

Pascal Boulet

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1461818/publications.pdf>

Version: 2024-02-01

82
papers

1,858
citations

279701

23
h-index

276775

41
g-index

85
all docs

85
docs citations

85
times ranked

2432
citing authors

#	ARTICLE	IF	CITATIONS
1	Preparation and Chromaticity Control of CoTiO ₃ /NiTiO ₃ Co-Coated TiO ₂ Composite Pigments. <i>Materials</i> , 2022, 15, 1456.	1.3	3
2	Electron Density and Optoelectronic Properties of Copper Antimony Sulphur Ternary Compounds for Photovoltaic Applications. <i>Journal of Electronic Materials</i> , 2022, 51, 3903-3918.	1.0	5
3	Influence of the stacking sequence on layered-chalcogenide properties: first principles investigation of Pb ₂ Bi ₂ Te ₅ . <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 11300-11313.	1.3	5
4	Thermoelectric properties of Cu ₂ Sb system compounds from density functional theory calculations. <i>Journal of the Chinese Chemical Society</i> , 2021, 68, 1030.	0.8	1
5	Strain Effects on the Electronic and Thermoelectric Properties of n(PbTe)-m(Bi ₂ Te ₃) System Compounds. <i>Materials</i> , 2021, 14, 4086.	1.3	6
6	Structure-Property Relationships in Transition Metal Dichalcogenide Bilayers under Biaxial Strains. <i>Nanomaterials</i> , 2021, 11, 2639.	1.9	4
7	First-Principle Investigations on the Electronic and Transport Properties of PbBi ₂ Te ₂ X ₂ (X=S/Se/Te) Monolayers. <i>Nanomaterials</i> , 2021, 11, 2979.	1.9	0
8	Thermoelectric Properties of Sb-S System Compounds from DFT Calculations. <i>Materials</i> , 2020, 13, 4707.	1.3	4
9	Structure-Property Relationships of 2D Ga/In Chalcogenides. <i>Nanomaterials</i> , 2020, 10, 2188.	1.9	2
10	Electron Density and Its Relation with Electronic and Optical Properties in 2D Mo/W Dichalcogenides. <i>Nanomaterials</i> , 2020, 10, 2221.	1.9	11
11	Theoretical Investigations of the BaRh ₂ Ge ₄ X ₆ (X = S, Se, Te) Compounds. <i>Energies</i> , 2020, 13, 6434.	1.6	0
12	A rapid method for analyzing the chemical bond from energy densities calculations at the bond critical point. <i>Computational and Theoretical Chemistry</i> , 2020, 1178, 112784.	1.1	29
13	First-principles calculations on CuInSe ₂ /AlP heterostructures. <i>Journal of Materials Chemistry C</i> , 2020, 8, 4732-4742.	2.7	7
14	New insight into the structure-property relationships from chemical bonding analysis: Application to thermoelectric materials. <i>Journal of Solid State Chemistry</i> , 2020, 286, 121266.	1.4	11
15	Stability Investigation of Se- and Te-Substituted Tetrahedrite. <i>Journal of Electronic Materials</i> , 2020, 49, 3566-3576.	1.0	1
16	Atomic bonding and electronic stability of the binary sigma phase. <i>Journal of Alloys and Compounds</i> , 2019, 811, 152053.	2.8	7
17	A DFT study of the electronic, optical and topological properties of free and biaxially strained CuIn _{1-x} Al _x Se ₂ . <i>Journal of Materials Chemistry C</i> , 2019, 7, 5803-5815.	2.7	14
18	Influence of atomic mixing and atomic order on molar volume of the binary sigma phase. <i>Intermetallics</i> , 2018, 98, 95-105.	1.8	4

#	ARTICLE	IF	CITATIONS
19	Influence of atomic order on the enthalpy of formation and bulk modulus of the sigma phase. Fluid Phase Equilibria, 2018, 459, 238-243.	1.4	6
20	Influence of nearest neighbor atoms and coordination polyhedron on atomic volume of sigma phases. Computational Materials Science, 2018, 143, 308-315.	1.4	3
21	Influencing factors of atomic order in the binary sigma phase. Intermetallics, 2018, 93, 6-19.	1.8	8
22	Oleylamine-assisted solvothermal synthesis of copper antimony sulfide nanocrystals: Morphology and phase control. Materials Research Bulletin, 2017, 90, 188-194.	2.7	7
23	Modeling of adsorption of CO ₂ in the deformed pores of MIL-53(Al). Journal of Molecular Modeling, 2017, 23, 101.	0.8	9
24	Strain-induced electronic band convergence: effect on the Seebeck coefficient of Mg ₂ Si for thermoelectric applications. Journal of Molecular Modeling, 2017, 23, 130.	0.8	7
25	Heterogeneous melting of methane confined in nano-pores. Journal of Chemical Physics, 2016, 145, 144704.	1.2	8
26	Low temperature mechanism of adsorption of methane: Comparison between homogenous and heterogeneous pores. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2016, 496, 86-93.	2.3	11
27	Simulation of liquid-liquid interfaces in porous media. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2016, 496, 28-38.	2.3	6
28	Polycrystalline Mg ₂ Si thin films: A theoretical investigation of their electronic transport properties. Journal of Solid State Chemistry, 2015, 225, 174-180.	1.4	5
29	Thermoelectric Properties of Sn-Containing Mg ₂ Si Nanostructures. Journal of Physical Chemistry C, 2015, 119, 17515-17521.	1.5	5
30	Efficiency assessment of novel materials based flexible thermoelectric devices by a multiscale modeling approach. Computational Materials Science, 2015, 108, 264-269.	1.4	8
31	Inserting Tin or Antimony Atoms into Mg ₂ Si: Effect on the Electronic and Thermoelectric Properties. Journal of Electronic Materials, 2015, 44, 4452-4464.	1.0	5
32	Calculations of thermoelectric properties: Mg ₂ Si under uniaxial [110] strains versus (110)-oriented thin film. European Physical Journal B, 2015, 88, 1.	0.6	4
33	Electronic and transport properties of Mg ₂ Si under isotropic strains. Intermetallics, 2014, 50, 8-13.	1.8	20
34	Substitutional Atom Influence on the Electronic and Transport Properties of Mn ₄ Si ₇ . Journal of Electronic Materials, 2014, 43, 761-773.	1.0	10
35	DFT calculations of electronic and transport properties of substituted Mn ₄ Si ₇ . Journal of Alloys and Compounds, 2014, 584, 279-288.	2.8	15
36	Thermoelectric Properties of Mg ₂ Si Thin Films by Computational Approaches. Journal of Physical Chemistry C, 2014, 118, 19635-19645.	1.5	24

#	ARTICLE	IF	CITATIONS
37	Linear Thermal Expansion Coefficients of Higher Manganese Silicide Compounds. <i>Physics Procedia</i> , 2014, 55, 24-29.	1.2	10
38	Computational Investigation of the Electronic and Thermoelectric Properties of Strained Bulk Mg ₂ Si. <i>Journal of Electronic Materials</i> , 2014, 43, 3801-3807.	1.0	7
39	Investigation of New Routes for the Synthesis of Mn ₄ Si ₇ . <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2013, 44, 1645-1650.	1.1	5
40	Phase formation in Mn ^δ Si thin films during rapid thermal annealing. <i>Intermetallics</i> , 2013, 37, 69-75.	1.8	5
41	Phase transformations in Higher Manganese Silicides. <i>Journal of Alloys and Compounds</i> , 2013, 551, 30-36.	2.8	24
42	Mechanism of adsorption of p-cresol uremic toxin into faujasite zeolites in presence of water and sodium cations – A Monte Carlo study. <i>Microporous and Mesoporous Materials</i> , 2013, 173, 70-77.	2.2	13
43	Grand canonical monte carlo modeling of hydrogen adsorption on phosphorus-doped open carbon framework. <i>Adsorption</i> , 2013, 19, 869-877.	1.4	6
44	Effect of Biaxial Strain on Electronic and Thermoelectric Properties of Mg ₂ Si. <i>Journal of Electronic Materials</i> , 2013, 42, 3458-3466.	1.0	17
45	Computational investigation of the adsorption of carbon dioxide onto zirconium oxide clusters. <i>Journal of Molecular Modeling</i> , 2012, 18, 4819-4830.	0.8	10
46	Hypothetical High-Surface-Area Carbons with Exceptional Hydrogen Storage Capacities: Open Carbon Frameworks. <i>Journal of the American Chemical Society</i> , 2012, 134, 15130-15137.	6.6	66
47	Low-dimensional materials for thermoelectric applications. <i>International Journal of Nanotechnology</i> , 2012, 9, 368.	0.1	2
48	Adsorption of Carbon Dioxide on Mesoporous Zirconia: Microcalorimetric Measurements, Adsorption Isotherm Modeling, and Density Functional Theory Calculations. <i>Journal of Physical Chemistry C</i> , 2011, 115, 10097-10103.	1.5	43
49	Electronic properties of the Mg ₂ Si thermoelectric material investigated by linear-response density-functional theory. <i>Computational Materials Science</i> , 2011, 50, 847-851.	1.4	46
50	Electronic properties of Zn _{1-x} Cd _x Sb solid solution investigated by density-functional theory. <i>Calphad: Computer Coupling of Phase Diagrams and Thermochemistry</i> , 2011, 35, 639-642.	0.7	0
51	Dielectric, magnetic, and phonon properties of nickel hydroxide. <i>Physical Review B</i> , 2011, 84, .	1.1	99
52	Influence of the modified Becke-Johnson exchange potential on thermoelectric properties: Application to Mg ₂ Si. <i>Journal of Chemical Physics</i> , 2011, 135, 234702.	1.2	26
53	Structural investigation of the Zn _{1-x} Cd _x Sb solid solution by density-functional theory approach. <i>Solid State Sciences</i> , 2010, 12, 26-32.	1.5	6
54	Adsorption of paracresol in silicalite-1 and pure silica faujasite. A comparison study using molecular simulation. <i>Applied Surface Science</i> , 2010, 256, 5470-5474.	3.1	5

#	ARTICLE	IF	CITATIONS
55	Adsorption into the MFI zeolite of aromatic molecule of biological relevance. Investigations by Monte Carlo simulations. <i>Journal of Molecular Modeling</i> , 2009, 15, 573-579.	0.8	7
56	Molecular Simulations of Water and Paracresol in MFI Zeolite - A Monte Carlo Study. <i>Langmuir</i> , 2009, 25, 11598-11607.	1.6	12
57	Modeling of adsorption in pores with strongly heterogeneous walls: parametric lattice-site wall model. <i>Adsorption</i> , 2008, 14, 201-205.	1.4	4
58	Adsorption of small uremic toxin molecules on MFI type zeolites from aqueous solution. <i>Adsorption</i> , 2008, 14, 377-387.	1.4	38
59	A critical appraisal of polymer-clay nanocomposites. <i>Chemical Society Reviews</i> , 2008, 37, 568-594.	18.7	369
60	Microscopic Mechanism of Adsorption in Cylindrical Nanopores with Heterogenous Wall Structure. <i>Langmuir</i> , 2008, 24, 4013-4019.	1.6	21
61	Gaining Insight into the Structure and Dynamics of Clay-Polymer Nanocomposite Systems Through Computer Simulation. , 2008, , 175-203.		0
62	Large-scale simulations of poly(propylene oxide)amine/Na ⁺ -montmorillonite and poly(propylene oxide) ammonium/Na ⁺ -montmorillonite using a molecular dynamics approach. <i>Studies in Surface Science and Catalysis</i> , 2007, , 311-318.	1.5	0
63	Adsorption of small uremic toxin molecules onto zeolites: a first step towards an alternative kidney. <i>Studies in Surface Science and Catalysis</i> , 2007, 170, 1015-1020.	1.5	6
64	Adsorption in cylindrical pores: Mixed lattice-site/off-site Monte Carlo simulations in pores with heterogeneous wall structure. <i>Applied Surface Science</i> , 2007, 253, 5596-5600.	3.1	13
65	Melting mechanism of monolayers adsorbed in cylindrical pores: An influence of the pore wall roughness. <i>Applied Surface Science</i> , 2007, 253, 5601-5605.	3.1	4
66	Adsorption of the uremic toxin p-cresol onto hemodialysis membranes and microporous adsorbent zeolite silicalite. <i>Journal of Biotechnology</i> , 2006, 123, 164-173.	1.9	51
67	Intercalation and in situ polymerization of poly(alkylene oxide) derivatives within M ⁺ -montmorillonite (M = Li, Na, K). <i>Journal of Materials Chemistry</i> , 2006, 16, 1082.	6.7	45
68	Recent advances in understanding the structure and reactivity of clays using electronic structure calculations. <i>Computational and Theoretical Chemistry</i> , 2006, 762, 33-48.	1.5	77
69	Morphology and elastic modulus of novel poly[oligo(ethylene glycol) diacrylate]-montmorillonite nanocomposites. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2005, 43, 1785-1793.	2.4	9
70	Interlayer Structure and Bonding in Nonswelling Primary Amine Intercalated Clays. <i>Macromolecules</i> , 2005, 38, 6189-6200.	2.2	73
71	Simulation of hydrated Li ⁺ , Na ⁺ - and K ⁺ -montmorillonite/polymer nanocomposites using large-scale molecular dynamics. <i>Chemical Physics Letters</i> , 2004, 389, 261-267.	1.2	45
72	Understanding the Formation of New Clusters of Alkali and Alkaline Earth Metals: A New Synthetic Approach, Single-Crystal Structures, and Theoretical Calculations. <i>Journal of the American Chemical Society</i> , 2003, 125, 3593-3604.	6.6	35

#	ARTICLE	IF	CITATIONS
73	Combined experimental and theoretical investigations of clay-polymer nanocomposites: intercalation of single bifunctional organic compounds in Na ⁺ -montmorillonite and Na ⁺ -hectorite clays for the design of new materials. <i>Journal of Materials Chemistry</i> , 2003, 13, 2540-2550.	6.7	55
74	Oxidation of Methanol to Formaldehyde Catalyzed by V ₂ O ₅ . A Density Functional Theory Study. <i>Journal of Physical Chemistry B</i> , 2002, 106, 9659-9667.	1.2	23
75	DFT Investigation of Metal Complexes Containing a Nitrosyl Ligand. 1. Ground State and Metastable States. <i>Journal of Physical Chemistry A</i> , 2001, 105, 8991-8998.	1.1	37
76	DFT Investigation of Metal Complexes Containing a Nitrosyl Ligand. 2. Excited States. <i>Journal of Physical Chemistry A</i> , 2001, 105, 8999-9003.	1.1	34
77	Photochemistry of the CpNiNO Complex. A Theoretical Study Using Density Functional Theory. <i>Inorganic Chemistry</i> , 2001, 40, 7032-7039.	1.9	21
78	Absorption Spectra of Several Metal Complexes Revisited by the Time-Dependent Density-Functional Theory-Response Theory Formalism. <i>Journal of Physical Chemistry A</i> , 2001, 105, 885-894.	1.1	96
79	Absorption and emission spectroscopy of matrix-isolated benzo[g,h,i]perylene: An experimental and theoretical study for astrochemical applications. <i>Journal of Chemical Physics</i> , 2001, 115, 1769-1776.	1.2	23
80	Reply to Comment on "Theoretical study of interstellar hydroxylamine chemistry: protonation and proton transfer mediated by H ₂ " [Chem. Phys. 253 (2000) 389-390]. <i>Chemical Physics</i> , 2000, 253, 391-392.	0.9	0
81	Density Functional Theory Calculations of the Oxidative Dehydrogenation of Propane on the (010) Surface of V ₂ O ₅ . <i>Journal of Physical Chemistry B</i> , 2000, 104, 12250-12255.	1.2	74
82	Theoretical study of interstellar hydroxylamine chemistry: protonation and proton transfer mediated by H ₃ ⁺ . <i>Chemical Physics</i> , 1999, 244, 163-174.	0.9	21