

Marie-Vanessa Coulet

List of Publications by Year in descending order

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35
papers

904
citations

471509

17
h-index

454955

30
g-index

36
all docs

36
docs citations

36
times ranked

1313
citing authors

#	ARTICLE	IF	CITATIONS
1	Understanding the Effects of Binders in Gas Sorption and Acidity of Aluminium Fumarate Extrudates. Chemistry - A European Journal, 2022, 28, .	3.3	6
2	Tuning the Properties of MOF@808 via Defect Engineering and Metal Nanoparticle Encapsulation. Chemistry - A European Journal, 2021, 27, 6804-6814.	3.3	46
3	Influence of texture and microstructure on the reactivity of aluminum powders. Materialia, 2020, 14, 100880.	2.7	2
4	Tailoring the separation properties of flexible metal-organic frameworks using mechanical pressure. Nature Communications, 2020, 11, 1216.	12.8	88
5	Self-supported sulphurized TiO ₂ nanotube layers as positive electrodes for lithium microbatteries. Applied Materials Today, 2019, 16, 257-264.	4.3	10
6	Metal-organic framework crystal-glass composites. Nature Communications, 2019, 10, 2580.	12.8	97
7	Metal-Organic Frameworks as Catalyst Supports: Influence of Lattice Disorder on Metal Nanoparticle Formation. Chemistry - A European Journal, 2018, 24, 7498-7506.	3.3	29
8	Using water adsorption measurements to access the chemistry of defects in the metal-organic framework UiO-66. CrystEngComm, 2017, 19, 4137-4141.	2.6	58
9	Ge-doped GaSb thin films with zero mass density change upon crystallization for applications in phase change memories. Applied Physics Letters, 2016, 108, .	3.3	39
10	Oxidation Mechanism of Aluminum Nanopowders. Journal of Physical Chemistry C, 2015, 119, 25063-25070.	3.1	48
11	Growth and migration of nanocavities in He ⁺ multi-implanted Si measured by in situ small-angle X-ray scattering. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2014, 182, 45-51.	3.5	6
12	Density change upon crystallization of Ga-Sb films. Applied Physics Letters, 2014, 105, 181910.	3.3	17
13	New insights on the crystallization process in Ge ₁₅ Sb ₈₅ phase change material: A simultaneous calorimetric and quick-EXAFS measurement. Journal of Non-Crystalline Solids, 2013, 377, 30-33.	3.1	6
14	Ge ₂ Sb ₂ Te ₅ layer used as solid electrolyte in conductive-bridge memory devices fabricated on flexible substrate. Solid-State Electronics, 2013, 79, 159-165.	1.4	26
15	High-energy ball milling to enhance the reactivity of aluminum nanopowders. Materials Letters, 2013, 110, 108-110.	2.6	22
16	Combined in situ x-ray scattering and electrical measurements for characterizing phase transformations in nanometric functional films. Thin Solid Films, 2013, 541, 21-27.	1.8	11
17	Unusual crystallization behavior in Ga-Sb phase change alloys. APL Materials, 2013, 1, .	5.1	25
18	Phase transition in stoichiometric GaSb thin films: Anomalous density change and phase segregation. Applied Physics Letters, 2013, 103, .	3.3	24

#	ARTICLE	IF	CITATIONS
19	Morphology and reactivity of aluminium nanocrystalline powders. International Journal of Nanotechnology, 2012, 9, 618.	0.2	3
20	Simultaneous calorimetric and quick-EXAFS measurements to study the crystallization process in phase-change materials. Journal of Synchrotron Radiation, 2012, 19, 806-813.	2.4	8
21	Evidence for correlated structural and electrical changes in a Ge ₂ Sb ₂ Te ₅ thin film from combined synchrotron X-ray techniques and sheet resistance measurements during <i>in situ</i> thermal annealing. Journal of Applied Crystallography, 2011, 44, 858-864.	4.5	13
22	Structural changes and thermal properties of aluminium micro- and nano-powders. Acta Materialia, 2010, 58, 4224-4232.	7.9	47
23	Dynamics of the Negative Thermal Expansion in Tellurium Based Liquid Alloys. Physical Review Letters, 2009, 103, 245901.	7.8	19
24	Characterisation of nanocavities in He ⁺ -implanted silicon by transmission electron microscopy and small-angle X-ray scattering. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2009, 162, 135-142.	3.5	2
25	Characteristic Ordering in Liquid Phase-Change Materials. Advanced Materials, 2008, 20, 4535-4540.	21.0	48
26	A diamond anvil cell with resistive heating for high pressure and high temperature x-ray diffraction and absorption studies. Review of Scientific Instruments, 2008, 79, 085103.	1.3	36
27	Neutrons probing the structure and dynamics of liquids. Comptes Rendus Physique, 2007, 8, 884-908.	0.9	8
28	Influence of particles size on thermal properties of aluminium powder. Acta Materialia, 2007, 55, 2815-2827.	7.9	95
29	Closed-loop miscibility gap in sulfur-tellurium melts: structural evidence and thermodynamic modelling. Journal of Physics Condensed Matter, 2006, 18, 11471-11486.	1.8	2
30	Reverse Monte Carlo analysis of the local order in liquid Ge _{0.15} Te _{0.85} alloys combining neutron scattering and x-ray absorption spectroscopy. Physical Review B, 2005, 72, .	3.2	18
31	Small angle x-ray scattering of a supercritical electrolyte solution: The effect of density fluctuations on the hydration of ions. Journal of Chemical Physics, 2005, 122, 194505.	3.0	14
32	Correlation between density variation and electrical conductivity in supercritical selenium probed by small angle x-ray scattering. Journal of Chemical Physics, 2003, 118, 11235-11238.	3.0	14
33	Can local order changes induce a phase transition in a liquid?. Europhysics Letters, 1999, 45, 175-180.	2.0	5
34	Origin of the looped two-melt phase in the liquid S-Te system. Journal of Physics Condensed Matter, 1999, 11, 8759-8772.	1.8	1
35	Local order in liquid potassium-antimony alloys studied by neutron scattering and ab initio molecular dynamics. Europhysics Letters, 1998, 43, 539-545.	2.0	11