

Sylvain Dubois

List of Publications by Year in descending order

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79
papers

3,167
citations

126708

33
h-index

155451

55
g-index

80
all docs

80
docs citations

80
times ranked

2447
citing authors

#	ARTICLE	IF	CITATIONS
1	Magnetization processes in nickel and cobalt electrodeposited nanowires. <i>Physical Review B</i> , 1997, 56, 14066-14075.	1.1	320
2	Magnetic anisotropy and domain patterns in electrodeposited cobalt nanowires. <i>European Physical Journal B</i> , 2001, 20, 35-54.	0.6	177
3	Evidence for a short spin diffusion length in permalloy from the giant magnetoresistance of multilayered nanowires. <i>Physical Review B</i> , 1999, 60, 477-484.	1.1	163
4	Perpendicular giant magnetoresistance of NiFe/Cu multilayered nanowires. <i>Applied Physics Letters</i> , 1997, 70, 396-398.	1.5	120
5	The temperature dependence of the perpendicular giant magnetoresistance in Co/Cu multilayered nanowires. <i>European Physical Journal B</i> , 1998, 4, 413-420.	0.6	114
6	Study of the magnetization reversal in individual nickel nanowires. <i>Journal of Applied Physics</i> , 2000, 87, 824-829.	1.1	109
7	Magnetization reversal in cobalt and nickel electrodeposited nanowires. <i>Journal of Applied Physics</i> , 1997, 81, 5455-5457.	1.1	90
8	Perpendicular giant magnetoresistance in magnetic multilayered nanowires. <i>Journal of Magnetism and Magnetic Materials</i> , 1996, 159, L287-L292.	1.0	80
9	A New Ternary Nanolaminate Carbide: Ti ₃ SnC ₂ . <i>Journal of the American Ceramic Society</i> , 2007, 90, 2642-2644.	1.9	76
10	Microstructure of magnetic metallic superlattices grown by electrodeposition in membrane nanopores. <i>Journal of Magnetism and Magnetic Materials</i> , 1998, 184, 1-18.	1.0	73
11	Anisotropic transport and magnetic properties of arrays of sub-micron wires. <i>Journal of Magnetism and Magnetic Materials</i> , 1997, 165, 352-355.	1.0	72
12	Microstructural characterization and compression properties of Ti ₃ AlC ₂ /Cu(Al) composite synthesized from Cu and Ti ₃ AlC ₂ powders. <i>Journal of Alloys and Compounds</i> , 2014, 602, 53-57.	2.8	71
13	Template synthesis of nanoscale materials using the membrane porosity. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1997, 131, 357-363.	0.6	70
14	Powder metallurgy processing and compressive properties of Ti ₃ AlC ₂ /Al composites. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011, 530, 168-173.	2.6	68
15	Fabrication and properties of arrays of superconducting nanowires. <i>Journal of Materials Research</i> , 1999, 14, 665-671.	1.2	64
16	Fabrication and properties of organic and metal nanocylinders in nanoporous membranes. <i>Journal of Materials Research</i> , 1999, 14, 3042-3050.	1.2	64
17	Synthesis, Characterization, and Intrinsic Hardness of Layered Nanolaminate Ti ₃ AlC ₂ and Ti ₃ Al _{0.8} Sn _{0.2} C ₂ Solid Solution. <i>Journal of the American Ceramic Society</i> , 2012, 95, 102-107.	1.9	62
18	Perpendicular magnetoresistance in Co/Cu multilayered nanowires. <i>Journal of Magnetism and Magnetic Materials</i> , 1996, 156, 317-320.	1.0	61

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19	Observing magnetic nanowires by means of magnetic force microscopy. Journal of Magnetism and Magnetic Materials, 1998, 190, 1-16.	1.0	60
20	Perpendicular giant magnetoresistance of NiFe/Cu and Co/Cu multilayered nanowires. Journal of Magnetism and Magnetic Materials, 1997, 165, 30-33.	1.0	59
21	Synthesis, Microstructure, and Mechanical Properties of $Ti_3Sn(1-x)Al_xC_2$ MAX Phase Solid Solutions. International Journal of Applied Ceramic Technology, 2010, 7, 719-729.	1.1	59
22	Epitaxial growth and electrical transport properties of Cr GeC thin films. Physical Review B, 2011, 84, .	1.1	56
23	Solid solution effects in the $Ti_2Al(C,N)$ MAX phases: Synthesis, microstructure, electronic structure and transport properties. Acta Materialia, 2014, 80, 421-434.	3.8	51
24	Deformation mechanisms during high temperature tensile creep of Ti_3AlC_2 MAX phase. Journal of Alloys and Compounds, 2017, 693, 622-630.	2.8	50
25	Superconducting properties of lead nanowires arrays. Physica C: Superconductivity and Its Applications, 2002, 377, 267-276.	0.6	48
26	Evidence for strong magnetoelastic effects in Ni nanowires embedded in polycarbonate membranes. Physical Review B, 2000, 61, 14315-14318.	1.1	47
27	Arrays of nanowires of magnetic metals and multilayers: Perpendicular GMR and magnetic properties. Journal of Magnetism and Magnetic Materials, 1997, 175, 127-136.	1.0	45
28	Self-Propagating High-Temperature Synthesis of Ti_3SiC_2 : Study of the Reaction Mechanisms by Time-Resolved X-Ray Diffraction and Infrared Thermography. Journal of the American Ceramic Society, 2006, 89, 2899-2907.	1.9	44
29	Crystal growth of TiC grains during SHS reactions. Journal of Crystal Growth, 2007, 304, 481-486.	0.7	43
30	Hot isostatic pressing synthesis and mechanical properties of Al/Al-Cu-Fe composite materials. Journal of Materials Research, 2008, 23, 904-910.	1.2	39
31	Anisotropy of the resistivity and charge-carrier sign in nanolaminated Ti_3AlC_2 : Experiment and <i>ab initio</i> calculations. Physical Review B, 2013, 87, .	1.1	38
32	Microstructure-oxidation resistance relationship in Ti_3AlC_2 MAX phase. Journal of Alloys and Compounds, 2020, 826, 154062.	2.8	36
33	Electrodeposition of patterned magnetic nanostructures. Journal of Applied Physics, 1998, 84, 6359-6365.	1.1	34
34	Reaction synthesis of layered ternary Ti_2AlC ceramic. Journal of the European Ceramic Society, 2009, 29, 187-194.	2.8	34
35	Oxidation mechanisms in bulk Ti_2AlC : Influence of the grain size. Journal of the European Ceramic Society, 2020, 40, 1820-1828.	2.8	32
36	TiC nucleation/growth processes during SHS reactions. Powder Technology, 2005, 157, 92-99.	2.1	31

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37	Iron Particles Coated with Alumina: Synthesis by a Mechanofusion Process and Study of the High-Temperature Oxidation Resistance. <i>Journal of the American Ceramic Society</i> , 2006, 89, 3522-3528.	1.9	31
38	Slip line analysis around nanoindentation imprints in Ti_3SnC_2 : a new insight into plasticity of MAX-phase materials. <i>Philosophical Magazine</i> , 2011, 91, 1265-1275.	0.7	29
39	Compressive Behavior of Ti_3AlC_2 and $Ti_3Al_{0.8}Sn_{0.2}C_2$ MAX Phases at Room Temperature. <i>Journal of the American Ceramic Society</i> , 2013, 96, 567-576.	1.9	27
40	Microstructural and mechanical study of an Al matrix composite reinforced by Al-Cu-Fe icosahedral particles. <i>Journal of Materials Research</i> , 2010, 25, 957-965.	1.2	26
41	Oxidation resistance of Ti_3AlC_2 and $Ti_3Al_{0.8}Sn_{0.2}C_2$ MAX phases: A comparison. <i>Journal of the American Ceramic Society</i> , 2020, 103, 1270-1280.	1.9	26
42	Evidence for Symmetry Reduction in $Ti_3(Al_{1-x}Cu_x)C_2$ MAX Phase Solid Solutions. <i>Inorganic Chemistry</i> , 2017, 56, 14388-14395.	1.9	24
43	Mechanical properties of Al-Cu-Fe quasicrystalline and crystalline phases: An analogy. <i>Intermetallics</i> , 2014, 50, 54-58.	1.8	23
44	Physical properties of magnetic metallic nanowires and conjugated polymer nanowires and nanotubes. <i>International Journal of Nanotechnology</i> , 2008, 5, 838.	0.1	21
45	Synthesis and Microstructural Characterization of Substoichiometric $Ti_2Al(C_xN_y)$ Solid Solutions and Related Ti_2AlC_x and Ti_2AlN Endmembers. <i>Journal of the American Ceramic Society</i> , 2014, 97, 2308-2313.	1.9	21
46	Preparation and characterization of electrodeposited Fe and Fe/Cu nanowires. <i>Journal De Chimie Physique Et De Physico-Chimie Biologique</i> , 1999, 96, 1316-1331.	0.2	21
47	Mechanical Properties of Nanolaminate Ti_3SnC_2 Carbide Determined by Nanohardness Cartography. <i>Journal of the American Ceramic Society</i> , 2010, 93, 330-333.	1.9	20
48	Pressure-enforced plasticity in MAX phases: from single grain to polycrystal investigation. <i>Philosophical Magazine</i> , 2013, 93, 1784-1801.	0.7	19
49	Mechanical properties of Al-Cu-Fe composites synthesized by the SPS technique. <i>Materials Characterization</i> , 2018, 145, 644-652.	1.9	16
50	High-Temperature Neutron Diffraction, Raman Spectroscopy, and First-Principles Calculations of Ti_3SnC_2 and Ti_2SnC . <i>Journal of the American Ceramic Society</i> , 2016, 99, 2233-2242.	1.9	15
51	Al-coated iron particles: Synthesis, characterization and improvement of oxidation resistance. <i>Surface and Coatings Technology</i> , 2008, 202, 4302-4306.	2.2	14
52	A High-Temperature Neutron Diffraction and First-Principles Study of Ti_3AlC_2 and $Ti_3Al_{0.8}Sn_{0.2}C_2$. <i>Journal of the American Ceramic Society</i> , 2014, 97, 570-576.	1.9	14
53	Synthesis and brittle-to-ductile transition of the Al _{0.7} Cu _{0.2} Fe _{0.1} tetragonal phase. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2010, 527, 4515-4518.	2.6	13
54	Irreversibility line of YBaCuO sintered ceramics, YBaCuO single crystal and superconducting composites studied by AC susceptibility and transport measurements. <i>Physica C: Superconductivity and Its Applications</i> , 1996, 260, 19-24.	0.6	12

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55	Al-matrix composite materials reinforced by Al-Cu-Fe particles. Journal of Physics: Conference Series, 2010, 240, 012013.	0.3	12
56	Formation Mechanisms of Ti ₃ SnC ₂ Nanolaminate Carbide Using Fe as Additive. Journal of the American Ceramic Society, 2013, 96, 3239-3242.	1.9	12
57	Key role of electron-phonon interactions in the electronic conductivity of Ti ₃ SnC ₂ nanolaminated carbide: Experiment and <i>ab initio</i> calculations. Physical Review B, 2016, 93, .	1.1	11
58	Weak link effects on the electrical properties of YBaCuO-CuO random composites. Physica A: Statistical Mechanics and Its Applications, 1994, 207, 265-270.	1.2	9
59	SHS reactions in the NiO-Al system: Influence of stoichiometry. International Journal of Self-Propagating High-Temperature Synthesis, 2007, 16, 62-69.	0.2	8
60	Spark plasma sintering synthesis and mechanical spectroscopy of the Ti _{0.7} Al _{0.7} Cu _{0.2} Fe _{0.1} phase. Journal of Materials Science, 2012, 47, 169-175.	1.7	8
61	The correlation between N deficiency and the mechanical properties of the Ti ₂ AlN _y MAX phase. Journal of the European Ceramic Society, 2020, 40, 2279-2286.	2.8	7
62	Weak links effect in 123/Cu and 123/CuO composites. Solid State Communications, 1993, 87, 295-298.	0.9	6
63	Title is missing!. Journal of Materials Synthesis and Processing, 2001, 9, 253-257.	0.3	6
64	Plasticity of the Ti _{0.7} Al ₇ Cu ₂ Fe phase. Journal of Alloys and Compounds, 2016, 665, 144-151.	2.8	6
65	Formation processes of the Ti _{0.7} Al ₇ Cu ₂ Fe ₁₀ phase synthesized by SPS technique. Journal of Alloys and Compounds, 2017, 699, 1157-1165.	2.8	6
66	Evidence for eddy currents and skin effect in 123 / Ag random composites. Physica C: Superconductivity and Its Applications, 1993, 216, 111-115.	0.6	5
67	Screening properties of superconducting random composites. Physica C: Superconductivity and Its Applications, 1995, 245, 261-269.	0.6	5
68	Main recent contributions to SHS from France. International Journal of Self-Propagating High-Temperature Synthesis, 2007, 16, 235-255.	0.2	5
69	Effect of lamellar microstructure on oxidation kinetics of Fe ₃ Al sintered by hot isostatic pressing. Corrosion Science, 2008, 50, 1693-1700.	3.0	5
70	Titanium Carbide Self-Propagating High-Temperature Synthesis in a Non-centered Copper Tube. Journal of Materials Synthesis and Processing, 2002, 10, 183-189.	0.3	3
71	Synthesis of submicrocrystalline TiC _x Al ₂ O ₃ composites by mechanically-activated pressure-assisted self-propagating high-temperature synthesis technique. Journal of Materials Research, 2007, 22, 2700-2710.	1.2	3
72	Title is missing!. Journal of Materials Synthesis and Processing, 2002, 10, 277-282.	0.3	2

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73	In situ measurement of high-temperature thermal diffusivity in a combustion-synthesized ceramic. European Physical Journal B, 2003, 33, 31-39.	0.6	2
74	Synthesis of TiC/Ni Cermets via Mechanically Activated Self-Propagating High-Temperature Synthesis. Materials Science Forum, 2003, 426-432, 2033-2038.	0.3	2
75	Ni-Coated SiC Particles: Synthesis and Densification. Journal of the American Ceramic Society, 2015, 98, 4058-4065.	1.9	1
76	Irreversibility line determination from resistivity and a.c. susceptibility measurements. Physica C: Superconductivity and Its Applications, 1994, 235-240, 2779-2780.	0.6	0
77	Rate of creation of the contacts between grains in a loose array of particles submitted to an uniaxial pressure. European Physical Journal B, 2001, 21, 507-510.	0.6	0
78	Recent Developments in Self-Propagating High-Temperature Synthesis of TiC. ChemInform, 2005, 36, no.	0.1	0
79	Electrical and thermal transport properties of YBaCuO/Ag.random composites. European Physical Journal Special Topics, 1998, 08, Pr1-27-Pr1-34.	0.2	0