

Arnaud Magrez

List of Publications by Year in descending order

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128
papers

5,549
citations

87723

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85405

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133
all docs

133
docs citations

133
times ranked

9821
citing authors

#	ARTICLE	IF	CITATIONS
1	Direct Visualisation of Skyrmion Lattice Defect Alignment at Grain Boundaries. Nanoscale Research Letters, 2022, 17, 20.	3.1	1
2	Tuning Topological Spin Textures in Size-Tailored Chiral Magnet Insulator Particles. Journal of Physical Chemistry C, 2022, 126, 11855-11866.	1.5	1
3	Ba ₅ (IO ₆) ₂ : crystal structure evolution from room temperature to 80â€¦K. Acta Crystallographica Section E: Crystallographic Communications, 2021, 77, 634-637.	0.2	0
4	Ferrimagnetic 120° magnetic structure in Cu ₂ O. Physical Review B, 2020, 102, .	1.1	1
5	Ca ₃ Co ₂ O ₆ . Physical Review B, 2020, 102, .	1.1	3
6	Melting of a skyrmion lattice to a skyrmion liquid via a hexatic phase. Nature Nanotechnology, 2020, 15, 761-767.	15.6	63
7	Effects of composition and pressure on electronic states of iron in bridgmanite. American Mineralogist, 2020, 105, 1030-1039.	0.9	7
8	Large magnetothermopower and anomalous Nernst effect in HfTe ₅ . Physical Review B, 2019, 100, .	1.1	16
9	Chemical exchange at the ferroelectric phase transition of lead germanate revealed by solid state ²⁰⁷ Pb nuclear magnetic resonance. Physical Chemistry Chemical Physics, 2019, 21, 1100-1109.	1.3	11
10	Electrical transport in onion-like carbon-PMMA nanocomposites. Applied Physics Letters, 2019, 114, .	1.5	5
11	New refinement of the crystal structure of Zn(NH ₃) ₂ Cl ₂ at 100â€¦K. Acta Crystallographica Section E: Crystallographic Communications, 2019, 75, 1386-1388.	0.2	3
12	Dirac nodal lines and flat-band surface state in the functional oxide RuO ₂ . Physical Review B, 2018, 98, .	2.9	21
13	Iron-Rich Natural Mineral Gibeon Meteorite Catalyzed N-Formylation of Amines using CO ₂ as the C1 Source. ChemistrySelect, 2018, 3, 10271-10276.	0.7	17
14	Spin-Resolved Electronic Response to the Phase Transition in MoTe ₂ . Physical Review Letters, 2018, 121, 156401.	2.9	21
15	In Situ Electric Field Skyrmion Creation in Magnetoelectric Cu ₂ OSeO ₃ . Nano Letters, 2018, 18, 5167-5171.	4.5	43
16	Investigating Skyrmions Using Lorentz Transmission Electron Microscopy. Microscopy and Microanalysis, 2018, 24, 932-933.	0.2	1
17	Singlet state formation and its impact on the magnetic structure in the tetramer system SeCuO ₃ . Physical Review B, 2018, 98, .	1.1	5
18	Time-resolved ARPES at LACUS: Band Structure and Ultrafast Electron Dynamics of Solids. Chimia, 2017, 71, 273.	0.3	9

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19	Morphology Engineering: A Route to Highly Reproducible and High Efficiency Perovskite Solar Cells. ChemSusChem, 2017, 10, 1624-1630.	3.6	46
20	Van der Waals MoS ₂ /VO ₂ heterostructure junction with tunable rectifier behavior and efficient photoresponse. Scientific Reports, 2017, 7, 14250.	1.6	37
21	Role of the particle size polydispersity in the electrical conductivity of carbon nanotube-epoxy composites. Scientific Reports, 2017, 7, 12553.	1.6	24
22	Elevated transition temperature in Ge doped VO ₂ thin films. Journal of Applied Physics, 2017, 122, .	1.1	59
23	Cyan titania nanowires: Spectroscopic study of the origin of the self-doping enhanced photocatalytic activity. Catalysis Today, 2017, 284, 52-58.	2.2	10
24	FeOx magnetization enhancing E. coli inactivation by orders of magnitude on Ag-TiO ₂ nanotubes under sunlight. Applied Catalysis B: Environmental, 2017, 202, 438-445.	10.8	57
25	MnO nanoparticles as the cause of ferromagnetism in bulk dilute Mn-doped ZnO. Applied Physics Letters, 2016, 109, 252405.	1.5	2
26	A Gibeon meteorite yields a high-performance water oxidation electrocatalyst. Energy and Environmental Science, 2016, 9, 3448-3455.	15.6	35
27	Probing the coupling between a doublon excitation and the charge-density wave in TaS_2 by ultrafast optical spectroscopy. Physical Review B, 2016, 94, .		
28	Reflection amplifier based on graphene. , 2016, , .		0
29	Reflection amplifier based on graphene. , 2016, , .		1
30	Sub-terahertz spectroscopy of magnetic resonance in BiFeO ₃ using a vector network analyzer. Applied Physics Letters, 2016, 108, .	1.5	20
31	Influence of TiO ₂ phase composition on the photocatalytic activity of TiO ₂ /MWCNT composites prepared by combined sol-gel/hydrothermal method. Journal of Molecular Catalysis A, 2016, 414, 140-147.	4.8	31
32	Single potassium niobate nano/microsized particles as local mechano-optical Brownian probes. Nanoscale, 2016, 8, 6810-6819.	2.8	7
33	Equilibrium concentration of singlet oxygen in photoreaction of reaction center/carbon nanotube bionanocomposites. Physica Status Solidi (B): Basic Research, 2015, 252, 2479-2484.	0.7	3
34	Microengineered CH ₃ NH ₃ PbI ₃ Nanowire/Graphene Phototransistor for Low-Intensity Light Detection at Room Temperature. Small, 2015, 11, 4824-4828.	5.2	151
35	Filming the formation and fluctuation of skyrmion domains by cryo-Lorentz transmission electron microscopy. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 14212-14217.	3.3	68
36	Anti-Stokes Raman spectroscopy as a method to identify metallic and mixed metallic/semiconducting configurations of multi-walled carbon nanotubes. Analytical Methods, 2015, 7, 6225-6230.	1.3	5

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37	Room-Temperature Negative Differential Resistance in Graphene Field Effect Transistors: Experiments and Theory. ACS Nano, 2015, 9, 620-625.	7.3	54
38	The Role of Transport Agents in MoS ₂ Single Crystals. Journal of Physical Chemistry C, 2015, 119, 3918-3922.	1.5	44
39	Preparation of titania covered multi-walled carbon nanotube thin films. Materials and Design, 2015, 86, 198-203.	3.3	9
40	Graphene Negative Differential Resistance Circuit With Voltage-Tunable High Performance at Room Temperature. IEEE Electron Device Letters, 2015, 36, 865-867.	2.2	15
41	Crystal Structure, Transport, and Magnetic Properties of an Ir ⁶⁺ Compound Ba ₈ Al ₂ IrO ₁₄ . Inorganic Chemistry, 2015, 54, 4371-4376.	1.9	8
42	Direct growth of carbon nanotubes on carbon fibers: Effect of the CVD parameters on the degradation of mechanical properties of carbon fibers. Diamond and Related Materials, 2015, 51, 39-48.	1.8	141
43	Photochemical processes developed in composite based on highly separated metallic and semiconducting SWCNTs functionalized with polydiphenylamine. Carbon, 2015, 81, 426-438.	5.4	7
44	The effect of titania precursor on the morphology of prepared TiO ₂ /MWCNT nanocomposite materials. Physica Status Solidi (B): Basic Research, 2014, 251, 2384-2388.	0.7	5
45	Direct and selective synthesis of a wide range of carbon nanomaterials by CVD at CMOS compatible temperatures. , 2014, , .		0
46	Dispersion Characteristics and Aggregation in Titanate Nanowire Colloids. ChemPlusChem, 2014, 79, 592-600.	1.3	15
47	Chemical challenges during the synthesis of MWCNT-based inorganic nanocomposite materials. Physica Status Solidi (B): Basic Research, 2014, 251, 2360-2365.	0.7	6
48	Enhanced low-temperature thermoelectrical properties of BiTeCl grown by topotactic method. Scripta Materialia, 2014, 76, 69-72.	2.6	30
49	Functionalized graphene grown by oxidative dehydrogenation chemistry. Carbon, 2014, 71, 11-19.	5.4	7
50	Probing titanate nanowire surface acidity through methylene blue adsorption in colloidal suspension and on thin films. Journal of Colloid and Interface Science, 2014, 416, 190-197.	5.0	27
51	Nanopore Integrated Nanogaps for DNA Detection. Nano Letters, 2014, 14, 244-249.	4.5	63
52	Sorption kinetics and equilibrium of the herbicide diuron to carbon nanotubes or soot in absence and presence of algae. Environmental Pollution, 2014, 192, 147-153.	3.7	18
53	Optical properties of BiTeBr and BiTeCl. Physical Review B, 2014, 90, .	1.1	31
54	High-Performance Multipanel Biosensors Based on a Selective Integration of Nanographite Petals. Nano Letters, 2014, 14, 3180-3184.	4.5	17

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55	Efficient voltammetric discrimination of free bilirubin from uric acid and ascorbic acid by a CVD nanographite-based microelectrode. <i>Talanta</i> , 2014, 130, 423-426.	2.9	22
56	Electrical conduction of photo-patternable SU8-graphene composites. <i>Carbon</i> , 2014, 80, 364-372.	5.4	16
57	Thermal diffusivity measurements of templated nanocomposite using infrared thermography. <i>Materials Letters</i> , 2014, 115, 106-108.	1.3	15
58	Photosynthetic reaction centre/carbon nanotube bundle composites. <i>Physica Status Solidi (B): Basic Research</i> , 2014, 251, 2366-2371.	0.7	4
59	Evaluation of the toxicity of graphene derivatives on cells of the lung luminal surface. <i>Carbon</i> , 2013, 64, 45-60.	5.4	94
60	Electrical conductivity of multi-walled carbon nanotubes-SU8 epoxy composites. <i>Applied Physics Letters</i> , 2013, 102, .	1.5	39
61	Carbon nanotubes quench singlet oxygen generated by photosynthetic reaction centers. <i>Physica Status Solidi (B): Basic Research</i> , 2013, 250, 2539-2543.	0.7	11
62	Synthesis of Homogeneous Manganese-Doped Titanium Oxide Nanotubes from Titanate Precursors. <i>Journal of Physical Chemistry C</i> , 2013, 117, 697-702.	1.5	36
63	Direct growth of nanotubes and graphene nanoflowers on electrochemical platinum electrodes. <i>Nanoscale</i> , 2013, 5, 12448.	2.8	10
64	Reinforcement of CVD grown multi-walled carbon nanotubes by high temperature annealing. <i>AIP Advances</i> , 2013, 3, .	0.6	22
65	Sensing hydrogen peroxide by carbon nanotube/horseradish peroxidase bio-nanocomposite. <i>Physica Status Solidi (B): Basic Research</i> , 2013, 250, 2559-2563.	0.7	14
66	Diuron Sorbed to Carbon Nanotubes Exhibits Enhanced Toxicity to <i>Chlorella vulgaris</i> . <i>Environmental Science & Technology</i> , 2013, 47, 7012-7019.	4.6	106
67	Electrical property measurements of Cr-N codoped TiO ₂ epitaxial thin films grown by pulsed laser deposition. <i>Applied Physics Letters</i> , 2013, 102, .	1.5	11
68	Preparation and characterization of multiwalled carbon nanotube/In ₂ O ₃ composites. <i>Carbon</i> , 2013, 60, 266-272.	5.4	23
69	Tunable Polaronic Conduction in Anatase TiO_2 . <i>Physical Review Letters</i> , 2013, 110, 196403.	2.9	237
70	Tuning the length dispersion of multi-walled carbon nanotubes by ball milling. <i>AIP Advances</i> , 2013, 3, .	0.6	13
71	Photocatalytic and phototoxic properties of TiO ₂ -based nanofilaments: ESR and AFM assays. <i>Nanotoxicology</i> , 2012, 6, 813-824.	1.6	13
72	Manufacturing and investigations of i-butane sensor made of SnO ₂ /multiwall-carbon-nanotube nanocomposite. <i>Sensors and Actuators B: Chemical</i> , 2012, 173, 890-896.	4.0	23

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73	Charge stabilization by reaction center protein immobilized to carbon nanotubes functionalized by amine groups and poly(3-thiophene acetic acid) conducting polymer. <i>Physica Status Solidi (B): Basic Research</i> , 2012, 249, 2386-2389.	0.7	7
74	Growth of carbon nanotubes on carbon fibers without strength degradation. <i>Physica Status Solidi (B): Basic Research</i> , 2012, 249, 2420-2423.	0.7	24
75	Dye metachromasy on titanate nanowires: sensing humidity with reversible molecular dimerization. <i>Journal of Materials Chemistry</i> , 2012, 22, 8778.	6.7	30
76	Magnetism in nanoscale graphite flakes as seen via electron spin resonance. <i>Physical Review B</i> , 2012, 85, .	1.1	13
77	Carbon nanotubes/SU8 composite for flexible conductive inkjet printable applications. <i>Journal of Materials Chemistry</i> , 2012, 22, 14030.	6.7	29
78	Long-term colloidal stability of 10 carbon nanotube types in the absence/presence of humic acid and calcium. <i>Environmental Pollution</i> , 2012, 169, 64-73.	3.7	42
79	Are Carbon Nanotube Effects on Green Algae Caused by Shading and Agglomeration?. <i>Environmental Science & Technology</i> , 2011, 45, 6136-6144.	4.6	273
80	Striking Influence of the Catalyst Support and Its Acid-Base Properties: New Insight into the Growth Mechanism of Carbon Nanotubes. <i>ACS Nano</i> , 2011, 5, 3428-3437.	7.3	54
81	<i>In Vitro</i> Investigation of the Cellular Toxicity of Boron Nitride Nanotubes. <i>ACS Nano</i> , 2011, 5, 3800-3810.	7.3	184
82	Fabrication of homogeneous titania/MWNT composite materials. <i>Materials Research Bulletin</i> , 2011, 46, 1991-1996.	2.7	5
83	Influence of the initial state of carbon nanotubes on their colloidal stability under natural conditions. <i>Environmental Pollution</i> , 2011, 159, 1641-1648.	3.7	48
84	Photosynthetic reaction center protein in nanostructures. <i>Physica Status Solidi (B): Basic Research</i> , 2011, 248, 2700-2703.	0.7	22
85	Long term stabilization of reaction center protein photochemistry by carbon nanotubes. <i>Physica Status Solidi (B): Basic Research</i> , 2011, 248, 2454-2457.	0.7	11
86	Photocatalytic activity of TiO ₂ /SWCNT and TiO ₂ /MWCNT nanocomposites with different carbon nanotube content. <i>Physica Status Solidi (B): Basic Research</i> , 2011, 248, 2496-2499.	0.7	27
87	Synthesis, electrical resistivity, thermo-electric power and magnetization of cubic ZnMnO ₃ . <i>Solid State Communications</i> , 2011, 151, 487-490.	0.9	20
88	Toxicity Study of Nanofibers. , 2011, , 133-149.		3
89	Doping dependence of the G-band Raman spectra of an individual multiwall carbon nanotube. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2010, 42, 2466-2470.	1.3	10
90	Management of nanomaterials safety in research environment. <i>Particle and Fibre Toxicology</i> , 2010, 7, 40.	2.8	77

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91	Cell type dependence of carbon based nanomaterial toxicity. Physica Status Solidi (B): Basic Research, 2010, 247, 3059-3062.	0.7	7
92	Study of the mechanical response of carbon nanotubes/SU8 composites by nanoindentation. Physica Status Solidi (B): Basic Research, 2010, 247, 3072-3075.	0.7	16
93	Size dependence of the magnetic response of graphite oxide and graphene flakes – an electron spin resonance study. Physica Status Solidi (B): Basic Research, 2010, 247, 2958-2961.	0.7	35
94	High-Pressure Study of Anatase TiO ₂ . Materials, 2010, 3, 1509-1514.	1.3	15
95	Capacitive nanoelectromechanical switch based on suspended carbon nanotube array. Applied Physics Letters, 2010, 97, .	1.5	32
96	Reinforcing multiwall carbon nanotubes by electron beam irradiation. Journal of Applied Physics, 2010, 108, 084314.	1.1	16
97	Catalytic CVD Synthesis of Carbon Nanotubes: Towards High Yield and Low Temperature Growth. Materials, 2010, 3, 4871-4891.	1.3	130
98	Low-Temperature, Highly Efficient Growth of Carbon Nanotubes on Functional Materials by an Oxidative Dehydrogenation Reaction. ACS Nano, 2010, 4, 3702-3708.	7.3	59
99	Synthesis of Nanosized Mn-Doped ZnO by Low Temperature Decomposition of Hydrozincite Precursors. Crystal Growth and Design, 2010, 10, 4437-4441.	1.4	15
100	High-Efficiency Solid-State Dye-Sensitized Solar Cells: Fast Charge Extraction through Self-Assembled 3D Fibrous Network of Crystalline TiO ₂ Nanowires. ACS Nano, 2010, 4, 7644-7650.	7.3	105
101	Controlled Positioning of Carbon Nanotubes by Dielectrophoresis: Insights into the Solvent and Substrate Role. ACS Nano, 2010, 4, 279-284.	7.3	85
102	Optically Generated Electric Fields by Lithium Niobate Nanowires. , 2010, , .		0
103	Lithium niobate nanowires synthesis, optical properties, and manipulation. Applied Physics Letters, 2009, 95, 143105.	1.5	82
104	Preparation and characterization of SU8-carbon nanotube composites. Physica Status Solidi (B): Basic Research, 2009, 246, 2461-2464.	0.7	11
105	Towards electron spin resonance of mechanically exfoliated graphene. Physica Status Solidi (B): Basic Research, 2009, 246, 2558-2561.	0.7	57
106	Cellular Toxicity of TiO ₂ -Based Nanofilaments. ACS Nano, 2009, 3, 2274-2280.	7.3	89
107	Materials and Devices for Nanoelectronic Systems Beyond Ultimately Scaled CMOS. , 2009, , 23-44.		4
108	Influence of the catalyst drying process and catalyst support particle size on the carbon nanotubes produced by CCVD. Physica Status Solidi (B): Basic Research, 2008, 245, 1915-1918.	0.7	20

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109	La@C ₈₂ as a spin-€active filling of SWCNTs: ESR study of magnetic and photophysical properties. <i>Physica Status Solidi (B): Basic Research</i> , 2008, 245, 2042-2046.	0.7	8
110	Pressure-Induced Phase Transitions in Micro-, Submicro-, and Nanocrystalline NaNbO ₃ . <i>Journal of Physical Chemistry C</i> , 2008, 112, 9610-9616.	1.5	31
111	Uniformly dispersed deposition of colloidal nanoparticles and nanowires by boiling. <i>Applied Physics Letters</i> , 2007, 91, 173112.	1.5	30
112	Multiwalled Carbon Nanotubes Produced by a Continuous CVD Method and Their Use in Melt Mixed Composites with Polycarbonate. <i>Macromolecular Symposia</i> , 2007, 254, 392-399.	0.4	9
113	Diameter-Dependent Elastic Modulus Supports the Metastable-Catalyst Growth of Carbon Nanotubes. <i>Nano Letters</i> , 2007, 7, 1598-1602.	4.5	43
114	Temperature-induced Phase Transitions in Micro-, Submicro-, and Nanocrystalline NaNbO ₃ . <i>Journal of Physical Chemistry C</i> , 2007, 111, 18493-18502.	1.5	82
115	Evidence of an Equimolar C ₂ H ₂ â€CO ₂ Reaction in the Synthesis of Carbon Nanotubes. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 441-444.	7.2	61
116	Growth of Single-Crystalline KNbO ₃ Nanostructures. <i>Journal of Physical Chemistry B</i> , 2006, 110, 58-61.	1.2	157
117	Cellular Toxicity of Carbon-Based Nanomaterials. <i>Nano Letters</i> , 2006, 6, 1121-1125.	4.5	1,011
118	Consolidation, Microstructure and Crystallography of Dense NaNbO ₃ Ceramics with Ultra-Fine Grain Size. <i>Journal of the Ceramic Society of Japan</i> , 2006, 114, 995-1000.	1.3	19
119	Polymorphism in Micro-, Submicro-, and Nanocrystalline NaNbO ₃ .. <i>ChemInform</i> , 2006, 37, no.	0.1	0
120	Particle size effect on the crystal structure symmetry of K _{0.5} Na _{0.5} NbO ₃ . <i>Journal of the European Ceramic Society</i> , 2005, 25, 2075-2079.	2.8	54
121	Microemulsion mediated synthesis of nanocrystalline (K _x ,Na _{1-x})NbO ₃ powders. <i>Journal of Crystal Growth</i> , 2005, 280, 191-200.	0.7	46
122	Diameter Dependence of the Elastic Modulus of CVD-Grown Carbon Nanotubes. <i>AIP Conference Proceedings</i> , 2005, , .	0.3	2
123	Growth of Carbon Nanotubes with Alkaline Earth Carbonate as Support. <i>Journal of Physical Chemistry B</i> , 2005, 109, 10087-10091.	1.2	74
124	Polymorphism in Micro-, Submicro-, and Nanocrystalline NaNbO ₃ . <i>Journal of Physical Chemistry B</i> , 2005, 109, 20122-20130.	1.2	113
125	Growth Kinetics of One-Dimensional KNbO ₃ Nanostructures by Hydrothermal Processing Routes. <i>Journal of Physical Chemistry B</i> , 2005, 109, 14331-14334.	1.2	53
126	Phase transformation of KNaNb ₂ O ₆ induced by size effect. <i>Chemical Physics Letters</i> , 2004, 391, 288-292.	1.2	57

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127	Structural and transport properties of a new class of oxide ion conductors: $\text{Nd}_4[\text{Ga}_2(1-x)\text{M}_2\text{O}_7+x-1-x]\text{O}_2$ (M=Ti, Ge). <i>Solid State Sciences</i> , 2002, 4, 1413-1418.	1.5	21
128	Self-flux-grown $\text{Ba}_4\text{Fe}_4\text{ClO}_{9.5x}$ crystals exhibiting structures with tunable modulation. <i>CrystEngComm</i> , 0, , .	1.3	0