

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	Metal-organic framework crystal-glass composites. <i>Nature Communications</i> , 2019, 10, 2580.	12.8	97
2	Influence of particles size on thermal properties of aluminium powder. <i>Acta Materialia</i> , 2007, 55, 2815-2827.	7.9	95
3	Tailoring the separation properties of flexible metal-organic frameworks using mechanical pressure. <i>Nature Communications</i> , 2020, 11, 1216.	12.8	88
4	Using water adsorption measurements to access the chemistry of defects in the metal-organic framework UiO-66. <i>CrystEngComm</i> , 2017, 19, 4137-4141.	2.6	58
5	Characteristic Ordering in Liquid Phase-Change Materials. <i>Advanced Materials</i> , 2008, 20, 4535-4540.	21.0	48
6	Oxidation Mechanism of Aluminum Nanopowders. <i>Journal of Physical Chemistry C</i> , 2015, 119, 25063-25070.	3.1	48
7	Structural changes and thermal properties of aluminium micro- and nano-powders. <i>Acta Materialia</i> , 2010, 58, 4224-4232.	7.9	47
8	Tuning the Properties of MOF-808 via Defect Engineering and Metal Nanoparticle Encapsulation. <i>Chemistry - A European Journal</i> , 2021, 27, 6804-6814.	3.3	46
9	Ge-doped GaSb thin films with zero mass density change upon crystallization for applications in phase change memories. <i>Applied Physics Letters</i> , 2016, 108, .	3.3	39
10	A diamond anvil cell with resistive heating for high pressure and high temperature x-ray diffraction and absorption studies. <i>Review of Scientific Instruments</i> , 2008, 79, 085103.	1.3	36
11	Metal-Organic Frameworks as Catalyst Supports: Influence of Lattice Disorder on Metal Nanoparticle Formation. <i>Chemistry - A European Journal</i> , 2018, 24, 7498-7506.	3.3	29
12	Ge ₂ Sb ₂ Te ₅ layer used as solid electrolyte in conductive-bridge memory devices fabricated on flexible substrate. <i>Solid-State Electronics</i> , 2013, 79, 159-165.	1.4	26
13	Unusual crystallization behavior in Ga-Sb phase change alloys. <i>APL Materials</i> , 2013, 1, .	5.1	25
14	Phase transition in stoichiometric GaSb thin films: Anomalous density change and phase segregation. <i>Applied Physics Letters</i> , 2013, 103, .	3.3	24
15	High-energy ball milling to enhance the reactivity of aluminum nanopowders. <i>Materials Letters</i> , 2013, 110, 108-110.	2.6	22
16	Dynamics of the Negative Thermal Expansion in Tellurium Based Liquid Alloys. <i>Physical Review Letters</i> , 2009, 103, 245901.	7.8	19
17	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. <i>Physical Review B</i> , 2005, 72, .	3.2	18
18	Density change upon crystallization of Ga-Sb films. <i>Applied Physics Letters</i> , 2014, 105, 181910.	3.3	17

#	ARTICLE	IF	CITATIONS
19	Correlation between density variation and electrical conductivity in supercritical selenium probed by small angle x-ray scattering. <i>Journal of Chemical Physics</i> , 2003, 118, 11235-11238.	3.0	14
20	Small angle x-ray scattering of a supercritical electrolyte solution: The effect of density fluctuations on the hydration of ions. <i>Journal of Chemical Physics</i> , 2005, 122, 194505.	3.0	14
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. <i>Journal of Applied Crystallography</i> , 2011, 44, 858-864.	4.5	13
22	Local order in liquid potassium-antimony alloys studied by neutron scattering and ab initio molecular dynamics. <i>Europhysics Letters</i> , 1998, 43, 539-545.	2.0	11
23	Combined <i>in situ</i> x-ray scattering and electrical measurements for characterizing phase transformations in nanometric functional films. <i>Thin Solid Films</i> , 2013, 541, 21-27.	1.8	11
24	Self-supported sulphurized TiO ₂ nanotube layers as positive electrodes for lithium microbatteries. <i>Applied Materials Today</i> , 2019, 16, 257-264.	4.3	10
25	Neutrons probing the structure and dynamics of liquids. <i>Comptes Rendus Physique</i> , 2007, 8, 884-908.	0.9	8
26	Simultaneous calorimetric and quick-EXAFS measurements to study the crystallization process in phase-change materials. <i>Journal of Synchrotron Radiation</i> , 2012, 19, 806-813.	2.4	8
27	New insights on the crystallization process in Ge ₁₅ Sb ₈₅ phase change material: A simultaneous calorimetric and quick-EXAFS measurement. <i>Journal of Non-Crystalline Solids</i> , 2013, 377, 30-33.	3.1	6
28	Growth and migration of nanocavities in He ⁺ multi-implanted Si measured by <i>in situ</i> small-angle X-ray scattering. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2014, 182, 45-51.	3.5	6
29	Understanding the Effects of Binders in Gas Sorption and Acidity of Aluminium Fumarate Extrudates. <i>Chemistry - A European Journal</i> , 2022, 28, .	3.3	6
30	Can local order changes induce a phase transition in a liquid?. <i>Europhysics Letters</i> , 1999, 45, 175-180.	2.0	5
31	Morphology and reactivity of aluminium nanocrystalline powders. <i>International Journal of Nanotechnology</i> , 2012, 9, 618.	0.2	3
32	Closed-loop miscibility gap in sulfur-tellurium melts: structural evidence and thermodynamic modelling. <i>Journal of Physics Condensed Matter</i> , 2006, 18, 11471-11486.	1.8	2
33	Characterisation of nanocavities in He ⁺ -implanted silicon by transmission electron microscopy and small-angle X-ray scattering. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2009, 162, 135-142.	3.5	2
34	Influence of texture and microstructure on the reactivity of aluminum powders. <i>Materialia</i> , 2020, 14, 100880.	2.7	2
35	Origin of the looped two-melt phase in the liquid S-Te system. <i>Journal of Physics Condensed Matter</i> , 1999, 11, 8759-8772.	1.8	1