Stanford



Leonid Kazovsky

Professor (Research) of Electrical Engineering, Emeritus

Electrical Engineering - STAR Laboratory

Bio

BIO

Professor Kazovsky and his research group are investigating green energy-efficient networks. The focus of their research is on access and in-building networks and on hybrid optical / wireless networks. Prof. Kazovsky's research group is also conducting research on next-generation Internet architectures and novel zero-energy photonic components.

ACADEMIC APPOINTMENTS

- Emeritus Faculty, Acad Council, Electrical Engineering - STAR Laboratory
- Affiliate, Precourt Institute for Energy

HONORS AND AWARDS

- Fellow, IEEE (1988)
- Fellow, OSA (1991)
- Chair of Exellence Award, University of Madrid (2013)

PROFESSIONAL EDUCATION

- PhD, St. Petersburg, Russia (1972)

PATENTS

- J. Kim, J-woo. Cho, L. G. Kazovsky. "United States Patent US 8340519 B2 Passive optical network comprising an optical burst mode receiver", The Board of Trustees of The Leland Stanford Junior University, Dec 25, 2012
- Leonid G. Kazovsky. "United States Patent US 4824201 A Simultaneous transmission of LED and laser signals over single mode fiber", Bell Communications Research, Inc., Apr 25, 1989

LINKS

- http://pnrl.stanford.edu/users/leonid-g-kazovsky: http://pnrl.stanford.edu/users/leonid-g-kazovsky

Research & Scholarship

PROJECTS

- CUPELLA: Customer Premises Equipment for Low-Power and Low-Cost Architectures - Stanford University, Alcatel-Lucent
- GOBIT: Green Office Building IT Networks - Stanford University, Corning
- QPAR: Quasi-Passive Reconfigurable Optical Devices, Systems, and Networks - Center For Integrated Systems, Stanford University
- UltraFlow: A Hybrid Future Internet Architecture - Stanford University, MIT, UT Dalla, National Science Foundation

Publications

PUBLICATIONS

- **Quasi-Passive Reconfigurable Node for 5G Mobile Optical Backhaul Networks** *JOURNAL OF LIGHTWAVE TECHNOLOGY*
  Wang, K., Gowda, A., Yin, S., Bi, Y., Kazovsky, L. G.
  2018; 36 (23): 5432–41

- **Bidirectional Quasi-Passive Reconfigurable (Bi-QPAR) Remote Node for Future Optical Access Networks** *JOURNAL OF LIGHTWAVE TECHNOLOGY*
  Wang, K., Bi, Y., Gowda, A. S., Kazovsky, L. G.
  2017; 35 (11): 2109-2117

- **Small Networks, Large Energy: New Frontiers in Green IT**
  Kazovsky, L., Gowda, A. S., Prat, J., IEEE
  IEEE.2017

- **Flexible Coherent UDWDM-PON Adapting Dynamically to Different Bandwidths**
  Segarra, J., Sales, V., Prat, J., Kazovsky, L., IEEE
  IEEE.2017

- **Quasi-Passive Optical Infrastructure for Future 5G Wireless Networks: Pros and Cons** *JOURNAL OF OPTICAL COMMUNICATIONS AND NETWORKING*
  Gowda, A. S., Kazovsky, L. G., Wang, K., Larrabeiti, D.
  2016; 8 (12): B111-B123

- **UltraFlow Access Network With Remotely Powered and Controlled Quasi-Passive Reconfigurable Remote Node** *JOURNAL OF LIGHTWAVE TECHNOLOGY*
  Shen, T. S., Bi, Y., Yin, S., Jin, J., Kazovsky, L. G.
  2016; 34 (9): 2213-2220

- **Energy-Efficient Cascaded Bit-Interleaved Converged Optical Access/In-Building Network Protocol** *JOURNAL OF OPTICAL COMMUNICATIONS AND NETWORKING*
  Ayhan, T., Suvakovic, D., Chow, H., Kazovsky, L. G.
  2015; 7 (8): 785-796

- **IP Resource Sharing Framework in a Dual-Mode UltraFlow Access Network** *JOURNAL OF OPTICAL COMMUNICATIONS AND NETWORKING*
  Shen, T. S., Yin, S., Kazovsky, L. G.
  2015; 7 (5): 401-411

- **First Experimental Demonstration of a Remotely Powered Quasi-Passive Reconfigurable Node** *IEEE PHOTONICS TECHNOLOGY LETTERS*
  Bi, Y., Jin, J., Kazovsky, L. G.
  2015; 27 (9): 990-993

- **Towards Green Optical/Wireless In-Building Networks: Radio-Over-Fiber** *JOURNAL OF LIGHTWAVE TECHNOLOGY*
  Gowda, A. S., Dhaini, A. R., Kazovsky, L. G., Yang, H., Abraha, S. T., Ng'oma, A.
  2014; 32 (20): 3545-3556

- **Reconfigurable Long-Reach UltraFlow Access Network: A Flexible, Cost-Effective, and Energy-Efficient Solution** *JOURNAL OF LIGHTWAVE TECHNOLOGY*
  Shen, T. S., Yin, S., Dhaini, A. R., Kazovsky, L. G.
  2014; 32 (13): 2353-2363

- **QPAR: A Quasi-Passive Reconfigurable Green Node for Dynamic Resource Management in Optical Access Networks** *JOURNAL OF LIGHTWAVE TECHNOLOGY*
  Bi, Y., Jin, J., Dhaini, A. R., Kazovsky, L. G.
  2014; 32 (6): 1104-1115

- **Dual-Mode UltraFlow Access Networks: a Hybrid Solution for the Access Bottleneck** *SPIE Photonics West 2014*
  Kazovsky, L. G., Shen, T., Dhaini, A. R., Yin, S., De Leenheer, M., Detwiler, B. A.

2014

- **Green Optical/Wireless In-Building Networks: the Physics and Principles of Design** *16th International Conference on Transparent Optical Networks (ICTON)*
  Kazovsky, L., Gowda, A. S., Dhaini, A. R., Yang, H., Abraha, S. T., Ng'oma, A.
  IEEE.2014
- **Dual-Mode UltraFlow Access Networks: a Hybrid Solution for the Access Bottleneck** *Photonics West Conference on Broadband Access Communication Technologies VIII*
  Kazovsky, L. G., Shen, T. S., Dhaini, A. R., Yin, S., De Leenheer, M., Detwiler, B. A.
  SPIE-INT SOC OPTICAL ENGINEERING.2014
- **UltraFlow Access Testbed: Experimental Exploration of Dual-Mode Access Networks** *JOURNAL OF OPTICAL COMMUNICATIONS AND NETWORKING*
  Yin, S., Dhaini, A. R., Shen, T. S., Detwiler, B. A., De Leenheer, M., Ucar, T., Kazovsky, L. G.
  2013; 5 (12): 1361-1372
- **Energy Efficient Optical/Wireless Networks** *IEEE/OSA Optical Fiber Communications Conference (OFC/NFOEC) 2013, Workshop on Optical Processing and Analog Subsystems*
  Kazovsky, L. G., Gowda, A. S., Ayhan, T., Albeyoglu, K.
  2013
- **Multicast Service for UltraFlow Access Networks** *15th International Conference on Transparent Optical Networks (ICTON)*
  Larrabeiti, D., Kazovsky, L., Uruena, M., Dhaini, A. R., Yin, S., Hernandez, J. A., Reviriego, P., Shen, T. S.
  IEEE.2013
- **Green In-Building Networks: The Future Convergence of Green, Optical and Wireless Technologies** *15th International Conference on Transparent Optical Networks (ICTON)*
  Kazovsky, L. G., Ayhan, T., Gowda, A. S., Dhaini, A. R., Ng'oma, A., Vetter, P.
  IEEE.2013
- **Energy-Efficient Cascaded Bit-Interleaving Protocol for Integrated Optical Access/In-Building Networks** *3rd IEEE Online Conference on Green Communications (OnlineGreenCom)*
  Ayhan, T., Dhaini, A. R., Kazovsky, L. G., Suvakovic, D., Chow, H. K.
  IEEE.2013: 181–186
- **A Quasi-Passive and Reconfigurable Node for Green Next-Generation Optical Access Networks**
  Bi, Y., Jin, J., Dhaini, Ahmad, R., Kazovsky, Leonid, G.
  2013
- **Multicast Service for UltraFlow Access Networks**
  Larrabeiti, D., Kazovsky, Leonid, G., Uruena, M., Dhaini, Ahmad, R., Yin, S., Hernandez, Jose, A.
  2013
- **Energy Efficient Optical/Wireless Networks**
  Kazovsky, Leonid, G., Gowda, Apurva, S., Ayhan, T., Albeyoglu, K.
  2013
- **Green In-Building Networks: the Optical/Wireless Future**
  Kazovsky, Leonid, G., Apurva, Gowda, s., Ayhan, T.
  2013
- **UltraFlow Access Testbed: Experimental Exploration of DualMode Access Networks** *Journal of Optical Communications and Networking*
  Yin, S., Dhaini, Ahmad, R., Shen, T. S., Detwiler, Benjamin, A., De Leenheer, M., Ucar, T., Kazovsky, L. G.
  2013; 5 (12): 1361–1372
- **UltraFlow Access Networks: A Dual-Mode Solution for the Access Bottleneck** *15th International Conference on Transparent Optical Networks (ICTON)*
  Kazovsky, L. G., Dhaini, A. R., De Leenheer, M., Shen, T. S., Yin, S., Detwiler, B. A.
  IEEE.2013

- **The Stanford UltraFlow Access: Architecture and Hierarchical Scheduling**
  Shen, T. S., Dhaini, Ahmad, R., Yin, S., Detwiler, Benjamin, A., Leenher, M. D., Kazovsky, Leonid, G.
  2013
- **Towards Energy Efficient Wireline Networks, An Update From GreenTouch**
  Vetter, P., Ayhan, T., Kanonakis, K., Lannoo, B., Lee, K. L., Lefevre, L.
  2013
- **How To Design An Energy-Efficient FiberWireless Network?**
  Kazovsky, Leonid, G., Albeyoglu, K., Ayhan, T., Gowda, Apurva, S., Yang, H., Ng'oma, A.
  2013
- **UltraFlow Access Networks: a DualMode Solution**
  Kazovsky, Leonid, G., Ahmad, Dhaini, R., Leenheer, M. D., Shen, T. S., Yin, S., Benjamin, A., Detwiler
  2013
- **Green In-Building Networks: the Optical/Wireless Future** *International Conference on Transparent Optical Networks (ICTON) 2013*
  Kazovsky, L. G., Gowda, A., Ayhan, T., Ng'oma, A., Vetter, P.
  2013
- **How To Design An Energy-Efficient Fiber-Wireless Network?** *IEEE/OSA Optical Fiber Communications Conference (OFC/NFOEC) 2013*
  Kazovsky, L. G., Albeyoglu, K., Ayhan, T., Gowda, A., Yang, H., Ng'oma, A.
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- **UltraFlow Access Networks: a Dual-Mode Solution** *International Conference on Transparent Optical Networks (ICTON) 2013*
  Kazovsky, L. G., Dhaini, A. R., De Leenheer, M., Shen, T., Yin, S., Detwiler, B. A.
  2013
- **Towards Energy Efficient Wireline Networks, An Update From GreenTouch** *OptoElectronics and Communications Conference (OECC) 2013*
  Vetter, P., Ayhan, T., Kanonakis, K., Lannoo, B., Lee, K., Lefevre, L., Monney, C., Saliou, F., Yin, X.
  2013
- **A Quasi-Passive and Reconfigurable Node for Green Next-Generation Optical Access Networks** *IEEE Global Communications Conference 2013*
  Bi, Y., Jin, J., Dhaini, A. R., Kazovsky, L. G.
  2013
- **Energy-Efficient Cascaded Bit-Interleaving Protocol for Integrated Optical Access/In-Building Networks** *IEEE OnlineGreenCom 2013*
  Ayhan, T., Dhaini, A. R., Kazovsky, L. G., Suvakovic, D., Chow, H.
  2013
- **How to Design an Energy Efficient Fiber-Wireless Network** *Conference on Optical Fiber Communication (OFC)/National Fiber Optic Engineers Conference (NFOEC)*
  Kazovsky, L. G., Ayhan, T., Gowda, A., Albeyoglu, K. M., Yang, H., Ng'oma, A.
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- **Multicast Service for UltraFlow Access Networks** *International Conference on Transparent Optical Networks (ICTON) 2013*
  Larrabeiti, D., Kazovsky, L. G., Urueña, M., Dhaini, A. R., Yin, S., Hernández, J., Reviriego, P., Shen, T.
  2013
- **UltraFlow: A Dual-Mode Optical Access Network** *Danish-Californian Workshop on Photonic Technologies for Access and Bio-Photonics (Poster Session)*
  Yin, S., Dhaini, A. R., Detwiler, B. A., Marc De Leenheer, Shen, T., Ucar, T., Kazovsky, L. G.
  2013
- **The Stanford UltraFlow Access: Architecture and Hierarchical Scheduling** *IEEE Global Communications Conference 2013*
  Shen, T., Dhaini, A. R., Yin, S., Detwiler, B. A., De Leenheer, M., Kazovsky, L. G.
  2013
- **Energy Efficiency in Passive Optical Networks: Where, When, and How?** *IEEE NETWORK*

Valcarenghi, L., Dung Pham Van, D. P., Raponi, P. G., Castoldi, P., Campelo, D. R., Wong, S., Yen, S., Kazovsky, L. G., Yamashita, S.
2012; 26 (6): 61-68

- **TOWARD SPECIALIZED UNDERGRADUATE TELECOMMUNICATION ENGINEERING EDUCATION IN THE US** *IEEE COMMUNICATIONS MAGAZINE*
  El-Bawab, T. S., Esfandiari, M., Rouskas, G., Jayasumana, A., Kincaid, M., Effenberger, F., Kazovsky, L., Medard, M., Frost, V., Baniewicz, P.
  2012; 50 (9): 14-16
- **Hybrid Optical-Wireless Access Networks** *PROCEEDINGS OF THE IEEE*
  Kazovsky, L., Wong, S., Ayhan, T., Albeyoglu, K. M., Ribeiro, M. R., Shastri, A.
  2012; 100 (5): 1197-1225
- **Next-Generation Optical Access Networks: Dynamic Bandwidth Allocation, Resource Use Optimization, and QoS Improvements** *IEEE NETWORK*
  Tomkos, I., Kazovsky, L., Kitayama, K.
  2012; 26 (2): 4-6
- **Quasi-Passive Reconfigurable Optical Node: First Experimental Demonstration** *Conference on Lasers and Electro-Optics (CLEO)*
  Bi, Y., Jin, J., Kazovsky, L. G.
  IEEE.2012
- **Green Optical Wireless Access/In-Building Networks** *2012 IEEE Photonics Society Summer Topical Meeting Series*
  Kazovsky, L. G., Albeyoglu, K. M., Ayhan, T., Ucar, T., Van Veen, D.
  2012: 98–99
- **Next generation optical access networks: dynamic bandwidth allocation, resource use optimization and QoS improvements** *IEEE Network Magazine*
  Tomkos, I., Kazovsky, L., Kitayama, K.
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- **Integrated Optical/Wireless Access/In-Building Networks** *Danish-Californian Workshop on Photonic Technologies and Applications*
  Kazovsky, L., Albeyoglu, K., Ayhan, T., Ucar, T.
  2012
- **Optically Cross-Braced Hypercube: a Reconfigurable Physical Layer for Interconnects and Server-Centric Datacenters** *Optical Fiber Communication Conference and Exposition (OFC/NFOEC), 2012 and the National Fiber Optic Engineers Conference*
  Cui, H., Rasoly, D., Ribeiro, M., Kazovsky, L. G.
  2012: 1–3
- **Quasi-Passive and Reconfigurable Optical Node: Implementations with Discrete Latching Switches** *25th IEEE Photonics Conference (IPC)*
  Jin, J., Bi, Y., De Leenheer, M., Kazovsky, L. G., Perin, J. P., Ribeiro, M. R.
  IEEE.2012: 917–918
- **Green Optical/Wireless Access/In-Building Networks**
  Kazovsky, Leonid, G., Albeyoglu, K., Ayhan, T., Ucar, T.
  2012
- **GROWNet: Coherent Signal Processing for Distributed Antennas with Analog RF Transport** *IEEE Wireless Communications and Networking Conference, Workshop on Hybrid Optical Wireless Access Networks*
  Kazovsky, L., Wong, S., Ribeiro, M., Ayhan, T.
  2012
- **Towards energy efficient in-home networks** *ECOC Symposium on Home Networks*
  Kazovsky, L., Vetter, P., Veen, D. v., Jung, H., Ayhan, T.
  2012
- **Research Roadmap for Green Wireline Access** *IEEE International Conference on Communications (ICC)*
  Vetter, P., Lefevre, L., Gasca, L., Kanonakis, K., Kazovsky, L., Lannoo, B., Lee, A., Monney, C., Qiu, X., Saliou, F., Wonfor, A.
  IEEE.2012: 5941–5945
- **Green Optical Wireless Access/In-Building Networks** *2012 IEEE Photonics Society Summer Topical Meeting Series*

Kazovsky, L. G., Albeyoglu, K. M., Ayhan, T., Ucar, T., Van Veen, D.
2012: 98–99

- **Next generation optical access networks: dynamic bandwidth allocation, resource use optimization and QoS improvements** *IEEE Network Magazine*
  Tomkos, I., Kazovsky, L., Kitayama, K.
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- **Integrated Optical/Wireless Access/In-Building Networks** *Danish-Californian Workshop on Photonic Technologies and Applications*
  Kazovsky, L., Albeyoglu, K., Ayhan, T., Ucar, T.
  2012
- **Optically Cross-Braced Hypercube: a Reconfigurable Physical Layer for Interconnects and Server-Centric Datacenters** *Optical Fiber Communication Conference and Exposition (OFC/NFOEC), 2012 and the National Fiber Optic Engineers Conference*
  Cui, H., Rasoly, D., Ribeiro, M., Kazovsky, L. G.
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- **Quasi-Passive and Reconfigurable Optical Node: Implementations with Discrete Latching Switches** *25th IEEE Photonics Conference (IPC)*
  Jin, J., Bi, Y., De Leenheer, M., Kazovsky, L. G., Perin, J. P., Ribeiro, M. R.
  IEEE.2012: 917–918
- **Challenges in next-generation optical access networks: addressing reach extension and security weaknesses** *IET OPTOELECTRONICS*
  Kazovsky, L. G., Wong, S., Gudla, V., Afshar, P. T., Yen, S., Yamashita, S., Yan, Y.
  2011; 5 (4): 133-143
- **Photonic Devices for Next-Generation Broadband Fiber Access Networks** *Conference on Broadband Access Communication Technologies V*
  Kazovsky, L. G., Yen, S., Wong, S.
  SPIE-INT SOC OPTICAL ENGINEERING.2011
- **Inter-Domain Optical/Wireless Networking: Integrated Optical-Wireless Broadband Access Networks**
  Kazovsky, L., G., Shastri, A., Wong, S., W., Yen, S., Albeyoglu, K., Ayhan, T.
  2011
- **Photonic Devices for NextGeneration Broadband Fiber Access Networks**
  Kazovsky, L., G., Yen, S.
  2011
- **Quasi Passive Optical Switch Based on Transition Metal Oxide Device**
  Yen, S., Takashima, Y., Tendulkar, M., Jameson, J., Nishi, Y., Kazovsky, L.
  2011
- **Broadband Optical Access Networks: Emerging Technologies and Optical-Wireless Convergence**
  Kazovsky, L., G., Cheng, N., Shaw, W., T., Gutierrez, D., Wong, S., W.
  John Wiley & Sons.2011
- **Distributed MIMO Antenna Architecture for Wireless-over-Fiber Backhaul with Multicarrier Optical Phase Modulation**
  Caballero, A., Wong, S., W., Zibar, D., Kazovsky, L., G., Monroy, I., T.
  2011
- **Energy Efficient Optical-Wireless Residential Access/In-House Networks**
  Kazovsky, Leonid, G., Ayhan, T., Ribeiro, Moises, R. N., Veen, D. v.
  2011
- **Green Hybrid Optical/Wireless Access/In-House Networks** *OSA Photonics and Optics Congress on Access Networks and In-house Communications (ANIC)*
  Kazovsky, L., Albeyoglu, K., Ayhan, T.
  2011
- **Dynamic Power Saving in Energy Efficient PONs** *XXIX Simpósio Brasileiro de Telecomunicações*
  Campelo, D., Wong, S., Valcarenghi, L., Yen, S., Yamashita, S., Raponi, P. G., Kazovsky, L. G., Castoldi, P.
  2011

- **Inter-Domain Optical/Wireless Networking: Integrated Optical - Wireless Broadband Access Networks** *IEEE/OSA Optical Fiber Communication Conference OFC, Workshop OME: Wireline and Wireless Access Network Integration*
  Kazovsky, L., Shastri, A., Wong, S., Yen, S., Albeyoglu, K., Ayhan, T.
  2011
- **Resilient Optical Access Networks** *Danish-Californian Workshop on Photonic Technologies for Access and Bio-Photonics*
  Kazovsky, L., Breuer, D., Weis, E., Das, S., Yen, S., Kim, J.
  2011
- **Phase Noise Influence in Optical OFDM Systems employing RF Pilot Tone for Phase Noise Cancellation** *Journal of Optical Communications*
  Jacobsen, G., Kazovsky, L., Xu, T., Popov, S., Li, J., Zhang, Y., Friberg, A.
  2011; 32 (2): 141-145
- **Broadband Optical Access Networks: Emerging Technologies and Optical-Wireless Convergence**
  Kazovsky, L. G., Cheng, N., Shaw, W., Gutierrez, D., Wong, S.
  John Wiley & Sons.2011
- **Distributed MIMO Antenna Architecture for Wireless-over-Fiber Backhaul with Multicarrier Optical Phase Modulation** *Conference on Optical Fiber Communication (OFC)/National Fiber Optic Engineers Conference(NFOEC)*
  Caballero, A., Wong, S., Zibar, D., Kazovsky, L. G., Monroy, I. T.
  OPTICAL SOC AMERICA.2011
- **Energy Efficient Optical-Wireless Residential Access/In-House Networks** *13th International Conference on Transparent Optical Networks (ICTON)*
  Kazovsky, L. G., Ayhan, T., Ribeiro, M. R., van Veen, D.
  IEEE.2011
- **European and American Research Toward Next-Generation Optical Access Networks** *12th International Conference on Transparent Optical Networks (ICTON)*
  Kazovsky, L. G., Larsen, C. P., Breuer, D., Gavler, A., Popov, M., Wang, K., Jacobsen, G., Weis, E., Lange, C., Wong, S., Yen, S., Gudla, V., Afshar, et al
  IEEE.2011
- **Quasi Passive Optical Switch Based on Transition Metal Oxide Device** *Conference on Lasers and Electro-Optics (CLEO)*
  Yen, S., Takashima, Y., Tendulkar, M., Jameson, J. R., Nishi, Y., Kazovsky, L. G.
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- **Photonic Components for Future Fiber Access Networks** *IEEE JOURNAL ON SELECTED AREAS IN COMMUNICATIONS*
  Yen, S., Wong, S., Das, S., Cheng, N., Cho, J., Yamashita, S., Solgaard, O., Kazovsky, L. G.
  2010; 28 (6): 928-935
- **Experimental Demonstration of OpenFlow Control of Packet and Circuit Switches** *Conference on Optical Fiber Communication (OFC)/ Collocated National Fiber Optic Engineers (NFOEC)*
  Gudla, V., Das, S., Shastri, A., Parulkar, G., McKeown, N., Kazovsky, L., Yamashita, S.
  IEEE.2010
- **Load Balancing in Integrated Optical Wireless Networks: Algorithms and evaluation**
  Yan, Y., Dittmann, L., Wong, S., W., Kazovsky, L., G.
  2010
- **Next-Generation Integrated MetropolitanAccess Network: Technology Integration and Wireless Convergence** *Wireless Edge and Optical Core – Next Generation Networks*
  Wong, S., W., Campelo, D., Kazovsky, L., G.
  John Wiley & Sons.2010: 1
- **Energy Management Mechanism for Ethernet Passive Optical Networks (EPONs)**
  Yan, Y., Wong, S., Valcarenghi, L., Yen, S., Campelo, D., R., Yamashita, S., Kazovsky, L. G.
  2010
- **Key Technologies and Components for Next Generation Optical Access**
  Kazovsky, Leonid, G., Yen, S., Wong, S., López, D. L., Breuer, D., Weis, E.

2010

- **Quasi-Passive and Reconfigurable Node for Optical Access Network**
  Yen, S., Tendulkar, M., Jameson, J., Yamashita, S., Nishi, Y., Solgaard, O., Kazovsky, L. G.
  2010
- **Next-Generation Optical Access Networks: Goals, Challenges and Research Opportunities** *Telia Workshop on Broadband Access*
  Kazovsky, L., Wong, S., Yen, S., Gavler, A., Gudla, V., Afshar, P., Larrabeiti, D., Breuer, D., Weis, E., Larsen, C., Forzati, M., Wang, K.
  2010
- **Load Balancing in Integrated Optical Wireless Networks: Algorithms and evaluation** *2010 European Wireless Conference*
  Yan, Y., Dittmann, L., Kazovsky, L. G., Wong, S.
  2010: 354–360
- **Key Technologies and Components for Next Generation Optical Access** *Workshop on Optical Access Networks, European Conference on Optical Communications ECOC*
  Kazovsky, L., Yen, S., Wong, S., López, D., Breuer, D., Weis, E., Shastri, A.
  2010
- **Next-Generation Integrated Metropolitan-Access Network: Technology Integration and Wireless Convergence** *Wireless Edge and Optical Core – Next Generation Networks*
  Wong, S., Campelo, D., Kazovsky, L.
  John Wiley & Sons.2010
- **Energy Efficiency in 10Gbps Ethernet Transceivers: Copper versus Fiber** *Conference on Optical Fiber Communication (OFC)/Collocated National Fiber Optic Engineers (NFOEC)*
  Reviriego, P., Larrabeiti, D., Maestro, J. A., Hernandez, J. A., Afshar, P., Kazovsky, L. G.
  IEEE.2010
- **Quasi-Passive and Reconfigurable Node for Optical Access Network** *Conference on Lasers and Electro-Optics (CLEO)/Quantum Electronics and Laser Science Conference (QELS)*
  Yen, S., Tendulkar, M., Jameson, J. R., Yamashita, S., Nishi, Y., Solgaard, O., Kazovsky, L. G.
  IEEE.2010
- **Demonstration of Energy Conserving TDM-PON with Sleep Mode ONU using Fast Clock Recovery Circuit** *Conference on Optical Fiber Communication (OFC)/Collocated National Fiber Optic Engineers (NFOEC)*
  Wong, S., Yen, S., Afshar, P., Yamashita, S., Kazovsky, L. G.
  IEEE.2010
- **Energy Management Mechanism for Ethernet Passive Optical Networks (EPONs)** *2010 IEEE International Conference on Communications*
  Yan, Y., Wong, S., Valcarenghi, L., Yen, S., Campelo, D. R., Yamashita, S., Kazovsky, L., Dittmann, L.
  IEEE.2010
- **Integrated Optical-Wireless Broadband Access Networks** *23rd Annual Meeting of the IEEE Photonics-Society*
  Kazovsky, L. G., Shastri, A., Wong, S., Shaw, W., Cheng, N., Yen, S.
  IEEE.2010: 220–221
- **Grid Reconfigurable Optical-Wireless Architecture for Large Scale Municipal Mesh Access Network** *IEEE Global Telecommunications Conference (GLOBECOM 09)*
  Wong, S., Campelo, D. R., Cheng, N., Yen, S., KAZOVSKY, L., Lee, H., Cox, D. C.
  IEEE.2009: 5853–5858
- **Amplified Hybrid TDM/WDM PON Architecture Using Distributed Parametric Amplifier** *Stanford Photonics Research Center (SPRC 2009) Annual Symposium*
  Afshar, P., Kazovsky, L. G.
  2009
- **Long reach passive optical networks with adaptive power equalization using semiconductor optical amplifiers** *Asia Communications and Photonics Conference and Exhibition ACP 2009*
  Cheng, N., Yen, S., Cho, J., Xu, Z., Yang, T., Tang, Y., Kazovsky, L. G.
  2009

- **Integrated Control Platform with Load Balancing Algorithm in Hybrid Optical Wireless Networks** *2009 3rd International Conference on New Technologies, Mobility and Security NTMS*
  Yan, Y., Dittman, L., Wong, S., Kazovsky, L. G.
  2009: 1–5
- **Sleep Mode for Energy Saving PONs: Advantages and Drawbacks** *IEEE Globecom Workshops (Gc Workshops 2009)*
  Wong, S., Valcarenghi, L., Yen, S., Campelo, D. R., Yamashita, S., Kazovsky, L.
  IEEE.2009: 510–515
- **MPCP Assisted Power Control and Performance of Cell Breathing in Integrated EPON-WiMAX Network** *IEEE Global Telecommunications Conference (GLOBECOM 09)*
  Wong, S., Kazovsky, L. G., Yan, Y., Dittmann, L.
  IEEE.2009: 5871–5876
- **An Ultra-Scalable Broadband Architecture for Municipal Hybrid Wireless Access Using Optical Grid Network** *Conference on Optical Fiber Communication (OFC 2009)*
  Shaw, W., Wong, S., Yen, S., Kazovsky, L. G.
  IEEE.2009: 1647–1649
- **Next Generation Optical Access: Challenges and Opportunities**
  Kazovsky, L., G., Wong, S., W.
  2009
- **Security Weaknesses in Broadband Fiber Access Networks** *White House Office of Science and Technology Policy*
  Kazovsky, L., Wong, S., Yen, S.
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- **PNRL Research for Future Networks** *Human Science and Advanced Technologies Research Institute (H-STAR)*
  Kazovsky, L., Campelo, D., Wong, S.
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