

Patrice Melinon

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36
papers

1,683
citations

15
h-index

38
g-index

38
ext. papers

1,780
ext. citations

5.9
avg, IF

3.94
L-index

#	Paper	IF	Citations
36	Magnetic anisotropy of a single cobalt nanocluster. <i>Physical Review Letters</i> , 2001 , 86, 4676-9	7.4	352
35	Cluster assembled materials: a novel class of nanostructured solids with original structures and properties. <i>Journal Physics D: Applied Physics</i> , 1997 , 30, 709-721	3	266
34	Playing with carbon and silicon at the nanoscale. <i>Nature Materials</i> , 2007 , 6, 479-90	27	229
33	Diamondlike carbon films obtained by low energy cluster beam deposition: Evidence of a memory effect of the properties of free carbon clusters. <i>Physical Review Letters</i> , 1993 , 71, 4170-4173	7.4	121
32	Photolysis experiments on SiC mixed clusters: From silicon carbide clusters to silicon-doped fullerenes. <i>Journal of Chemical Physics</i> , 1999 , 110, 6927-6938	3.9	97
31	Exceptional ideal strength of carbon clathrates. <i>Physical Review Letters</i> , 2004 , 92, 215505	7.4	90
30	Engineered inorganic core/shell nanoparticles. <i>Physics Reports</i> , 2014 , 543, 163-197	27.7	80
29	Cluster-beam deposition of thin metallic antimony films: Cluster-size and deposition-rate effects. <i>Physical Review B</i> , 1991 , 44, 3926-3933	3.3	75
28	Comparison of molecular and cluster deposition: Evidence of different percolation processes. <i>Physical Review B</i> , 1991 , 44, 12562-12564	3.3	38
27	Mutual orientation of two C60 molecules: an ab initio study. <i>Journal of Chemical Physics</i> , 2005 , 122, 094315	3.5	33
26	Oriented Attachment of ZnO Nanocrystals. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 10220-10227	3.8	32
25	Nonisotropic Self-Assembly of Nanoparticles: From Compact Packing to Functional Aggregates. <i>Advanced Materials</i> , 2018 , 30, e1706558	24	31
24	Interface Energy Impact on Phase Transitions: The Case of TiO2 Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 22286-22291	3.8	27
23	Continuous amorphous antimony thin films obtained by low-energy cluster beam deposition. <i>Applied Physics Letters</i> , 1991 , 59, 1421-1423	3.4	23
22	Study of the crystallization of antimony thin films by transmission electron microscopy observations and electrical measurements. <i>Thin Solid Films</i> , 1992 , 209, 161-164	2.2	17
21	Pressure-Induced Disorder in SnO2 Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 15463-15471	3.871	15
20	Spontaneous formation of size-selected bimetallic nanoparticle arrays. <i>Surface Science</i> , 2012 , 606, 110-114	3.8	15

19	Thermodynamics of nanoparticles: experimental protocol based on a comprehensive Ginzburg-Landau interpretation. <i>Nano Letters</i> , 2014 , 14, 269-76	11.5	14
18	Size-dependent pressure-induced amorphization: a thermodynamic panorama. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 903-10	3.6	14
17	Alloying Effect in CoPt Nanoparticles Probed by X-ray Photoemission Spectroscopy: Validity of the Bulk Phase Diagram. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 13168-13175	3.8	13
16	Is Graphitic Silicon Carbide (Silagraphene) Stable?. <i>Chemistry of Materials</i> , 2018 , 30, 7234-7244	9.6	13
15	Experimental achievement of 2D percolation and cluster-cluster aggregation models by cluster deposition. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1992 , 185, 104-110	3.3	12
14	Effect of the quantum confinement on the luminescent properties of sesquioxides. <i>Journal of Luminescence</i> , 2007 , 122-123, 756-758	3.8	11
13	Direct observation of the infinite percolation cluster in thin films: Evidence for a double percolation process. <i>Physical Review B</i> , 1993 , 47, 5008-5012	3.3	11
12	EFFICIENT ULTRAVIOLET LIGHT FREQUENCY DOWN-SHIFTING BY A THIN FILM OF ZnO NANOPARTICLES. <i>International Journal of Nanoscience</i> , 2012 , 11, 1240022	0.6	9
11	Covalent clusters-based materials. <i>Comptes Rendus Physique</i> , 2002 , 3, 273-288	1.4	8
10	Pressure-Induced Sublattice Disorder in SnO ₂ : Invasive Selective Percolation. <i>Physical Review Letters</i> , 2018 , 120, 265702	7.4	7
9	Low energy cluster beam deposition: a way to new materials?. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1993 , 79, 219-222	1.2	6
8	Metastable States in Pressurized Bulk and Mesoporous Germanium. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 10929-10938	3.8	5
7	Tunable synthesis and in situ growth of silicon-carbon mesostructures using impermeable plasma. <i>Scientific Reports</i> , 2013 , 3, 1083	4.9	5
6	Carrier-induced ferromagnetism in the insulating Mn-doped III-V semiconductor InP. <i>Physical Review B</i> , 2016 , 94,	3.3	4
5	Predicting the Primitive Form of Rhombohedral Silicon Carbide (9R-SiC): A Pathway toward Polytypic Heterojunctions. <i>Crystal Growth and Design</i> , 2018 , 18, 7059-7064	3.5	4
4	Revisiting thin film of glassy carbon. <i>Physical Review Materials</i> , 2020 , 4,	3.2	3
3	Vitreous Carbon, Geometry and Topology: A Hollistic Approach. <i>Nanomaterials</i> , 2021 , 11,	5.4	3
2	Cage-Like Based Materials with Carbon and Silicon. <i>ECS Transactions</i> , 2008 , 13, 101-107	1	0

1 ZnO Nanostructures for Mid-IR Plasmonics **2016**, 1166-1167