a>

Wang, X., Chan, E., Minasian, R. (2013). All-Optical Photonic Microwave Phase Shifter Based on an Optical Filter With a Nonlinear Phase Response. *Journal of Lightwave Technology*, 31(20), 3323-3330. <a href="http://dx.doi.org/10.1109/JLT.2013.2281833">[More Information]</a>

Chan, E., Wang, X., Minasian, R. (2013). Broadband photonic microwave phase shifters with amplitude and phase controls. *21st International Conference on Applied Electromagnetics and Communications (ICECom 2013)*, Zagreb, Croatia: KoREMA - Croatian Society for Communications, Computing, Electronics, Measurement and Control. <a href="http://dx.doi.org/10.1109/ICECom.2013.6684717">[More Information]</a>

Chan, E., Minasian, R. (2013). High conversion efficiency microwave photonic mixer based on stimulated Brillouin scattering carrier suppression technique. *Optics Letters*, 38(24), 5292-5295. <a href="http://dx.doi.org/10.1364/OL.38.005292">[More Information]</a>

Chan, E., Minasian, R. (2013). Microwave Photonic Downconversion Using Phase Modulators in a Sagnac Loop Interferometer. *IEEE Journal of Selected Topics in Quantum Electronics*, 19(6), 1-8. <a href="http://dx.doi.org/10.1109/JSTQE.2013.2263119">[More Information]</a>

Minasian, R., Chan, E., Yi, X. (2013). Microwave photonic signal processing. *Optics Express*, 21(19), 22918-22936. <a href="http://dx.doi.org/10.1364/OE.21.022918">[More Information]</a>

Wang, X., Chan, E., Minasian, R. (2013). Multiple-Wavelength Sagnac Loop Based Microwave Photonic Notch Filter with Low Group Delay Ripple. *Microwave and Optical Technology Letters*, 55(12), 2938-2942. <a href="http://dx.doi.org/10.1002/mop.27998">[More Information]</a>

Yi, X., Minasian, R., Li, L., Chen, T., Huang, T. (2013). Overcoming spectral periodicity in microwave photonic signal processing. *The 8th Asia-Pacific Microwave Photonics Conference (APMP 2013)*, Gwangju, Korea: APMP2013.

Minasian, R., Chan, E., Yi, X. (2013). Progress in high-speed and adaptive microwave photonic signal processing. *15th International Conference on Transparent Optical Networks, ICTON 2013*, Warsaw, Poland: National Institute of Telecommunications. <a href="http://dx.doi.org/10.1109/ICTON.2013.6603051">[More Information]</a>

Li, L., Yi, X., Huang, T., Minasian, R. (2013). Shifted

dispersion-induced radio-frequency fading in microwave photonic filters using a dual-input Mach-Zehnder electro-optic modulator. *Optics Letters*, 38(7), 1164-1166. <a href="http://dx.doi.org/10.1364/OL.38.001164">[More Information]</a>

Chan, E., Minasian, R. (2013). Single sideband suppressed carrier modulator based frequency shifting recirculating delay line microwave photonic filter. *Optics & Laser Technology*, 45, 160-167. <a href="http://dx.doi.org/10.1016/j.optlastec.2012.07.010">[More Information]</a>

## 2012

Nguyen, T., Chan, E., Minasian, R. (2012). A new technique for 100-fold increase in the FSR of optical recirculating delay line filters using a time compression unit. *Optics Express*, 20(21), 23570-23581. <a href="http://dx.doi.org/10.1364/OE.20.023570">[More Information]</a>

Li, L., Yi, X., Huang, T., Minasian, R. (2012). Distortion-free spectrum sliced microwave photonic signal processor: Analysis, design and implementation. *Optics Express*, 20(10), 11517-11528. <a href="http://dx.doi.org/10.1364/OE.20.011517">[More Information]</a>

Chu, R., Minasian, R., Yi, X. (2012). Inspiring student learning in ICT communications electronics through a new integrated project-based learning approach. *International Journal of Electrical Engineering Education*, 49(2), 127-135. <a href="http://dx.doi.org/10.7227/IJEEE.49.2.3">[More Information]</a>

Chan, E., Minasian, R. (2012). Microwave Photonic Downconverter With High Conversion Efficiency. *Journal of Lightwave Technology*, 30(23), 3580-3585. <a href="http://dx.doi.org/10.1109/JLT.2012.2223197">[More Information]</a>

Yi, X., Huang, T., Li, L., Minasian, R. (2012). Overcoming tap-delay-variation induced distortion in microwave photonic filters. *IEEE Photonics Technology Letters*, 24(8), 691-693. <a href="http://dx.doi.org/10.1109/LPT.2012.2186797">[More Information]</a>

Li, L., Yi, X., Huang, T., Minasian, R. (2012). Performance Investigation of a Dispersion Controlled Spectrum Sliced Microwave Photonic Filter with Various Slice Characteristics. *2012 IEEE International Topical Meeting on Microwave Photonics (MWP)*, Piscataway, New Jersey, United States of America: (IEEE) Institute of Electrical and Electronics Engineers. <a href="http://dx.doi.org/10.1109/MWP.2012.6474121">[More Information]</a>

Huang, T., Yi, X., Chen, T., Minasian, R. (2012). Phase-modulation-based microwave photonic bandpass filter using a programmable-induced frequency response. *IEEE Photonics Technology Letters*, 24(14), 1197-1199. <a href="http://dx.doi.org/10.1109/LPT.2012.2199748">[More Information]</a>

Chan, E., Zhang, W., Minasian, R. (2012). Photonic RF Phase Shifter Based on Optical Carrier and RF Modulation Sidebands Amplitude and Phase Control. *Journal of Lightwave Technology*, 30(23), 3672-3678. <a href="http://dx.doi.org/10.1109/JLT.2012.2224093">[More Information]</a>

Yi, X., Huang, T., Minasian, R. (2012). Processing Microwave Signals Based on a Fourier-domain Optical Processor. *The 7th*

*Asia-Pacific Microwave Photonics Conference (APMP2012)*, Kyoto: IEICE - Institute of Electronics, Information and Communication Engineers.

Yi, X., Li, L., Huang, T., Minasian, R. (2012). Programmable multiple true-time-delay elements based on a Fourier-domain optical processor. *Optics Letters*, 37(4), 608-610. <a href="http://dx.doi.org/10.1364/OL.37.000608">[More Information]</a>

Chen, T., Yi, X., Li, L., Minasian, R. (2012). Single passband microwave photonic filter with wideband tunability and adjustable bandwidth. *Optics Letters*, 37(22), 4699-4701.

Zhang, W., Minasian, R. (2012). Switchable and Tunable Microwave Photonic Brillouin-Based Filter. *IEEE Photonics Journal*, 4(5), 1443-1455. <a href="http://dx.doi.org/10.1109/JPHOT.2012.2209114">[More Information]</a>

Zhang, W., Minasian, R. (2012). Ultrawide tunable microwave photonic notch filter based on stimulated Brillouin scattering. *IEEE Photonics Technology Letters*, 24(14), 1182-1184. <a href="http://dx.doi.org/10.1109/LPT.2012.2198638">[More Information]</a>

## 2011

Hanham, S., Bird, T., Hellicar, A., Minasian, R. (2011). Evolved-Profile Dielectric Rod Antennas. *IEEE Transactions on Antennas and Propagation*, 59(4), 1113-1122. <a href="http://dx.doi.org/10.1109/TAP.2011.2109689">[More Information]</a>

Pulikkaseril, C., Chan, E., Minasian, R. (2011). High-Q Frequency Shifting Recirculating Delay Line Bandpass Photonic Filter. *Microwave and Optical Technology Letters*, 53(6), 1284-1286. <a href="http://dx.doi.org/10.1002/mop.26011">[More Information]</a>

Chan, E., Minasian, R. (2011). High-resolution low-noise microwave photonic interference mitigation filter. *2011 13th International Conference on Transparent Optical Networks (ICTON 2011)*, Piscataway, NJ, USA: (IEEE) Institute of Electrical and Electronics Engineers. <a href="http://dx.doi.org/10.1109/ICTON.2011.5971123">[More Information]</a>

Chan, E., Minasian, R. (2011). High-resolution microwave photonic notch filter with low-noise and low group delay ripple performance. *XXXth URSI General Assembly and Scientific Symposium of International Union of Radio Science (URSI GASS 2011)*, Istanbul, Turkey: (IEEE) Institute of Electrical and Electronics Engineers. <a href="http://dx.doi.org/10.1109/URSIGASS.2011.6050655">[More Information]</a>

Chan, E., Minasian, R. (2011). High-resolution tunable RF/microwave photonic notch filter with low-noise performance. *Journal of Lightwave Technology*, 29(21), 3304-3309. <a href="http://dx.doi.org/10.1109/JLT.2011.2167957">[More Information]</a>

Li, L., Yi, X., Huang, T., Minasian, R. (2011). Microwave photonic filter based on dispersion controlled spectrum slicing technique. *Electronics Letters*, 47(8), 511-512. <a href="http://dx.doi.org/10.1049/el.2011.0449">[More Information]</a>

Huang, T., Yi, X., Minasian, R. (2011). Microwave photonic filter based on fractional delay lines. *10th International Conference on Optical Communications and Networks ICOCN 2011*, Guangzhou, China: (IEEE) Institute of Electrical and Electronics Engineers. <a

<http://dx.doi.org/10.1049/cp.2011.1363>>[More Information]</a>

Huang, T., Yi, X., Minasian, R. (2011). Microwave photonic quadrature filter based on an all-optical programmable Hilbert transformer. *Optics Letters*, 36(22), 4440-4442. <a href="http://dx.doi.org/10.1364/OL.36.004440">[More Information]</a>

Minasian, R., Yi, X., Chan, E., Huang, T., Zhang, W. (2011). Microwave photonic signal processing. *2011 IEEE International Topical Meeting on Microwave Photonics (MWP 2011)*, Piscataway, USA: (IEEE) Institute of Electrical and Electronics Engineers. <a href="http://dx.doi.org/10.1109/MWP.2011.6088751">[More Information]</a>

Wang, X., Chan, E., Minasian, R. (2011). Microwave photonic signal processing with multiple Sagnac loop structures. *PIERS 2011 Marrakesh Progress in Electromagnetics Research Symposium*, USA: The Electromagnetics Academy.

Yi, X., Minasian, R. (2011). Microwave photonics towards arbitrary RF filtering. *2011 International Conference on Information Photonics and Optical Communications (IPOC)*, Singapore, Singapore: (IEEE) Institute of Electrical and Electronics Engineers. <a href="http://dx.doi.org/10.1109/IPOC.2011.6122866">[More Information]</a>

Chan, E., Minasian, R. (2011). Multiple-Tap, Tunable Microwave Photonic Interference Mitigation Filter. *Journal of Lightwave Technology*, 29(8), 1069-1076. <a href="http://dx.doi.org/10.1109/JLT.2011.2114328">[More Information]</a>

Li, L., Yi, X., Minasian, R. (2011). New microwave photonic spectrum sliced filter with continuous tunability. *16th Opto-Electronics and Communications Conference, OECC 2011*, Piscataway, New Jersey, United States of America: (IEEE) Institute of Electrical and Electronics Engineers.

Yi, X., Minasian, R. (2011). Photonic approaches for processing high frequency microwave signals. *8th International Conference on Information, Communications and Signal Processing ICICS 2011*, Piscataway, USA: (IEEE) Institute of Electrical and Electronics Engineers. <a href="http://dx.doi.org/10.1109/ICICS.2011.6174228">[More Information]</a>

Yi, X., Huang, T., Minasian, R. (2011). Photonic beamforming based on programmable phase shifters with amplitude and phase control. *IEEE Photonics Technology Letters*, 23(18), 1286-1288. <a href="http://dx.doi.org/10.1109/LPT.2011.2158815">[More Information]</a>

Yi, X., Minasian, R. (2011). Recent advances in photonic signal processing of microwave signals. *2011 IEEE International Conference on Signal Processing, Communications and Computing (ICSPCC)*, Piscataway, USA: (IEEE) Institute of Electrical and Electronics Engineers. <a href="http://dx.doi.org/10.1109/ICSPCC.2011.6061599">[More Information]</a>

Huang, T., Yi, X., Minasian, R. (2011). Single passband microwave photonic filter using continuous-time impulse response. *Optics Express*, 19(7), 6231-6242. <a href="http://dx.doi.org/10.1364/OE.19.006231">[More Information]</a>

Huang, T., Yi, X., Li, L., Minasian, R. (2011). Single passband microwave photonic signal processor based on a multi-channel chirped fiber Bragg grating. *2011 IEEE International Topical Meeting on Microwave Photonics (MWP 2011) and 2011 Asia Pacific Microwave Photonics Conference (APMP 2011)*,

Piscataway, NJ, USA: (IEEE) Institute of Electrical and Electronics Engineers. <a href="http://dx.doi.org/10.1109/MWP.2011.6088753">[More Information]</a>

Yi, X., Minasian, R. (2011). Tunable and reconfigurable microwave photonic signal processors. *10th International Conference on Optical Communications and Networks ICOCN 2011*, Guangzhou, China: (IEEE) Institute of Electrical and Electronics Engineers. <a href="http://dx.doi.org/10.1049/cp.2011.1357">[More Information]</a>

Chan, E., Minasian, R. (2011). Tunable microwave photonic bandpass filter with high-resolution, coherence-free operation. *Electronics Letters*, 47(2), 114-115. <a href="http://dx.doi.org/10.1049/el.2010.3193">[More Information]</a>

Zhang, W., Minasian, R. (2011). Widely Tunable Single-Passband Microwave Photonic Filter Based on Stimulated Brillouin Scattering. *IEEE Photonics Technology Letters*, 23(23), 1775-1777. <a href="http://dx.doi.org/10.1109/LPT.2011.2169242">[More Information]</a>

## 2010

Pulikkaseril, C., Hanham, S., Shaw, R., Minasian, R., Bird, T. (2010). Coherence-Controlled mm-Wave Generation Using a Frequency-Shifting Recirculating Delay Line. *Journal of Lightwave Technology*, 28(7), 1071-1078. <a href="http://dx.doi.org/10.1109/JLT.2009.2038725">[More Information]</a>

Chan, E., Minasian, R. (2010). Coherence-free equivalent negative tap microwave photonic notch filter based on delayed self-wavelength conversion. *IEEE Transactions on Microwave Theory and Techniques*, 58(11), 3199-3205. <a href="http://dx.doi.org/10.1109/TMTT.2010.2075612">[More Information]</a>

Chan, E., Minasian, R. (2010). Coherence-Free High-Resolution RF/Microwave Photonic Bandpass Filter With High Skirt Selectivity and High Stopband Attenuation. *Journal of Lightwave Technology*, 28(11), 1646-1651. <a href="http://dx.doi.org/10.1109/JLT.2010.2047004">[More Information]</a>

Pulikkaseril, C., Chan, E., Minasian, R. (2010). Coherence-Free Microwave Photonic Bandpass Filter Using a Frequency-Shifting Recirculating Delay Line. *Journal of Lightwave Technology*, 28(3), 262-269. <a href="http://dx.doi.org/10.1109/JLT.2009.2038349">[More Information]</a>

Yi, X., Li, L., Huang, T., Minasian, R. (2010). Elimination of Dispersion-Induced RF Distortion in Spectrum Sliced Microwave Photonic Filters. *2010 IEEE International Topical Meeting on Microwave Photonics (MWP 2010)*, Piscataway, New Jersey, United States of America: (IEEE) Institute of Electrical and Electronics Engineers. <a href="http://dx.doi.org/10.1109/MWP.2010.5664129">[More Information]</a>

Minasian, R., Yi, X., Chan, E. (2010). Microwave Photonic Filters. *2010 Photonics Global Conference (PGC 2010)*, Singapore: (IEEE) Institute of Electrical and Electronics Engineers.

Huang, T., Yi, X., Minasian, R. (2010). Microwave photonic filters with programmable bipolar coefficients based on n-phase inversion of DSB sidebands. *Electronics Letters*, 46(24), 1609-1610. <a href="http://dx.doi.org/10.1049/el.2010.2242">[More Information]</a>

Wang, X., Chan, E., Minasian, R. (2010). Microwave photonic notch filter based on a dual-Sagnac-loop structure. *Applied Optics*, 49(33), 6546-6551. <a href="http://dx.doi.org/10.1364/AO.49.006546">[More Information]</a>

Chan, E., Minasian, R. (2010). Microwave Photonic Signal Processing without Coherent Interference Limitations. *International Journal of Microwave and Optical Technology*, 5(6), 445-454.

Yi, X., Minasian, R. (2010). Microwave photonics advances for high-frequency signal processing. *Asia-Pacific Microwave Photonics Conference APMP 2010*, Hong Kong, China: Hong Kong Polytechnic University.

Chen, T., Yi, X., Huang, T., Minasian, R. (2010). Multiple-bipolar-tap tunable spectrum sliced microwave photonic filter. *Optics Letters*, 35(23), 3934-3936. <a href="http://dx.doi.org/10.1364/OL.35.003934">[More Information]</a>

Yi, X., Huang, T., Minasian, R. (2010). Photonic microwave phase shifter and tunable notch filter. *Asia-Pacific Microwave Photonics Conference APMP 2010*, Hong Kong, China: Hong Kong Polytechnic University.

Minasian, R., Chan, E., Yi, X. (2010). Photonic Signal Processing of Microwave Signals. *19th Australian Institute of Physics (AIP) Congress incorporating the 35th Australian Conference on Optical Fiber Technology (ACOFT)*, Melbourne: Australian Institute of Physics (AIP).

Yi, X., Huang, T., Minasian, R. (2010). Tunable and reconfigurable photonic signal processor with programmable all-optical complex coefficients. *IEEE Transactions on Microwave Theory and Techniques*, 58(11), 3088-3093. <a href="http://dx.doi.org/10.1109/TMTT.2010.2076931">[More Information]</a>

Chan, E., Minasian, R. (2010). Tuneable High-Q Microwave Photonic Bandpass Filter without Coherent Interference Limitations. *40th European Microwave Conference (EuMC 2010)*, Paris: (IEEE) Institute of Electrical and Electronics Engineers.

## 2009

Hanham, S., Bird, T., Johnston, B., Hellicar, A., Minasian, R. (2009). A 600 GHz dielectric rod antenna. *3rd European Conference on Antennas and Propagation (EuCap 2009)*, Germany: VDE VERLAG GMBH.

Hanham, S., Bird, T., Johnston, B., Hellicar, A., Minasian, R. (2009). A 600 GHz dielectric rod antenna for THz imaging. *Eleventh Australian Symposium on Antennas (ASA09)*, Sydney, Australia: CSIRO ICT Centre.

Huang, T., Yi, X., Minasian, R. (2009). A High-order FIR Microwave Photonic Filter. *International Topical Meeting on Microwave Photonics MWP 2009*, USA: (IEEE) Institute of Electrical and Electronics Engineers. <a href="http://dx.doi.org/10.1109/OECCACOFT.2008.4610326">[More Information]</a>

Chan, E., Minasian, R. (2009). Coherence-free RF/Microwave Photonic Bandpass Filter with High Skirt Selectivity. *International Topical Meeting on Microwave Photonics MWP 2009*, USA: (IEEE) Institute of Electrical and Electronics Engineers.

Chan, E., Minasian, R. (2009). Coherence-free RF/microwave photonic signal processors based on a single wavelength modulation technique. *12th International Symposium on Microwave and Optical Technology ISMOT 2009*, India: Macmillan Press.

Yi, X., Minasian, R. (2009). Microwave photonic filter with single bandpass response. *Electronics Letters*, 45(7), 362-363. <a href="http://dx.doi.org/10.1049/el.2009.0140">[More Information]</a>

Yi, X., Huang, T., Minasian, R. (2009). Microwave photonic filter with tunability, reconfigurability and bipolar taps. *Electronics Letters*, 45(16), 840-841. <a href="http://dx.doi.org/10.1049/el.2009.1535">[More Information]</a>

Yi, X., Minasian, R. (2009). Microwave photonic for high frequency signal processing. *International Conference on Advanced Infocomm Technology ICAIT 2009*.

Huang, T., Yi, X., Minasian, R. (2009). New multiple-tap, general-response, reconfigurable photonic signal processor. *Optics Express*, 17(7), 5358-5363. <a href="http://dx.doi.org/10.1364/OE.17.005358">[More Information]</a>

Yi, X., Minasian, R. (2009). New spectrum-sliced microwave photonic filter for high-frequency signal processing. *IEEE Photonics Technology Letters*, 21(4), 230-232. <a href="http://dx.doi.org/10.1109/LPT.2008.2009070">[More Information]</a>

Yi, X., Minasian, R. (2009). Novel coherence-free microwave photonic signal processor. *12th International Symposium on Microwave and Optical Technology ISMOT 2009*, India: Macmillan Press.

Chan, E., Minasian, R. (2009). Novel coherence-free RF/microwave photonic bandpass filter. *IEEE Photonics Technology Letters*, 21(4), 197-199. <a href="http://dx.doi.org/10.1109/LPT.2008.2009884">[More Information]</a>

Hanham, S., Bird, T., Hellicar, A., Minasian, R. (2009). Optimized dielectric rod antennas for terahertz applications. *34th International Conference on Infrared, Millimeter, and Terahertz Waves (IRMMW-THz 2009)*, USA: (IEEE) Institute of Electrical and Electronics Engineers.

Yi, X., Minasian, R. (2009). Spectrum sliced microwave photonic signal processing. *14th OptoElectronics and Communications Conference OECC 2009*, United States: (IEEE) Institute of Electrical and Electronics Engineers. <a href="http://dx.doi.org/10.1109/OECC.2009.5213924">[More Information]</a>

Chen, T., Yi, X., Huang, T., Minasian, R. (2009). Spectrum sliced microwave photonic signal processor with tunability and reconfigurability. *14th OptoElectronics and Communications Conference OECC 2009*, United States: (IEEE) Institute of Electrical and Electronics Engineers. <a href="http://dx.doi.org/10.1109/OECC.2009.5219501">[More Information]</a>

Chan, E., Minasian, R. (2009). Suppression of phase-induced intensity noise in optical delay-line signal processors using a delayed differential technique. *Journal of Lightwave Technology*, 27(22), 5127-5133. <a href="http://dx.doi.org/10.1109/JLT.2009.2027821">[More Information]</a>

## 2008

Chan, E., Minasian, R. (2008). A New Optical Phase Modulator Dynamic Response Measurement Technique. *Journal of Lightwave Technology*, 26(16), 2882-2888. <a href="http://dx.doi.org/10.1109/JLT.2008.925704">[More Information]</a>

Huang, T., Yi, X., Minasian, R. (2008). A New Tunable Microwave Photonic Filter with Wavelength Re-use. *The 2008*

*IEEE International Topical Meeting on Microwave Photonics jointly held with the 2008 Asia-Pacific Microwave Photonic Conference*, Gold Coast, Australia: (IEEE) Institute of Electrical and Electronics Engineers. <a href="http://dx.doi.org/10.1109/MWP.2008.4666685">[More Information]</a>

Chan, E., Minasian, R. (2008). Coherence-free Microwave Photonic Notch Filter with a Wide Passband and a Narrow Notch. *The 2008 IEEE International Topical Meeting on Microwave Photonics jointly held with the 2008 Asia-Pacific Microwave Photonic Conference*, Gold Coast, Australia: (IEEE) Institute of Electrical and Electronics Engineers. <a href="http://dx.doi.org/10.1109/MWP.2008.4666629">[More Information]</a>

Hanham, S., Bird, T., Johnston, B., Minasian, R. (2008). Dielectric Rods for Terahertz Antenna Arrays. *Workshop on Applications of Radio Science 2008 (WARS 2008 Conference)*, Gold Coast, QLD, Australia: National Committee for Radio Science (NCRS).

Minasian, R. (2008). Microwave Photonic Signal Processing. *Proceedings of the European Microwave Association (EuMA)*, 4(3), 184-192.

Huang, T., Yi, X., Minasian, R. (2008). New Photonic Signal Processor With Wavelength Re-Use and Bipolar Taps. *OECC/ACOFT 2008 Conference*, Sydney: (IEEE) Institute of Electrical and Electronics Engineers. <a href="http://dx.doi.org/10.1109/OECCACOFT.2008.4610442">[More Information]</a>

Yi, X., Minasian, R. (2008). Novel Coherence-Free Microwave Photonic Signal Processor. *OECC/ACOFT 2008 Conference*, Sydney: (IEEE) Institute of Electrical and Electronics Engineers. <a href="http://dx.doi.org/10.1109/OECCACOFT.2008.4610444">[More Information]</a>

Yi, X., Minasian, R. (2008). Novel Multitap, Flat-Top Microwave Photonic Filter Based on Sinusoidal Group Delay Gratings. *Journal of Lightwave Technology*, 26(15), 2578-2583. <a href="http://dx.doi.org/10.1109/JLT.2008.927600">[More Information]</a>

Chan, E., Minasian, R. (2008). Widely Tuneable, High-FSR, Coherence-Free Microwave Photonic Notch Filter. *Journal of Lightwave Technology*, 26(8), 922-927. <a href="http://dx.doi.org/10.1109/JLT.2007.912529">[More Information]</a>

## 2007

You, N., Minasian, R. (2007). A Novel High-Order FIR Photonic Signal Processor. *Optics Communications*, 273(2), 339-343. <a href="http://dx.doi.org/10.1016/j.optcom.2007.01.045">[More Information]</a>

Pulikkaseril, C., Chan, E., Minasian, R. (2007). Coherence Free High-Resolution RF Photonic Filter. *CLEO/IQEC 2007 Conference on Lasers and Electro-Optics International Quantum Electronics Conference*, Baltimore, USA: Optical Society of America.

Hanham, S., Bird, T., Minasian, R. (2007). Excitation of Dielectric Rod Antennas for a Terahertz Focal plane Array. *10th Australian Symposium on Antennas*, Epping, NSW: CSIRO.

Minasian, R. (2007). Microwave Photonic Signal Processing. *CLEO/IQEC 2007 Conference on Lasers and Electro-Optics International Quantum Electronics Conference*, Baltimore, USA: Optical Society of America.

Chan, E., Minasian, R. (2007). Reflective Amplified Recirculating Delay Line Bandpass Filter. *Journal of Lightwave Technology*, 25(6), 1441-1446. <a href="http://dx.doi.org/10.1109/JLT.2007.895564">[More Information]</a>

Chan, E., Minasian, R. (2007). Remodulation based coherence-free photonic notch filter with wide passband. *Electronics Letters*, 43(11), 641-642. <a href="http://dx.doi.org/10.1049/el:20070143">[More Information]</a>

Hanham, S., Bird, T., Johnston, B., Minasian, R. (2007). Terahertz Dielectric Rod Antennas. *The Fourth Annual CSIRO ICT Centre Science and Engineering Conference*, Sydney: CSIRO ICT Centre.

## 2006

Chan, E., Minasian, R. (2006). A New Technique for Generating Negative Coefficients in Photonic Signal Processors Based on Dual-Input and Dual-Output Intensity Modulator Sagnac Interferometers. *IEEE Photonics Technology Letters*, 18(11), 1252-1254. <a href="http://dx.doi.org/10.1109/LPT.2006.875337">[More Information]</a>

Yi, X., Minasian, R. (2006). Dispersion Induced RF Distortion of Spectrum-Sliced Microwave-Photonic Filters. *IEEE Transactions on Microwave Theory and Techniques*, 54(2), 880-886. <a href="http://dx.doi.org/10.1109/TMTT.2005.863050">[More Information]</a>

Yi, X., Minasian, R. (2006). Noise characteristics of spectrum sliced microwave photonic filters. *Electronics Letters*, 42(14), 814-815. <a href="http://dx.doi.org/10.1049/el:20061453">[More Information]</a>

Yi, X., Minasian, R. (2006). Noise mitigation in spectrum sliced microwave photonic signal processors. *Journal of Lightwave Technology*, 24(12), 4959-4965. <a href="http://dx.doi.org/10.1109/JLT.2006.884563">[More Information]</a>

You, N., Minasian, R. (2006). Novel Photonic Recursive Signal Processor With Reduced Phase-Induced Intensity Noise. *Journal of Lightwave Technology*, 24(7), 2558-2563. <a href="http://dx.doi.org/10.1109/JLT.2006.874644">[More Information]</a>

Chan, E., Minasian, R. (2006). Photonic RF Phase Shifter and Tunable Photonic RF Notch Filter. *Journal of Lightwave Technology*, 24(7), 2676-2682. <a href="http://dx.doi.org/10.1109/JLT.2006.875211">[More Information]</a>

Minasian, R., Chan, E. (2006). Photonic Signal Processing of High-Speed Signals. *Optical Fiber Communication Conference, 2006 and the 2006 National Fiber Optic Engineers Conference, OFC 2006*, USA: (IEEE) Institute of Electrical and Electronics Engineers.

Minasian, R. (2006). Photonic Signal Processing of Microwave Signals. *IEEE Transactions on Microwave Theory and Techniques*, 54(2), 832-846. <a href="http://dx.doi.org/10.1109/TMTT.2005.863060">[More Information]</a>

Chan, E., Minasian, R. (2006). Suppression of Phase-Induced Intensity Noise in Optical Delay-Line Signal Processors Using a Differential-Detection Technique. *IEEE Transactions on Microwave Theory and Techniques*, 54(2), 873-879. <a href="http://dx.doi.org/10.1109/TMTT.2005.863051">[More Information]</a>

Information]

## 2005

Yi, X., Minasian, R. (2005). Effect of dispersion on spectrum sliced microwave photonic filters. *18th Annual Meeting of the IEEE Lasers and Electro-Optics Society (LEOS 2005)*, Piscataway, NJ, USA: (IEEE) Institute of Electrical and Electronics Engineers.

Minasian, R., Chan, E., You, N., Chen, J., Yi, X., Atai, J. (2005). Fibre Bragg Grating Microwave Photonic Signal Processors. *BGPP/ ACOFT 2005 : OSA Topical Meeting on Bragg Gratings, Poling & Photosensitivity (BGPP) / 30th Australian Conference on Optical Fibre Technology (ACOFT) 2005*, Sydney: Tour Hosts Pty Ltd.

Chen, J., Minasian, R. (2005). Novel synthesized photonic signal processor with hardware compression. *IEEE Photonics Technology Letters*, 17(4), 896-898. <a href="http://dx.doi.org/10.1109/LPT.2004.843267">[More Information]

Chan, E., Minasian, R. (2005). Novel technique for suppressing optical delay line signal processor phase noise. *18th Annual Meeting of the IEEE Lasers and Electro-Optics Society (LEOS 2005)*, Piscataway, NJ, USA: (IEEE) Institute of Electrical and Electronics Engineers.

Chan, E., Minasian, R. (2005). Optical source coherence controller for fibre optic delay line RF/microwave signal processors. *Optics Communications*, 254(1-3), 104-111. <a href="http://dx.doi.org/10.1016/j.optcom.2005.05.025">[More Information]

Minasian, R. (2005). Optical transversal filters. *2005 IEEE LEOS Summer Topical Digest*, USA: (IEEE) Institute of Electrical and Electronics Engineers.

Minasian, R., Chan, E., You, N. (2005). Photonic Signal Processors. *18th Annual Meeting of the IEEE Lasers and Electro-Optics Society (LEOS 2005)*, Piscataway, NJ, USA: (IEEE) Institute of Electrical and Electronics Engineers.

Chan, E., Minasian, R. (2005). Sagnac-loop-based equivalent negative tap photonic notch filter. *IEEE Photonics Technology Letters*, 17(8), 1740-1742. <a href="http://dx.doi.org/10.1109/LPT.2005.851978">[More Information]

## 2004

You, N., Minasian, R. (2004). All-Optical Photonic Signal Processors With Negative Coefficients. *Journal of Lightwave Technology*, 22(12), 2739-2742. <a href="http://dx.doi.org/10.1109/JLT.2004.834831">[More Information]

Chan, E., Minasian, R. (2004). Coherence-Free Photonic Notch Filter. *Electronics Letters*, 40(21), 1375-1376. <a href="http://dx.doi.org/10.1049/el:20046549">[More Information]

Chan, E., Minasian, R. (2004). Erbium-Doped Fiber Amplifier Gain Characteristics Inside Active Delay Line Structures. *IEEE Photonics Technology Letters*, 16(10), 2338-2340. <a href="http://dx.doi.org/10.1109/LPT.2004.834484">[More Information]

Chan, E., Minasian, R. (2004). Novel All-Optical Rf Notch Filters With Equivalent Negative Tap Response. *IEEE Photonics Technology Letters*, 16(5), 1370-1372. <a href="http://dx.doi.org/10.1109/LPT.2004.825982">[More Information]

Chan, E., Minasian, R. (2004). Photonic Notch Filter Without Optical Coherence Limitations. *Journal of Lightwave*

*Technology*, 22(7), 1811-1817. <a href="http://dx.doi.org/10.1109/JLT.2004.831167">[More Information]

Minasian, R., Chan, E. (2004). Photonic Signal Processing Of Microwave Signals. *2004 IEEE International Topical Meeting on Microwave Photonics (MWP 2004)*, Piscataway, NJ, USA: (IEEE) Institute of Electrical and Electronics Engineers.

Shen, M., Minasian, R. (2004). Photonics-Based Optical Frequency Comb Generation. *Australian Conference on Optical Fibre Technology 2004 (ACOFT 2004)*, Canberra, A.C.T.: ACOFT/AOS.

Shen, M., Minasian, R. (2004). Serrodyne Optical Frequency Translation Using Photonics-Based Waveforms. *Electronics Letters*, 40(24), 1545-1547. <a href="http://dx.doi.org/10.1049/el:20046887">[More Information]

Shen, M., Minasian, R. (2004). Toward A High-Speed Arbitrary Waveform Generation By A Novel Photonic Processing Structure. *IEEE Photonics Technology Letters*, 16(4), 1155-1157. <a href="http://dx.doi.org/10.1109/LPT.2004.824618">[More Information]

## 2003

Chan, E., Alameh, K., Minasian, R. (2003). A photonics-based wideband linearised mixer. *Microwave and Optical Technology Letters*, 39(6), 500-502. <a href="http://dx.doi.org/10.1002/mop.11260">[More Information]

Shen, M., Minasian, R. (2003). Design of superposed fiber Bragg grating for high-resolution time-delay signal processing. *Photonic Integration*, Washington, USA: SPIE - International Society for Optical Engineering.

Chan, E., Minasian, R. (2003). High-resolution photonics-based interference suppression filter with wide passband. *Journal of Lightwave Technology*, 21(12), 3144-3149. <a href="http://dx.doi.org/10.1109/JLT.2003.820039">[More Information]

Shen, M., Minasian, R. (2003). Photonic generation of arbitrary waveforms. *Optical Networking: Technologies, Traffic Engineering and Management*, Washington: Coin/Acoft.

## 2002

Minasian, R., Alameh, K. (2002). A modern and interactive approach to learning laser and optical communications. *British Journal of Educational Technology*, 33(2), 237-242.

Shen, M., Minasian, R. (2002). Linearization processing of a novel short time-delay WDM superposed fiber bragg grating. *IEEE Photonics Technology Letters*, 14(12), 1707-1709. <a href="http://dx.doi.org/10.1109/LPT.2002.803877">[More Information]

Chan, E., Alameh, K., Minasian, R. (2002). Photonic bandpass filters with high skirt selectivity and stopband attenuation. *Journal of Lightwave Technology*, 20(10), 1962-1967. <a href="http://dx.doi.org/10.1109/JLT.2002.804018">[More Information]

## 2001

You, N., Minasian, R. (2001). A novel tunable microwave optical notch filter. *IEEE Transactions on Microwave Theory and Techniques*, 49(10), 2002-2005.

Shen, M., Alameh, K., Minasian, R. (2001). Linear short time delay superposed fiber bragg grating. *OECC/IOOC 2001 Conference*, : UNSW Australian Defence Force Academy.

Zheng, R., Minasian, R. (2001). Optical source coherence control for noise suppression in photonic signal processors. *OECC/IOOC 2001 Conference*, : UNSW Australian Defence Force Academy.

Minasian, R., Chan, E., Alameh, K. (2001). Photonics-based interference mitigation filters. *IEEE Transactions on Microwave Theory and Techniques*, 49(10), 1894-1899.