

Arnaud Magrez

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122
papers

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36
h-index

65
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133
ext. papers

5,172
ext. citations

5.9
avg, IF

5.15
L-index

#	Paper	IF	Citations
122	Cellular toxicity of carbon-based nanomaterials. <i>Nano Letters</i> , 2006 , 6, 1121-5	11.5	905
121	Are carbon nanotube effects on green algae caused by shading and agglomeration?. <i>Environmental Science & Technology</i> , 2011 , 45, 6136-44	10.3	222
120	Tunable polaronic conduction in anatase TiO ₂ . <i>Physical Review Letters</i> , 2013 , 110, 196403	7.4	185
119	In vitro investigation of the cellular toxicity of boron nitride nanotubes. <i>ACS Nano</i> , 2011 , 5, 3800-10	16.7	151
118	Growth of single-crystalline KNbO ₃ nanostructures. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 58-61	3.4	140
117	Microengineered CH ₃ NH ₃ PbI ₃ Nanowire/Graphene Phototransistor for Low-Intensity Light Detection at Room Temperature. <i>Small</i> , 2015 , 11, 4824-8	11	135
116	Direct growth of carbon nanotubes on carbon fibers: Effect of the CVD parameters on the degradation of mechanical properties of carbon fibers. <i>Diamond and Related Materials</i> , 2015 , 51, 39-48	3.5	114
115	Catalytic CVD Synthesis of Carbon Nanotubes: Towards High Yield and Low Temperature Growth. <i>Materials</i> , 2010 , 3, 4871-4891	3.5	104
114	High-efficiency solid-state dye-sensitized solar cells: fast charge extraction through self-assembled 3D fibrous network of crystalline TiO ₂ nanowires. <i>ACS Nano</i> , 2010 , 4, 7644-50	16.7	99
113	Polymorphism in micro-, submicro-, and nanocrystalline NaNbO ₃ . <i>Journal of Physical Chemistry B</i> , 2005 , 109, 20122-30	3.4	98
112	Diuron sorbed to carbon nanotubes exhibits enhanced toxicity to <i>Chlorella vulgaris</i> . <i>Environmental Science & Technology</i> , 2013 , 47, 7012-9	10.3	90
111	Evaluation of the toxicity of graphene derivatives on cells of the lung luminal surface. <i>Carbon</i> , 2013 , 64, 45-60	10.4	81
110	Cellular toxicity of TiO ₂ -based nanofilaments. <i>ACS Nano</i> , 2009 , 3, 2274-80	16.7	81
109	Controlled positioning of carbon nanotubes by dielectrophoresis: insights into the solvent and substrate role. <i>ACS Nano</i> , 2010 , 4, 279-84	16.7	72
108	Growth of carbon nanotubes with alkaline earth carbonate as support. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 10087-91	3.4	69
107	Lithium niobate nanowires synthesis, optical properties, and manipulation. <i>Applied Physics Letters</i> , 2009 , 95, 143105	3.4	67
106	Temperature-induced Phase Transitions in Micro-, Submicro-, and Nanocrystalline NaNbO ₃ . <i>Journal of Physical Chemistry C</i> , 2007 , 111, 18493-18502	3.8	66

105	Filming the formation and fluctuation of skyrmion domains by cryo-Lorentz transmission electron microscopy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 14212-7	11.5	58
104	Management of nanomaterials safety in research environment. <i>Particle and Fibre Toxicology</i> , 2010 , 7, 40	8.4	57
103	Evidence of an equimolar C ₂ H ₂ -CO ₂ reaction in the synthesis of carbon nanotubes. <i>Angewandte Chemie - International Edition</i> , 2007 , 46, 441-4	16.4	56
102	Nanopore integrated nanogaps for DNA detection. <i>Nano Letters</i> , 2014 , 14, 244-9	11.5	53
101	Low-temperature, highly efficient growth of carbon nanotubes on functional materials by an oxidative dehydrogenation reaction. <i>ACS Nano</i> , 2010 , 4, 3702-8	16.7	52
100	Towards electron spin resonance of mechanically exfoliated graphene. <i>Physica Status Solidi (B): Basic Research</i> , 2009 , 246, 2558-2561	1.3	50
99	FeOx magnetization enhancing E. coli inactivation by orders of magnitude on Ag-TiO ₂ nanotubes under sunlight. <i>Applied Catalysis B: Environmental</i> , 2017 , 202, 438-445	21.8	49
98	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	6	49
97	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, 3428-37	16.7	48
96	Growth kinetics of one-dimensional KNbO ₃ nanostructures by hydrothermal processing routes. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 14331-4	3.4	48
95	Influence of the initial state of carbon nanotubes on their colloidal stability under natural conditions. <i>Environmental Pollution</i> , 2011 , 159, 1641-8	9.3	47
94	Phase transformation of KNaNb ₂ O ₆ induced by size effect. <i>Chemical Physics Letters</i> , 2004 , 391, 288-292	2.5	47
93	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	9.3	42
92	Room-temperature negative differential resistance in graphene field effect transistors: experiments and theory. <i>ACS Nano</i> , 2015 , 9, 620-5	16.7	41
91	Morphology Engineering: A Route to Highly Reproducible and High Efficiency Perovskite Solar Cells. <i>ChemSusChem</i> , 2017 , 10, 1624-1630	8.3	40
90	The Role of Transport Agents in MoS ₂ Single Crystals. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 3918-3922	3.2	40
89	Diameter-dependent elastic modulus supports the metastable-catalyst growth of carbon nanotubes. <i>Nano Letters</i> , 2007 , 7, 1598-602	11.5	40
88	Microemulsion mediated synthesis of nanocrystalline (K _x ,Na _{1-x})NbO ₃ powders. <i>Journal of Crystal Growth</i> , 2005 , 280, 191-200	1.6	40

87	Elevated transition temperature in Ge doped VO ₂ thin films. <i>Journal of Applied Physics</i> , 2017 , 122, 0453045	4.5	36
86	Synthesis of Homogeneous Manganese-Doped Titanium Oxide Nanotubes from Titanate Precursors. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 697-702	3.8	34
85	Electrical conductivity of multi-walled carbon nanotubes-SU8 epoxy composites. <i>Applied Physics Letters</i> , 2013 , 102, 223114	3.4	32
84	Capacitive nanoelectromechanical switch based on suspended carbon nanotube array. <i>Applied Physics Letters</i> , 2010 , 97, 233508	3.4	30
83	Size dependence of the magnetic response of graphite oxide and graphene flakes in an electron spin resonance study. <i>Physica Status Solidi (B): Basic Research</i> , 2010 , 247, 2958-2961	1.3	30
82	Van der Waals MoS ₂ /VO heterostructure junction with tunable rectifier behavior and efficient photoresponse. <i>Scientific Reports</i> , 2017 , 7, 14250	4.9	29
81	Influence of TiO ₂ phase composition on the photocatalytic activity of TiO ₂ /MWCNT composites prepared by combined sol-gel/hydrothermal method. <i>Journal of Molecular Catalysis A</i> , 2016 , 414, 140-147		29
80	Dye metachromasy on titanate nanowires: sensing humidity with reversible molecular dimerization. <i>Journal of Materials Chemistry</i> , 2012 , 22, 8778		29
79	Enhanced low-temperature thermoelectrical properties of BiTeCl grown by topotactic method. <i>Scripta Materialia</i> , 2014 , 76, 69-72	5.6	27
78	Probing titanate nanowire surface acidity through methylene blue adsorption in colloidal suspension and on thin films. <i>Journal of Colloid and Interface Science</i> , 2014 , 416, 190-7	9.3	27
77	Carbon nanotubes/SU8 composite for flexible conductive inkjet printable applications. <i>Journal of Materials Chemistry</i> , 2012 , 22, 14030		27
76	Uniformly dispersed deposition of colloidal nanoparticles and nanowires by boiling. <i>Applied Physics Letters</i> , 2007 , 91, 173112	3.4	27
75	A Gibeon meteorite yields a high-performance water oxidation electrocatalyst. <i>Energy and Environmental Science</i> , 2016 , 9, 3448-3455	35.4	26
74	In Situ Electric Field Skyrmion Creation in Magnetoelectric CuOSeO. <i>Nano Letters</i> , 2018 , 18, 5167-5171	11.5	26
73	Optical properties of BiTeBr and BiTeCl. <i>Physical Review B</i> , 2014 , 90,	3.3	26
72	Pressure-Induced Phase Transitions in Micro-, Submicro-, and Nanocrystalline NaNbO ₃ . <i>Journal of Physical Chemistry C</i> , 2008 , 112, 9610-9616	3.8	26
71	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	1.3	23
70	Growth of carbon nanotubes on carbon fibers without strength degradation. <i>Physica Status Solidi (B): Basic Research</i> , 2012 , 249, 2420-2423	1.3	22

69	Preparation and characterization of multiwalled carbon nanotube/In ₂ O ₃ composites. <i>Carbon</i> , 2013 , 60, 266-272	10.4	22
68	Influence of the catalyst drying process and catalyst support particle size on the carbon nanotubes produced by CCVD. <i>Physica Status Solidi (B): Basic Research</i> , 2008 , 245, 1915-1918	1.3	19
67	Efficient voltammetric discrimination of free bilirubin from uric acid and ascorbic acid by a CVD nanographite-based microelectrode. <i>Talanta</i> , 2014 , 130, 423-6	6.2	18
66	Synthesis, electrical resistivity, thermo-electric power and magnetization of cubic ZnMnO ₃ . <i>Solid State Communications</i> , 2011 , 151, 487-490	1.6	18
65	Role of the particle size polydispersity in the electrical conductivity of carbon nanotube-epoxy composites. <i>Scientific Reports</i> , 2017 , 7, 12553	4.9	17
64	Photosynthetic reaction center protein in nanostructures. <i>Physica Status Solidi (B): Basic Research</i> , 2011 , 248, 2700-2703	1.3	17
63	Melting of a skyrmion lattice to a skyrmion liquid via a hexatic phase. <i>Nature Nanotechnology</i> , 2020 , 15, 761-767	28.7	16
62	High-performance multipanel biosensors based on a selective integration of nanographite petals. <i>Nano Letters</i> , 2014 , 14, 3180-4	11.5	16
61	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	8.5	16
60	Study of the mechanical response of carbon nanotubes-SU8 composites by nanoindentation. <i>Physica Status Solidi (B): Basic Research</i> , 2010 , 247, 3072-3075	1.3	16
59	Structural and transport properties of a new class of oxide ion conductors: Nd ₄ [Ga ₂ (1-x)M _{2x} O _{7+x}]O ₂ (M=Ti, Ge). <i>Solid State Sciences</i> , 2002 , 4, 1413-1418	3.4	16
58	Sub-terahertz spectroscopy of magnetic resonance in BiFeO ₃ using a vector network analyzer. <i>Applied Physics Letters</i> , 2016 , 108, 241109	3.4	15
57	Sorption kinetics and equilibrium of the herbicide diuron to carbon nanotubes or soot in absence and presence of algae. <i>Environmental Pollution</i> , 2014 , 192, 147-53	9.3	15
56	Dispersion Characteristics and Aggregation in Titanate Nanowire Colloids. <i>ChemPlusChem</i> , 2014 , 79, 592-600	2.8	15
55	Synthesis of Nanosized Mn-Doped ZnO by Low Temperature Decomposition of Hydrozincite Precursors. <i>Crystal Growth and Design</i> , 2010 , 10, 4437-4441	3.5	15
54	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		15
53	Electrical conduction of photo-patternable SU8/graphene composites. <i>Carbon</i> , 2014 , 80, 364-372	10.4	14
52	Reinforcement of CVD grown multi-walled carbon nanotubes by high temperature annealing. <i>AIP Advances</i> , 2013 , 3, 112101	1.5	14

51	High-Pressure Study of Anatase TiO ₂ . <i>Materials</i> , 2010 , 3, 1509-1514	3.5	14
50	Spin-Resolved Electronic Response to the Phase Transition in MoTe ₂ . <i>Physical Review Letters</i> , 2018 , 121, 156401	7.4	14
49	Probing the coupling between a doublon excitation and the charge-density wave in TaS ₂ by ultrafast optical spectroscopy. <i>Physical Review B</i> , 2016 , 94,	3.3	13
48	Reinforcing multiwall carbon nanotubes by electron beam irradiation. <i>Journal of Applied Physics</i> , 2010 , 108, 084314	2.5	13
47	Dirac nodal lines and flat-band surface state in the functional oxide RuO ₂ . <i>Physical Review B</i> , 2018 , 98,	3.3	13
46	Sensing hydrogen peroxide by carbon nanotube/horseradish peroxidase bio-nanocomposite. <i>Physica Status Solidi (B): Basic Research</i> , 2013 , 250, 2559-2563	1.3	12
45	Photocatalytic and phototoxic properties of TiO ₂ -based nanofilaments: ESR and AFM assays. <i>Nanotoxicology</i> , 2012 , 6, 813-24	5.3	12
44	Large magnetothermopower and anomalous Nernst effect in HfTe ₅ . <i>Physical Review B</i> , 2019 , 100,	3.3	11
43	Graphene Negative Differential Resistance Circuit With Voltage-Tunable High Performance at Room Temperature. <i>IEEE Electron Device Letters</i> , 2015 , 36, 865-867	4.4	11
42	Thermal diffusivity measurements of templated nanocomposite using infrared thermography. <i>Materials Letters</i> , 2014 , 115, 106-108	3.3	11
41	Electrical property measurements of Cr-N codoped TiO ₂ epitaxial thin films grown by pulsed laser deposition. <i>Applied Physics Letters</i> , 2013 , 102, 172108	3.4	11
40	Tuning the length dispersion of multi-walled carbon nanotubes by ball milling. <i>AIP Advances</i> , 2013 , 3, 092117	1.5	11
39	Iron-Rich Natural Mineral Gibeon Meteorite Catalyzed N-formylation of Amines using CO ₂ as the C1 Source. <i>ChemistrySelect</i> , 2018 , 3, 10271-10276	1.8	11
38	Chemical exchange at the ferroelectric phase transition of lead germanate revealed by solid state Pb nuclear magnetic resonance. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 1100-1109	3.6	10
37	Carbon nanotubes quench singlet oxygen generated by photosynthetic reaction centers. <i>Physica Status Solidi (B): Basic Research</i> , 2013 , 250, 2539-2543	1.3	10
36	Cyan titania nanowires: Spectroscopic study of the origin of the self-doping enhanced photocatalytic activity. <i>Catalysis Today</i> , 2017 , 284, 52-58	5.3	10
35	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	3	10
34	Magnetism in nanoscale graphite flakes as seen via electron spin resonance. <i>Physical Review B</i> , 2012 , 85,	3.3	9

33	Preparation and characterization of SU8/carbon nanotube composites. <i>Physica Status Solidi (B): Basic Research</i> , 2009 , 246, 2461-2464	1.3	9
32	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	0.8	9
31	Preparation of titania covered multi-walled carbon nanotube thin films. <i>Materials and Design</i> , 2015 , 86, 198-203	8.1	8
30	Direct growth of nanotubes and graphene nanoflowers on electrochemical platinum electrodes. <i>Nanoscale</i> , 2013 , 5, 12448-55	7.7	8
29	La@C82 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	1.3	8
28	Photochemical processes developed in composite based on highly separated metallic and semiconducting SWCNTs functionalized with polydiphenylamine. <i>Carbon</i> , 2015 , 81, 426-438	10.4	7
27	Functionalized graphene grown by oxidative dehydrogenation chemistry. <i>Carbon</i> , 2014 , 71, 11-19	10.4	7
26	Long term stabilization of reaction center protein photochemistry by carbon nanotubes. <i>Physica Status Solidi (B): Basic Research</i> , 2011 , 248, 2454-2457	1.3	7
25	Single potassium niobate nano/microsized particles as local mechano-optical Brownian probes. <i>Nanoscale</i> , 2016 , 8, 6810-9	7.7	6
24	Chemical challenges during the synthesis of MWCNT-based inorganic nanocomposite materials. <i>Physica Status Solidi (B): Basic Research</i> , 2014 , 251, 2360-2365	1.3	6
23	Cell type dependence of carbon based nanomaterial toxicity. <i>Physica Status Solidi (B): Basic Research</i> , 2010 , 247, 3059-3062	1.3	6
22	Evidence of an Equimolar C ₂ H ₂ /O ₂ Reaction in the Synthesis of Carbon Nanotubes. <i>Angewandte Chemie</i> , 2007 , 119, 445-448	3.6	6
21	Time-resolved ARPES at LACUS: Band Structure and Ultrafast Electron Dynamics of Solids. <i>Chimia</i> , 2017 , 71, 273-277	1.3	5
20	Effects of composition and pressure on electronic states of iron in bridgmanite. <i>American Mineralogist</i> , 2020 , 105, 1030-1039	2.9	5
19	Fabrication of homogeneous titania/MWNT composite materials. <i>Materials Research Bulletin</i> , 2011 , 46, 1991-1996	5.1	5
18	Crystal Structure, Transport, and Magnetic Properties of an Ir(6+) Compound Ba ₈ Al ₂ IrO ₁₄ . <i>Inorganic Chemistry</i> , 2015 , 54, 4371-6	5.1	4
17	Anti-Stokes Raman spectroscopy as a method to identify metallic and mixed metallic/semiconducting configurations of multi-walled carbon nanotubes. <i>Analytical Methods</i> , 2015 , 7, 6225-6230	3.2	4
16	The effect of titania precursor on the morphology of prepared TiO ₂ /MWCNT nanocomposite materials. <i>Physica Status Solidi (B): Basic Research</i> , 2014 , 251, 2384-2388	1.3	4

15	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	1.3	4
14	Singlet state formation and its impact on the magnetic structure in the tetramer system SeCuO ₃ . <i>Physical Review B</i> , 2018 , 98,	3.3	3
13	Photosynthetic reaction centre/carbon nanotube bundle composites. <i>Physica Status Solidi (B): Basic Research</i> , 2014 , 251, 2366-2371	1.3	3
12	Equilibrium concentration of singlet oxygen in photoreaction of reaction center/carbon nanotube bionanocomposites. <i>Physica Status Solidi (B): Basic Research</i> , 2015 , 252, 2479-2484	1.3	3
11	Materials and Devices for Nanoelectronic Systems Beyond Ultimately Scaled CMOS 2009 , 23-44		3
10	Electrical transport in onion-like carbon/PMMA nanocomposites. <i>Applied Physics Letters</i> , 2019 , 114, 103102	3.4	2
9	Polymorphism in Micro-, Submicro-, and Nanocrystalline NaNbO ₃ . <i>Journal of Physical Chemistry B</i> , 2006 , 110, 16801-16801	3.4	2
8	Diameter Dependence of the Elastic Modulus of CVD-Grown Carbon Nanotubes. <i>AIP Conference Proceedings</i> , 2005 ,	0	2
7	Toxicity Study of Nanofibers 2011 , 133-149		2
6	MnO nanoparticles as the cause of ferromagnetism in bulk dilute Mn-doped ZnO. <i>Applied Physics Letters</i> , 2016 , 109, 252405	3.4	2
5	2016 ,		1
4	Investigating Skyrmions Using Lorentz Transmission Electron Microscopy. <i>Microscopy and Microanalysis</i> , 2018 , 24, 932-933	0.5	0
3	New refinement of the crystal structure of Zn(NH)Cl at 100 K. <i>Acta Crystallographica Section E: Crystallographic Communications</i> , 2019 , 75, 1386-1388	0.7	0
2	Direct Visualisation of Skyrmion Lattice Defect Alignment at Grain Boundaries.. <i>Nanoscale Research Letters</i> , 2022 , 17, 20	5	
1	Ba(IO): crystal structure evolution from room temperature to 80 K. <i>Acta Crystallographica Section E: Crystallographic Communications</i> , 2021 , 77, 634-637	0.7	