

Jeong Hyun Moon

List of Publications by Citations

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ext. citations

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avg, IF

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L-index

#	Paper	IF	Citations
35	Current conduction mechanisms in atomic-layer-deposited HfO ₂ /nitrided SiO ₂ stacked gate on 4H silicon carbide. <i>Journal of Applied Physics</i> , 2008 , 103, 084113	2.5	110
34	Crystal splitting and enhanced photocatalytic behavior of TiO ₂ rutile nano-belts induced by dislocations. <i>Nanoscale</i> , 2013 , 5, 753-8	7.7	44
33	Fabrication and characterization of 4H-SiC planar MESFETs. <i>Microelectronic Engineering</i> , 2006 , 83, 160-164	4.5	40
32	Analysis of current conduction mechanisms in atomic-layer-deposited Al ₂ O ₃ gate on 4H silicon carbide. <i>Applied Physics Letters</i> , 2007 , 90, 162113	3.4	33
31	Electronic Properties of Atomic-Layer-Deposited Al ₂ O ₃ /Thermal-Nitrided SiO ₂ Stacking Dielectric on 4H SiC. <i>Electrochemical and Solid-State Letters</i> , 2007 , 10, H69		32
30	Effects of post-oxidation annealing temperature on ZrO ₂ thin film deposited on 4H-SiC substrate. <i>Materials Science in Semiconductor Processing</i> , 2011 , 14, 13-17	4.3	22
29	Homoepitaxial growth and electrical characterization of iron-doped semi-insulating 4H-SiC epilayer. <i>Applied Physics Letters</i> , 2006 , 89, 152112	3.4	18
28	Effect of Postoxidation Annealing on High Temperature Grown SiO ₂ /4H-SiC Interfaces. <i>Journal of the Electrochemical Society</i> , 2010 , 157, H196	3.9	11
27	Fabrication of 4H-SiC lateral double implanted MOSFET on an on-axis semi-insulating substrate without using epi-layer. <i>Japanese Journal of Applied Physics</i> , 2017 , 56, 120305	1.4	8
26	Electrical Properties of Atomic-Layer-Deposited La ₂ O ₃ /Thermal-Nitrided SiO ₂ Stacking Dielectric on 4H-SiC(0001). <i>Materials Science Forum</i> , 2007 , 556-557, 643-646	0.4	8
25	Effects of rapid thermal annealing on Al ₂ O ₃ /SiN reaction barrier layer/thermal-nitrided SiO ₂ stacking gate dielectrics on n-type 4H-SiC. <i>Applied Physics Letters</i> , 2010 , 96, 122108	3.4	6
24	Homoepitaxial Growth of Vanadium-Doped Semi-insulating 4H-SiC Using Bis-trimethylsilylmethane and Bis-cyclopentadienylvanadium Precursors. <i>Journal of the Electrochemical Society</i> , 2008 , 155, H11	3.9	6
23	Heavily nitrogen-doped 4H-SiC homoepitaxial films grown on porous SiC substrates. <i>Journal of Crystal Growth</i> , 2007 , 305, 83-87	1.6	6
22	Investigation of thermally grown oxide on 4H-SiC by a combination of H ₂ O and HNO ₃ vapor with varied HNO ₃ solution heating temperature. <i>Applied Surface Science</i> , 2013 , 285, 795-804	6.7	5
21	4H-SiC Planar MESFETs on High-Purity Semi-Insulating Substrates. <i>Materials Science Forum</i> , 2007 , 556-557, 763-766	0.4	5
20	High-voltage lateral double-implanted MOSFETs implemented on high-purity semi-insulating 4H-SiC substrates with gate field plates. <i>Japanese Journal of Applied Physics</i> , 2018 , 57, 06HC08	1.4	4
19	Effect of sweeping direction on the capacitance-voltage behavior of sputtered SiO ₂ /4H-SiC metal-oxide semiconductors after nitric oxide post-deposition annealing. <i>Physica Scripta</i> , 2019 , 94, 125811	2.6	3

18	Investigation of SiO ₂ film growth on 4H-SiC by direct thermal oxidation and postoxidation annealing techniques in HNO ₃ & H ₂ O vapor at varied process durations. <i>Thin Solid Films</i> , 2014 , 570, 138-149	2.2	3
17	Improved 4H-SiC metal oxide semiconductor interface produced by using an oxidized SiN gate oxide that had undergone post-oxidation annealing. <i>Journal of the Korean Physical Society</i> , 2014 , 64, 1363-1369	0.6	3
16	Observation of stacking faults formed during homoepitaxial growth of p-type 4H-SiC. <i>Applied Physics Letters</i> , 2009 , 94, 112109	3.4	3
15	TEOS-based low-pressure chemical vapor deposition for gate oxides in 4H-SiC MOSFETs using nitric oxide post-deposition annealing. <i>Current Applied Physics</i> , 2020 , 20, 1386-1390	2.6	3
14	Ultra-Wide Bandgap AlGaO ₃ Heterojunction Field-Effect Transistor Using p-Type 4H-SiC Gate for Efficient Thermal Management. <i>ECS Journal of Solid State Science and Technology</i> , 2020 , 9, 065006	2	3
13	Impact of Stacking Fault on the I-V Characteristics of 4H-SiC Schottky Barrier Diode. <i>Materials Science Forum</i> , 2015 , 821-823, 563-566	0.4	2
12	Double p-base structure for 1.2-kV SiC trench MOSFETs with the suppression of electric-field crowding at gate oxide. <i>Microelectronic Engineering</i> , 2020 , 225, 111280	2.5	2
11	Oxygen- and photoresist-related interface states of 4H-SiC Schottky diode observed by deep-level transient spectroscopy. <i>Journal of Applied Physics</i> , 2017 , 122, 094504	2.5	2
10	Effect of surface passivation on breakdown voltages of 4H-SiC Schottky barrier diodes. <i>Journal of the Korean Physical Society</i> , 2017 , 71, 707-710	0.6	2
9	Effects of wet-oxidized 4H-SiC annealed in HNO ₃ /H ₂ O vapour. <i>Microelectronics International</i> , 2013 , 31, 42-53	0.8	2
8	Improved 4H-SiC MOS Interface Produced by Oxidized-SiN Gate Oxide. <i>Materials Science Forum</i> , 2010 , 645-648, 511-514	0.4	2
7	Fabrication of a 1.7-kV Schottky barrier diode with improved forward current-voltage characteristics. <i>Journal of the Korean Physical Society</i> , 2016 , 68, 810-814	0.6	1
6	High-voltage LDIMOSFETs on HPSI 4H-SiC substrate with dual field plates. <i>Physica Scripta</i> , 2019 , 94, 105809	2.0	1
5	Effects of heat treatment in vacuum on the physical properties of thermal nitrided silicon dioxide gate on 4H-silicon carbide. <i>Thin Solid Films</i> , 2008 , 516, 7921-7924	2.2	1
4	Electrical Properties of Metal-Oxide-Semiconductor (MOS) Structures on 4H-SiC(0001) Formed by Oxidizing Pre-Deposited SixNy. <i>Materials Science Forum</i> , 2007 , 556-557, 647-650	0.4	1
3	Role of the oxidizing agent in the etching of 4H-SiC substrates with molten KOH. <i>Journal of the Korean Physical Society</i> , 2016 , 69, 1677-1682	0.6	1
2	Homoepitaxial Growth of Vanadium-Doped 4H-SiC Using Bis-Trimethylsilylmethane and Verrocene Precursors. <i>Materials Science Forum</i> , 2007 , 556-557, 113-116	0.4	
1	Formation of the Uniform Interface Ni/4H-SiC Ohmic Contact with Titanium as Barrier Layer. <i>Materials Science Forum</i> , 2018 , 924, 397-400	0.4	

