

## Doç. Dr. SERDAR KOCAMAN

### Kişisel Bilgiler

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### Eğitim Bilgileri

Doktora, Columbia University, Mühendislik, Elektrik Mühendisliği, Amerika Birleşik Devletleri 2008 - 2011

Yüksek Lisans, Columbia University, Mühendislik, Elektrik Mühendisliği, Amerika Birleşik Devletleri 2007 - 2008

Lisans, Boğaziçi Üniversitesi, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği Bölümü, Türkiye 2002 - 2007

Lisans Çift Anadal, Boğaziçi Üniversitesi, Fen-Edebiyat Fakültesi, Fizik Bölümü, Türkiye 2002 - 2007

### Yaptığı Tezler

Doktora, On-chip Group and Phase Velocity Control for Classical and Quantum Optical Devices, Columbia University İn The City Of New York, 2011

### Araştırma Alanları

Elektrik-Elektronik Mühendisliği, Elektronik, Nanoteknoloji, Optik ve Fotonik, Mühendislik ve Teknoloji

### Akademik Unvanlar / Görevler

Doç. Dr., Orta Doğu Teknik Üniversitesi, Mühendislik Fakültesi, Elektrik ve Elektronik Mühendisliği Bölümü, 2020 - Devam Ediyor

Dr. Öğr. Üyesi, Orta Doğu Teknik Üniversitesi, Mühendislik Fakültesi, Elektrik ve Elektronik Mühendisliği Bölümü, 2019 - 2020

Yrd. Doç. Dr., Orta Doğu Teknik Üniversitesi, Mühendislik Fakültesi, Elektrik ve Elektronik Mühendisliği Bölümü, 2014 - 2019

### Yönetilen Tezler

KOCAMAN S., Optimization, fabrication, and characterization of dual-band InGaAs NBN photodetectors, Yüksek Lisans, A.ŞAHİN(Öğrenci), 2022

KOCAMAN S., Active surface passivation for swir InGaAs photodetectors, Yüksek Lisans, N.İŞİK(Öğrenci), 2022  
KOCAMAN S., Investigation of screen-printed and evaporated metal contacts on boron implanted emitter, Yüksek Lisans, E.ÖZMEN(Öğrenci), 2021  
KOCAMAN S., Two dimensional silicon photonic crystal band gap applications for optical bio-sensing and modulation, Yüksek Lisans, S.CEM(Öğrenci), 2021  
Kocaman S., BEK A., Barrier engineering for high-performance nBn infrared photodetectors, Doktora, F.UZGUR(Öğrenci), 2020  
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Kocaman S., High operating temperature mid-wave infrared hgcdte photodiode design, Yüksek Lisans, E.YURTSEVEN(Öğrenci), 2019  
Kocaman S., Simulation of dynamical refractive index change in on-chip optical devices, Yüksek Lisans, A.ASLAN(Öğrenci), 2019  
Kocaman S., Comparison of multi-cavity arrays for on-chip WDM applications, Yüksek Lisans, H.ERDİNÇ(Öğrenci), 2019  
KOCAMAN S., Photonic integrated circuit components with amorphous structures, Yüksek Lisans, M.CAN(Öğrenci), 2018  
KOCAMAN S., Integrated optical modulators based on photonic crystals, Yüksek Lisans, A.GÖVDELİ(Öğrenci), 2018  
KOCAMAN S., High performance near/short wavelength infrared megapixel InGaAs focal plane array fabrication development and new design proposals, Yüksek Lisans, U.KARACA(Öğrenci), 2018  
KOCAMAN S., YÜCE E., Controlling light inside a multi-mode fiber by wavefront shaping, Yüksek Lisans, H.İBRAHİM(Öğrenci), 2018  
Bek A., Kocaman S., Radiometry-based range prediction for mid- and long-wave infrared imaging systems, Yüksek Lisans, B.BERKAN(Öğrenci), 2018  
KOCAMAN S., High performance HgCdTe photodetector desings via dark current suppression, Yüksek Lisans, Y.ÖZER(Öğrenci), 2018  
KOCAMAN S., YÜCE E., Zero-n gap design via modulation of hexagonal photonic crystal lattice, Yüksek Lisans, S.MORADI(Öğrenci), 2017

## SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- I. **Active Surface Passivation for mesa type short-wave infrared InGaAs Photodetectors**  
Işık N., KOCAMAN S.  
INFRARED PHYSICS & TECHNOLOGY, cilt.143, 2024 (SCI-Expanded)
- II. **Isotropic gap formation, localization, and waveguiding in mesoscale Yukawa-potential amorphous structures**  
Sarihan M. C., Govdeli A., Lan Z., Yilmaz Y. B., Erdil M., Wang Y., Aras M. S., Yanik C., Panoiu N. C., Wong C. W., et al.  
Communications Physics, cilt.7, sa.1, 2024 (SCI-Expanded)
- III. **Rapid fabrication approach for active photonic devices by employing spin-on dopants**  
ŞAHİN A., AKDENİZ O., KOCAMAN S.  
OPTICS LETTERS, cilt.49, sa.15, ss.4433-4436, 2024 (SCI-Expanded)
- IV. **Integrated programmable controlled phase gate design for quantum information processing**  
Başay Y., KOCAMAN S.  
Physica Scripta, cilt.98, sa.10, 2023 (SCI-Expanded)
- V. **A chip-scale polarization-spatial-momentum quantum SWAP gate in silicon nanophotonics**  
Cheng X., Chang K., Xie Z., Sarihan M. C., Lee Y. S., Li Y., Xu X., Vinod A. K., KOCAMAN S., Yu M., et al.  
Nature Photonics, cilt.17, sa.8, ss.656-665, 2023 (SCI-Expanded)
- VI. **Electrical crosstalk suppression for mesa-based in-device passivated InGaAs photodetectors**  
Çırçır K., Kocaman S.  
INFRARED PHYSICS & TECHNOLOGY, cilt.127, 2022 (SCI-Expanded)
- VII. **Dual-band InGaAs nBn photodetectors at 2 mu m**  
ŞAHİN A., GÜL M. S., UZGUR F., KOCAMAN S.

- APPLIED PHYSICS LETTERS, cilt.120, sa.9, 2022 (SCI-Expanded)
- VIII. **Linear optical deterministic and reconfigurable SWAP gate**  
Bozkurt A. B., KOCAMAN S.  
QUANTUM INFORMATION PROCESSING, cilt.20, sa.9, 2021 (SCI-Expanded)
- IX. **Highly Sensitive and Tunable Fano-Like Rod-Type Silicon Photonic Crystal Refractive Index Sensor**  
KILIÇ S. C., KOCAMAN S.  
IEEE Sensors Journal, cilt.21, sa.6, ss.7551-7557, 2021 (SCI-Expanded)
- X. **On-Chip Switch and Add/Drop Multiplexer Design With Left-Handed Behavior in Photonic Crystals**  
GÖVDELİ A., KOCAMAN S.  
IEEE JOURNAL OF SELECTED TOPICS IN QUANTUM ELECTRONICS, cilt.26, sa.2, 2020 (SCI-Expanded)
- XI. **A 2D Slotted Rod Type PhC Cavity Inertial Sensor Design for Impact Sensing**  
Orsel O. E., ERDİL M., KOCAMAN S.  
IEEE JOURNAL OF QUANTUM ELECTRONICS, cilt.56, sa.1, 2020 (SCI-Expanded)
- XII. **SWIR nightglow radiation detection around room temperature with depletion-engineered HgCdTe on alternative substrates**  
Livanelioglu C., Ozer Y., KOCAMAN S.  
JOURNAL OF THE OPTICAL SOCIETY OF AMERICA B-OPTICAL PHYSICS, cilt.37, sa.1, ss.56-66, 2020 (SCI-Expanded)
- XIII. **Quantitative analysis of nonlinear dynamics of quantum light transmission in strongly coupled quantum dot-cavity systems**  
Tugen A., KOCAMAN S.  
OPTICS COMMUNICATIONS, cilt.436, ss.146-150, 2019 (SCI-Expanded)
- XIV. **Optimization of in-device depleted passivation layer for InGaAs photodetectors**  
Çırçır K., Dolas M. H., Kocaman S.  
Infrared Physics and Technology, cilt.97, ss.360-364, 2019 (SCI-Expanded)
- XV. **Barrier engineering for HgCdTe unipolar detectors on alternative substrates**  
Uzgun F., Kocaman S.  
INFRARED PHYSICS & TECHNOLOGY, cilt.97, ss.123-128, 2019 (SCI-Expanded)
- XVI. **High-Q Slot-Mode Photonic Crystal Nanobeam Cavity Biosensor With Optomechanically Enhanced Sensitivity**  
Erdil M., Ozer Y., Kocaman S.  
IEEE JOURNAL OF SELECTED TOPICS IN QUANTUM ELECTRONICS, cilt.25, 2019 (SCI-Expanded)
- XVII. **InGaAs nBn SWIR detector design with lattice-matched InAlGaAs barrier**  
UZGUR F., KOCAMAN S.  
TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, cilt.27, sa.1, ss.1-10, 2019 (SCI-Expanded)
- XVIII. **All InGaAs Unipolar Barrier Infrared Detectors**  
Uzgun F., Karaca U., Kizilkan E., Kocaman S.  
IEEE TRANSACTIONS ON ELECTRON DEVICES, cilt.65, ss.1397-1403, 2018 (SCI-Expanded)
- XIX. **Stability Formulation for Integrated Opto-mechanic Phase Shifters**  
Ozer Y., Kocaman S.  
SCIENTIFIC REPORTS, cilt.8, 2018 (SCI-Expanded)
- XX. **Integrated Optical Modulator Based on Transition between Photonic Bands**  
Gövdeli A., Sarihan M. C., Karaca U., Kocaman S.  
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- XXI. **Fully Depleted InP Nano-Layer for In-Device Passivation of InGaAs SWIR Detectors**  
Dolas M. H., KOCAMAN S.  
IEEE ELECTRON DEVICE LETTERS, cilt.38, sa.12, ss.1692-1695, 2017 (SCI-Expanded)
- XXII. **Zero average index design via perturbation of hexagonal photonic crystal lattice**  
Moradi S., GÖVDELİ A., KOCAMAN S.  
OPTICAL MATERIALS, cilt.73, ss.577-584, 2017 (SCI-Expanded)
- XXIII. **Generation recombination suppression via depletion engineered heterojunction for alternative**

### **substrate MWIR HgCdTe infrared photodetectors**

Ozer Y., KOCAMAN S.

JOURNAL OF APPLIED PHYSICS, cilt.122, sa.14, 2017 (SCI-Expanded)

- XXIV. **Comparison of coherently coupled multi-cavity and quantum dot embedded single cavity systems**  
KOCAMAN S., Sayan G.  
OPTICS EXPRESS, cilt.24, sa.25, ss.29330-29342, 2016 (SCI-Expanded)
- XXV. **Near-infrared Hong-Ou-Mandel interference on a silicon quantum photonic chip**  
Xu X., Xie Z., Zheng J., Liang J., Zhong T., Yu M., Kocaman S., Lo G., Kwong D., Englund D. R., et al.  
Optics Express, cilt.21, sa.4, ss.5014-5024, 2013 (SCI-Expanded)
- XXVI. **On-chip optical filters with designable characteristics based on an interferometer with embedded silicon photonic structures**  
Kocaman S., Aras M. S., Panoiu N. C., Lu M., Wong C. W.  
Optics Letters, cilt.37, ss.665-667, 2012 (SCI-Expanded)
- XXVII. **Zero phase delay in negative-refractive-index photonic crystal superlattices**  
Kocaman S., Aras M., Hsieh P., McMillan J., Biris C., Panoiu N., Yu M., Kwong D., Stein A., Wong C.  
Nature Photonics, cilt.5, sa.8, ss.499-505, 2011 (SCI-Expanded)
- XXVIII. **Deterministic integrated tuning of multicavity resonances and phase for slow-light in coupled photonic crystal cavities**  
Gu T., Kocaman S., Yang X., McMillan J., Yu M., Lo G., Kwong D., Wong C.  
Applied Physics Letters, cilt.98, sa.12, 2011 (SCI-Expanded)
- XXIX. **Observations of temporal group delays in slow-light multiple coupled photonic crystal cavities**  
Kocaman S., Yang X., McMillan J., Yu M., Kwong D., Wong C.  
Applied Physics Letters, cilt.96, sa.22, 2010 (SCI-Expanded)
- XXX. **Observation of zeroth-order band gaps in negative-refraction photonic crystal superlattices at near-infrared frequencies**  
Kocaman S., Chatterjee R., Panoiu N., McMillan J., Yu M., Osgood R., Kwong D., Wong C.  
Physical Review Letters, cilt.102, sa.20, 2009 (SCI-Expanded)

### **Diğer Dergilerde Yayınlanan Makaleler**

- I. **Analysis of quantum-dot-embedded multicavity arrays for on-chip WDM applications**  
Erdinc H., Kocaman S.  
TURKISH JOURNAL OF PHYSICS, cilt.42, ss.356-370, 2018 (ESCI)

### **Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar**

- I. **On-chip electro-optic modulator based on left-handed photonic crystals**  
Başay Y., Akdeniz O., Gövdeli A., Yanık C., Çelik S., KOCAMAN S.  
Silicon Photonics XIX 2024, California, Amerika Birleşik Devletleri, 29 - 31 Ocak 2024, cilt.12891
- II. **Spin-on Dopant Based Fabrication Methodology of Integrated Photonic Devices**  
ŞAHİN A., AKDENİZ O., KOCAMAN S.  
CLEO: Science and Innovations in CLEO 2024, CLEO: S and I 2024 - Part of Conference on Lasers and Electro-Optics, North Carolina, Amerika Birleşik Devletleri, 5 - 10 Mayıs 2024
- III. **Inter-pixel crosstalk improvement based on a thin crosstalk-block layer for mesa-based InGaAs photodetectors**  
ÇIRÇIR K., KOCAMAN S.  
Quantum Sensing and Nano Electronics and Photonics XIX 2023, California, Amerika Birleşik Devletleri, 29 Ocak - 02 Şubat 2023, cilt.12430
- IV. **Localization and isotropic gap formation in chip-scale Yukawa potential metastructures**

Sarihan M. C., GÖVDELİ A., Lan Z., Yilmaz Y. B., ERDİL M., Aras M. S., Yanik C., Panoiu N. C., Wong C. W., KOCAMAN S.  
2023 Conference on Lasers and Electro-Optics, CLEO 2023, California, Amerika Birleşik Devletleri, 7 - 12 Mayıs 2023

- V. **Crosstalk Analysis for Mesa-based In-device Passivated InGaAs Photodetectors**  
ÇIRÇIR K., KOCAMAN S.  
Conference on Optical Components and Materials XIX at SPIE OPTO Conference, ELECTR NETWORK, 22 Ocak - 28 Şubat 2022, cilt.11997
- VI. **A numerical design for SWIR/eSWIR dual-band operation with InGaAs nBn structures**  
ŞAHİN A., GÜL M. S., Uzgur F., KOCAMAN S.  
Conference on Quantum Sensing and Nano Electronics and Photonics XVIII Part of SPIE Photonics West OPTO Conference, ELECTR NETWORK, 22 Ocak - 24 Şubat 2022, cilt.12009
- VII. **Design of integrated photonic controlled-phase gate with programmable phase for quantum applications**  
Basay Y., KOCAMAN S.  
Quantum Computing, Communication, and Simulation II 2022, Virtual, Online, 20 - 24 Şubat 2022, cilt.12015
- VIII. **Quantum State Tomography of an On-chip Polarization-Spatial Qubit SWAP Gate**  
Cheng X., Xie Z., Chang K., Sarihan M. C., Seung Lee Y., Vinod A. K., Li Y., Xu X., KOCAMAN S., Yu M., et al.  
2021 Conference on Lasers and Electro-Optics, CLEO 2021, Virtual, Online, Amerika Birleşik Devletleri, 9 - 14 Mayıs 2021
- IX. **High Sensitivity Fano-Like Rod-Type Silicon Photonic Crystal Refractive Index Sensor**  
KILIÇ S. C., KOCAMAN S.  
14th International Congress on Artificial Materials for Novel Wave Phenomena, Metamaterials 2020, New York, Amerika Birleşik Devletleri, 27 Eylül - 03 Ekim 2020, ss.385-387
- X. **Low dark current designs for mesa type SWIR photodetectors**  
ŞAHİN A., KOCAMAN S.  
Conference on Infrared Technology and Applications XLVI, ELECTR NETWORK, 27 Nisan - 08 Mayıs 2020, cilt.11407
- XI. **An Efficient On-chip Single-photon SWAP Gate for Entanglement Manipulation**  
Cheng X., Chang K., Xie Z., Lee Y. S., Sarihan M. C., Kumar A., Li Y., KOCAMAN S., Zhong T., Yu M., et al.  
Conference on Lasers and Electro-Optics (CLEO), San-Jose, Kostarika, 10 - 15 Mayıs 2020
- XII. **On-chip flexible waveguides with amorphous structures in the near-infrared**  
Smihan M. C., GÖVDELİ A., Yilmaz Y. B., Erdal M., Aras M. S., Yanik C., Wong C. W., KOCAMAN S.  
Conference on Lasers and Electro-Optics (CLEO), San-Jose, Kostarika, 10 - 15 Mayıs 2020
- XIII. **Flexible waveguides with amorphous photonic materials**  
Sarihan M. C., Yilmaz Y. B., ERDİL M., Aras M. S., Yanik C., Wong C. W., KOCAMAN S.  
Conference on Optical Components and Materials XVI, San-Francisco, Kostarika, 4 - 06 Şubat 2019, cilt.10914
- XIV. **Tunable integrated optical modulator with dynamical photonic band transition of photonic crystals**  
GÖVDELİ A., KOCAMAN S.  
Conference on Silicon Photonics XIV, San-Francisco, Kostarika, 4 - 06 Şubat 2019, cilt.10923
- XV. **On-chip deterministic optical SWAP gate**  
Bozkurt A. B., KOCAMAN S.  
Conference on Quantum Nanophotonic Materials, Devices, and Systems, California, Amerika Birleşik Devletleri, 14 - 15 Ağustos 2019, cilt.11091
- XVI. **Breaking the trade-off between Q-factor and sensitivity for high-Q slot mode photonic crystal nanobeam cavity biosensors with optomechanical feedback**  
ERDİL M., KOCAMAN S.  
Conference on Microfluidics, BioMEMS, and Medical Microsystems XVII, San-Francisco, Kostarika, 2 - 04 Şubat 2019, cilt.10875
- XVII. **Integrated optical modulators with zero index metamaterials based on photonic crystal slab waveguides**  
Yildirim M., GÖVDELİ A., KOCAMAN S.

Conference on Integrated Optics - Devices, Materials, and Technologies XXIII, San-Francisco, Kostarika, 4 - 07 Şubat 2019, cilt.10921

- XVIII. **A Dual-Band HgCdTe nBn Infrared Detector Design**  
UZGUR F., KOCAMAN S.  
Conference on Infrared Sensors, Devices, and Applications IX as part of SPIE Optics + Photonics Conference, California, Amerika Birleşik Devletleri, 14 - 15 Ağustos 2019, cilt.11129
- XIX. **Tuning of 2D Rod-Type Photonic Crystal Cavity for Optical Modulation and Impact Sensing**  
Orsel O. E., ERDİL M., Yanik C., KOCAMAN S.  
Conference on MOEMS and Miniaturized Systems XVIII, San-Francisco, Kostarika, 2 - 04 Şubat 2019, cilt.10931
- XX. **Optomechanical impact sensor with photonic crystal structures**  
Orsel O. E., ERDİL M., Yanik C., KOCAMAN S.  
Active Photonic Platforms XI Conference 2019, California, Amerika Birleşik Devletleri, 11 - 15 Ağustos 2019, cilt.11081
- XXI. **Dynamical FDTD Method for Coupled Integrated Resonators**  
Aslan A., KOCAMAN S.  
31st Annual IEEE Photonics Conference (IPC) of the IEEE-Photonics-Society, Preston, Birleşik Krallık, 30 Eylül - 04 Ekim 2018
- XXII. **Asymmetric Band Gaps in Amorphous Photonic Materials**  
Sarihan M. C., GÖVDELİ A., Aras M. S., Yanik C., Wong C. W., KOCAMAN S.  
31st Annual IEEE Photonics Conference (IPC) of the IEEE-Photonics-Society, Preston, Birleşik Krallık, 30 Eylül - 04 Ekim 2018
- XXIII. **Depletion Engineered Heterojunction pn HgCdTe Infrared Photodetector Structures**  
livanelioğlu c., Yiğit Ö., KOCAMAN S.  
2018 IEEE Photonics Conference (IPC), Reston, VA, 30 Eylül - 04 Ekim 2018
- XXIV. **Band-to-Band Transition Based On-Chip Optical Modulator**  
GÖVDELİ A., Sarihan M. C., Karaca U., KOCAMAN S.  
31st Annual IEEE Photonics Conference (IPC) of the IEEE-Photonics-Society, Preston, Birleşik Krallık, 30 Eylül - 04 Ekim 2018
- XXV. **Hybrid Integration of Broadband Silicon Modulators and InGaAs Photodetectors**  
Karaca U., GÖVDELİ A., KOCAMAN S.  
31st Annual IEEE Photonics Conference (IPC) of the IEEE-Photonics-Society, Preston, Birleşik Krallık, 30 Eylül - 04 Ekim 2018
- XXVI. **Physical Stability Analysis for Optical MEMS Phase Shifters**  
Ozer Y., KOCAMAN S.  
31st Annual IEEE Photonics Conference (IPC) of the IEEE-Photonics-Society, Preston, Birleşik Krallık, 30 Eylül - 04 Ekim 2018
- XXVII. **Depletion Engineered Heterojunction p plus -n HgCdTe Infrared Photodetector Structures**  
Livanelioglu C., Ozer Y., KOCAMAN S.  
31st Annual IEEE Photonics Conference (IPC) of the IEEE-Photonics-Society, Preston, Birleşik Krallık, 30 Eylül - 04 Ekim 2018
- XXVIII. **Optomechanically Enhanced High-Q Slot Mode Photonic Crystal Nanobeam Cavity**  
ERDİL M., KOCAMAN S.  
31st Annual IEEE Photonics Conference (IPC) of the IEEE-Photonics-Society, Preston, Birleşik Krallık, 30 Eylül - 04 Ekim 2018
- XXIX. **Characterization of Depleted In-Device Passivation Layer for InGaAs Photodetectors**  
ÇIRÇIR K., Dolaş M. H., KOCAMAN S.  
Quantum Structure Infrared Photodetector International Conference QSIP 2018, 16 - 21 Haziran 2018
- XXX. **nBn Detector Designs Based on Delta Doping and Compositional Grading**  
UZGUR F., KOCAMAN S.  
Quantum Structure Infrared Photodetector International Conference QSIP 2018, 16 - 21 Haziran 2018
- XXXI. **Comparative Study for Coupled High-Q Cavity Quantum Dot System**

Tugen A., KOCAMAN S.

30th Annual Conference of the IEEE-Photonics-Society (IPC), Florida, Amerika Birleşik Devletleri, 1 - 05 Ekim 2017, ss.273-274

- XXXII. **Çip Üzeri Fotonik Ağlar için Bütünleşik Optik Bileşenler**  
KOCAMAN S.  
19. Ulusal Optik, Elektro-Optik ve Fotonik Çalıştayı, Türkiye, 29 Eylül 2017
- XXXIII. **A chip-scale single-photon SWAP gate as integrated interface between polarization and spatial-momentum qubits**  
Xie Z., Li Y., Xu X., Kumar A., Kocaman S., Zhong T., Veitia A., Yu M., Kwong D., Wong F. N. C., et al.  
Conference on Lasers and Electro-Optics (CLEO), San-Jose, Kostarika, 14 - 19 Mayıs 2017
- XXXIV. **Al/Sb Free InGaAs Unipolar Barrier Infrared Detectors**  
UZGUR F., Karaca U., Kizilkan E., KOCAMAN S.  
Conference on Infrared Technology and Applications XLIII, California, Amerika Birleşik Devletleri, 9 - 13 Nisan 2017, cilt.10177
- XXXV. **A comparative design study for MWIR HgCdTe detectors**  
Ozer Y., KOCAMAN S.  
Conference on Infrared Technology and Applications XLIII, California, Amerika Birleşik Devletleri, 9 - 13 Nisan 2017, cilt.10177
- XXXVI. **Optimization of Mesa Structured InGaAs Based Photodiode Arrays**  
Dolas M. H., ÇIRÇIR K., KOCAMAN S.  
Conference on Image Sensing Technologies - Materials, Devices, Systems, and Applications IV, California, Amerika Birleşik Devletleri, 12 - 13 Nisan 2017, cilt.10209
- XXXVII. **Delay characteristics comparison of coherently coupled high-Q multi-cavity array and single embedded quantum dot cavity systems**  
KOCAMAN S., Sayan G. T.  
Conference on Quantum Dots and Nanostructures - Growth, Characterization, and Modeling XIV, San-Francisco, Kostarika, 30 - 31 Ocak 2017, cilt.10114
- XXXVIII. **Performance Enhancements in High Quantum Efficiency InP Based QWIPs**  
Arslan Y., Çolakoğlu T., KOCAMAN S., BEŞİKCİ C.  
Quantum Structure Infrared Photodetector International Conference QSIP 2014, 29 Haziran - 03 Temmuz 2014
- XXXIX. **Observation of band gaps in amorphous photonic structures with different temperatures in the near infrared**  
KOCAMAN S., McMillan J. F., Di W., Mikael R., Wong C. W.  
CLEO: 2014, San Jose, California, 8 - 13 Haziran 2014
- XL. **Ultrafast nonlinearities and dispersion in slow-light photonic crystal lattices**  
Wong C. W., McMillan J. F., Gu T., Marko M., Li X., Hsieh P., KOCAMAN S.  
Advanced Photonics Congress, Colorado Springs, Colorado, 17 - 20 Haziran 2012
- XLI. **Integrated optical filters based on negative-index photonic crystals**  
KOCAMAN S., Aras M. S., Panoiu N., Lu M., Wong C. W.  
Conference on Lasers and Electro-Optics 2012, San Jose, California, 6 - 11 Mayıs 2012
- XLII. **Near-field observations of self-collimation in photonic crystal superlattices**  
Hsieh P., Chung C., KOCAMAN S., Biris C., Lu M., Panoiu N., Wong C. W.  
Conference on Lasers and Electro-Optics 2012, San Jose, California, 6 - 11 Mayıs 2012
- XLIII. **Zero phase accumulation in negative-index photonic crystal superlattices**  
KOCAMAN S., Aras M. S., Hsieh P., Panoiu N., Yu M., Kwong D., Stein a., Wong C. W.  
CLEO:2011 - Laser Applications to Photonic Applications, Baltimore, Maryland, 1 - 06 Mayıs 2011
- XLIV. **Transparent high-data-rate optical transmission through broadband hitless bypass switches for chip-scale optical networks**  
Aras M. S., Biberman A., Ophir N., Stein a., KOCAMAN S., Chatterjee r., Yu M., Kwong D., Bergman k., Wong C. W.  
Conference on Lasers and Electro-Optics 2010, San Jose, California, 16 - 21 Mayıs 2010
- XLV. **Chip-scale integrated tuning of slow-light in all-optical multi-EIT analogue in photonic crystal**

## cavities

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## XLVI. Time-Domain Demonstrations of Slow-Light in Multi-Coupled Photonic Crystal Cavities

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## Metrikler

Yayın: 77

Atıf (WoS): 378

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H-İndeks (WoS): 10

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## Akademi Dışı Deneyim

Citi, New York, ABD, Quantitative Analyst