

# Hyuk-Kee Sung

## List of Publications by Year in descending order

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29  
papers

261  
citations

933447

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940533

16  
g-index

30  
all docs

30  
docs citations

30  
times ranked

298  
citing authors

#	ARTICLE	IF	CITATIONS
1	Optoelectronic Oscillators Using Direct-Modulated Semiconductor Lasers Under Strong Optical Injection. IEEE Journal of Selected Topics in Quantum Electronics, 2009, 15, 572-577.	2.9	56
2	Optical Properties and Modulation Characteristics of Ultra-Strong Injection-Locked Distributed Feedback Lasers. IEEE Journal of Selected Topics in Quantum Electronics, 2007, 13, 1215-1221.	2.9	31
3	Flexible subterahertz metamaterial absorber fabrication using inkjet printing technology. Applied Physics B: Lasers and Optics, 2016, 122, 1.	2.2	21
4	Automotive Frequency Modulated Continuous Wave Radar Interference Reduction Using Per-Vehicle Chirp Sequences. Sensors, 2018, 18, 2831.	3.8	20
5	Reduction of Spurious Tones and Phase Noise in Dual-Loop OEO by Loop-Gain Control. IEEE Photonics Technology Letters, 2015, 27, 1391-1393.	2.5	19
6	Dual-Loop Dual-Modulation Optoelectronic Oscillators With Highly Suppressed Spurious Tones. IEEE Photonics Technology Letters, 2012, 24, 706-708.	2.5	15
7	Degradation Characteristics of Normally-Off p-AlGaIn Gate AlGaIn/GaN HEMTs With 5 MeV Proton Irradiation. IEEE Transactions on Nuclear Science, 2017, 64, 258-262.	2.0	12
8	Simple Optoelectronic Oscillators Using Direct Modulation of Dual-Section Distributed-Feedback Lasers. IEEE Photonics Technology Letters, 2012, 24, 2172-2174.	2.5	11
9	Investigation of Stability and Power Consumption of an AlGaIn/GaN Heterostructure Hydrogen Gas Sensor Using Different Bias Conditions. Sensors, 2019, 19, 5549.	3.8	11
10	Side-lobe Level Reduction of an Optical Phased Array Using Amplitude and Phase Modulation of Array Elements Based on Optically Injection-Locked Semiconductor Lasers. Photonics, 2020, 7, 20.	2.0	11
11	Characterization of a Functional Hydrogel Layer on a Silicon-Based Grating Waveguide for a Biochemical Sensor. Sensors, 2016, 16, 914.	3.8	8
12	Theoretical analysis of a method for extracting the phase of a phase-amplitude modulated signal generated by a direct-modulated optical injection-locked semiconductor laser. Optical Engineering, 2017, 56, 056112.	1.0	8
13	Performance optimization of an optically combined dual-loop optoelectronic oscillator based on optical interference analysis. Optical Engineering, 2017, 56, 066111.	1.0	7
14	Enhancement of the phase-modulation range by using cascaded injection-locked semiconductor lasers. Journal of the Korean Physical Society, 2016, 68, 756-761.	0.7	6
15	Design Parameter Optimization of a Silicon-Based Grating Waveguide for Performance Improvement in Biochemical Sensor Application. Sensors, 2018, 18, 781.	3.8	5
16	Theoretical Performance Evaluation of Optical Complex Signals Based on Optically Injection-Locked Semiconductor Lasers. IEEE Journal of Selected Topics in Quantum Electronics, 2019, 25, 1-9.	2.9	5
17	Investigation of kink effect in normally-off AlGaIn/GaN recessed-gate MOS-heterostructure FETs. Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics, 2016, 34, 052202.	1.2	3
18	Evaluation of Performance Enhancement of Optical Multi-Level Modulation Based on Direct Modulation of Optically Injection-Locked Semiconductor Lasers. Photonics, 2021, 8, 130.	2.0	3

#	ARTICLE	IF	CITATIONS
19	Theoretical analysis of an optoelectronic oscillator based on a directly modulated semiconductor laser. Journal of the Korean Physical Society, 2016, 68, 1088-1093.	0.7	2
20	Diode quenching for Geiger mode avalanche photodiode. IEICE Electronics Express, 2018, 15, 20180062-20180062.	0.8	2
21	107-GHz resonance frequency of 1.55- $\mu\text{m}$ VCSELs under ultra-high optical injection locking. , 2008, , .		1
22	Simple dual-loop optoelectronic oscillator with a low spurious level. Journal of the Korean Physical Society, 2013, 63, 1736-1739.	0.7	1
23	Theoretical Demonstration of Security Improvement of Optical Phased Array Based on Optically Injection-Locked Lasers. Photonics, 2021, 8, 469.	2.0	1
24	Spurious Tone Reduction and Signal Stabilization of Optoelectronic Oscillators by Low-Frequency RF Signal Modulation. Photonics, 2022, 9, 339.	2.0	1
25	Optoelectronic oscillators using dual modulation of two-section DFB lasers. , 2012, , .		0
26	Field-induced degradation of organic field-effect transistors under vacuum condition. Journal of the Korean Physical Society, 2013, 62, 536-540.	0.7	0
27	Enhancement of the static extinction ratio by using a dual-section distributed feedback laser integrated with an electro-absorption modulator. Journal of the Korean Physical Society, 2016, 69, 745-748.	0.7	0
28	Theoretical analysis of simultaneously improving the light coupling efficiency and bandwidth between two separated grating couplers using integrated distributed Bragg reflectors. Journal of the Korean Physical Society, 2017, 71, 647-651.	0.7	0
29	Optical Complex Signal Generation Based on Optical Injection Locking and Its Performance Analysis. , 2018, , .		0