

HÃ©lio Anderson Duarte

List of Publications by Year in descending order

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128
papers

4,232
citations

109321

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60
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docs citations

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times ranked

5250
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Arsenic adsorption on Mn ₃ O ₄ surface: As(OH) ₃ /AsO(OH) ₃ oxidation mechanism. Applied Surface Science, 2022, 580, 152213. | 6.1 | 6 |
| 2 | Growing Mechanism of Polysulfides and Elemental Sulfur Formation: Implications to Hindered Chalcopyrite Dissolution. Journal of Physical Chemistry A, 2022, 126, 1660-1665. | 2.5 | 4 |
| 3 | Unveiling the Zirconium and Hafnium Speciation in Fluoride-Nitric Acid Solutions by Paper Spray Ionization Mass Spectrometry Combined with DFT Calculations. European Journal of Inorganic Chemistry, 2021, 2021, 1175-1185. | 2.0 | 1 |
| 4 | A simple and efficient method for simultaneous quantification of levodopa and carbidopa based on controlled oxidation process. Chemical Papers, 2021, 75, 3091-3102. | 2.2 | 2 |
| 5 | Experimental and theoretical studies of the adsorption of Cu and Ni ions from wastewater by hydroxyapatite derived from eggshells. Environmental Nanotechnology, Monitoring and Management, 2021, 15, 100439. | 2.9 | 20 |
| 6 | Comparative DFT study of the oxy(hydr)oxides of iron and aluminum - structural, electronic and surface properties.. Surface Science, 2021, 708, 121821. | 1.9 | 3 |
| 7 | Accurate SCC-DFTB Parametrization for Bulk Water. Journal of Chemical Theory and Computation, 2020, 16, 1768-1778. | 5.3 | 17 |
| 8 | The effect of the heteroatom (X=P, As, Si and Ge) on the geometrical and electronic properties of Î±-Keggin polyoxometalates (M=Mo, W and Nb) - A DFT investigation. Journal of Molecular Structure, 2020, 1213, 128159. | 3.6 | 12 |
| 9 | Determination of an adequate bornite model for computational simulations - Cu ₅ FeS ₄ or Cu ₈ Fe ₄ S ₈ . Journal of Molecular Structure, 2019, 1184, 72-78. | 3.6 | 0 |
| 10 | Uranium separation from acid mine drainage using anionic resins - An experimental/theoretical investigation of its chemical speciation and the interaction mechanism. Journal of Environmental Chemical Engineering, 2019, 7, 102790. | 6.7 | 11 |
| 11 | Investigation on the cytotoxic effects of nitrogen-mustard-derived Schiff bases. Studies on the reactivity of the N-mustard pharmacophoric group. Journal of Molecular Structure, 2019, 1178, 274-284. | 3.6 | 6 |
| 12 | The stability and mechanism of cerium complexation with humic substances from poultry manure - A combined experimental/theoretical approach. Journal of Molecular Structure, 2019, 1178, 290-297. | 3.6 | 5 |
| 13 | FERRO - UM ELEMENTO QUÃMICO ESTRATÃGICO QUE PERMEIA HISTÃRIA, ECONOMIA E SOCIEDADE. Quimica Nova, 2019, , . | 0.3 | 3 |
| 14 | Unveiling the Structural and Electronic Properties of the B-Nb ₂ O ₅ Surfaces and Their Interaction with H ₂ O and H ₂ O ₂ . Journal of Physical Chemistry C, 2018, 122, 6618-6628. | 3.1 | 18 |
| 15 | Peroxonioabium inhibits leukemia cell growth. RSC Advances, 2018, 8, 10310-10313. | 3.6 | 10 |
| 16 | Adsorption of water, sulfates and chloride on arsenopyrite surface. Applied Surface Science, 2018, 434, 389-399. | 6.1 | 20 |
| 17 | Stability, Structural, and Electronic Properties of Hausmannite (Mn ₃ O ₄) Surfaces and Their Interaction with Water. Journal of Physical Chemistry C, 2018, 122, 20841-20849. | 3.1 | 55 |
| 18 | X-ray Absorption Near-Edge Spectroscopy Calculations on Pristine and Modified Chalcopyrite Surfaces. Journal of Physical Chemistry C, 2018, 122, 20200-20209. | 3.1 | 8 |

| # | ARTICLE | IF | CITATIONS |
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| 37 | Pyrite Oxidation Mechanism by Oxygen in Aqueous Medium. <i>Journal of Physical Chemistry C</i> , 2016, 120, 2760-2768. | 3.1 | 103 |
| 38 | Structural, Electronic, and Mechanical Properties of Inner Surface Modified Imogolite Nanotubes. <i>Frontiers in Materials</i> , 2015, 2, . | 2.4 | 12 |
| 39 | Electronic and structural properties of bulk arsenopyrite and its cleavage surfaces â€“ a DFT study. <i>RSC Advances</i> , 2015, 5, 2013-2023. | 3.6 | 34 |
| 40 | Nanotubes with well-defined structure: imogolites. <i>Chemical Modelling</i> , 2015, , 151-183. | 0.4 | 2 |
| 41 | Effect of Hydrogen in Adsorption and Direct Dissociation of CO on Fe (100) Surface: A DFT Study. <i>American Journal of Analytical Chemistry</i> , 2015, 06, 38-46. | 0.9 | 7 |
| 42 | Benzocaine Complexation with <i>1</i> -Sulfonic Acid Calix[<i>n</i>]arene: Experimental (¹ H-NMR) and Theoretical Approaches. <i>Chemical Biology and Drug Design</i> , 2014, 83, 550-559. | 3.2 | 18 |
| 43 | Native Defects in $\hat{I}\pm$ -Mo ₂ C: Insights from First-Principles Calculations. <i>Journal of Physical Chemistry C</i> , 2014, 118, 25517-25524. | 3.1 | 20 |
| 44 | Nanotubes With Well-Defined Structure: Single- and Double-Walled Imogolites. <i>Journal of Physical Chemistry C</i> , 2014, 118, 5945-5953. | 3.1 | 45 |
| 45 | First-Principles Calculations and Electron Density Topological Analysis of Covellite (CuS). <i>Journal of Physical Chemistry A</i> , 2014, 118, 5823-5831. | 2.5 | 111 |
| 46 | Structural, mechanical and electronic properties of nano-fibriform silica and its organic functionalization by dimethyl silane: a SCC-DFTB approach. <i>Journal of Molecular Modeling</i> , 2013, 19, 1995-2005. | 1.8 | 5 |
| 47 | Mechanism of Alcoholâ€“Water Separation in Metalâ€“Organic Frameworks. <i>Journal of Physical Chemistry C</i> , 2013, 117, 4124-4130. | 3.1 | 33 |
| 48 | Imogolite-like nanotubes: structure, stability, electronic and mechanical properties of the phosphorous and arsenic derivatives. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 4303. | 2.8 | 25 |
| 49 | Methane Dehydrogenation by Niobium Ions: A First-Principles Study of the Gas-Phase Catalytic Reactions. <i>Organometallics</i> , 2013, 32, 989-999. | 2.3 | 24 |
| 50 | Chemical Speciation of Metal Complexes from Chemical Shift Calculations: The Interaction of 2-Amino-N-hydroxypropanamide with V(V) in Aqueous Solution. <i>Journal of Physical Chemistry B</i> , 2013, 117, 11670-11680. | 2.6 | 0 |
| 51 | Chapter 6. Surface reactivity of the sulfide minerals. <i>Chemical Modelling</i> , 2013, , 153-182. | 0.4 | 2 |
| 52 | Reconstruction of the Chalcopyrite Surfacesâ€“A DFT Study. <i>Journal of Physical Chemistry C</i> , 2012, 116, 6357-6366. | 3.1 | 94 |
| 53 | Structural, Electronic, and Mechanical Properties of Single-Walled Chrysotile Nanotube Models. <i>Journal of Physical Chemistry C</i> , 2012, 116, 9405-9411. | 3.1 | 37 |
| 54 | As(III) immobilization on gibbsite: Investigation of the complexation mechanism by combining EXAFS analyses and DFT calculations. <i>Geochimica Et Cosmochimica Acta</i> , 2012, 83, 205-216. | 3.9 | 56 |

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| 55 | Combined experimental powder X-ray diffraction and DFT data to obtain the lowest energy molecular conformation of friedelin. <i>Quimica Nova</i> , 2012, 35, 1916-1921. | 0.3 | 17 |
| 56 | Sulfuric and hydrochloric acid adsorption on the reconstructed sulfur terminated (001) chalcopyrite surface. <i>International Journal of Quantum Chemistry</i> , 2012, 112, 3216-3222. | 2.0 | 25 |
| 57 | Interaction between bradykinin potentiating nonapeptide (BPP9a) and β -cyclodextrin: A structural and thermodynamic study. <i>Materials Science and Engineering C</i> , 2012, 32, 244-253. | 7.3 | 9 |
| 58 | Water Adsorption on the Reconstructed (001) Chalcopyrite Surfaces. <i>Journal of Physical Chemistry C</i> , 2011, 115, 10709-10717. | 3.1 | 50 |
| 59 | Stability of hydroxylamine isomers in aqueous solution: Ab initio study using continuum, cluster-continuum and Shells Theory of Solvation. <i>Chemical Physics Letters</i> , 2011, 518, 61-64. | 2.6 | 15 |
| 60 | Structural characteristics of chalcopyrite from a Cu(Au) ore deposit in the Carajás Mineral Province, Brazil. <i>Hyperfine Interactions</i> , 2011, 203, 47-50. | 0.5 | 0 |
| 61 | DFT study of vanadyl (IV) complexes with low molecular mass ligands: Picolinate, oxalate, malonate, and maltolate. <i>International Journal of Quantum Chemistry</i> , 2011, 111, 1395-1402. | 2.0 | 7 |
| 62 | Structural, Electronic, and Mechanical Properties of Single-Walled Halloysite Nanotube Models. <i>Journal of Physical Chemistry C</i> , 2010, 114, 11358-11363. | 3.1 | 231 |
| 63 | Disulphide and metal sulphide formation on the reconstructed (0 0 1) surface of chalcopyrite: A DFT study. <i>Applied Surface Science</i> , 2010, 257, 1319-1324. | 6.1 | 67 |
| 64 | Self-Assembled Monolayers of Alkylphosphonic Acids on Aluminum Oxide Surfaces – A Theoretical Study. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2010, 636, 1506-1512. | 1.2 | 38 |
| 65 | Molecular Dynamics of Polypeptides and Their Inclusion Compounds with β -Cyclodextrin in Aqueous Solution Using DC-SCC-DFTB/UFF Approach. <i>Advances in Quantum Chemistry</i> , 2010, , 145-180. | 0.8 | 1 |
| 66 | Dynamical Discrete/Continuum Linear Response Shells Theory of Solvation: Convergence Test for NH_4^+ and OH^- Ions in Water Solution Using DFT and DFTB Methods. <i>Journal of Physical Chemistry B</i> , 2010, 114, 15941-15947. | 2.6 | 20 |
| 67 | Dehydrogenation of Methane by Gas-Phase Th, Th^+ , and Th^{2+} : Theoretical Insights into Actinide Chemistry. <i>Organometallics</i> , 2010, 29, 3735-3745. | 2.3 | 35 |
| 68 | Density-functional based tight-binding: an approximate DFT method. <i>Journal of the Brazilian Chemical Society</i> , 2009, 20, 1193-1205. | 0.6 | 177 |
| 69 | Conformational study of $3\beta,16\beta$ -dihydroxyfriedelane by NMR and ab initio calculations. <i>Structural Chemistry</i> , 2009, 20, 1005-1011. | 2.0 | 4 |
| 70 | Platinum(II) complexes with fluoroquinolones: Synthesis and characterization of unusual metal-piperazine chelates. <i>Inorganica Chimica Acta</i> , 2009, 362, 2060-2064. | 2.4 | 39 |
| 71 | Gas-Phase Methane Activation by the Ac^+Pu^+ Ions: Theoretical Insights into the Role of 5f Electrons/Orbitals in Early Actinide Chemistry. <i>Organometallics</i> , 2009, 28, 3203-3211. | 2.3 | 27 |
| 72 | On the nature of the interaction between H_2 and metal-organic frameworks. <i>Theoretical Chemistry Accounts</i> , 2008, 120, 543-550. | 1.4 | 36 |

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| 73 | DFT/PCM investigation of the Mn(II) chemical speciation in aqueous solution. <i>International Journal of Quantum Chemistry</i> , 2008, 108, 2467-2475. | 2.0 | 13 |
| 74 | H ₂ Adsorption in Metal-Organic Frameworks: Dispersion or Electrostatic Interactions?. <i>Chemistry - A European Journal</i> , 2008, 14, 6597-6600. | 3.3 | 69 |
| 75 | Adsorption of phosphonic and ethylphosphonic acid on aluminum oxide surfaces. <i>Surface Science</i> , 2008, 602, 1347-1359. | 1.9 | 97 |
| 76 | Global optimization analysis of Cu _n Al _m (n+m=38) clusters: Complementary ab initio calculations. <i>Chemical Physics</i> , 2008, 349, 91-97. | 1.9 | 23 |
| 77 | Antioxidant activity of (+)-bergenin—a phytoconstituent isolated from the bark of <i>Sacoglottis uchi</i> Huber (Humiraceae). <i>Organic and Biomolecular Chemistry</i> , 2008, 6, 2713. | 2.8 | 48 |
| 78 | The iodide-catalyzed decomposition of hydrogen peroxide: mechanistic details of an old reaction as revealed by electrospray ionization mass spectrometry monitoring. <i>Journal of the Brazilian Chemical Society</i> , 2008, 19, 1105-1110. | 0.6 | 14 |
| 79 | Structure and Dynamics of Angiotensin (1-7) Vasoactive Peptide in Aqueous Solution at the Density-Functional Based Tight-Binding Level. <i>Macromolecular Symposia</i> , 2007, 254, 80-86. | 0.7 | 0 |
| 80 | Study of angiotensin-(1-7) vasoactive peptide and its β -cyclodextrin inclusion complexes: Complete sequence-specific NMR assignments and structural studies. <i>Peptides</i> , 2007, 28, 2199-2210. | 2.4 | 104 |
| 81 | Structure and Dynamics of β -Cyclodextrin in Aqueous Solution at the Density-Functional Tight Binding Level. <i>Journal of Physical Chemistry A</i> , 2007, 111, 5648-5654. | 2.5 | 34 |
| 82 | Structural and Thermodynamic Analysis of the First Mononuclear Aqueous Aluminum Citrate Complex Using DFT Calculations. <i>Journal of Chemical Theory and Computation</i> , 2007, 3, 930-937. | 5.3 | 31 |
| 83 | Imogolite Nanotubes: Stability, Electronic, and Mechanical Properties. <i>ACS Nano</i> , 2007, 1, 362-368. | 14.6 | 172 |
| 84 | Fe(II) hydrolysis in aqueous solution: A DFT study. <i>Chemical Physics</i> , 2007, 333, 10-17. | 1.9 | 40 |
| 85 | Raman spectroscopy and DFT calculations of As(III) complexation with a cysteine-rich biomaterial. <i>Journal of Colloid and Interface Science</i> , 2007, 315, 128-134. | 9.4 | 33 |
| 86 | Monte Carlo Simulation of Cisplatin Molecule in Aqueous Solution. <i>Journal of Physical Chemistry B</i> , 2006, 110, 12047-12054. | 2.6 | 55 |
| 87 | Density-Functional Theory Study of Iron(III) Hydrolysis in Aqueous Solution. <i>Journal of Physical Chemistry A</i> , 2006, 110, 7713-7718. | 2.5 | 55 |
| 88 | Synthesis and density functional calculations of the new molecule-based magnet precursor [Fe(H ₂ opba-i)(dms _o) ₂]Cl. <i>Journal of the Brazilian Chemical Society</i> , 2006, 17, 1534-1539. | 0.6 | 6 |
| 89 | An approach based on genetic algorithms and DFT for studying clusters: (H ₂ O) _n (2 ≤ n ≤ 13) cluster analysis. <i>Chemical Physics</i> , 2006, 323, 553-562. | 1.9 | 17 |
| 90 | Structural model of arsenic(III) adsorbed on gibbsite based on DFT calculations. <i>Computational and Theoretical Chemistry</i> , 2006, 762, 17-23. | 1.5 | 37 |

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| 91 | Theoretical study of the propagation barrier of ethylene polymerization with TiR ₂ (R=OCH ₃ or CN): The importance of the $\hat{\nu}^2$ -agostic interactions. Computational and Theoretical Chemistry, 2006, 762, 9-15. | 1.5 | 5 |
| 92 | Spironolactone and its Complexes with $\hat{\nu}^2$ -cyclodextrin: Modern NMR Characterization and Structural DFTB-SCC Calculations. Journal of Inclusion Phenomena and Macrocyclic Chemistry, 2006, 56, 293-302. | 1.6 | 12 |
| 93 | DFT study of the V(IV)/V(V) oxidation mechanism in the presence of N-hydroxyacetamide. Journal of Inorganic Biochemistry, 2005, 99, 1708-1716. | 3.5 | 8 |
| 94 | Interaction of $\hat{\nu}^2$ -CCLx (x=1-3) with Ru ₂ and RuSn dimers: a density functional study. Chemical Physics, 2005, 309, 15-22. | 1.9 | 1 |
| 95 | Structural and Electronic Properties of Bulk Gibbsite and Gibbsite Surfaces. ChemInform, 2005, 36, no. | 0.0 | 0 |
| 96 | DFT $\hat{\nu}^2$ -TB $\hat{\nu}^2$ a unified quantum-mechanical hybrid method. Theoretical Chemistry Accounts, 2005, 114, 68-75. | 1.4 | 5 |
| 97 | Structural and Electronic Properties of Bulk Gibbsite and Gibbsite Surfaces. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2005, 631, 1267-1271. | 1.2 | 63 |
| 98 | An Efficienta Posteriori Treatment for Dispersion Interaction in Density-Functional-Based Tight Binding. Journal of Chemical Theory and Computation, 2005, 1, 841-847. | 5.3 | 275 |
| 99 | Elucidation of inclusion compounds between $\hat{\nu}^2$ -cyclodextrin/local anaesthetics structure: a theoretical and experimental study using differential scanning calorimetry and molecular mechanics. Computational and Theoretical Chemistry, 2004, 678, 63-66. | 1.5 | 23 |
| 100 | Tunable discotic building blocks for liquid crystalline displays. Journal of Luminescence, 2004, 108, 143-147. | 3.1 | 12 |
| 101 | pKa calculation of poliprotic acid: histamine. Chemical Physics Letters, 2004, 383, 47-52. | 2.6 | 49 |
| 102 | Ab initio correlated comparative study of the torsional potentials for 2,2'-bipyrrrole and 2,2'-bifuran five membered heterocyclic dimers. Chemical Physics Letters, 2003, 369, 114-124. | 2.6 | 24 |
| 103 | Density functional study of the MoxOy and MoxOy+ (x=1-3; y=1-9) oxide clusters. Chemical Physics Letters, 2003, 372, 650-658. | 2.6 | 34 |
| 104 | Chemical nature of point defects at the (VO) 2 P 2 O 7 (100) surface. Surface Science, 2003, 538, 160-170. | 1.9 | 8 |
| 105 | Potentiometric, spectrophotometric and density functional study of the interaction of -hydroxyacetamide with oxovanadium(IV): the influence of ligand to the V(IV)/V(V) oxi-reduction reaction. Journal of Inorganic Biochemistry, 2003, 95, 14-24. | 3.5 | 13 |
| 106 | Interaction of M?Sn (M?Ru, Rh, Pd) dimers with CH ₂ and CF ₂ : A density functional study. International Journal of Quantum Chemistry, 2003, 95, 164-176. | 2.0 | 7 |
| 107 | Investigation of the quality of standard sulfur basis sets for molecules using a new generator coordinate method approach: Application to 2,2'-bithiophene. International Journal of Quantum Chemistry, 2003, 95, 194-204. | 2.0 | 1 |
| 108 | Propagation of flicker in electric power networks due to wind energy conversions systems. IEEE Transactions on Energy Conversion, 2002, 17, 267-272. | 5.2 | 54 |

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| 109 | Changes of local electronic structure of perfect (VO) ₂ P ₂ O ₇ (<i>l</i>) surface in response to oxygen vacancy formation: effect of electron trapping. <i>Surface Science</i> , 2002, 513, 367-380. | 1.9 | 15 |
| 110 | Mechanism of anion retention from EXAFS and density functional calculations: arsenic (V) adsorbed on gibbsite. <i>Geochimica Et Cosmochimica Acta</i> , 2001, 65, 1211-1217. | 3.9 | 187 |
| 111 | Density functional study of the first-row transition-metal complexes M ⁺ CH ₂ , M ⁺ CHF, and M ⁺ CF ₂ . <i>Journal of Chemical Physics</i> , 2001, 115, 1747-1756. | 3.0 | 15 |
| 112 | Índices de reatividade química a partir da teoria do funcional de densidade: formalismo e perspectivas. <i>Química Nova</i> , 2001, 24, 501-508. | 0.3 | 6 |
| 113 | Quantum-mechanical study of the interaction of β -cyclodextrin with methyl mercury chloride. <i>Chemical Physics Letters</i> , 2000, 319, 569-575. | 2.6 | 41 |
| 114 | Energy Gaps of β , γ -Substituted Oligothiophenes from Semiempirical, Ab Initio, and Density Functional Methods. <i>Journal of Physical Chemistry A</i> , 2000, 104, 8256-8262. | 2.5 | 114 |
| 115 | Improved quantum mechanical study of the potential energy surface for the bithiophene molecule. <i>Journal of Chemical Physics</i> , 2000, 113, 4206-4215. | 3.0 | 61 |
| 116 | Binary Iron ²⁺ Dinitrogen Compounds Synthesized by Co-deposition of Mass-Selected Fe, Fe ₂ , and Fe ₃ with N ₂ . <i>Journal of the American Chemical Society</i> , 2000, 122, 6039-6044. | 13.7 | 15 |
| 117 | A physicochemical study of the tetracycline coordination to oxovanadium(IV). <i>Journal of Inorganic Biochemistry</i> , 1999, 76, 221-230. | 3.5 | 26 |
| 118 | Importance of Tautomers in the Chemical Behavior of Tetracyclines. <i>Journal of Pharmaceutical Sciences</i> , 1999, 88, 111-120. | 3.3 | 105 |
| 119 | NO adsorption on Pd clusters. A density functional study. <i>Topics in Catalysis</i> , 1999, 9, 123-133. | 2.8 | 17 |
| 120 | Fe(N ₂) _n (n= 1-5): Δ Structure, Bonding, and Vibrations from Density Functional Theory. <i>Inorganic Chemistry</i> , 1999, 38, 3895-3903. | 4.0 | 29 |
| 121 | Interaction of N-hydroxyacetamide with vanadate: A density functional study. <i>Journal of Inorganic Biochemistry</i> , 1998, 72, 71-77. | 3.5 | 23 |
| 122 | Density functional study of the NO dimer using GGA and LAP functionals. <i>Journal of Chemical Physics</i> , 1998, 109, 26-35. | 3.0 | 47 |
| 123 | Embedded cluster model for chemisorption using density functional calculations: Oxygen adsorption on the Al(100) surface. <i>Journal of Chemical Physics</i> , 1998, 108, 743-756. | 3.0 | 29 |
| 124 | Density functional study of mononitrosyls of first-row transition-metal atoms. <i>Journal of Chemical Physics</i> , 1997, 106, 8778-8787. | 3.0 | 45 |
| 125 | NO/Ni, NO/Ni ₂ , and (NO) ₂ /Ni ₂ Interactions. A Density Functional Study. <i>Journal of Physical Chemistry B</i> , 1997, 101, 7464-7471. | 2.6 | 16 |
| 126 | Clay Mineral Nanotubes: Stability, Structure and Properties. , 0, , . | | 4 |

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| 127 | Modeling the oxidation mechanism of pyrite and arsenopyrite â€“ connection to acid rock drainage. Chemical Modelling, 0, , 162-194. | 0.4 | 0 |
| 128 | The Oxidation Mechanism of Pyrites and the Sustainable Exploration of the Mineral Resources â€“ The Computational Chemistry Contribution. Revista Virtual De Quimica, 0, , . | 0.4 | 0 |