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515
papers

16,644
citations

59
h-index

104
g-index

527
ext. papers

17,819
ext. citations

4.4
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6.6
L-index

| # | Paper | IF | Citations |
|-----|--|------|-----------|
| 515 | Hydrogen adsorption in a nickel based coordination polymer with open metal sites in the cylindrical cavities of the desolvated framework. <i>Chemical Communications</i> , 2006 , 959-61 | 5.8 | 555 |
| 514 | Theoretical investigation of magnetoelectric behavior in BiFeO ₃ . <i>Physical Review B</i> , 2006 , 74, | 3.3 | 501 |
| 513 | An in situ high-temperature single-crystal investigation of a dehydrated metal-organic framework compound and field-induced magnetization of one-dimensional metal-oxygen chains. <i>Angewandte Chemie - International Edition</i> , 2005 , 44, 6354-8 | 16.4 | 473 |
| 512 | Amine functionalised metal organic frameworks (MOFs) as adsorbents for carbon dioxide. <i>Adsorption</i> , 2008 , 14, 755-762 | 2.6 | 371 |
| 511 | Adsorption properties and structure of CO ₂ adsorbed on open coordination sites of metal-organic framework Ni ₂ (dhtp) from gas adsorption, IR spectroscopy and X-ray diffraction. <i>Chemical Communications</i> , 2008 , 5125-7 | 5.8 | 331 |
| 510 | Microstructures and Spectroscopic Properties of Cryptomelane-type Manganese Dioxide Nanofibers. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 13134-13140 | 3.8 | 328 |
| 509 | A comparison study on Raman scattering properties of alpha- and beta-MnO ₂ . <i>Analytica Chimica Acta</i> , 2009 , 648, 235-9 | 6.6 | 274 |
| 508 | Base-Induced Formation of Two Magnesium Metal-Organic Framework Compounds with a Bifunctional Tetratopic Ligand. <i>European Journal of Inorganic Chemistry</i> , 2008 , 2008, 3624-3632 | 2.3 | 267 |
| 507 | Crystal Structure and Possible Charge Ordering in One-Dimensional Ca ₃ Co ₂ O ₆ . <i>Journal of Solid State Chemistry</i> , 1996 , 124, 190-194 | 3.3 | 254 |
| 506 | Structural changes and coordinatively unsaturated metal atoms on dehydration of honeycomb analogous microporous metal-organic frameworks. <i>Chemistry - A European Journal</i> , 2008 , 14, 2389-97 | 4.8 | 219 |
| 505 | Magnetic properties of the one-dimensional Ca ₃ Co ₂ O ₆ . <i>Solid State Communications</i> , 1997 , 101, 187-192 | 1.6 | 214 |
| 504 | Electronic structure and optical properties of ZnX (X=O, S, Se, Te): A density functional study. <i>Physical Review B</i> , 2007 , 75, | 3.3 | 194 |
| 503 | Phase stability, electronic structure, and optical properties of indium oxide polytypes. <i>Physical Review B</i> , 2007 , 76, | 3.3 | 173 |
| 502 | Crystal structures of titanate nanotubes: a Raman scattering study. <i>Inorganic Chemistry</i> , 2009 , 48, 1423-32 | 3.1 | 171 |
| 501 | Large magnetocrystalline anisotropy in bilayer transition metal phases from first-principles full-potential calculations. <i>Physical Review B</i> , 2001 , 63, | 3.3 | 163 |
| 500 | Oxygen Nonstoichiometry in YBaCo ₄ O _{7+δ} Large Low-Temperature Oxygen Absorption/Desorption Capability. <i>Chemistry of Materials</i> , 2006 , 18, 490-494 | 9.6 | 161 |
| 499 | Pressure-induced structural transitions in MgH ₂ . <i>Physical Review Letters</i> , 2002 , 89, 175506 | 7.4 | 160 |

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| 498 | Equation of state of magnetite and its high-pressure modification: Thermodynamics of the Fe-O system at high pressure. <i>American Mineralogist</i> , 2000 , 85, 514-523 | 2.9 | 151 |
| 497 | Effect of Nonstoichiometry on Properties of $\text{La}_{1-x}\text{MnO}_3$. <i>Journal of Solid State Chemistry</i> , 1996 , 124, 43-51 | 3.3 | 146 |
| 496 | Energetics of intrinsic defects and their complexes in ZnO investigated by density functional calculations. <i>Physical Review B</i> , 2011 , 83, | 3.3 | 143 |
| 495 | Detailed electronic structure studies on superconducting MgB_2 and related compounds. <i>Physical Review B</i> , 2001 , 64, | 3.3 | 143 |
| 494 | Structural stability and pressure-induced phase transitions in MgH_2 . <i>Physical Review B</i> , 2006 , 73, | 3.3 | 134 |
| 493 | Structural stability of alkali boron tetrahydrides ABH_4 (A = Li, Na, K, Rb, Cs) from first principle calculation. <i>Journal of Alloys and Compounds</i> , 2005 , 387, 97-104 | 5.7 | 117 |
| 492 | Accurate structure of LiAlD_4 studied by combined powder neutron and X-ray diffraction. <i>Journal of Alloys and Compounds</i> , 2002 , 346, 184-189 | 5.7 | 117 |
| 491 | Evidence for Oxygen Vacancies in Misfit-Layered Calcium Cobalt Oxide, $[\text{CoCa}_2\text{O}_3]_q\text{CoO}_2$. <i>Chemistry of Materials</i> , 2004 , 16, 2790-2793 | 9.6 | 115 |
| 490 | On the Crystallographic and Magnetic Structures of Nearly Stoichiometric Iron Monoxide. <i>Journal of Solid State Chemistry</i> , 1996 , 124, 52-57 | 3.3 | 108 |
| 489 | Pressure-induced phase of NaAlH_4 : A potential candidate for hydrogen storage?. <i>Applied Physics Letters</i> , 2003 , 82, 2257-2259 | 3.4 | 107 |
| 488 | Ground-state and excited-state properties of LaMnO_3 from full-potential calculations. <i>Physical Review B</i> , 2002 , 65, | 3.3 | 103 |
| 487 | Growth of thin films of molybdenum oxide by atomic layer deposition. <i>Journal of Materials Chemistry</i> , 2011 , 21, 705-710 | | 102 |
| 486 | Itinerant metamagnetism and possible spin transition in LaCoO_3 by temperature/hole doping. <i>Journal of Applied Physics</i> , 2002 , 91, 291 | 2.5 | 97 |
| 485 | Theoretical investigations on the chemical bonding, electronic structure, and optical properties of the metal-organic framework MOF-5. <i>Inorganic Chemistry</i> , 2010 , 49, 10283-90 | 5.1 | 95 |
| 484 | Growth of Fe_2O_3 thin films by atomic layer deposition. <i>Thin Solid Films</i> , 2005 , 488, 74-81 | 2.2 | 94 |
| 483 | Synthesis of Metastable Perovskite-type YMnO_3 and HoMnO_3 . <i>Journal of Solid State Chemistry</i> , 1997 , 129, 334-340 | 3.3 | 93 |
| 482 | Nanocrystalline Orthoferrite GdFeO_3 from a Novel Heterobimetallic Precursor. <i>Advanced Materials</i> , 2002 , 14, 1405-1409 | 24 | 93 |
| 481 | Crystal and magnetic structure of orthorhombic HoMnO_3 . <i>Physical Review B</i> , 2001 , 63, | 3.3 | 93 |

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| 480 | Deposition of thin films of organic-inorganic hybrid materials based on aromatic carboxylic acids by atomic layer deposition. <i>Dalton Transactions</i> , 2010 , 39, 11628-35 | 4.3 | 92 |
| 479 | Growth of manganese oxide thin films by atomic layer deposition. <i>Thin Solid Films</i> , 2003 , 444, 44-51 | 2.2 | 87 |
| 478 | Huge-pressure-induced volume collapse in LiAlH ₄ and its implications to hydrogen storage. <i>Physical Review B</i> , 2003 , 68, | 3.3 | 85 |
| 477 | Short hydrogen-hydrogen separations in novel intermetallic hydrides, RE ₃ Ni ₃ In ₃ D ₄ (RE=La, Ce and Nd). <i>Journal of Alloys and Compounds</i> , 2002 , 330-332, 132-140 | 5.7 | 84 |
| 476 | Atomic Layer Deposition of Li ₂ O/Al ₂ O ₃ Thin Films. <i>Chemistry of Materials</i> , 2011 , 23, 4669-4675 | 9.6 | 82 |
| 475 | Low-temperature structural distortion in CuS. <i>Zeitschrift für Kristallographie</i> , 1988 , 184, 111-121 | | 82 |
| 474 | Coulomb correlation effects in zinc monochalcogenides. <i>Journal of Applied Physics</i> , 2006 , 100, 043709 | 2.5 | 80 |
| 473 | The decomposition of LiAlD ₄ studied by in-situ X-ray and neutron diffraction. <i>Journal of Alloys and Compounds</i> , 2003 , 351, 222-227 | 5.7 | 80 |
| 472 | Growth of thin films of Co ₃ O ₄ by atomic layer deposition. <i>Thin Solid Films</i> , 2007 , 515, 7772-7781 | 2.2 | 79 |
| 471 | How Crystallite Size Controls the Reaction Path in Nonaqueous Metal Ion Batteries: The Example of Sodium Bismuth Alloying. <i>Chemistry of Materials</i> , 2016 , 28, 2750-2756 | 9.6 | 79 |
| 470 | Lanthanum titanate and lithium lanthanum titanate thin films grown by atomic layer deposition. <i>Journal of Materials Chemistry</i> , 2010 , 20, 2877 | | 77 |
| 469 | Atomic layer deposition of lithium containing thin films. <i>Journal of Materials Chemistry</i> , 2009 , 19, 8767 | | 75 |
| 468 | Growth of Nano-Needles of Manganese(IV) Oxide by Atomic Layer Deposition. <i>Journal of Nanoscience and Nanotechnology</i> , 2008 , 8, 1003-1011 | 1.3 | 75 |
| 467 | Structural, Magnetic, and Thermal Properties of La _{1-x} Ca _x CrO ₃ . <i>Journal of Solid State Chemistry</i> , 1996 , 121, 202-213 | 3.3 | 75 |
| 466 | Synthesis and Properties of Layered-Structured Mn ₅ O ₈ Nanorods. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 922-928 | 3.8 | 74 |
| 465 | Structural properties of ZrTe ₅ and HfTe ₅ as seen by powder diffraction. <i>Solid State Communications</i> , 1986 , 60, 91-93 | 1.6 | 74 |
| 464 | On the crystal structure and magnetic properties of MnNiGe. <i>Journal of Magnetism and Magnetic Materials</i> , 1985 , 50, 291-297 | 2.8 | 69 |
| 463 | The high resolution Powder Neutron Diffractometer PUS at the JEEP II reactor at Kjeller in Norway. <i>Journal of Neutron Research</i> , 2000 , 8, 215-232 | 0.5 | 68 |

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| 462 | Electronic structure and optical properties of ZnSiO ₃ and Zn ₂ SiO ₄ . <i>Journal of Applied Physics</i> , 2009 , 106, 123701 | 2.5 | 65 |
| 461 | SAPO-34 methanol-to-olefin catalysts under working conditions: A combined in situ powder X-ray diffraction, mass spectrometry and Raman study. <i>Journal of Catalysis</i> , 2009 , 268, 290-296 | 7.3 | 63 |
| 460 | Structure and Magnetism of Pr _{1-x} Sr _x CoO ₃ . <i>Journal of Solid State Chemistry</i> , 1999 , 147, 464-477 | 3.3 | 63 |
| 459 | Raman scattering properties of a protonic titanate H _x Ti _{2-x/4} [symbol: see text] _{x/4} O ₄ .H ₂ O ([symbol: see text], vacancy; x=0.7) with lepidocrocite-type layered structure. <i>Journal of Physical Chemistry B</i> , 2008 , 112, 9400-5 | 3.4 | 61 |
| 458 | Crystal and Magnetic Structure of the Orthorhombic Perovskite YbMnO ₃ . <i>Chemistry of Materials</i> , 2006 , 18, 2130-2134 | 9.6 | 60 |
| 457 | Atomic layer deposition of organic-inorganic hybrid materials based on saturated linear carboxylic acids. <i>Dalton Transactions</i> , 2011 , 40, 4636-46 | 4.3 | 59 |
| 456 | Deposition of LaNiO ₃ thin films in an atomic layer epitaxy reactor. <i>Journal of Materials Chemistry</i> , 1997 , 7, 449-454 | | 59 |
| 455 | Growth of LaCoO ₃ thin films from β-diketonate precursors. <i>Applied Surface Science</i> , 1997 , 112, 243-250 | 6.7 | 59 |
| 454 | Atomic Layer Deposition of Spinel Lithium Manganese Oxide by Film-Body-Controlled Lithium Incorporation for Thin-Film Lithium-Ion Batteries. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 1258-1268 | 3.8 | 58 |
| 453 | High hydrogen content complex hydrides: A density-functional study. <i>Applied Physics Letters</i> , 2006 , 89, 071906 | 3.4 | 58 |
| 452 | Watching the methanol-to-olefin process with time- and space-resolved high-energy operando X-ray diffraction. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 7956-9 | 16.4 | 57 |
| 451 | Design of novel bilayer compounds of the CPO-8 type containing 1D channels. <i>Inorganic Chemistry</i> , 2006 , 45, 2424-9 | 5.1 | 57 |
| 450 | Violation of the minimum h-h separation "Rule" for metal hydrides. <i>Physical Review Letters</i> , 2002 , 89, 106403 | 7.4 | 57 |
| 449 | Uncommon oxygen intake/release capability of layered cobalt oxides, REBaCo ₄ O ₇ +δ. Novel oxygen-storage materials. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2008 , 148, 196-198 | 3.1 | 56 |
| 448 | Electronic structure and band parameters for Zn (, S, Se, Te). <i>Journal of Crystal Growth</i> , 2006 , 287, 162-168 | 6.8 | 56 |
| 447 | On the Crystal Structure of Ln ₂ O ₂ CO ₃ II (Ln=La and Nd). <i>Journal of Solid State Chemistry</i> , 2001 , 158, 14-24 | 3.3 | 56 |
| 446 | Structural and morphological evolution of beta-MnO ₂ nanorods during hydrothermal synthesis. <i>Nanotechnology</i> , 2009 , 20, 055610 | 3.4 | 55 |
| 445 | Characterization of Ni on La modified Al ₂ O ₃ catalysts during CO ₂ reforming of methane. <i>Applied Catalysis A: General</i> , 1997 , 165, 379-390 | 5.1 | 54 |

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| 444 | UiO-7: A New Aluminophosphate Phase Solved by Simulated Annealing and High-Resolution Powder Diffraction. <i>The Journal of Physical Chemistry</i> , 1996 , 100, 16641-16646 | | 52 |
| 443 | The iron member of the CPO-27 coordination polymer series: Synthesis, characterization, and intriguing redox properties. <i>Microporous and Mesoporous Materials</i> , 2012 , 157, 62-74 | 5.3 | 51 |
| 442 | Atomic layer deposition of ferroelectric LiNbO ₃ . <i>Journal of Materials Chemistry C</i> , 2013 , 1, 4283-4290 | 7.1 | 51 |
| 441 | Structural Properties of Co ₃ Sn ₂ , Ni ₃ Sn ₂ and Some Ternary Derivatives.. <i>Acta Chemica Scandinavica</i> , 1986 , 40a, 23-30 | | 51 |
| 440 | A scandium coordination polymer constructed from trimeric octahedral building blocks and 2,5-dihydroxyterephthalate. <i>Dalton Transactions</i> , 2006 , 2055-7 | 4.3 | 50 |
| 439 | Growth of calcium carbonate by the atomic layer chemical vapour deposition technique. <i>Thin Solid Films</i> , 2004 , 450, 240-247 | 2.2 | 50 |
| 438 | Design of Potential Hydrogen-Storage Materials Using First-Principle Density-Functional Calculations. <i>Crystal Growth and Design</i> , 2004 , 4, 471-477 | 3.5 | 50 |
| 437 | Chemical pressure and other effects of strontium substitution in YBa ₂ Cu ₃ O ₉ . <i>Journal of Solid State Chemistry</i> , 1991 , 92, 57-67 | 3.3 | 50 |
| 436 | Synthesis, Crystal Structure, and Thermal Properties of the First Mixed-Metal and Anion-Substituted Rare Earth Borohydride LiCe(BH ₄) ₃ Cl. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 23591-23602 | 3.8 | 49 |
| 435 | Microstructures, surface properties, and topotactic transitions of manganite nanorods. <i>Inorganic Chemistry</i> , 2009 , 48, 6242-50 | 5.1 | 49 |
| 434 | Precursor-Dependent Blue-Green Photoluminescence Emission of ZnO Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 25227-25233 | 3.8 | 48 |
| 433 | Synthesis and characterization of CPO-1; three-dimensional coordination polymers with 2,6-naphthalenedicarboxylate (ndc) ligands [M(ndc)(H ₂ O)], M=Mn(II), Zn(II) or Cd(II). <i>Solid State Sciences</i> , 2002 , 4, 443-447 | 3.4 | 48 |
| 432 | Tailor-made electronic and magnetic properties in one-dimensional pure and Y-substituted Ca ₃ Co ₂ O ₆ . <i>Physical Review Letters</i> , 2003 , 91, 186404 | 7.4 | 48 |
| 431 | Synthesis of oriented BiFeO ₃ thin films by chemical solution deposition: Phase, texture, and microstructural development. <i>Journal of Materials Research</i> , 2005 , 20, 2127-2139 | 2.5 | 48 |
| 430 | High-performing iron phosphate for enhanced lithium ion solid state batteries as grown by atomic layer deposition. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 9054-9059 | 13 | 47 |
| 429 | Growth of La _{1-x} CaxMnO ₃ thin films by atomic layer deposition. <i>Journal of Materials Chemistry</i> , 2007 , 17, 1466-1475 | | 47 |
| 428 | The crystal structure of KAlD ₄ . <i>Journal of Alloys and Compounds</i> , 2005 , 394, 35-38 | 5.7 | 47 |
| 427 | Structural stability of BeH ₂ at high pressures. <i>Applied Physics Letters</i> , 2004 , 84, 34-36 | 3.4 | 47 |

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| 426 | High power nano-structured V ₂ O ₅ thin film cathodes by atomic layer deposition. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 15044-15051 | 13 | 46 |
| 425 | Atomic layer deposition of Li _x Ti _y O _z thin films. <i>RSC Advances</i> , 2013 , 3, 7537-7542 | 3.7 | 46 |
| 424 | Epitaxial growth of cobalt oxide by atomic layer deposition. <i>Journal of Crystal Growth</i> , 2007 , 307, 457-465.6 | 46 | |
| 423 | Structure determination by use of pattern decomposition and the Rietveld method on synchrotron X-ray and neutron powder data; the structures of Al ₂ Y ₄ O ₉ and TiO ₄ . <i>Journal of Applied Crystallography</i> , 1987 , 20, 123-129 | 3.8 | 46 |
| 422 | Direct observation of catalyst behaviour under real working conditions with X-ray diffraction: Comparing SAPO-18 and SAPO-34 methanol to olefin catalysts. <i>Journal of Catalysis</i> , 2011 , 279, 397-402 | 7.3 | 45 |
| 421 | First-principles investigations of the MMgH ₃ (M=Li, Na, K, Rb, Cs) series. <i>Journal of Alloys and Compounds</i> , 2008 , 450, 327-337 | 5.7 | 45 |
| 420 | Effect of magnetic field on the growth of Fe-Fe ₂ O ₃ thin films by atomic layer deposition. <i>Applied Surface Science</i> , 2004 , 227, 40-47 | 6.7 | 45 |
| 419 | On the magnetic and structural properties of the MnAs _{1-x} P _x system (x=0.18). <i>Journal of Magnetism and Magnetic Materials</i> , 1984 , 46, 29-39 | 2.8 | 45 |
| 418 | Thin films of In ₂ O ₃ by atomic layer deposition using In(acac) ₃ . <i>Thin Solid Films</i> , 2009 , 517, 6320-6322 | 2.2 | 44 |
| 417 | The crystal structure of Cr ₈ O ₂₁ determined from powder diffraction data: Thermal transformation and magnetic properties of a chromium-chromate-tetrachromate. <i>Journal of Solid State Chemistry</i> , 1991 , 94, 281-293 | 3.3 | 44 |
| 416 | Atomic layer deposition of functional films for Li-ion microbatteries. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2014 , 211, 357-367 | 1.6 | 43 |
| 415 | Revisiting isoreticular MOFs of alkaline earth metals: a comprehensive study on phase stability, electronic structure, chemical bonding, and optical properties of A-IRMOF-1 (A = Be, Mg, Ca, Sr, Ba). <i>Physical Chemistry Chemical Physics</i> , 2011 , 13, 10191-203 | 3.6 | 43 |
| 414 | Unusual Photoluminescence of CaHfO ₃ and SrHfO ₃ Nanoparticles. <i>Advanced Functional Materials</i> , 2012 , 22, 1174-1179 | 15.6 | 42 |
| 413 | Synthesis, structure and magnetic properties of nanocrystalline YMnO ₃ . <i>Dalton Transactions</i> , 2011 , 40, 7583-9 | 4.3 | 42 |
| 412 | Crystal Structure and Magnetic Properties of La ₂ Co ₂ O ₅ . <i>Journal of Solid State Chemistry</i> , 1998 , 141, 411-417 | 417 | 42 |
| 411 | Short hydrogen-hydrogen separation in RNiInH _{1.333} (R=La, Ce, Nd). <i>Physical Review B</i> , 2003 , 67, | 3.3 | 42 |
| 410 | Re-examination of the Crystal Structure of ZrTe ₃ . <i>Acta Chemica Scandinavica</i> , 1991 , 45, 694-697 | | 42 |
| 409 | Thin Films of Cobalt Oxide Deposited on High Aspect Ratio Supports by Atomic Layer Deposition. <i>Chemical Vapor Deposition</i> , 2011 , 17, 135-140 | | 41 |

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| 408 | Crystal structure and phase relations for Mn ₃ Sn ₂ and non-stoichiometric Mn _{2-x} Sn. <i>Journal of Alloys and Compounds</i> , 1997 , 259, 140-144 | 5.7 | 41 |
| 407 | Magnetic-Instability-Induced Giant Magnetoelectric Coupling. <i>Advanced Materials</i> , 2008 , 20, 1353-1356 | 24 | 41 |
| 406 | Analytical model for island growth in atomic layer deposition using geometrical principles. <i>Journal of Applied Physics</i> , 2007 , 102, 024906 | 2.5 | 41 |
| 405 | Effect of substrate on the characteristics of manganese(IV) oxide thin films prepared by atomic layer deposition. <i>Thin Solid Films</i> , 2004 , 468, 65-74 | 2.2 | 41 |
| 404 | Crystal structure, thermal and magnetic properties of La ₃ Co ₃ O ₈ . Phase relations for LaCoO ₃ (0.000.50) at 673 K. <i>Journal of Materials Chemistry</i> , 1998 , 8, 2081-2088 | | 41 |
| 403 | In situ XRD characterization of LaNiAlO model catalysts for CO ₂ reforming of methane. <i>Applied Catalysis A: General</i> , 1996 , 145, 375-388 | 5.1 | 41 |
| 402 | Coordination Polymers Based on the 2,5-Dihydroxyterephthalate Ion and Alkaline Earth Metal (Ca, Sr) and Manganese Cations. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2009 , 635, 1953-1958 | 1.3 | 40 |
| 401 | Topological Properties of Titanate Nanotubes. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 8548-8552 | 3.8 | 40 |
| 400 | Delamination, synthesis, crystal structure and thermal properties of the layered metal-organic compound Zn(C ₁₂ H ₁₄ O ₄). <i>Journal of Materials Chemistry</i> , 2008 , 18, 1002 | | 40 |
| 399 | Functional Perovskites by Atomic Layer Deposition [An Overview]. <i>Advanced Materials Interfaces</i> , 2017 , 4, 1600903 | 4.6 | 39 |
| 398 | Chemical Structures of Specific Sodium Ion Battery Components Determined by Operando Pair Distribution Function and X-ray Diffraction Computed Tomography. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 11385-11389 | 16.4 | 39 |
| 397 | Crystal structure of KAlH ₄ from first principle calculations. <i>Journal of Alloys and Compounds</i> , 2004 , 363, L8-L12 | 5.7 | 39 |
| 396 | Structure, Water Uptake, and Electrical Conductivity of TiP ₂ O ₇ . <i>Journal of the American Ceramic Society</i> , 2011 , 94, 1514-1522 | 3.8 | 38 |
| 395 | Atomic layer deposition of lithium nitride and carbonate using lithium silylamide. <i>RSC Advances</i> , 2012 , 2, 6315 | 3.7 | 37 |
| 394 | Theoretical investigations on low energy surfaces and nanowires of MgH ₂ . <i>Nanotechnology</i> , 2008 , 19, 275704 | 3.4 | 37 |
| 393 | Electrical properties of Al ₂ O ₃ /H-SiC structures grown by atomic layer chemical vapor deposition. <i>Journal of Applied Physics</i> , 2007 , 102, 054513 | 2.5 | 37 |
| 392 | Monoclinic nearly stoichiometric wüstite at low temperatures. <i>American Mineralogist</i> , 2002 , 87, 347-349 | 2.9 | 37 |
| 391 | Structure and Magnetism of Pr _{1-x} Sr _x FeO ₃ . <i>Journal of Solid State Chemistry</i> , 2000 , 150, 233-249 | 3.3 | 37 |

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| 390 | Hydrogen storage properties of $\text{Mg}(\text{BH}_4)_2$ modified by MoO_3 and TiO_2 . <i>International Journal of Hydrogen Energy</i> , 2015 , 40, 12286-12293 | 6.7 | 36 |
| 389 | Structural stability and electronic structure for Li_3AlH_6 . <i>Physical Review B</i> , 2004 , 69, | 3.3 | 36 |
| 388 | Thin film deposition of lanthanum manganite perovskite by the ALE process. <i>Journal of Materials Chemistry</i> , 1999 , 9, 1781-1784 | | 36 |
| 387 | Combination of characterization techniques for atomic layer deposition MoO_3 coatings: From the amorphous to the orthorhombic β - MoO_3 crystalline phase. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2012 , 30, 01A107 | 2.9 | 35 |
| 386 | Defect Chemistry of a Zinc-Doped Lepidocrocite Titanate $\text{Cs}_x\text{Ti}_2\text{Zn}_{2x}/2\text{O}_4$ ($x = 0.7$) and its Protonic Form. <i>Chemistry of Materials</i> , 2009 , 21, 3503-3513 | 9.6 | 35 |
| 385 | The adsorption of methanol and water on SAPO-34: in situ and ex situ X-ray diffraction studies. <i>Microporous and Mesoporous Materials</i> , 2010 , 134, 210-215 | 5.3 | 35 |
| 384 | Neutron powder diffraction study of crystal and magnetic structures of orthorhombic LuMnO_3 . <i>Solid State Communications</i> , 2008 , 146, 152-156 | 1.6 | 35 |
| 383 | Crystal Structure and Properties of $\text{Nd}_4\text{Co}_3\text{O}_{10}$ and $\text{Nd}_4\text{Ni}_3\text{O}_{10}$. <i>Journal of Solid State Chemistry</i> , 2000 , 151, 46-55 | 3.3 | 35 |
| 382 | Crystal structure of the mixed conductor $\text{Sr}_4\text{Fe}_4\text{Co}_2\text{O}_{13}$. <i>Journal of Materials Chemistry</i> , 1997 , 7, 2415-2419 | | 34 |
| 381 | Hexagonal LaNiSnD_2 with a filled ZrBeSi -type structure. <i>Journal of Alloys and Compounds</i> , 2002 , 330-332, 141-145 | 5.7 | 34 |
| 380 | Oxygen and cation ordered perovskite, $\text{Ba}_2\text{Y}_2\text{Mn}_4\text{O}_{11}$. <i>Journal of Solid State Chemistry</i> , 2004 , 177, 2122-2128 | 3.3 | 33 |
| 379 | Identification of superconducting phases in the Ba-Ca-Cu-O system: an unstable phase with $T_c \approx 26$ K and its derivative with $T_c \approx 90$ K. <i>Journal of Materials Chemistry</i> , 1999 , 9, 1141-1148 | | 33 |
| 378 | Protonic titanate derived from $\text{Cs}_x\text{Ti}_2\text{Mg}_x/2\text{O}_4$ ($x = 0.7$) with lepidocrocite-type layered structure. <i>Journal of Materials Chemistry</i> , 2009 , 19, 787-794 | | 32 |
| 377 | Magnetic properties of Ca-doped SrRuO_3 from full-potential calculations. <i>Journal of Solid State Chemistry</i> , 2004 , 177, 146-158 | 3.3 | 32 |
| 376 | Structural properties of $\text{Ni}_1-x\text{RhtBi}_3$. <i>Journal of the Less Common Metals</i> , 1987 , 128, 177-183 | | 32 |
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