

# Sheel Aditya

## List of Publications by Citations

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129  
papers

1,056  
citations

18  
h-index

26  
g-index

161  
ext. papers

1,341  
ext. citations

2.3  
avg, IF

4.16  
L-index

#	Paper	IF	Citations
129	An optically tunable wideband optoelectronic oscillator based on a bandpass microwave photonic filter. <i>Optics Express</i> , <b>2013</b> , 21, 16381-9	3.3	53
128	. <i>IEEE Photonics Technology Letters</i> , <b>2009</b> , 21, 1069-1071	2.2	50
127	Photonic measurement of microwave frequency based on phase modulation. <i>Optics Express</i> , <b>2009</b> , 17, 7217-21	3.3	48
126	Bidirectional passively mode-locked soliton fiber laser with a four-port circulator. <i>Optics Letters</i> , <b>2011</b> , 36, 2089-91	3	45
125	. <i>IEEE Transactions on Electron Devices</i> , <b>2011</b> , 58, 4098-4105	2.9	40
124	Wideband Microwave Absorber Based on a Two-Dimensional Periodic Array of Microstrip Lines. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2010</b> , 58, 3913-3922	4.9	38
123	A new method for pHEMT noise-parameter determination based on 50-/spl Omega/ noise measurement system. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2003</b> , 51, 2079-2089	4.1	31
122	Instantaneous Microwave Frequency Measurement Based on Amplified Fiber-Optic Recirculating Delay Loop and BroadBand Incoherent Light Source. <i>Journal of Lightwave Technology</i> , <b>2011</b> , 29, 78-84	4	29
121	. <i>IEEE Transactions on Electron Devices</i> , <b>2010</b> , 57, 3451-3459	2.9	28
120	. <i>Journal of Lightwave Technology</i> , <b>2011</b> , 29, 3381-3386	4	27
119	Vector solitons in a laser passively mode-locked by single-wall carbon nanotubes. <i>Optics Communications</i> , <b>2011</b> , 284, 2007-2011	2	27
118	Instantaneous Microwave Frequency Measurement Using a Photonic Microwave Filter With an Infinite Impulse Response. <i>IEEE Photonics Technology Letters</i> , <b>2010</b> , 22, 682-684	2.2	27
117	Dissipative Soliton (12 nJ) From an All-Fiber Passively Mode-Locked Laser With Large Normal Dispersion. <i>IEEE Photonics Journal</i> , <b>2011</b> , 3, 881-887	1.8	26
116	Performance of S-bends for integrated-optic waveguides. <i>Microwave and Optical Technology Letters</i> , <b>1998</b> , 19, 289-292	1.2	26
115	On-Wafer Microstrip Meander-Line Slow-Wave Structure at Ka-Band. <i>IEEE Transactions on Electron Devices</i> , <b>2018</b> , 65, 2142-2148	2.9	23
114	A 3-D U-Shaped Meander-Line Slow-Wave Structure for Traveling-Wave-Tube Applications. <i>IEEE Transactions on Electron Devices</i> , <b>2013</b> , 60, 1251-1256	2.9	19
113	Photonic Time-Stretched Analog-to-Digital Converter Amenable to Continuous-Time Operation Based on Polarization Modulation With Balanced Detection Scheme. <i>Journal of Lightwave Technology</i> , <b>2011</b> , 29, 3099-3106	4	19

112	An exact analytical model for dispersive transmission in microwave fiber-optic links using Mach-Zehnder external modulator. <i>IEEE Photonics Technology Letters</i> , <b>2005</b> , 17, 1525-1527	2.2	18
111	High isolation X-band MEMS capacitive switches. <i>Sensors and Actuators A: Physical</i> , <b>2005</b> , 120, 241-248	3.9	18
110	ŞKaŞ -Band Symmetric V-Shaped Meander-Line Slow Wave Structure. <i>IEEE Transactions on Plasma Science</i> , <b>2019</b> , 47, 4650-4657	1.3	17
109	Guided Waves on a Planar Helix. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>1979</b> , 27, 860-863	4.1	17
108	. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2019</b> , 67, 3215-3220	4.9	16
107	. <i>IEEE Electron Device Letters</i> , <b>2009</b> , 30, 1215-1217	4.4	16
106	A Wideband Microfabricated Ka-Band Planar Helix Slow-Wave Structure. <i>IEEE Transactions on Electron Devices</i> , <b>2016</b> , 63, 2900-2906	2.9	15
105	Cavity-length optimization for high energy pulse generation in a long cavity passively mode-locked all-fiber ring laser. <i>Applied Optics</i> , <b>2012</b> , 51, 3726-30	1.7	15
104	Stacked dual beam electron optical system for THz integrated wideband traveling wave tube. <i>Physics of Plasmas</i> , <b>2019</b> , 26, 063106	2.1	14
103	Tunable photonic microwave bandpass filter using phase Modulation and a chirped fiber grating in a Sagnac loop. <i>IEEE Photonics Technology Letters</i> , <b>2005</b> , 17, 1935-1937	2.2	14
102	Noise conversion from pump to the passively mode-locked fiber lasers at 1.5 $\mu$ m. <i>Optics Letters</i> , <b>2012</b> , 37, 1901-3	3	13
101	Design of a Sheet-Beam Electron-Optical System for a Microfabricated ŞWŞ -Band Traveling-Wave Tube Using a Cold Cathode. <i>IEEE Transactions on Electron Devices</i> , <b>2016</b> , 63, 3725-3732	2.9	12
100	. <i>Journal of Lightwave Technology</i> , <b>2012</b> , 30, 3164-3172	4	11
99	Characterization of the Excess Noise Conversion From Optical Relative Intensity Noise in the Photodetection of Mode-Locked Lasers for Microwave Signal Synthesis. <i>Journal of Lightwave Technology</i> , <b>2011</b> , 29, 3622-3631	4	11
98	Planar Meanderline Ferrite-Dielectric Phase Shifter. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>1981</b> , 29, 209-215	4.1	11
97	Field Theory of Planar Helix Traveling-Wave Tube. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>1983</b> , 31, 73-76	4.1	11
96	Multiwavelength Raman fiber lasers with equalized peak power using a sampled chirped fiber Bragg grating. <i>Applied Physics B: Lasers and Optics</i> , <b>2006</b> , 83, 249-253	1.9	10
95	Enhanced field emission properties of carbon nanotube films using densification technique. <i>Applied Surface Science</i> , <b>2019</b> , 477, 211-219	6.7	10

94	Enhanced field emission properties of carbon nanotube bundles confined in SiO pits. <i>Nanotechnology</i> , <b>2018</b> , 29, 075205	3.4	10
93	Smoothing of scalloped DRIE trench walls. <i>Materials Science in Semiconductor Processing</i> , <b>2017</b> , 63, 83-89	4.3	9
92	Frequency Response of the Noise Conversion From Relative Intensity Noise to Phase Noise in the Photodetection of an Optical Pulse Train. <i>IEEE Photonics Technology Letters</i> , <b>2011</b> , 23, 468-470	2.2	9
91	A Novel Photonic Microwave Filter With Infinite Impulse Response. <i>IEEE Photonics Technology Letters</i> , <b>2007</b> , 19, 1439-1441	2.2	9
90	Generalized analysis of subcarrier multiplexing in dispersive fiber-optic links using Mach-Zehnder external modulator. <i>Journal of Lightwave Technology</i> , <b>2006</b> , 24, 2296-2304	4	9
89	Guided Waves on a Flattened Sheath Helix (Letters). <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>1977</b> , 25, 71-72	4.1	9
88	Brain-Computer Interface (BCI) Based Musical Composition <b>2010</b> ,		8
87	Enhanced Carbon Nanotubes Growth Using Nickel/Ferrocene-Hybridized Catalyst. <i>ACS Omega</i> , <b>2017</b> , 2, 6063-6071	3.9	7
86	Temperature-dependent selective growth of carbon nanotubes in Si/SiO <sub>2</sub> structures for field emitter array applications. <i>Materials Research Bulletin</i> , <b>2017</b> , 95, 129-137	5.1	7
85	. <i>IEEE Transactions on Electron Devices</i> , <b>2014</b> , 61, 1692-1698	2.9	6
84	Photonic generation of microwave waveforms with wide chirp tuning range. <i>Optics Communications</i> , <b>2013</b> , 304, 102-106	2	6
83	. <i>IEEE Transactions on Electron Devices</i> , <b>2015</b> , 62, 1017-1023	2.9	6
82	Microfabrication of a Planar Helix with Straight-Edge Connections Slow-Wave Structure. <i>Advanced Materials Research</i> , <b>2011</b> , 254, 17-20	0.5	6
81	Switchable Coherence-Free Microwave Photonic Notch Filter Using a Pair of Intensity Modulators. <i>IEEE Photonics Technology Letters</i> , <b>2008</b> , 20, 261-263	2.2	6
80	Design and Fabrication of a Planar Helix Slow-Wave Structure for S/C/X-Band TWT. <i>IEEE Transactions on Components, Packaging and Manufacturing Technology</i> , <b>2017</b> , 7, 1663-1669	1.7	5
79	A Microfabricated Planar Helix Slow-Wave Structure to Avoid Dielectric Charging in TWTs. <i>IEEE Transactions on Electron Devices</i> , <b>2015</b> , 62, 1342-1348	2.9	5
78	Analysis of Coupled Planar Helices with Straight-Edge Connections for Application in Millimeter-Wave TWTs. <i>IEEE Transactions on Electron Devices</i> , <b>2013</b> , 60, 1244-1250	2.9	5
77	Wideband Power Combining of Four Microfabricated W-Band Traveling-Wave Tubes. <i>IEEE Transactions on Electron Devices</i> , <b>2017</b> , 64, 3849-3856	2.9	5

76	Generation of Different Modulation Formats Using Sagnac Fiber Loop With One Electroabsorption Modulator. <i>IEEE Photonics Technology Letters</i> , <b>2008</b> , 20, 297-299	2.2	5
75	An Improved Pinchoff Equivalent Circuit Model for Determining PHEMT Model Parameters for Millimeterwave Application. <i>Journal of Infrared, Millimeter and Terahertz Waves</i> , <b>2002</b> , 23, 1611-1626		5
74	Generation of flat supercontinuum for time-stretched analog-to-digital converters <b>2011</b> ,		4
73	Multiple Dual-Wavelengths Erbium-Doped Fiber Ring Laser Using a Polarization-Maintaining Fabry-Pérot Filter. <i>IEEE Photonics Technology Letters</i> , <b>2008</b> , 20, 1606-1608	2.2	4
72	Two-states method for polarization dependent loss measurement. <i>Optical Fiber Technology</i> , <b>2007</b> , 13, 139-142	2.4	4
71	An Approach for Extracting Small-Signal Equivalent Circuit of Double Heterojunction $\text{InDoped}$ PHEMTs for Millimeter Wave Applications. <i>Journal of Infrared, Millimeter and Terahertz Waves</i> , <b>2002</b> , 23, 345-364		4
70	An Approach to Linear Scalable DH-PHEMT Model for Millimeterwave Application. <i>Journal of Infrared, Millimeter and Terahertz Waves</i> , <b>2002</b> , 23, 1787-1801		4
69	A submicron PHEMT nonlinear model suitable for RFID low current amplifier design. <i>International Journal of Electronics</i> , <b>2003</b> , 90, 433-443	1.2	4
68	Field emission properties of SiO-wrapped CNT field emitter. <i>Nanotechnology</i> , <b>2018</b> , 29, 015202	3.4	4
67	Investigation of angular log-periodic folded groove waveguide slow-wave structure for low voltage Ka-band TWT. <i>AIP Advances</i> , <b>2020</b> , 10, 035030	1.5	3
66	Photonic Generation of Tunable Continuous-Wave Microwave Signals Using a Temporally-Stretched and Chirped Pulse-Train. <i>Journal of Lightwave Technology</i> , <b>2012</b> , 30, 1269-1277	4	3
65	Vacuum Electronic Two-Beam Oscillator Amplifier. <i>IEEE Transactions on Plasma Science</i> , <b>2017</b> , 45, 2260-2267		3
64	Design of a planar helix with straight-edge connections for traveling-wave tube applications <b>2011</b> ,		3
63	Microwave photonic bandpass filter using a multi-wavelength laser with a bell-shaped power profile. <i>Microwave and Optical Technology Letters</i> , <b>2009</b> , 51, 1329-1332	1.2	3
62	PIC simulation for W-band planar helix with straight-edge connections <b>2012</b> ,		3
61	General analyses of infinite impulse microwave photonic filters with an intensity modulator in an optoelectronic feedback loop. <i>Applied Physics B: Lasers and Optics</i> , <b>2008</b> , 92, 609-614	1.9	3
60	PMD effect on pulse shapes and power penalty in optical communication systems. <i>Optics Communications</i> , <b>2006</b> , 260, 560-566	2	3
59	A PMD compensator with HiBi chirped FBG free from chromatic dispersion. <i>Optics Communications</i> , <b>2005</b> , 245, 153-157	2	3

58	Measurement of loss and mode profile for integrated-optic waveguides using a camera <b>2001</b> , 4579, 310		3
57	A New 13 $\times$ 10 Design for the Hybrid Ring Directional Coupler: An Experimental Study. <i>IETE Technical Review (Institution of Electronics and Telecommunication Engineers, India)</i> , <b>1995</b> , 12, 133-136	1.5	3
56	A $\{W\}$ -Band Backward-Wave Oscillator Based on Planar Helix Slow Wave Structure. <i>IEEE Transactions on Electron Devices</i> , <b>2018</b> , 65, 5097-5102	2.9	3
55	Dielectric-Supported Staggered Dual Meander-Line Slow Wave Structure for an E-Band TWT. <i>IEEE Transactions on Electron Devices</i> , <b>2021</b> , 68, 369-375	2.9	3
54	. <i>IEEE Transactions on Electron Devices</i> , <b>2017</b> , 64, 1868-1872	2.9	2
53	A wideband planar helix slow-wave structure for millimeter-wave TWTs <b>2015</b> ,		2
52	Simplified Tape-Helix Analysis of the Planar Helix Slow Wave Structure With Straight-Edge Connections. <i>IEEE Transactions on Electron Devices</i> , <b>2018</b> , 65, 2280-2286	2.9	2
51	Symmetric planar helix slow-wave structure with straight-edge connections for application in TWTs <b>2014</b> ,		2
50	All optical multi-tap microwave filter with high sidelobe suppression using peak profile of ASE and one multiwavelength FBG. <i>Microwave and Optical Technology Letters</i> , <b>2009</b> , 51, 2522-2524	1.2	2
49	All optical microwave photonic filters with a round-trip configuration. <i>Applied Physics B: Lasers and Optics</i> , <b>2008</b> , 90, 137-140	1.9	2
48	Novel tunable microwave photonic notch filter with a variable polarization beamsplitter and a Hi-Bi coupler. <i>Optical Engineering</i> , <b>2005</b> , 44, 100502	1.1	2
47	. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>1991</b> , 40, 863-866	5.2	2
46	Nonreciprocal Dispersion Characteristics of a Planar Helix on Magnetized Ferrite Slabs. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>1979</b> , 27, 864-868	4.1	2
45	A Novel Scheme for Gain and Power Enhancement of THz TWTs by Extended Interaction Cavities. <i>IEEE Transactions on Electron Devices</i> , <b>2020</b> , 67, 667-672	2.9	2
44	A Novel Coplanar Slow-Wave Structure for Millimeter-Wave BWO Applications. <i>IEEE Transactions on Electron Devices</i> , <b>2021</b> , 68, 1924-1929	2.9	2
43	Field emission characteristics of short CNT bundles <b>2016</b> ,		2
42	Design of planar microcoil-based NMR probe ensuring high SNR. <i>AIP Advances</i> , <b>2017</b> , 7, 095107	1.5	1
41	Simplified tape-helix analysis of planar helix slow-wave structure using effective dielectric constant method <b>2017</b> ,		1

40	Lateral conduction within CNT-based planar microcoils on silicon substrate <b>2017,</b>		1
39	Performance study and assessment of phase noise suppression by incoherent addition in a mode-locked fiber laser system. <i>Optics Communications</i> , <b>2012</b> , 285, 153-157	2	1
38	Design of an unconnected pair of planar helices with straight-edge connections for application in TWTs <b>2013,</b>		1
37	Design of a sheet-beam electron gun for a Ka-band microfabricated traveling-wave tube <b>2015,</b>		1
36	Linearization of an optically sampled analog-to-digital converter <b>2012,</b>		1
35	Nonlinearly chirped grating based continuously tunable high notch rejection microwave photonic filter <b>2009,</b>		1
34	Cancellation of distortions using polarization modulation in Time-Stretched Analog-to-Digital conversion <b>2011,</b>		1
33	Microwave photonic frequency doubling in an RoF link DWDM system with four wave mixing. <i>Microwave and Optical Technology Letters</i> , <b>2010</b> , 52, 1428-1431	1.2	1
32	Comments on "Reduced-length rat-race couplers". <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2008</b> , 56, 1501-1501	4.1	1
31	Infinite impulse response microwave photonic filter using a dual drive modulator with an optoelectronic feedback loop. <i>Journal of Modern Optics</i> , <b>2008</b> , 55, 2293-2299	1.1	1
30	. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2007</b> , 55, 176-184	4.1	1
29	Period-generating different modulation formats by inserting an electro-absorption modulator in a Sagnac fiber loop. <i>Applied Physics B: Lasers and Optics</i> , <b>2008</b> , 91, 483-487	1.9	1
28	Coherence-free microwave photonic filter using a electro-absorption modulator in a double pass configuration and its application for harmonic suppression. <i>Microwave and Optical Technology Letters</i> , <b>2008</b> , 50, 226-229	1.2	1
27	Bandpass multitap microwave photonic filter with a round-trip configuration. <i>Microwave and Optical Technology Letters</i> , <b>2008</b> , 50, 1181-1184	1.2	1
26	Even- and odd-order optical sideband suppression modulation using one electro-absorption modulator in a Sagnac fiber loop. <i>Microwave and Optical Technology Letters</i> , <b>2008</b> , 50, 2617-2618	1.2	1
25	A new relation between polarization-mode dispersion vector and output state of polarization. <i>Microwave and Optical Technology Letters</i> , <b>2003</b> , 39, 336-338	1.2	1
24	Slope-matched S-bends for inclined integrated-optic waveguides. <i>Microwave and Optical Technology Letters</i> , <b>2000</b> , 24, 267-271	1.2	1
23	Optically Controlled Microwave Attenuator. <i>IETE Journal of Research</i> , <b>1995</b> , 41, 151-155	0.9	1



22	Magnetic circuit for a sheet electron beam Ka-band microfabricated traveling wave tube <b>2016</b> ,		1
21	Multiwavelength peak power equalized lasers based on SOA using a sampled chirped fiber Bragg grating. <i>Microwave and Optical Technology Letters</i> , <b>2006</b> , 48, 1981-1984	1.2	0
20	Characteristics of a shielded dielectric-loaded edge-coupled conductor-backed coplanar waveguide. <i>Microwave and Optical Technology Letters</i> , <b>1996</b> , 11, 279-281	1.2	0
19	Shielded edge-coupled coplanar waveguide structures: Modes and field configurations. <i>The International Executive</i> , <b>1996</b> , 6, 343-350		0
18	Generation of Time- and Wavelength-Interleaved Optical Pulse-Train With Tunable Pulsewidth Based on Dispersion and Sectional Compression. <i>Journal of Lightwave Technology</i> , <b>2013</b> , 31, 1106-1113	4	
17	Stable operation of microwave photonic filters constructed with two cascaded Hi-Bi fibers. <i>Microwave and Optical Technology Letters</i> , <b>2010</b> , 52, 207-212	1.2	
16	Dielectric-loaded edge-coupled suspended coplanar waveguide forward directional coupler. <i>Microwave and Optical Technology Letters</i> , <b>1997</b> , 14, 289-291	1.2	
15	Tunable negative tap microwave photonic filter using an SOA in a Sagnac loop. <i>Microwave and Optical Technology Letters</i> , <b>2008</b> , 50, 225-226	1.2	
14	Simultaneous dual free spectral range microwave photonic filter using a high-birefringence chirped grating in a Sagnac loop. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , <b>2007</b> , 24, 188-91	1.8	
13	New tunable polarization-mode-dispersion compensator using high-birefringence linearly chirped fiber gratings with highly reduced chromatic dispersion. <i>Optical Engineering</i> , <b>2004</b> , 43, 2837	1.1	
12	An Improved On-Wafer Measurement Method for PHEMT Modeling for Millimeter Wave Application. <i>Journal of Infrared, Millimeter and Terahertz Waves</i> , <b>2003</b> , 24, 1759-1766		
11	An Approach for Microprobe Measurement and Modeling for Millimeter-Wave Application. <i>Journal of Infrared, Millimeter and Terahertz Waves</i> , <b>2003</b> , 24, 1709-1718		
10	A C-band ultra-low-power consumption HMIC amplifier for intelligent transportation system applications. <i>Microwave and Optical Technology Letters</i> , <b>2003</b> , 36, 112-115	1.2	
9	Higher-order polarization mode dispersion: new expressions, induced pulse broadening, and its compensation. <i>Optics Communications</i> , <b>2003</b> , 228, 331-339	2	
8	Optically Controlled Microwave and Millimetre Wave Component. <i>IETE Technical Review (Institution of Electronics and Telecommunication Engineers, India)</i> , <b>1996</b> , 13, 215-223	1.5	
7	Analysis of dielectric image guide structures using method of lines. <i>Journal of Electromagnetic Waves and Applications</i> , <b>1996</b> , 10, 835-844	1.3	
6	Radiation and Antenna Fundamentals. <i>IETE Journal of Education Online</i> , <b>1993</b> , 34, 151-163	0.3	
5	Current Trends in Microwave Engineering. <i>IETE Journal of Education Online</i> , <b>1995</b> , 36, 11-18	0.3	



- 4 Studies on an Experimental Delhi-Pilani Microwave troposcatter Link. *IETE Journal of Research*, **1985**, 31, 126-132 0.9
- 3 Fabrication of silicon-embedded low resistance high-aspect ratio planar copper microcoils. *Journal of Micro/ Nanolithography, MEMS, and MOEMS*, **2018**, 17, 1 0.7
- 2 Electron-optical system for dual radial sheet beams for Ka-band cascaded angular log-periodic strip-line traveling wave tube. *AIP Advances*, **2021**, 11, 035325 1.5
- 1 Fabrication of CNT-Based Planar Micro-Coils on Silicon Substrate. *IEEE Nanotechnology Magazine*, **2018**, 1-1 2.6