Pierre Seneor

List of Publications by Year
in descending order

44 papers	3,565 citations	218677 26 h-index	265206 42 g-index
44 all docs	44 docs citations	44 times ranked	4758 citing authors

#	Article	IF	Citations
1	Role of Metal-Oxide Interface in Determining the Spin Polarization of Magnetic Tunnel Junctions. Science, 1999, 286, 507-509.	12.6	566
2	Unravelling the role of the interface for spin injection into organic semiconductors. Nature Physics, 2010, 6, 615-620.	16.7	559
3	Highly efficient spin transport in epitaxial graphene on SiC. Nature Physics, 2012, 8, 557-561.	16.7	392
4	Graphene spintronics: the European Flagship perspective. 2D Materials, 2015, 2, 030202.	4.4	243
5	The Parameter Space of Graphene Chemical Vapor Deposition on Polycrystalline Cu. Journal of Physical Chemistry C, 2012, 116, 22492-22501.	3.1	155
6	Graphene-Passivated Nickel as an Oxidation-Resistant Electrode for Spintronics. ACS Nano, 2012, 6, 10930-10934.	14.6	138
7	The molecular way. Nature Materials, 2017, 16, 505-506.	27.5	116
8	Two-dimensional materials prospects for non-volatile spintronic memories. Nature, 2022, 606, 663-673.	27.8	116
9	Sub-nanometer Atomic Layer Deposition for Spintronics in Magnetic Tunnel Junctions Based on Graphene Spin-Filtering Membranes. ACS Nano, 2014, 8, 7890-7895.	14.6	109
10	Interdependency of Subsurface Carbon Distribution and Grapheneâ€“Catalyst Interaction. Journal of the American Chemical Society, 2014, 136, 13698-13708.	13.7	95
11	Measuring the nonlinear refractive index of graphene using the optical Kerr effect method. Optics Letters, 2016, 41, 3281.	3.3	92
12	Nanospintronics: when spintronics meets single electron physics. Journal of Physics Condensed Matter, 2007, 19, 165222.	1.8	88
13	Insulator-to-Metallic Spin-Filtering in 2D-Magnetic Tunnel Junctions Based on Hexagonal Boron Nitride. ACS Nano, 2018, 12, 4712-4718.	14.6	88
14	Spinterface: Crafting spintronics at the molecular scale. MRS Bulletin, 2014, 39, 602-607.	3.5	74
15	Anisotropic magneto-Coulomb effects and magnetic single-electron-transistor action in aÂsingle nanoparticle. Nature Physics, 2009, 5, 920-924.	16.7	69
16	2D-MTJs: introducing 2D materials in magnetic tunnel junctions. Journal Physics D: Applied Physics, 2017, 50, 203002.	2.8	68
17	Unidirectional Spin-Dependent Molecule-Ferromagnet Hybridized States Anisotropy in Cobalt Phthalocyanine Based Magnetic Tunnel Junctions. Physical Review Letters, 2015, 114, 206603.	7.8	53
18	Band-Structure Spin-Filtering in Vertical Spin Valves Based on Chemical Vapor Deposited WS₂. ACS Nano, 2019, 13, 14468-14476.	14.6	44

#	Article	IF	Citations
19	Molecular spintronics: the role of spin-dependent hybridization. Journal Physics D: Applied Physics, 2018, 51, 473001.	2.8	43
20	Engineering the magnetic coupling and anisotropy at the moleculeâ€“magnetic surface interface in molecular spintronic devices. Nature Communications, 2016, 7, 13646.	12.8	41
21	Tunable Klein-like tunnelling of high-temperature superconducting pairs into graphene. Nature Physics, 2018, 14, 25-29.	16.7	39
22	Unveiling Selfâ€Assembled Monolayers' Potential for Molecular Spintronics: Spin Transport at High Voltage. Advanced Materials, 2012, 24, 6429-6432.	21.0	37
23	Spin filtering by proximity effects at hybridized interfaces in spin-valves with 2D graphene barriers. Nature Communications, 2020, 11, 5670.	12.8	37
24	Effect of nanostructuration on the spin crossover transition in crystalline ultrathin films. Chemical Science, 2019, 10, 4038-4047.	7.4	36
25	Synthesis of emerging 2D layered magnetic materials. Nanoscale, 2021, 13, 2157-2180.	5.6	35
26	Self-Assembled Monolayer-Functionalized Half-Metallic Manganite for Molecular Spintronics. ACS Nano, 2012, 6, 8753-8757.	14.6	32
27	Band-Gap Landscape Engineering in Large-Scale 2D Semiconductor van der Waals Heterostructures. ACS Nano, 2021, 15, 7279-7289.	14.6	28
28	Thirty Gigahertz Optoelectronic Mixing in Chemical Vapor Deposited Graphene. Nano Letters, 2016, 16, 2988-2993.	9.1	26
29	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.	5.0	24
30	Anisotropic Magnetoâ€Coulomb Properties of 2Dâ€“0D Heterostructure Single Electron Device. Advanced Materials, 2018, 30, e1802478.	21.0	17
31	Stabilizing a graphene platform toward discrete components. Applied Physics Letters, 2016, 109, 253110.	3.3	16
32	Path to Overcome Material and Fundamental Obstacles in Spin Valves Based on MoS2 and Other Transition-Metal Dichalcogenides. Physical Review Applied, 2019, 12, .	3.8	13
33	Very Long Term Stabilization of a 2D Magnet down to the Monolayer for Device Integration. ACS Applied Electronic Materials, 2020, 2, 3508-3514.	4.3	11
34	Is spin transport through molecules really occurring in organic spin valves? A combined magnetoresistance and inelastic electron tunnelling spectroscopy study. Applied Physics Letters, 2015, 106, 082408.	3.3	10
35	Unveiling a Chemisorbed Crystallographically Heterogeneous Graphene/<i>L</i>1₀-FePd Interface with a Robust and Perpendicular Orbital Moment. ACS Nano, 2022, 16, 4139-4151.	14.6	10
36	Recovering ferromagnetic metal surfaces to fully exploit chemistry in molecular spintronics. AIP Advances, 2015, 5, .	1.3	9

#	Article	IF	Citations
37	A Local Study of the Transport Mechanisms in MoS₂ Layers for Magnetic Tunnel Junctions. ACS Applied Materials & Interfaces, 2018, 10, 30017-30021.	8.0	8
38	Superconducting Proximity Effect in <i>d</i>â€Wave Cuprate/Graphene Heterostructures. Annalen Der Physik, 2022, 534, .	2.4	8
39	The 2007 Nobel Prize in Physics: Albert Fert and Peter GrÃ¼nberg. , 2009, , 147-157.		6
40	Spontaneous growth of 2D coordination polymers on functionalized ferromagnetic surfaces. Chemical Science, 2018, 9, 8819-8828.	7.4	6
41	Self-assembled monolayers based spintronics: from ferromagnetic surface functionalization to spin-dependent transport. Journal of Physics Condensed Matter, 2016, 28, 094010.	1.8	4
42	Spin-Dependent Hybridization Phenomena in Organic and Molecular Spintronics Devices. Materials and Energy, 2018, , 63-92.	0.1	3
43	Organicâ€"Inorganic Hybrid Interfaces for Spin Injection into Carbon Nanotubes and Graphene. Advanced Quantum Technologies, 2022, 5, .	3.9	1
44	Spin transport in graphene: Fundamental concepts and practical implications. , 2012, , .		0