Bruno Dlubak

List of Publications by Year in Descending Order

46 papers	2,655 citations	23 h-index	51 g-index
54 ext. papers	3,030 ext. citations	9.4 avg, IF	4.47 L-index

#	Paper	IF	Citations
46	A ferromagnetic spin source grown by atomic layer deposition. *Applied Physics Letters*, **2022**, 120, 213503	3.4	1
45	Large-Scale-Compatible Stabilization of a 2D Semiconductor Platform toward Discrete Components. *Advanced Electronic Materials*, **2021**, 7, 2001109	6.4	
44	Band-Gap Landscape Engineering in Large-Scale 2D Semiconductor van der Waals Heterostructures. *ACS Nano*, **2021**, 15, 7279-7289	16.7	8
43	0D/2D Heterostructures Vertical Single Electron Transistor. *Advanced Functional Materials*, **2021**, 31, 2008255	15.6	5
42	Synthesis of emerging 2D layered magnetic materials. *Nanoscale*, **2021**, 13, 2157-2180	7.7	7
41	Spin filtering by proximity effects at hybridized interfaces in spin-valves with 2D graphene barriers. *Nature Communications*, **2020**, 11, 5670	17.4	17
40	Very Long Term Stabilization of a 2D Magnet down to the Monolayer for Device Integration. *ACS Applied Electronic Materials*, **2020**, 2, 3508-3514	4	6
39	A perpendicular graphene/ferromagnet electrode for spintronics. *Applied Physics Letters*, **2020**, 116, 173101	3.4	6
38	WS2 2D Semiconductor Down to Monolayers by Pulsed-Laser Deposition for Large-Scale Integration in Electronics and Spintronics Circuits. *ACS Applied Nano Materials*, **2020**, 3, 7908-7916	5.6	8
37	Long-Range Propagation and Interference of d-Wave Superconducting Pairs in Graphene. *Physical Review Letters*, **2020**, 125, 087002	7.4	3
36	Path to Overcome Material and Fundamental Obstacles in Spin Valves Based on MoS2 and Other Transition-Metal Dichalcogenides. *Physical Review Applied*, **2019**, 12,	4.3	9
35	Atomic layer deposition of a MgO barrier for a passivated black phosphorus spintronics platform. *Applied Physics Letters*, **2019**, 114, 053107	3.4	9
34	Band-Structure Spin-Filtering in Vertical Spin Valves Based on Chemical Vapor Deposited WS. *ACS Nano*, **2019**, 13, 14468-14476	16.7	28
33	Insulator-to-Metallic Spin-Filtering in 2D-Magnetic Tunnel Junctions Based on Hexagonal Boron Nitride. *ACS Nano*, **2018**, 12, 4712-4718	16.7	59
32	Tunable Klein-like tunnelling of high-temperature superconducting pairs into graphene. *Nature Physics*, **2018**, 14, 25-29	16.2	23
31	Anisotropic Magneto-Coulomb Properties of 2D-0D Heterostructure Single Electron Device. *Advanced Materials*, **2018**, 30, e1802478	24	13
30	A Local Study of the Transport Mechanisms in MoS Layers for Magnetic Tunnel Junctions. *ACS Applied Materials & Interfaces*, **2018**, 10, 30017-30021	9.5	8

29	2D-MTJs: introducing 2D materials in magnetic tunnel junctions. *Journal Physics D: Applied Physics*, **2017**, 50, 203002	3	57
28	Graphene nanoribbon based plasmonic Fresnel zone plate lenses. *RSC Advances*, **2017**, 7, 16594-16601	3.7	6
27	Wavelength-Selective Diffraction from Silica Thin-Film Gratings. *ACS Photonics*, **2017**, 4, 2402-2409	6.3	4
26	Stabilizing ultra-thin black phosphorus with in-situ-grown 1 nm-Al2O3 barrier. *Applied Physics Letters*, **2017**, 111, 243101	3.4	26
25	Spin Transport in Carbon Nanotubes and Graphene: Experiments and Theory **2016**, 681-706		1
24	Measuring the nonlinear refractive index of graphene using the optical Kerr effect method. *Optics Letters*, **2016**, 41, 3281-4	3	74
23	Magnetic tunnel junctions with monolayer hexagonal boron nitride tunnel barriers. *Applied Physics Letters*, **2016**, 108, 102404	3.4	95
22	Stabilizing a graphene platform toward discrete components. *Applied Physics Letters*, **2016**, 109, 253110	3.4	10
21	Thirty Gigahertz Optoelectronic Mixing in Chemical Vapor Deposited Graphene. *Nano Letters*, **2016**, 16, 2988-93	11.5	15
20	Graphene spintronics: the European Flagship perspective. *2D Materials*, **2015**, 2, 030202	5.9	198
19	Protecting nickel with graphene spin-filtering membranes: A single layer is enough. *Applied Physics Letters*, **2015**, 107, 012408	3.4	54
18	Graphene-Based Ultrathin Flat Lenses. *ACS Photonics*, **2015**, 2, 200-207	6.3	62
17	Spin Transport in Carbon Nanotubes and Graphene: Experiments and Theory **2015**, 1-21		
16	Interdependency of subsurface carbon distribution and graphene-catalyst interaction. *Journal of the American Chemical Society*, **2014**, 136, 13698-708	16.4	84
15	Sub-nanometer atomic layer deposition for spintronics in magnetic tunnel junctions based on graphene spin-filtering membranes. *ACS Nano*, **2014**, 8, 7890-5	16.7	96
14	Visible Diffraction from Graphene and Its Application in Holograms. *Advanced Optical Materials*, **2013**, 1, 869-874	8.1	15
13	Introducing carbon diffusion barriers for uniform, high-quality graphene growth from solid sources. *Nano Letters*, **2013**, 13, 4624-31	11.5	93
12	Graphene-passivated nickel as an oxidation-resistant electrode for spintronics. *ACS Nano*, **2012**, 6, 10930-4	16.7	120

11	Kinetic control of catalytic CVD for high-quality graphene at low temperatures. *ACS Nano*, **2012**, 6, 9996-10003	16.7	141
10	The Parameter Space of Graphene Chemical Vapor Deposition on Polycrystalline Cu. *Journal of Physical Chemistry C*, **2012**, 116, 22492-22501	3.8	137
9	Spintronics with graphene. *MRS Bulletin*, **2012**, 37, 1245-1254	3.2	95
8	Highly efficient spin transport in epitaxial graphene on SiC. *Nature Physics*, **2012**, 8, 557-561	16.2	338
7	Substrate-assisted nucleation of ultra-thin dielectric layers on graphene by atomic layer deposition. *Applied Physics Letters*, **2012**, 100, 173113	3.4	71
6	Homogeneous pinhole free 1 nm Al2O3 tunnel barriers on graphene. *Applied Physics Letters*, **2012**, 101, 203104	3.4	23
5	Solid-state memories based on ferroelectric tunnel junctions. *Nature Nanotechnology*, **2011**, 7, 101-4	28.7	434
4	Magnetoresistance in magnetic tunnel junctions grown on flexible organic substrates. *Applied Physics Letters*, **2010**, 96, 072502	3.4	95
3	Are Al2O3 and MgO tunnel barriers suitable for spin injection in graphene?. *Applied Physics Letters*, **2010**, 97, 092502	3.4	75
2	Analysis of basic processes inside the keyhole during deep penetration Nd-YAG cw laser welding **2006**,		10
1	Organic–Inorganic Hybrid Interfaces for Spin Injection into Carbon Nanotubes and Graphene. *Advanced Quantum Technologies*,2100166	4.3	