

# Christophe Durand

## List of Publications by Citations

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28

papers

1,282

citations

16

h-index

29

g-index

29

ext. papers

1,395

ext. citations

5.6

avg, IF

3.85

L-index

#	Paper	IF	Citations
28	M-plane core-shell InGaN/GaN multiple-quantum-wells on GaN wires for electroluminescent devices. <i>Nano Letters</i> , <b>2011</b> , 11, 4839-45	11.5	172
27	Self-assembled growth of catalyst-free GaN wires by metal-organic vapour phase epitaxy. <i>Nanotechnology</i> , <b>2010</b> , 21, 015602	3.4	167
26	Flexible Light-Emitting Diodes Based on Vertical Nitride Nanowires. <i>Nano Letters</i> , <b>2015</b> , 15, 6958-64	11.5	149
25	Integrated photonic platform based on InGaN/GaN nanowire emitters and detectors. <i>Nano Letters</i> , <b>2014</b> , 14, 3515-20	11.5	148
24	Homoepitaxial growth of catalyst-free GaN wires on N-polar substrates. <i>Applied Physics Letters</i> , <b>2010</b> , 97, 151909	3.4	108
23	Flexible White Light Emitting Diodes Based on Nitride Nanowires and Nanophosphors. <i>ACS Photonics</i> , <b>2016</b> , 3, 597-603	6.3	72
22	Correlation of microphotoluminescence spectroscopy, scanning transmission electron microscopy, and atom probe tomography on a single nano-object containing an InGaN/GaN multiquantum well system. <i>Nano Letters</i> , <b>2014</b> , 14, 107-14	11.5	63
21	Single-Wire Light-Emitting Diodes Based on GaN Wires Containing Both Polar and Nonpolar InGaN/GaN Quantum Wells. <i>Applied Physics Express</i> , <b>2012</b> , 5, 014101	2.4	54
20	Flexible Photodiodes Based on Nitride Core/Shell p-n Junction Nanowires. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 26198-26206	9.5	52
19	Light emitting diodes based on GaN core/shell wires grown by MOVPE on n-type Si substrate. <i>Electronics Letters</i> , <b>2011</b> , 47, 765-767	1.1	47
18	M-Plane GaN/InAlN Multiple Quantum Wells in CoreShell Wire Structure for UV Emission. <i>ACS Photonics</i> , <b>2014</b> , 1, 38-46	6.3	37
17	Investigation of Photovoltaic Properties of Single Core-Shell GaN/InGaN Wires. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 21898-906	9.5	32
16	Experimental and theoretical analysis of transport properties of core-shell wire light emitting diodes probed by electron beam induced current microscopy. <i>Nanotechnology</i> , <b>2014</b> , 25, 255201	3.4	30
15	Metal organic vapour-phase epitaxy growth of GaN wires on Si (111) for light-emitting diode applications. <i>Nanoscale Research Letters</i> , <b>2013</b> , 8, 61	5	25
14	Multi-microscopy study of the influence of stacking faults and three-dimensional In distribution on the optical properties of m-plane InGaN quantum wells grown on microwire sidewalls. <i>Applied Physics Letters</i> , <b>2016</b> , 108, 042102	3.4	23
13	Green Electroluminescence from Radial m-Plane InGaN Quantum Wells Grown on GaN Wire Sidewalls by MetalOrganic Vapor Phase Epitaxy. <i>ACS Photonics</i> , <b>2018</b> , 5, 4330-4337	6.3	18
12	InGaN/GaN core/shell nanowires for visible to ultraviolet range photodetection. <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2016</b> , 213, 936-940	1.6	15

11	Comprehensive analyses of core-shell InGaN/GaN single nanowire photodiodes. <i>Journal Physics D: Applied Physics</i> , <b>2017</b> , 50, 484001	3	12
10	Role of Underlayer for Efficient Core-Shell InGaN QWs Grown on $\bar{c}$ -plane GaN Wire Sidewalls. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 19092-19101	9.5	12
9	Self-organized and self-catalyst growth of semiconductor and metal wires by vapour phase epitaxy: GaN rods versus Cu whiskers. <i>Comptes Rendus Physique</i> , <b>2013</b> , 14, 221-227	1.4	11
8	Thin-Wall GaN/InAlN Multiple Quantum Well Tubes. <i>Nano Letters</i> , <b>2017</b> , 17, 3347-3355	11.5	9
7	UV Emission from GaN Wires with $\bar{c}$ -Plane Core-Shell GaN/AlGaN Multiple Quantum Wells. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 44007-44016	9.5	7
6	Radiation sensors based on GaN microwires. <i>Journal Physics D: Applied Physics</i> , <b>2018</b> , 51, 175105	3	6
5	Carrier dynamics near a crack in GaN microwires with AlGaIn multiple quantum wells. <i>Applied Physics Letters</i> , <b>2020</b> , 117, 221105	3.4	4
4	Colour optimization of phosphor-converted flexible nitride nanowire white light emitting diodes. <i>JPhys Photonics</i> , <b>2019</b> , 1, 035003	2.5	3
3	Stretchable Transparent Light-Emitting Diodes Based on InGaN/GaN Quantum Well Microwires and Carbon Nanotube Films. <i>Nanomaterials</i> , <b>2021</b> , 11,	5.4	2
2	Dual-Color Emission from Monolithic $\bar{m}$ -Plane Core-Shell InGaN/GaN Quantum Wells. <i>Advanced Photonics Research</i> , <b>2021</b> , 2, 2000148	1.9	1
1	Self-powered proton detectors based on GaN core-shell p-n microwires. <i>Applied Physics Letters</i> , <b>2021</b> , 118, 193501	3.4	1