

Magnolia Optical & Related Publications

No.	Year / Journal	Publication Reference
199	2027 SPIE	Alexandra V. Dolgashev, Davide Balzerani, Nepomuk Otte, Theeradetch Detchprohm, Subhra Chowdhury, Dhrubes Biswas, and Russell D. Dupuis. "Influence of Silicon and Carbon Impurities on GaN p-i-n Homojunction Avalanche Photodiode Performance." <i>Submitted to SPIE Photonics West 2027</i> , San Francisco, California, February 2027.
198	2027 SPIE	Alexandra V. Dolgashev, Davide Balzerani, Subhra Chowdhury, Dhrubes Biswas, Nepomuk Otte, Theeradetch Detchprohm, and Russell D. Dupuis. "Investigating Effects of TMAH Treatments on UV Avalanche Photodiodes and Light Emitting Diodes." <i>Submitted to SPIE Photonics West 2027</i> , San Francisco, California, February 2027.
197	2027 SPIE	Davide Balzerani, Alexandra V. Dolgashev, Subhra Chowdhury, Dhrubes Biswas, Nepomuk Otte, Theeradetch Detchprohm, and Russell D. Dupuis. "Improving the Photoresponse of III-Nitride Ultraviolet Avalanche Photodiodes using AlGaN Windows." <i>Submitted to SPIE Photonics West 2027</i> , San Francisco, California, February 2027.
196	2026 ICMOVPE	Alexandra V. Dolgashev, Davide Balzerani, Nepomuk Otte, Theeradetch Detchprohm, Dhrubes Biswas, Subhra Chowdhury, and Russell D. Dupuis. "Investigating Surface Treatments on GaN p-i-n Avalanche Photodiodes with Shallow Beveled Edge Termination." <i>22nd International Conference on Metal Organic Vapor Phase Epitaxy (ICMOVPE XXII)</i> , Jeju Island, Korea, July 2026. Program TuB3-4 .
195	2026 ICMOVPE	Davide Balzerani, Alexandra V. Dolgashev, Nepomuk Otte, Theeradetch Detchprohm, Subhra Chowdhury, Dhrubes Biswas, and Russell D. Dupuis. "Low-Leakage Shallow-Beveled Mesa GaN Ultraviolet Avalanche Photodiodes with AlGaN Windows for Improved Responsivity." <i>22nd International Conference on Metal Organic Vapor Phase Epitaxy (ICMOVPE XXII)</i> , Jeju Island, Korea, July 2026. Program WeB1-3 .
194	2026 EMC	Alexandra V. Dolgashev, Davide Balzerani, Nepomuk Otte, Theeradetch Detchprohm, Dhrubes Biswas, Subhra Chowdhury, and Russell D. Dupuis. "Investigating Effects of Wet Surface Treatment on GaN Shallow Beveled Mesa Devices on Free Standing GaN Substrates." <i>68th Electronic Materials Conference (EMC)</i> , Ann Arbor, Michigan, June 2026. EMC 2026 program .
193	2026 EMC	Davide Balzerani, Alexandra V. Dolgashev, Nepomuk Otte, Theeradetch Detchprohm, Subhra Chowdhury, Dhrubes Biswas, and Russell D. Dupuis. "Top-Illuminated GaN-Based Avalanche Photodetectors with AlGaN Windows and Shallow Beveled-Mesa Edge Termination for UV Detection." <i>68th Electronic Materials Conference (EMC)</i> , Ann Arbor, Michigan, June 2026. EMC 2026 program .
192	2026 EMC	Alexandra V. Dolgashev, Davide Balzerani, Nepomuk Otte, Theeradetch Detchprohm, Dhrubes Biswas, Subhra Chowdhury, and Russell D. Dupuis. "Improving Uniformity of Shallow Beveled Photoresist Mask Formed with Grayscale Maskless Alignment Lithography for GaN-Based Avalanche Photodiode Fabrication." <i>68th Electronic Materials Conference (EMC)</i> , Ann Arbor, Michigan, June 2026. EMC 2026 program .
191	2026 SPIE	Russell D. Dupuis, Davide Balzerani, Alexandra V. Dolgashev, Zhiyu Xu, Theeradetch Detchprohm, Nepomuk Otte, Dhrubes Biswas, and Subhra Chowdhury. "Improved performance of GaN-based ultraviolet avalanche photodetectors." <i>Proc. SPIE 13896, 138960L (2026)</i> . DOI: 10.1117/12.3082044
190	2025 EMC	Davide Balzerani, Zhiyu Xu, Alexandra V. Dolgashev, Nepomuk Otte, Subhra Chowdhury, Dhrubes Biswas, and Russell D. Dupuis. "GaN substrates impact on the performances of top-illuminated GaN based avalanche photodetectors." <i>67th Electronic Materials Conference (EMC)</i> , Durham, North Carolina, June 2025. EMC 2025 conference .
189	2024 SPIE	Sarath D. Gunapala, William R. Johnson, David Z. Ting, Alexander Soibel, and coauthors including Ashok K. Sood and John W. Zeller. "Applications of T2SL barrier

		infrared detectors in Earth observational instruments.” <i>Proc. SPIE 13030, 1303003 (2024)</i> . DOI: 10.1117/12.3014555
188	2024 IEEE	Sarath Gunapala, William R. Johnson, David Z. Ting, Alexander Soibel, Sir B. Rafol, Sam A. Keo, Brian J. Pepper, Cory J. Hill, Olga V. Kalashnikova, Michael J. Garay, Ashley G. Davies, Ashok K. Sood, John W. Zeller, Christopher David, Sachidananda Babu, and Parminder Ghuman. “Compact-Fire Infrared Radiance Spectral Tracker (c-FIRST) for SmallSat Platform.” <i>In IGARSS 2024 - 2024 IEEE International Geoscience and Remote Sensing Symposium</i> , pp. 1071-1074 (2024). DOI: 10.1109/IGARSS53475.2024.10642256
187	2024 SPIE	Sarath D. Gunapala, William R. Johnson, David Z. Ting, Alexander Soibel, Sir B. Rafol, Sam A. Keo, Brian J. Pepper, Cory J. Hill, Olga V. Kalashnikova, Michael J. Garay, Ashley G. Davies, Ashok K. Sood, John W. Zeller, Paul Lucey, Robert Wright, Miguel Nunes, Sachidananda Babu, and Parminder Ghuman. “Multi-spectral and hyperspectral Earth remote-sensing instruments based on T2SL infrared focal plane arrays.” <i>Proc. SPIE 13266, 1326602 (2024)</i> . DOI: 10.1117/12.3035002
186	2023 OER	Sir B. Rafol, Sarath D. Gunapala, David Z. Ting, Alexander Soibel, Arezou Khoshakhlagh, Sam A. Keo, Brian J. Pepper, Cory J. Hill, Yuki Maruyama, Anita M. Fisher, Ashok K. Sood, John W. Zeller, Robert Wright, Paul Lucey, Miguel Nunes, Luke Flynn, Sachidananda Babu, and Parminder Ghuman. “Long wavelength type-II superlattice barrier infrared detector for CubeSat hyperspectral thermal imager.” <i>Opto-Electronics Review 31, e144569 (2023)</i> . DOI: 10.24425/opelre.2023.144569
185	2023 SPIE	Ashok K. Sood, John W. Zeller, Adam W. Sood, Parminder Ghuman, Sachidananda Babu, Sarath Gunapala, Alexander Soibel, David Ting, Latika S. Chaudhary, and Harry Efstathiadis. “Advanced detector performance from UV to IR with nanostructured antireflection coatings.” <i>Proc. SPIE 12430, 124301A (2023)</i> . DOI: 10.1117/12.2656534
184	2023 SPIE	Ashok K. Sood, John W. Zeller, Parminder Ghuman, Sachidananda Babu, Nibir K. Dhar, Samiran Ganguly, Latika S. Chaudhary, and Harry Efstathiadis. “High-performance graphene-enhanced HgCdTe photodetectors for uncooled mid-wave infrared sensing.” <i>Proc. SPIE 12430, 124300U (2023)</i> . DOI: 10.1117/12.2656701
183	2023 SPIE	Sarath D. Gunapala, David Z. Ting, William R. Johnson, Alexander Soibel, Perry Ramsey, Olga V. Kalashnikova, Michael J. Garay, Ashley G. Davies, Yuki Maruyama, Jessica Fisher, Ashok K. Sood, John W. Zeller, Christopher David, Sachidananda Babu, and Parminder Ghuman. “Towards compact fire infrared radiance spectral tracker (c-FIRST).” <i>Proc. SPIE 12425, 1242509 (2023)</i> . DOI: 10.1117/12.2659034
182	2023 SPIE	Stephen J. Polly, Brandon Bogner, Anastasiia Fedorenko, Subhra Chowdhury, Dhrub Biswas, and Seth M. Hubbard. “Improving InGaP/GaAs dual junction photovoltaic efficiency with high quality InGaAs quantum wells.” <i>Proc. SPIE 12416, Physics, Simulation, and Photonic Engineering of Photovoltaic Devices XII (Conference Presentation) (2023)</i> . DOI: 10.1117/12.2655453
181	2023 IEEE	M. D. Fazle Rabbe, Volodymyr Sheremet, Samiran Ganguly, Ashok K. Sood, John W. Zeller, Latika S. Chaudhary, Vitaliy Avrutin, Umit Ozgur, and Nibir K. Dhar. “Electrical Properties of Degenerate Boron Doped Graphene.” <i>In SoutheastCon 2023</i> , pp. 714-715. <i>IEEE (2023)</i> . DOI: 10.1109/SoutheastCon51012.2023.10115198
180	2023 EMC	Stephen J. Polly, Brandon Bogner, Anastasiia Fedorenko, Subhra Chowdhury, Dhrub Biswas, and Seth M. Hubbard. “InGaAs/GaAsP Multiple Quantum Well Enhanced Multijunction Photovoltaics.” <i>65th Electronic Materials Conference (EMC)</i> , Santa Barbara, California, June 2023. EMC 2023 program K04 .
179	2023 CRPS	Stephen Polly, Brandon Bogner, Anastasiia Fedorenko, Nikhil Pokharel, Phil Ahrenkiel, Subhra Chowdhury, Dhrub Biswas, and Seth Hubbard. “Growth optimization of quantum-well-enhanced multijunction photovoltaics.” <i>Cell Reports Physical Science 4(6), 101432 (2023)</i> . DOI: 10.1016/j.xcrp.2023.101432

178	2023 SPIE	Ashok K. Sood, John W. Zeller, Parminder Ghuman, Sachidananda Babu, Sarath Gunapala, Alexander Soibel, David Ting, Latika S. Chaudhary, and Harry Efstathiadis. "Advanced Nanostructured Antireflection Coatings for High Performances IR Detector and Imaging Applications." <i>Proc. SPIE 12514, 125140F</i> (2023). DOI: 10.1117/12.2664957
177	2023 SPIE	Ashok K. Sood, John W. Zeller, Parminder Ghuman, Sachidananda Babu, Nibir K. Dhar, Samiran Ganguly, Latika S. Chaudhary, and Harry Efstathiadis. "Development of graphene-enhanced HgCdTe photodetectors for uncooled mid-wave infrared detection." <i>Proc. SPIE 12514, Image Sensing Technologies: Materials, Devices, Systems, and Applications X</i> (2023). DOI: 10.1117/12.2665080
176	2023 SPIE	Sarath D. Gunapala, David Z. Ting, Sir B. Rafol, Alexander Soibel, Arezou Khoshakhlagh, Sam A. Keo, Brian J. Pepper, Anita M. Fisher, Cory J. Hill, Ashok K. Sood, John W. Zeller, Paul Lucey, Robert Wright, Miguel Nunes, Luke Flynn, Sachidananda Babu, and Parminder Ghuman. "Development of T2SLS LWIR focal plane arrays for the hyperspectral thermal imager (HyTI)." <i>Proc. SPIE 12777, 1277730</i> (2023). DOI: 10.1117/12.2690546
175	2023 SPIE	Ashok K. Sood, John W. Zeller, Parminder Ghuman, Sachidananda Babu, Alexander Soibel, David Ting, Sarath Gunapala, Latika S. Chaudhary, and Harry Efstathiadis. "Advanced MWIR and LWIR Band Detection and Imaging with Nanostructured Antireflection Coating Technology." <i>Proc. SPIE 12687, 1268704</i> (2023). DOI: 10.1117/12.2679503
174	2023 SPIE	Ashok K. Sood, John W. Zeller, Parminder Ghuman, Sachidananda Babu, Nibir K. Dhar, Samiran Ganguly, Latika S. Chaudhary, and Harry Efstathiadis. "High-performance Graphene-enhanced HgCdTe Photodetectors for Uncooled Extended Infrared Band Sensing and Imaging." <i>Proc. SPIE 12687, 126870A</i> (2023). DOI: 10.1117/12.2679887
173	2023 SPIE	Sarath D. Gunapala, William R. Johnson, David Z. Ting, Alexander Soibel, Sir B. Rafol, Sam A. Keo, Brian J. Pepper, Cory J. Hill, Olga V. Kalashnikova, Michael J. Garay, Ashley G. Davies, Ashok K. Sood, John W. Zeller, Paul Lucey, Robert Wright, Miguel Nunes, Sachidananda Babu, and Parminder Ghuman. "Applications of T2SL barrier infrared detectors in observational instruments." <i>Proc. SPIE 12729, 127290Q</i> (2023). DOI: 10.1117/12.2679191
172	2023 SPIE	Sarath D. Gunapala, David Z. Ting, Alexander Soibel, William R. Johnson, and coauthors including Ashok K. Sood and John W. Zeller. "Compact fire infrared radiance spectral tracker (c-FIRST)." <i>Proc. SPIE, Infrared Sensors, Devices, and Applications XIII</i> (2023). DOI: 10.1117/12.2679211
171	2023 IEEE JPV	Roger E. Welser, Stephen J. Polly, Brandon M. Bogner, and Seth M. Hubbard. "Impact of Well Number on High-Efficiency Strain-Balanced Quantum-Well Solar Cells." <i>IEEE Journal of Photovoltaics</i> 13, no. 1 (2023): 61-69. DOI: 10.1109/JPHOTOV.2022.3216235
170	2022 Intech	Ashok K. Sood, John W. Zeller, Parminder Ghuman, Sachidananda Babu, Nibir K. Dhar, Randy N. Jacobs, Latika S. Chaudhary, Harry Efstathiadis, Samiran Ganguly, Avik W. Ghosh, Sheikh Ziauddin Ahmed, and Farjana Ferdous Tonni. "Doping and Transfer of High Mobility Graphene Bilayers for Room Temperature Mid-Wave Infrared Photodetectors." <i>In 21st Century Nanostructured Materials (IntechOpen)</i> , 2022. DOI: 10.5772/intechopen.101851
169	2022 SPIE	Sarath D. Gunapala, David Z. Ting, Sir B. Rafol, Alexander Soibel, Arezou Khoshakhlagh, Sam A. Keo, Brian J. Pepper, Anita M. Fisher, Cory J. Hill, Thomas S. Pagano, Ashok K. Sood, John W. Zeller, Paul Lucey, Robert Wright, Miguel Nunes, Luke Flynn, Sachidananda Babu, and Parminder Ghuman. "Mid-wavelength and long-wavelength infrared focal planes for smallsat applications." <i>Proc. SPIE 12091, 1209102</i> (2022). DOI: 10.1117/12.2619573

168	2022 SPIE	Ashok K. Sood, John W. Zeller, Adam W. Sood, Roger E. Welser, Parminder Ghuman, Sachidananda Babu, Sarath Gunapala, Alexander Soibel, David Ting, Latika S. Chaudhary, and Harry Efstathiadis. "Improved UV to IR band detector performance through advanced nanostructured antireflection coatings." <i>Proc. SPIE 12091, 1209106</i> (2022). DOI: 10.1117/12.2622137
167	2022 SPIE	Ashok K. Sood, John W. Zeller, Parminder Ghuman, Sachidananda Babu, Nibir K. Dhar, Randy N. Jacobs, Samiran Ganguly, Sheikh Ahmed, Farjana Tonni, Avik Ghosh, Latika S. Chaudhary, and Harry Efstathiadis. "Development of high-performance graphene-HgCdTe detector technology for mid-wave infrared applications." <i>Proc. SPIE 12091, 1209108</i> (2022). DOI: 10.1117/12.2622239
166	2022 IEEE	Stephen J. Polly, Brandon Bogner, Anastasiia Fedorenko, Subhra Chowdhury, Dhrub Biswas, and Seth M. Hubbard. "26.7% AM0, 30.2% AM1.5G dual junction solar cell with 50x InGaAs quantum wells, GaAsP strain compensation, and distributed Bragg reflector." In <i>2022 IEEE 49th Photovoltaics Specialists Conference (PVSC)</i> , p. 991 (2022). DOI: 10.1109/PVSC48317.2022.9938724
165	2022 IEEE	Sarath D. Gunapala, Sir B. Rafol, David Z. Ting, Alexander Soibel, Arezou Khoshakhlagh, Sam A. Keo, Brian J. Pepper, Anita M. Fisher, Cory J. Hill, Paul Lucey, Robert Wright, Miguel Nunes, Luke Flynn, Ashok K. Sood, Sachidananda Babu, and Parminder Ghuman. "Development of LWIR Focal Plane Arrays for the Hyperspectral Thermal Imager (HYTI)." In <i>2022 IEEE International Geoscience and Remote Sensing Symposium (IGARSS)</i> , pp. 7153-7156 (2022). DOI: 10.1109/IGARSS46834.2022.9883321
164	2022 SPIE	Ashok K. Sood, John W. Zeller, Adam W. Sood, Parminder Ghuman, Sachidananda Babu, Sarath Gunapala, Alexander Soibel, David Ting, Latika S. Chaudhary, and Harry Efstathiadis. "Nanostructured antireflection coating technology for enhanced MWIR and LWIR band sensing performance." <i>Proc. SPIE 12234, 122340B</i> (2022). DOI: 10.1117/12.2637896
163	2022 SPIE	John W. Zeller, Ashok K. Sood, Parminder Ghuman, Sachidananda Babu, Nibir K. Dhar, Samiran Ganguly, Randy N. Jacobs, Latika S. Chaudhary, and Harry Efstathiadis. "High-performance graphene-enhanced HgCdTe mid-wave infrared photodetector development." <i>Proc. SPIE 12234, 122340C</i> (2022). DOI: 10.1117/12.2637897
162	2022 SPIE	Ashok K. Sood, John W. Zeller, Usha Philipose, A. J. Syllaios, Latika S. Chaudhary, and Harry Efstathiadis. "Design and development of innovative vanadium oxide, CNT, and graphene based high-performance microbolometer." <i>Proc. SPIE 12234, 122340E</i> (2022). DOI: 10.1117/12.2644037
161	2022 SPIE	Sarath D. Gunapala, David Z. Ting, Sir B. Rafol, Alexander Soibel, Arezou Khoshakhlagh, Sam A. Keo, Brian J. Pepper, Anita M. Fisher, Cory J. Hill, Ashok K. Sood, John W. Zeller, Paul Lucey, Robert Wright, Miguel Nunes, Luke Flynn, Sachidananda Babu, and Parminder Ghuman. "Development of T2SLS LWIR focal plane arrays for the Hyperspectral Thermal Imager (HyTI) (Conference Presentation)." <i>Proc. SPIE PC12234, PC1223405</i> (2022). DOI: 10.1117/12.2631550
160	2022 SPIE	Sarath D. Gunapala, David Z. Ting, William R. Johnson, Alexander Soibel, Olga V. Kalashnikova, Michael J. Garay, Ashley G. Davies, Mehmet Ogut, Ashok K. Sood, John W. Zeller, and Christopher David. "Compact fire infrared radiance spectral tracker (c-FIRST)." <i>Proc. SPIE 12264, 122640E</i> (2022). DOI: 10.1117/12.2631509
159	2022 IEEE	Brandon M. Bogner, Stephen J. Polly, Seth M. Hubbard, and Roger E. Welser. "Thin, Radiation-Resilient III-V PV Devices Utilizing Quantum Structures and Epitaxial Light Reflectors." In <i>2022 IEEE 49th Photovoltaics Specialists Conference (PVSC)</i> , p. 1167. IEEE, 2022. DOI: 10.1109/PVSC48317.2022.9938910
158	2022 SSRN	Stephen J. Polly, Brandon Bogner, Anastasiia Fedorenko, Nikhil Pokharel, Phil Ahrenkiel, Subhra Chowdhury, Dhrub Biswas, and Seth M. Hubbard. "Growth Optimization of InGaP/GaAs Dual Junction Solar Cells With Quantum Wells and a

		Distributed Bragg Reflector.” <i>SSRN Electronic Journal</i> (2022). DOI: 10.2139/ssrn.4219119
157	2021 SPIE	Ashok K. Sood, John W. Zeller, Adam W. Sood, Roger E. Welser, Harry Efstathiadis, Parminder Ghuman, Sachidananda Babu, and Sarath Gunapala. “Development of UV to IR band nanostructured antireflection coating technology for improved detector and sensor performance.” In <i>Image Sensing Technologies: Materials, Devices, Systems, and Applications VIII</i> , vol. 11723, p. 117230F. International Society for Optics and Photonics, 2021. 10.1117/12.2591158
156	2021 SPIE	Ashok K. Sood, John W. Zeller, Parminder Ghuman, Sachidananda Babu, Nibir K. Dhar, Randy N. Jacobs, Samiran Ganguly, Avik Ghosh, Latika S. Chaudhary, and Harry Efstathiadis. “Development of high-performance graphene-HgCdTe detector technology for mid-wave infrared applications.” In <i>Image Sensing Technologies: Materials, Devices, Systems, and Applications VIII</i> , vol. 11723, p. 117230I. International Society for Optics and Photonics, 2021. 10.1117/12.2590712
155	2021 SPIE	Ashok K. Sood, John W. Zeller, Samiran Ganguly, Avik Ghosh, Latika S. Chaudhary, Harry Efstathiadis et al., “Development of high-performance graphene-HgCdTe detector technology for mid-wave infrared applications.” In <i>Image Sensing Technologies: Materials, Devices, Systems, and Applications XI</i> , vol. 11831, p. 1183103. International Society for Optics and Photonics, 2021.
154	2021 SPIE	Ashok K. Sood, John W. Zeller, Adam W. Sood, Roger E. Welser, Parminder Ghuman, Sachidananda Babu, Sarath Gunapala, Latika S. Chaudhary, and Harry Efstathiadis “Development of UV to IR band nanostructured antireflection coating technology for improved detector and sensor performance,” <i>Infrared Sensors, Devices, and Applications XI</i> , vol. 11831, p. 1183109. International Society for Optics and Photonics, 2021. 10.1117/12.2598993
153	2021 SPIE	Ashok K. Sood, John W. Zeller, Adam W. Sood, Roger E. Welser, Parminder Ghuman, Sachidananda Babu, Sarath Gunapala, Alexander Soibel, David Ting, Latika S. Chaudhary, and Harry Efstathiadis, “Development of nanostructured antireflection coating technology for IR band for improved detector performance.” In <i>Sensors, Systems, and Next-Generation Satellites XXV</i> , vol. 11858, p. 1185812. International Society for Optics and Photonics, 2021. 10.1117/12.2598994
152	2020 SPIE	Ashok K. Sood, John W. Zeller, Parminder Ghuman, Sachidananda Babu, Nibir K. Dhar, Samiran Ganguly, and Avik Ghosh. “Development of high-performance graphene-HgCdTe detector technology for mid-wave infrared applications.” In <i>Sensors, Systems, and Next- Generation Satellites XXIV</i> , vol. 11530, p. 115300I. International Society for Optics and Photonics, 2020. 10.1117/12.2590712
151	2020 SPIE	Ashok K. Sood, John W. Zeller, P. Ghuman, S. Babu, Nibir K. Dhar, Samiran Ganguly, and Avik Ghosh. “Development of high-performance graphene-HgCdTe detector technology for mid-wave infrared applications.” In <i>Sensors, Systems, and Next-Generation Satellites XXIV</i> , vol. 11530, p. 115300I. International Society for Optics and Photonics, 2020. 10.1117/12.2590712
150	2020 SPIE	Ashok K. Sood, John W. Zeller, Parminder Ghuman, Sachidananda Babu, and Russell D. Dupuis. “GaN/AlGaIn avalanche photodiode detector technology for high performance ultraviolet sensing applications.” In <i>Sensors, Systems, and Next-Generation Satellites XXIV</i> , vol. 11530, p. 115300Q. International Society for Optics and Photonics, 2020. 10.1117/12.2573387
149	2020 SPIE	Ashok K. Sood, John W. Zeller, Gopal G. Pethuraja, Adam W. Sood, Roger E. Welser, Harry Efstathiadis, Parminder Ghuman, Sachidananda Babu, and Sarath Gunapala. “Development of UV to IR band nanostructured antireflection coating technology for improved detector and sensor performance.” In <i>Sensors, Systems, and Next-Generation Satellites XXIV</i> , vol. 11530, p. 115300R. International Society for Optics and Photonics, 2020. 10.1117/12.2571713

148	2019 SPIE	Ashok K. Sood, John W. Zeller, Parminder Ghuman, Sachidananda Babu, and Russell D. Dupuis. "High performance GaN/AlGaIn ultraviolet avalanche photodiode detector technologies." In <i>Image Sensing Technologies: Materials, Devices, Systems, and Applications VI</i> , vol. 10980, p. 109800M. International Society for Optics and Photonics, 2019. DOI: 10.1117/12.2521464
147	2019 SPIE	Gopal G. Pethuraja, Adam W. Sood, John W. Zeller, Roger E. Welser, Ashok K. Sood, Harry Efstathiadis, and Priyalal S. Wijewarnasuriya. "Broadband antireflection coatings for advanced sensing and imaging applications." In <i>Image Sensing Technologies: Materials, Devices, Systems, and Applications VI</i> , vol. 10980, p. 109800U. International Society for Optics and Photonics, 2019. DOI: 10.1117/12.2521463
146	2019 Intech	Ashok K. Sood, John W. Zeller, Gopal G. Pethuraja, Roger E. Welser, Nibir K. Dhar, and Priyalal S. Wijewarnasuriya. "Nanostructure Technology for EO/IR Detector Applications." In <i>Nanorods—An Overview from Synthesis to Emerging Device Applications</i> . IntechOpen, 2019. DOI: 10.5772/intechopen.85741
145	2019 SPIE	Ashok K. Sood, John W. Zeller, Parminder Ghuman, Sachidananda Babu, Nibir K. Dhar, Samiran Ganguly, and Avik W. Ghosh. "Development of high-performance graphene-HgCdTe detector technology for mid-wave infrared applications." In <i>Infrared Sensors, Devices, and Applications IX</i> , vol. 11129, p. 1112906. International Society for Optics and Photonics, 2019. DOI: 10.1117/12.2531651
144	2019 SPIE	Ashok K. Sood, John W. Zeller, Parminder Ghuman, Sachidananda Babu, and Russell D. Dupuis. "GaN/AlGaIn avalanche photodiode detectors for high performance ultraviolet sensing applications." In <i>Infrared Sensors, Devices, and Applications IX</i> , vol. 11129, p. 111290F. International Society for Optics and Photonics, 2019. DOI: 10.1117/12.2531644
143	2019 SPIE	Ashok K. Sood, John W. Zeller, Adam W. Sood, Gopal G. Pethuraja, Roger E. Welser, Harry Efstathiadis, Anand V. Sampath, and Nibir K. Dhar. "Development of nanostructured antireflection coatings for infrared sensing applications." In <i>Infrared Sensors, Devices, and Applications IX</i> , vol. 11129, p. 111290I. International Society for Optics and Photonics, 2019. DOI: 10.1117/12.2531642
142	2019 SPIE	Ashok K. Sood, John W. Zeller, Parminder Ghuman, Sachidananda Babu, Nibir K. Dhar, Samiran Ganguly, Avik W. Ghosh, and Russell D. Dupuis. "Development of high-performance detector technology for UV and IR applications." In <i>Sensors, Systems, and Next-Generation Satellites XXIII</i> , vol. 11151, p. 1115113. International Society for Optics and Photonics, 2019. DOI: 10.1117/12.2536257
141	2019 IEEE	A. K. Sood, J. W. Zeller, P. Ghuman, S. Babu, and Nibir K. Dhar. "Development of high-performance detector technology for UV and IR applications." In <i>IGARSS 2019-2019 IEEE International Geoscience and Remote Sensing Symposium</i> , pp. 90-93. IEEE, 2019. 20200000463
140	2019 Sci. Rep.	Roger E. Welser, Stephen J. Polly, Mitsul Kacharia, Anastasiia Fedorenko, Ashok K. Sood, and Seth M. Hubbard. "Design and Demonstration of High-Efficiency Quantum Well Solar Cells Employing Thin Strained Superlattices." <i>Scientific Reports</i> 9 (2019): 13955. DOI: 10.1038/s41598-019-50321-x
139	2018 SPIE	Ashok K. Sood, John W. Zeller, Parminder Ghuman, Sachidananda Babu, Russell D. Dupuis, and Harry Efstathiadis. "Development of high performance ultraviolet and near-infrared detector technologies." In <i>Infrared Sensors, Devices, and Applications VIII</i> , vol. 10766, p. 1076609. International Society for Optics and Photonics, 2018. DOI: 10.1117/12.2323642
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