

Antoine Villesuzanne

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44
papers

818
citations

17
h-index

28
g-index

55
ext. papers

928
ext. citations

4.7
avg, IF

3.62
L-index

#	Paper	IF	Citations
44	Rapid hydrothermal synthesis of VO ₂ (B) and its conversion to thermochromic VO ₂ (M1). <i>Inorganic Chemistry</i> , 2013 , 52, 4780-5	5.1	88
43	Application of Density Functional Theory to the Modeling of the Mixed Ionic and Electronic Conductor La ₂ NiO ₄ + δ Lattice Relaxation, Oxygen Mobility, and Energetics of Frenkel Defects. <i>Chemistry of Materials</i> , 2005 , 17, 6538-6544	9.6	67
42	LiMSO(4)F (M = Fe, Co and Ni): promising new positive electrode materials through the DFT microscope. <i>Physical Chemistry Chemical Physics</i> , 2010 , 12, 15512-22	3.6	59
41	Anisotropic Oxygen Diffusion Properties in Pr ₂ NiO ₄ + δ and Nd ₂ NiO ₄ + δ Single Crystals. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 26466-26472	3.8	58
40	Determination of Local Geometries around Tellurium in TeO ₂ -Nb ₂ O ₅ and TeO ₂ -Al ₂ O ₃ Oxide Glasses by XANES and EXAFS: Investigation of Electronic Properties of Evidenced Oxygen Clusters by Ab Initio Calculations. <i>Journal of Solid State Chemistry</i> , 1996 , 126, 143-151	3.3	51
39	VO ₂ (A): Reinvestigation of crystal structure, phase transition and crystal growth mechanisms. <i>Journal of Solid State Chemistry</i> , 2014 , 213, 79-86	3.3	46
38	Spin State Behavior in Some Cobaltites (III) and (IV) with Perovskite or Related Structure. <i>Journal of Solid State Chemistry</i> , 2001 , 162, 282-292	3.3	42
37	Density functional theory calculations on microscopic aspects of oxygen diffusion in ceria-based materials. <i>International Journal of Quantum Chemistry</i> , 2005 , 101, 826-839	2.1	36
36	Synthesis, crystal structure, magnetic properties, and electronic structure of the new ternary vanadate CuMnVO ₄ . <i>Inorganic Chemistry</i> , 2005 , 44, 3087-93	5.1	28
35	On the role of lattice dynamics on low-temperature oxygen mobility in solid oxides: a neutron diffraction and first-principles investigation of ($\{ \text{L} \} \{ \text{a} \}_2 \{ \text{Cu} \} \{ \text{O} \}_{4 + \delta} \}$). <i>Journal of Solid State Electrochemistry</i> , 2011 , 15, 357-366	2.6	26
34	Identifying Doping Strategies To Optimize the Oxide Ion Conductivity in Ceria-Based Materials. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 19062-19076	3.8	26
33	New considerations on the role of covalency in ferroelectric niobates and tantalates. <i>European Physical Journal B</i> , 1998 , 6, 307-312	1.2	26
32	Electrochemical properties of crystallized dilithium squarate: insight from dispersion-corrected density functional theory. <i>Physical Chemistry Chemical Physics</i> , 2012 , 14, 11398-412	3.6	22
31	First-principles study of the electronic and magnetic structures of the tetragonal and orthorhombic phases of Ca ₃ Mn ₂ O ₇ . <i>Physical Review B</i> , 2007 , 76,	3.3	20
30	Density functional theory analysis of the interplay between Jahn-Teller instability, uniaxial magnetism, spin arrangement, metal-metal interaction, and spin-orbit coupling in Ca ₃ CoMO ₆ (M = Co, Rh, Ir). <i>Inorganic Chemistry</i> , 2011 , 50, 1758-66	5.1	19
29	Synthesis and characterization of [PtIn ₆](GeO ₄) ₂ O and its solid solution [PtIn ₆](GaO ₄) _(2-x) (GeO ₄) _x O _{x/2} (0 Journal of the American Chemical Society, 2005 , 127, 12990-6	16.4	18
28	Comparative Studies on the Phase Stability, Electronic Structure, and Topology of the Charge Density in the Li ₃ XO ₄ (X = P, As, V) Lithium Orthosalt Polymorphs. <i>Chemistry of Materials</i> , 2009 , 21, 1861-1874 ¹⁷	9.6	17

27	First-principles determination of structural properties of MgO. <i>Physica Scripta</i> , 2009 , 80, 055702	2.6	17
26	Comparative electronic band structure study of the intrachain ferromagnetic versus antiferromagnetic coupling in the magnetic oxides Ca ₃ Co ₂ O ₆ and Ca ₃ FeRhO ₆ . <i>Inorganic Chemistry</i> , 2005 , 44, 6339-45	5.1	17
25	Interplay between Local Electronic Configuration and the Occurrence of a Metallic State: An Experimental Approach. <i>Journal of Solid State Chemistry</i> , 1999 , 147, 211-217	3.3	16
24	(Nd/Pr)NiO: Reaction Intermediates and Redox Behavior Explored by in Situ Neutron Powder Diffraction during Electrochemical Oxygen Intercalation. <i>Inorganic Chemistry</i> , 2018 , 57, 4657-4666	5.1	13
23	Molecular-dynamics simulations of binary Pd-Si metal alloys: Glass formation, crystallisation and cluster properties. <i>Journal of Non-Crystalline Solids</i> , 2018 , 487, 72-86	3.9	12
22	Analysis of the effect of spin-orbit coupling on the electronic structure and excitation spectrum of the Bi ₂ (2-) anion in (K-crypt)2Bi ₂ on the basis of relativistic electronic structure calculations. <i>Journal of Physical Chemistry A</i> , 2005 , 109, 1675-83	2.8	12
21	Ionic conductivity, ferroelectricity and chemical bonding in TKWB type ceramics of the K ₆ Li ₄ Ta ₁₀ O ₃₀ -Pb ₅ Ta ₁₀ O ₃₀ system. <i>Journal of Materials Chemistry</i> , 1998 , 8, 2423-2428		8
20	The electronic and magnetic structures of stoichiometric SrCoO ₃ : ASW calculations. <i>Journal of Materials Chemistry</i> , 1996 , 6, 1785		8
19	Rippled nanocarbons from periodic arrangements of reordered bivacancies in graphene or nanotubes. <i>Journal of Chemical Physics</i> , 2012 , 136, 124705	3.9	7
18	Isolating the Two Room-Temperature Polymorphs of NaNbO ₃ : Structural Features, Optical Band Gap, and Reactivity. <i>ACS Applied Electronic Materials</i> , 2019 , 1, 513-522	4	6
17	Long-range oxygen ordering linked to topotactic oxygen release in Pr ₂ NiO ₄ + fuel cell cathode material. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 13987-13995	13	5
16	Status of trivalent copper and charge-transfer excitons in high-TC cuprates. <i>Inorganic Chemistry</i> , 2008 , 47, 8487-97	5.1	5
15	Large Negative Magnetoresistance of the Rare-Earth Transition-Metal Intermetallic Compound PrMnSi ₂ . <i>Chemistry of Materials</i> , 2005 , 17, 6338-6341	9.6	5
14	Prediction of ferroelectric properties in niobates and tantalates based on covalency considerations. <i>Ferroelectrics</i> , 1999 , 229, 1-10	0.6	5
13	Discussion on the structure stability and the luminescence switch under irradiation of a Ce-doped elpasolite compound. <i>Chemistry - A European Journal</i> , 2015 , 21, 5242-51	4.8	4
12	On the Electronic Structure Required for the Uniaxial Magnetic Properties of the Magnetic Metal SrCo ₆ O ₁₁ . <i>Chemistry of Materials</i> , 2007 , 19, 2712-2714	9.6	4
11	Exchange and correlation effects in transition-metal oxides 3dn ⁿ (n = 4, 5 and 6). <i>Comptes Rendus Chimie</i> , 2003 , 6, 135-145	2.7	4
10	Hydrogen Insertion in the Intermetallic GdScGe: A Drastic Reduction of the Dimensionality of the Magnetic and Transport Properties. <i>Inorganic Chemistry</i> , 2018 , 57, 14230-14239	5.1	4

9	Effect of Carbon Insertion on the Structural and Magnetic Properties of NdScSi. <i>Inorganic Chemistry</i> , 2019 , 58, 15255-15268	5.1	3
8	High-TC superconductivity: a solid state chemistry model. <i>New Journal of Chemistry</i> , 2012 , 36, 796	3.6	3
7	Real-space pairing through charge transfer excitons in high-TC cuprates. <i>Inorganic Chemistry</i> , 2008 , 47, 11958-64	5.1	3
6	Discussion on the structural anisotropy of wurtzite-type compounds. <i>Solid State Sciences</i> , 2013 , 21, 81-84	3.4	2
5	Solid state chemistry for connecting the pieces of the high-TC superconducting puzzle?. <i>Solid State Sciences</i> , 2010 , 12, 691-698	3.4	2
4	Observation of Unusual Hysteretic Magnetic Properties of the Rare Earth Intermetallic Compound PrMnSi ₂ : Magnetic Susceptibility, Magnetization, Heat Capacity, and Electronic Band Structure Studies. <i>Chemistry of Materials</i> , 2005 , 17, 3711-3716	9.6	2
3	Etude des structures électroniques de In ₂ O ₃ pur et dopé avec l'In. <i>Comptes Rendus De L'Académie Des Sciences - Series IIc: Chemistry</i> , 2001 , 4, 367-373		1
2	Are Superconductivity Mechanisms a Matter for Chemists?. <i>Condensed Matter</i> , 2020 , 5, 67	1.8	
1	A Density Functional Study of Oxygen Mobility in Ceria-Based Materials. <i>Defect and Diffusion Forum</i> , 2012 , 323-325, 233-238	0.7	