

# Vincent Derycke

## List of Publications by Year in descending order

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50  
papers

5,683  
citations

257357

24  
h-index

206029

48  
g-index

50  
all docs

50  
docs citations

50  
times ranked

5604  
citing authors

#	ARTICLE	IF	CITATIONS
1	(Invited) Backside Absorbing Layer Microscopy: A New Tool to Study the Optical, Chemical and Electrochemical Properties of 2D Materials. ECS Meeting Abstracts, 2021, MA2021-01, 596-596.	0.0	0
2	(Invited) Backside Absorbing Layer Microscopy: A New Tool to Study the Optical, Chemical and Electrochemical Properties of 2D Materials. ECS Meeting Abstracts, 2020, MA2020-01, 742-742.	0.0	2
3	Effect of Halide Ion Migration on the Electrical Properties of Methylammonium Lead Tri-Iodide Perovskite Solar Cells. Journal of Physical Chemistry C, 2019, 123, 17728-17734.	1.5	41
4	Ideal optical contrast for 2D material observation using bi-layer antireflection absorbing substrates. Nanoscale, 2019, 11, 6129-6135.	2.8	7
5	Multiscaled Simulation Methodology for Neuro-Inspired Circuits Demonstrated with an Organic Memristor. IEEE Transactions on Multi-Scale Computing Systems, 2018, 4, 822-832.	2.5	6
6	Backside absorbing layer microscopy: Watching graphene chemistry. Science Advances, 2017, 3, e1601724.	4.7	18
7	Polarization-sensitive Single-Wall Carbon Nanotubes All-in-One Photodetecting and Emitting Device Working at 1.55 Åm. Advanced Functional Materials, 2017, 27, 1702341.	7.8	17
8	Electronic Transport of MoS <sub>2</sub> Monolayered Flakes Investigated by Scanning Electrochemical Microscopy. ChemPhysChem, 2017, 18, 2777-2781.	1.0	7
9	Highly selective sorting of semiconducting single wall carbon nanotubes exhibiting light emission at telecom wavelengths. Nano Research, 2016, 9, 2478-2486.	5.8	6
10	Electrografted Fluorinated Organic Ultrathin Film as Efficient Gate Dielectric in MoS <sub>2</sub> Transistors. Journal of Physical Chemistry C, 2016, 120, 9506-9510.	1.5	8
11	Gram-scale carbon nanotubes as semiconducting material for highly versatile route of integration in plastic electronics. Physica Status Solidi (A) Applications and Materials Science, 2016, 213, 183-192.	0.8	2
12	Physical Realization of a Supervised Learning System Built with Organic Memristive Synapses. Scientific Reports, 2016, 6, 31932.	1.6	47
13	Influence of Molecular Organization on the Electrical Characteristics of ĩ-Conjugated Self-Assembled Monolayers. Journal of Physical Chemistry C, 2015, 119, 5703-5713.	1.5	14
14	Supervised learning with organic memristor devices and prospects for neural crossbar arrays. , 2015, , .		12
15	Versatile Wafer-Scale Technique for the Formation of Ultrasoother and Thickness-Controlled Graphene Oxide Films Based on Very Large Flakes. ACS Applied Materials & Interfaces, 2015, 7, 21270-21277.	4.0	12
16	A highly selective non-radical diazo coupling provides low cost semi-conducting carbon nanotubes. Carbon, 2014, 66, 246-258.	5.4	11
17	Carbon Nanotube-Templated Synthesis of Covalent Porphyrin Network for Oxygen Reduction Reaction. Journal of the American Chemical Society, 2014, 136, 6348-6354.	6.6	231
18	New Insights into the Electronic Transport of Reduced Graphene Oxide Using Scanning Electrochemical Microscopy. Journal of Physical Chemistry Letters, 2014, 5, 4162-4166.	2.1	13

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19	Localized Reduction of Graphene Oxide by Electrogenerated Naphthalene Radical Anions and Subsequent Diazonium Electrografting. <i>Journal of the American Chemical Society</i> , 2014, 136, 4833-4836.	6.6	27
20	Contactless Surface Conductivity Mapping of Graphene Oxide Thin Films Deposited on Glass with Scanning Electrochemical Microscopy. <i>Analytical Chemistry</i> , 2013, 85, 1812-1818.	3.2	19
21	Functionalization of Carbon Nanotubes through Polymerization in Micelles: A Bridge between the Covalent and Noncovalent Methods. <i>Chemistry of Materials</i> , 2013, 25, 2700-2707.	3.2	42
22	Integrating Multiple Resistive Memory Devices on a Single Carbon Nanotube. <i>Advanced Functional Materials</i> , 2013, 23, 5631-5637.	7.8	12
23	Neuromorphic function learning with carbon nanotube based synapses. <i>Nanotechnology</i> , 2013, 24, 384013.	1.3	37
24	Flexible Gigahertz Transistors Derived from Solution-Based Single-Layer Graphene. <i>Nano Letters</i> , 2012, 12, 1184-1188.	4.5	133
25	Labile Diazo Chemistry for Efficient Silencing of Metallic Carbon Nanotubes. <i>Chemistry - A European Journal</i> , 2011, 17, 1415-1418.	1.7	14
26	Two-terminal Carbon Nanotube Programmable Devices for Adaptive Architectures. <i>Advanced Materials</i> , 2010, 22, 702-706.	11.1	95
27	New Confinement Method for the Formation of Highly Aligned and Densely Packed Single-walled Carbon Nanotube Monolayers. <i>Small</i> , 2010, 6, 1488-1491.	5.2	17
28	High-speed Programming of Nanowire-gated Carbon Nanotube Memory Devices. <i>Small</i> , 2010, 6, 2659-2663.	5.2	8
29	Recent Advances in Molecular Electronics Based on Carbon Nanotubes. <i>Chimia</i> , 2010, 64, 414.	0.3	1
30	Carbon nanotube chemistry and assembly for electronic devices. <i>Comptes Rendus Physique</i> , 2009, 10, 330-347.	0.3	28
31	80 GHz field-effect transistors produced using high purity semiconducting single-walled carbon nanotubes. <i>Applied Physics Letters</i> , 2009, 94, .	1.5	153
32	Functional Model of Carbon Nanotube Programmable Resistors for Hybrid Nano/CMOS Circuit Design. <i>Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering</i> , 2009, , 105-110.	0.2	1
33	Nonlinear Characterization and Modeling of Carbon Nanotube Field-Effect Transistors. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2008, 56, 1505-1510.	2.9	6
34	Nanotube Transistors as Direct Probes of the Trap Dynamics at Dielectric/Organic Interfaces of Interest in Organic Electronics and Solar Cells. <i>Nano Letters</i> , 2008, 8, 3619-3625.	4.5	30
35	Self-assembled molecular monolayers as ultrathin gate dielectric in carbon nanotube transistors. <i>Applied Physics Letters</i> , 2008, 93, .	1.5	15
36	Intrinsic current gain cutoff frequency of 30GHz with carbon nanotube transistors. <i>Applied Physics Letters</i> , 2007, 90, 233108.	1.5	102

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37	Optoelectronic Switch and Memory Devices Based on Polymer-Functionalized Carbon Nanotube Transistors. <i>Advanced Materials</i> , 2006, 18, 2535-2540.	11.1	142
38	Atomic scale engineering of nanostructures at silicon carbide surfaces. <i>Microelectronics Journal</i> , 2005, 36, 969-976.	1.1	7
39	Self-assembled switches based on electroactuated multiwalled nanotubes. <i>Applied Physics Letters</i> , 2005, 87, 193107.	1.5	82
40	Chemical Optimization of Self-Assembled Carbon Nanotube Transistors. <i>Nano Letters</i> , 2005, 5, 451-455.	4.5	127
41	Room-temperature ferromagnetic nanotubes controlled by electron or hole doping. <i>Nature</i> , 2004, 431, 672-676.	13.7	231
42	Nanochemistry at the atomic scale revealed in hydrogen-induced semiconductor surface metallization. <i>Nature Materials</i> , 2003, 2, 253-258.	13.3	125
43	Carbon Nanotubes as Schottky Barrier Transistors. <i>Physical Review Letters</i> , 2002, 89, 106801.	2.9	1,111
44	Controlling doping and carrier injection in carbon nanotube transistors. <i>Applied Physics Letters</i> , 2002, 80, 2773-2775.	1.5	623
45	Catalyst-Free Growth of Ordered Single-Walled Carbon Nanotube Networks. <i>Nano Letters</i> , 2002, 2, 1043-1046.	4.5	110
46	Vertical scaling of carbon nanotube field-effect transistors using top gate electrodes. <i>Applied Physics Letters</i> , 2002, 80, 3817-3819.	1.5	622
47	Field-Modulated Carrier Transport in Carbon Nanotube Transistors. <i>Physical Review Letters</i> , 2002, 89, 126801.	2.9	384
48	Carbon nanotube electronics. <i>IEEE Nanotechnology Magazine</i> , 2002, 1, 184-189.	1.1	127
49	Carbon nanotube transistors and logic circuits. <i>Physica B: Condensed Matter</i> , 2002, 323, 6-14.	1.3	97
50	Ambipolar Electrical Transport in Semiconducting Single-Wall Carbon Nanotubes. <i>Physical Review Letters</i> , 2001, 87, 256805.	2.9	701