

John P R David

List of Publications by Year in descending order

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54
papers

1,192
citations

394421

19
h-index

395702

33
g-index

54
all docs

54
docs citations

54
times ranked

909
citing authors

#	ARTICLE	IF	CITATIONS
1	An Enhanced Color Shift Keying Modulation Scheme for High-Speed Wireless Visible Light Communications. <i>Journal of Lightwave Technology</i> , 2014, 32, 2582-2592.	4.6	172
2	High speed InAs electron avalanche photodiodes overcome the conventional gain-bandwidth product limit. <i>Optics Express</i> , 2011, 19, 23341.	3.4	95
3	Avalanche Multiplication and Excess Noise in InAs Electron Avalanche Photodiodes at 77 K. <i>IEEE Journal of Quantum Electronics</i> , 2011, 47, 858-864.	1.9	92
4	Extremely low excess noise and high sensitivity AlAs _{0.56} Sb _{0.44} avalanche photodiodes. <i>Nature Photonics</i> , 2019, 13, 683-686.	31.4	62
5	InAs Diodes Fabricated Using Be Ion Implantation. <i>IEEE Transactions on Electron Devices</i> , 2015, 62, 2928-2932.	3.0	60
6	Absorption Characteristics of $\text{GaAs}_{1-x}\text{Bi}_x/\text{GaAs}$ Diodes in the Near-Infrared. <i>IEEE Photonics Technology Letters</i> , 2012, 24, 2191-2194.	2.5	59
7	Bismuth incorporation and the role of ordering in GaAsBi/GaAs structures. <i>Nanoscale Research Letters</i> , 2014, 9, 23.	5.7	56
8	Extremely Low Excess Noise in InAs Electron Avalanche Photodiodes. <i>IEEE Photonics Technology Letters</i> , 2009, 21, 866-868.	2.5	52
9	Impact Ionization in InAs Electron Avalanche Photodiodes. <i>IEEE Transactions on Electron Devices</i> , 2010, 57, 2631-2638.	3.0	47
10	Temperature Dependence of Leakage Current in InAs Avalanche Photodiodes. <i>IEEE Journal of Quantum Electronics</i> , 2011, 47, 1123-1128.	1.9	43
11	Performance evaluation of IEEE 802.15.7 CSK physical layer. , 2013, , .		37
12	Assessing the Nature of the Distribution of Localised States in Bulk GaAsBi. <i>Scientific Reports</i> , 2018, 8, 6457.	3.3	28
13	Short-Wave Infrared GaInAsSb Photodiodes Grown on GaAs Substrate by Interfacial Misfit Array Technique. <i>IEEE Photonics Technology Letters</i> , 2012, 24, 218-220.	2.5	27
14	InAlAs Avalanche Photodiode With Type-II Superlattice Absorber for Detection Beyond 2 μm . <i>IEEE Transactions on Electron Devices</i> , 2011, 58, 486-489.	3.0	24
15	Relating the Experimental Ionization Coefficients in Semiconductors to the Nonlocal Ionization Coefficients. <i>IEEE Transactions on Electron Devices</i> , 2015, 62, 1946-1952.	3.0	23
16	Low noise high responsivity InAs electron avalanche photodiodes for infrared sensing. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2012, 9, 310-313.	0.8	22
17	Demonstration of large ionization coefficient ratio in AlAs _{0.56} Sb _{0.44} lattice matched to InP. <i>Scientific Reports</i> , 2018, 8, 9107.	3.3	22
18	Sensitivity of High-Speed Lightwave System Receivers Using InAlAs Avalanche Photodiodes. <i>IEEE Photonics Technology Letters</i> , 2011, 23, 233-235.	2.5	20

#	ARTICLE	IF	CITATIONS
19	Al _{0.52} In _{0.48} P SAM-APD as a Blue-Green Detector. IEEE Journal of Selected Topics in Quantum Electronics, 2014, 20, 142-146.	2.9	20
20	Valence band engineering of GaAsBi for low noise avalanche photodiodes. Nature Communications, 2021, 12, 4784.	12.8	20
21	Optimization of InP APDs for High-Speed Lightwave Systems. Journal of Lightwave Technology, 2009, 27, 3294-3302.	4.6	19
22	A Theoretical Comparison of the Breakdown Behavior of Al _{0.52} In _{0.48} As and InP Near-Infrared Single-Photon Avalanche Photodiodes. IEEE Journal of Quantum Electronics, 2009, 45, 566-571.	1.9	16
23	Versatile Spectral Imaging With an Algorithm-Based Spectrometer Using Highly Tuneable Quantum Dot Infrared Photodetectors. IEEE Journal of Quantum Electronics, 2011, 47, 190-197.	1.9	16
24	Impact Ionization Coefficients in Al _{0.52} In _{0.48} P. IEEE Electron Device Letters, 2011, 32, 1528-1530.	3.9	14
25	Low-Noise Speed-Optimized Large Area CMOS Avalanche Photodetector for Visible Light Communication. Journal of Lightwave Technology, 2017, 35, 2315-2324.	4.6	13
26	Impact Ionization Coefficients in 4H-SiC by Ultralow Excess Noise Measurement. IEEE Transactions on Electron Devices, 2012, 59, 1030-1036.	3.0	12
27	Effects of Dead Space on Avalanche Gain Distribution of X-Ray Avalanche Photodiodes. IEEE Transactions on Electron Devices, 2012, 59, 1063-1067.	3.0	11
28	The staircase photodiode. Nature Photonics, 2016, 10, 364-366.	31.4	11
29	Temperature Dependence of the Impact Ionization Coefficients in AlAsSb Lattice Matched to InP. IEEE Journal of Selected Topics in Quantum Electronics, 2022, 28, 1-8.	2.9	11
30	Dependence of the Electroluminescence on the Spacer Layer Growth Temperature of Multilayer Quantum-Dot Laser Structures. IEEE Journal of Quantum Electronics, 2009, 45, 79-85.	1.9	9
31	Temperature dependence of avalanche multiplication and breakdown voltage in Al _{0.52} In _{0.48} P. Journal of Applied Physics, 2014, 115, .	2.5	9
32	Dark Current Mechanism in Bulk GaInNAs Lattice Matched to GaAs. IEEE Transactions on Electron Devices, 2011, 58, 103-106.	3.0	8
33	High-Gain InAs Planar Avalanche Photodiodes. Journal of Lightwave Technology, 2016, 34, 2639-2644.	4.6	8
34	White Light Constrained Multi-Primary Modulation for Visible Light Communication. , 2017, , .		7
35	Effects of Ionization Velocity and Dead Space on Avalanche Photodiode Bit Error Rate. IEEE Transactions on Communications, 2007, 55, 2152-2158.	7.8	6
36	InAs/GaSb Type-II Superlattice for Radiation Thermometry. IEEE Transactions on Instrumentation and Measurement, 2015, 64, 502-508.	4.7	6

