Stoffel D Janssens

List of Publications by Year
in descending order

49	1,132	394286 19	414303 32
papers	citations	h-index	g-index

52	52	52	1522
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Influence of the boron doping level on the electrochemical oxidation of the azo dyes at Si/BDD thin film electrodes. Diamond and Related Materials, 2013, 39, 82-88.	1.8	116
2	Heat-Transfer Resistance at Solidâ€“Liquid Interfaces: A Tool for the Detection of Single-Nucleotide Polymorphisms in DNA. ACS Nano, 2012, 6, 2712-2721.	7.3	74
3	Molecularly Imprinted Polypyrrole Based Impedimentric Sensor for Theophylline Determination. Electrochimica Acta, 2014, 130, 361-367.	2.6	71
4	Separation of intra- and intergranular magnetotransport properties in nanocrystalline diamond films on the metallic side of the metalâ€“insulator transition. New Journal of Physics, 2011, 13, 083008.	1.2	68
5	Direct visualization of boron dopant distribution and coordination in individual chemical vapor deposition nanocrystalline B-doped diamond grains. Applied Physics Letters, 2012, 101, 041907.	1.5	61
6	Local boron environment in B-doped nanocrystalline diamond films. Nanoscale, 2012, 4, 5960.	2.8	46
7	Behavior of self-propelled acetone droplets in a Leidenfrost state on liquid substrates. Physics of Fluids, 2017, 29, .	1.6	45
8	Impedimetric, diamond-based immmunosensor for the detection of C-reactive protein. Sensors and Actuators B: Chemical, 2011, 157, 130-138.	4.0	43
9	Photocurrent Generation in Diamond Electrodes Modified with Reaction Centers. ACS Applied Materials & Interfaces, 2015, 7, 8099-8107.	4.0	42
10	Phase transitions in lipid vesicles detected by a complementary set of methods: heatâ€transfer measurements, adiabatic scanning calorimetry, and dissipationâ€mode quartz crystal microbalance. Physica Status Solidi (A) Applications and Materials Science, 2014, 211, 1377-1388.	0.8	41
11	Oxygenâ€Terminated Nanocrystalline Diamond Film as an Efficient Anode in Photovoltaics. Advanced Functional Materials, 2010, 20, 1313-1318.	7.8	35
12	Rapid assessment of the stability of DNA duplexes by impedimetric real-time monitoring of chemically induced denaturation. Lab on A Chip, 2011, 11, 1656.	3.1	35
13	Surface plasma pretreatment for enhanced diamond nucleation on AlN. Applied Physics Letters, 2013, 102, .	1.5	29
14	Electrochemical oxidation of ionic liquids at highly boron doped diamond electrodes. Physica Status Solidi (A) Applications and Materials Science, 2012, 209, 1797-1803.	0.8	26
15	Spinâ€seeding approach for diamond growth on large area siliconâ€wafer substrates. Physica Status Solidi (A) Applications and Materials Science, 2012, 209, 1659-1663.	0.8	26
16	Ultra-thin nanocrystalline diamond membranes as pressure sensors for harsh environments. Applied Physics Letters, 2014, 104, 073107.	1.5	26
17	Large improvement of phosphorus incorporation efficiency in n-type chemical vapor deposition of diamond. Applied Physics Letters, 2014, 105, .	1.5	23
18	Thick homoepitaxial (110)-oriented phosphorus-doped n-type diamond. Applied Physics Letters, 2016, 109, .	1.5	22

#	Article	IF	Citations
19	Hydrogen termination of CVD diamond films by high-temperature annealing at atmospheric pressure. Journal of Chemical Physics, 2013, 138, 234707.	1.2	21
20	Local bond length variations in boron-doped nanocrystalline diamond measured by spatially resolved electron energy-loss spectroscopy. Applied Physics Letters, 2013, 103, .	1.5	18
21	The pressure sensitivity of wrinkled B-doped nanocrystalline diamond membranes. Scientific Reports, 2016, 6, 35667.	1.6	18
22	Intrinsic granularity in nanocrystalline boron-doped diamond films measured by scanning tunneling microscopy. Physical Review B, 2009, 80, .	1.1	17
23	Electrochemical oxidation of sulphamerazine at boronâ€doped diamond electrodes: Influence of boron concentration. Physica Status Solidi (A) Applications and Materials Science, 2013, 210, 2040-2047.	0.8	16
24	Realâ€time study of protein adsorption on thin nanocrystalline diamond. Physica Status Solidi (A) Applications and Materials Science, 2011, 208, 2093-2098.	0.8	15
25	Analytical TEM study of CVD diamond growth on TiO2 solâ€“gel layers. Diamond and Related Materials, 2012, 23, 93-99.	1.8	15
26	Granular superconductivity in metallic and insulating nanocrystalline boron-doped diamond thin films. Journal Physics D: Applied Physics, 2010, 43, 374019.	1.3	14
27	Toward highly conductive n-type diamond: Incremental phosphorus-donor concentrations assisted by surface migration of admolecules. Applied Physics Letters, 2016, 109, .	1.5	13
28	Nanocrystalline diamond-glass platform for the development of three-dimensional micro- and nanodevices. Diamond and Related Materials, 2019, 98, 107511.	1.8	12
29	Negative magnetoresistance in boron-doped nanocrystalline diamond films. Journal of Applied Physics, 2009, 106, 033711.	1.1	11
30	Evidence for phase separation of ethanol-water mixtures at the hydrogen terminated nanocrystalline diamond surface. Journal of Chemical Physics, 2012, 137, 044702.	1.2	11
31	Elucidation of the Growth Mechanism of Sputtered 2D Hexagonal Boron Nitride Nanowalls. Crystal Growth and Design, 2016, 16, 3699-3708.	1.4	11
32	Organophosphonate Biofunctionalization of Diamond Electrodes. ACS Applied Materials & Interfaces, 2014, 6, 13909-13916.	4.0	10
33	Pick-up and drop transfer of diamond nanosheets. Nanotechnology, 2015, 26, 125706.	1.3	10
34	Evolution of nanodiamond seeds during the chemical vapor deposition of diamond on silicon substrates in oxygen-rich plasmas. Applied Surface Science, 2022, 581, 152103.	3.1	10
35	Magnetic field-driven superconductorâ€“insulator transition in boron-doped nanocrystalline chemical vapor deposition diamond. Journal of Applied Physics, 2010, 108, .	1.1	9
36	Large piezoresistive effect in surface conductive nanocrystalline diamond. Applied Physics Letters, 2014, 105, .	1.5	9

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37	Effect of a surface tension imbalance on a partly submerged cylinder. Journal of Fluid Mechanics, 2017, 830, 369-386.	1.4	8
38	Boundary curvature effect on the wrinkling of thin suspended films. Applied Physics Letters, 2020, 116, .	1.5	8
39	Boron doped nanocrystalline diamond temperature regulator for sensing applications. Physica Status Solidi (A) Applications and Materials Science, 2010, 207, 2110-2113.	0.8	7
40	Thin conductive diamond films as beam intensity monitors for soft x-ray beamlines. Review of Scientific Instruments, 2013, 84, 035105.	0.6	7
41	Contactless Photoconductance Study on Undoped and Doped Nanocrystalline Diamond Films. ACS Applied Materials & Interfaces, 2014, 6, 11368-11375.	4.0	5
42	Formation and morphology of closed and porous films grown from grains seeded on substrates: Two-dimensional simulations. Acta Materialia, 2022, 225, 117555.	3.8	5
43	In/extrinsic granularity in superconducting boron-doped diamond. Physica C: Superconductivity and Its Applications, 2010, 470, 853-856.	0.6	4
44	Monitoring of peptide induced disruption of artificial lipid membrane constructed on boronâ€doped nanocrystalline diamond by electrochemical impedance spectroscopy. Physica Status Solidi (A) Applications and Materials Science, 2011, 208, 2099-2103.	0.8	4
45	Current-induced nanogap formation and graphitization in boron-doped diamond films. Applied Physics Letters, 2012, 101, 193106.	1.5	4
46	Rapid fabrication of micronâ€sized CVDâ€diamond structures by microfluidic contact printing. Physica Status Solidi (A) Applications and Materials Science, 2014, 211, 1448-1454.	0.8	4
47	Block copolymerâ€“nanodiamond coassembly in solution: towards multifunctional hybrid materials. Nanoscale, 2021, 13, 1639-1651.	2.8	4
48	Electronic monitoring of chemical <scp>DNA</scp> denaturation on nanocrystalline diamond electrodes with different molarities and flow rates. Physica Status Solidi (A) Applications and Materials Science, 2013, 210, 911-917.	0.8	3
49	Optimization of a Boron Doped Nanocrystalline Diamond Temperature Regulator for Sensing Applications. Materials Research Society Symposia Proceedings, 2011, 1282, 123.	0.1	0