

# olivier Mentr

## List of Publications by Citations

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L-index

#	Paper	IF	Citations
195	Ethoxycarbonyl-based organic electrode for Li-batteries. <i>Journal of the American Chemical Society</i> , <b>2010</b> , 132, 6517-23	16.4	188
194	Anion-centered tetrahedra in inorganic compounds. <i>Chemical Reviews</i> , <b>2013</b> , 113, 6459-535	68.1	174
193	New epsilon-Bi <sub>2</sub> O <sub>3</sub> metastable polymorph. <i>Inorganic Chemistry</i> , <b>2006</b> , 45, 4886-8	5.1	129
192	Na <sub>3</sub> M <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub> (M = Ti, Fe): absolute cationic ordering in NASICON-type phases. <i>Journal of the American Chemical Society</i> , <b>2011</b> , 133, 11900-3	16.4	120
191	Discovery of a Sodium-Ordered Form of Na <sub>3</sub> V <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub> below Ambient Temperature. <i>Chemistry of Materials</i> , <b>2015</b> , 27, 5982-5987	9.6	86
190	A NASICON-Type Positive Electrode for Na Batteries with High Energy Density: Na <sub>4</sub> MnV(PO <sub>4</sub> ) <sub>3</sub> . <i>Small Methods</i> , <b>2019</b> , 3, 1800218	12.8	74
189	Preparation and characterization of 6-molybdocobaltate and 6-molybdoaluminate cobalt salts. Evidence of a new heteropolymolybdate structure. <i>Inorganic Chemistry</i> , <b>2004</b> , 43, 4636-44	5.1	69
188	Ca <sub>3</sub> Co <sub>4</sub> O <sub>9</sub> A Thermoelectric Material for SOFC Cathode. <i>Chemistry of Materials</i> , <b>2009</b> , 21, 4738-4745	9.6	67
187	High-potential reversible Li deintercalation in a substituted tetrahydroxy-p-benzoquinone dilithium salt: an experimental and theoretical study. <i>Chemistry - A European Journal</i> , <b>2012</b> , 18, 8800-12	4.8	60
186	[Bi <sub>6</sub> O <sub>4.5</sub> (OH) <sub>3.5</sub> ] <sub>2</sub> (NO <sub>3</sub> ) <sub>11</sub> : a new anhydrous bismuth basic nitrate. Synthesis and structure determination from twinned crystals. <i>Journal of Solid State Chemistry</i> , <b>2003</b> , 176, 127-136	3.3	46
185	A genuine two-dimensional Ising ferromagnet with magnetically driven re-entrant transition. <i>Angewandte Chemie - International Edition</i> , <b>2012</b> , 51, 11745-9	16.4	45
184	Evidence and Characterization of a New Decamolybdocobaltate Cobalt Salt: An Efficient Precursor for Hydrotreatment Catalyst Preparation. <i>Chemistry of Materials</i> , <b>2005</b> , 17, 4438-4448	9.6	44
183	Crystal Structure of BiZn <sub>2</sub> PO <sub>6</sub> . Filiation between Related Compounds. <i>Journal of Solid State Chemistry</i> , <b>2000</b> , 153, 48-54	3.3	44
182	Structural and dielectric/ferroelectric properties of (La <sub>1-x</sub> Nd <sub>x</sub> ) <sub>2</sub> Ti <sub>2</sub> O <sub>7</sub> synthesized by sol-gel route. <i>Journal of Solid State Chemistry</i> , <b>2010</b> , 183, 1652-1662	3.3	40
181	Structural features of the modulated BiCu <sub>2</sub> (P(1-x)V(x))O <sub>6</sub> solid solution; 4-D treatment of x = 0.87 compound and magnetic spin-gap to gapless transition in new Cu <sup>2+</sup> two-leg ladder systems. <i>Journal of the American Chemical Society</i> , <b>2006</b> , 128, 10857-67	16.4	38
180	Polycationic disorder in [Bi <sub>6</sub> O <sub>4</sub> (OH) <sub>4</sub> ](NO <sub>3</sub> ) <sub>6</sub> : Structure determination using synchrotron radiation and microcrystal X-ray diffraction. <i>Journal of Solid State Chemistry</i> , <b>2006</b> , 179, 3087-3094	3.3	36
179	Crystal Structure Approach of the Disordered New Compounds Bi <sub>~1.2</sub> M <sub>~1.2</sub> PO <sub>5.5</sub> (M=Mn, Co, Zn): The Role of Oxygen-Centered Tetrahedra Linkage in the Structure of Bismuth Transition Metal Oxy-phosphates. <i>Journal of Solid State Chemistry</i> , <b>2002</b> , 167, 168-181	3.3	36

178	Evidence of the Current Collector Effect: Study of the SOFC Cathode Material $\text{Ca}_3\text{Co}_4\text{O}_9$ . <i>Fuel Cells</i> , <b>2012</b> , 12, 288-301	2.9	34
177	$[\text{Bi}_2\text{O}_2]^{2+}$ Layers in $\text{Bi}_2\text{O}_2(\text{OH})(\text{NO}_3)$ : Synthesis And Structure Determination. <i>Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences</i> , <b>2005</b> , 60, 322-327	1	34
176	$\text{Ca}_3\text{Co}_4\text{O}_9$ a growing potential SOFC cathode material: Impact of the layer composition and thickness on the electrochemical properties. <i>Solid State Ionics</i> , <b>2016</b> , 294, 21-30	3.3	33
175	Incommensurate spin correlation driven by frustration in $\text{BiCu}_2\text{PO}_6$ . <i>Physical Review B</i> , <b>2009</b> , 80,	3.3	32
174	Unprecedented robust antiferromagnetism in fluorinated hexagonal perovskites. <i>Journal of the American Chemical Society</i> , <b>2011</b> , 133, 10901-9	16.4	31
173	$\text{Ba}_2\text{Co}_9\text{O}_{14}$ : New Inorganic Building Blocks with Magnetic Ordering through Super-Super Exchanges Only. <i>Chemistry of Materials</i> , <b>2007</b> , 19, 2180-2188	9.6	31
172	Structural, Infrared, and Magnetic Characterization of the Solid Solution Series $\text{Sr}_2\text{Pb}_x(\text{VO})(\text{VO}_4)_2$ ; Evidence of the $\text{Pb}^{2+}$ Lone Pair Stereochemical Effect. <i>Journal of Solid State Chemistry</i> , <b>1998</b> , 140, 417-427	3.3	30
171	Local Perturbation in $\text{Bi}_2\text{CuO}_4$ : Hydrothermal Synthesis, Crystal Structure, and Characterization of the New $\text{Bi}_2(\text{Cu}_{1-2x}\text{M}_x)\text{O}_4$ ( $\text{M} = \text{Bi}, \text{Pb}$ ). <i>Chemistry of Materials</i> , <b>2001</b> , 13, 543-551	9.6	30
170	Across the structural re-entrant transition in $\text{BaFe}_2(\text{PO}_4)_2$ : influence of the two-dimensional ferromagnetism. <i>Journal of the American Chemical Society</i> , <b>2013</b> , 135, 13023-9	16.4	29
169	Magnetic structure of ground and field-induced ordered states of low-dimensional $\text{BiCoV}_2\text{O}_6$ : Experiment and theory. <i>Physical Review B</i> , <b>2012</b> , 86,	3.3	28
168	Synthesis and Crystal Structure of $\text{Bi}_{6.67}(\text{PO}_4)_4\text{O}_4$ Oxyphosphate: The $\text{Bi}_6\text{M}_2+(\text{PO}_4)_4\text{O}_4$ and $\text{Bi}_{6.5\text{A}+0.5}(\text{PO}_4)_4\text{O}_4$ Series. <i>Journal of Solid State Chemistry</i> , <b>1998</b> , 139, 274-280	3.3	28
167	Channel structure in the new $\text{BiCoPO}_5$ . Comparison with $\text{BiNiPO}_5$ . Crystal structure, lone pair localisation and infrared characterisation. <i>Solid State Sciences</i> , <b>1999</b> , 1, 449-460	3.4	27
166	Crystal Structure of $\text{Pb}_2\text{V}_3\text{O}_9$ : Rietveld Refinement and Electron Lone-Pair Localization. The Magnetic Susceptibility of $\text{Sr}^{2+}$ -Substituted Phases. <i>Chemistry of Materials</i> , <b>1999</b> , 11, 2408-2416	9.6	27
165	$\text{ABiO}_2\text{X}$ ( $\text{A} = \text{Cd}, \text{Ca}, \text{Sr}, \text{Ba}, \text{Pb}$ ; $\text{X} = \text{halogen}$ ) Sillen X1 Series: Polymorphism Versus Optical Properties. <i>Inorganic Chemistry</i> , <b>2016</b> , 55, 7582-92	5.1	26
164	Effect of praseodymium and europium doping in $\text{La}_{1-x}\text{Ln}_x\text{MnO}_3$ ( $\text{Ln}: \text{Pr} \text{ or } \text{Eu}, 0 \leq x \leq 1$ ) perovskite catalysts for total methane oxidation. <i>Applied Catalysis A: General</i> , <b>2014</b> , 469, 98-107	5.1	26
163	Combustion synthesis of $\text{LaMn}_{1-x}\text{Al}_x\text{O}_3$ ( $0 \leq x \leq 1$ ): tuning catalytic properties for methane deep oxidation. <i>Catalysis Science and Technology</i> , <b>2013</b> , 3, 1002	5.5	26
162	Emulating exhalative chemistry: synthesis and structural characterization of ilinskite, $\text{Na}[\text{Cu}_5\text{O}_2](\text{SeO}_3)_2\text{Cl}_3$ , and its K-analogue. <i>Mineralogy and Petrology</i> , <b>2015</b> , 109, 421-430	1.6	26
161	An easy sol-gel route for deposition of oriented $\text{Ln}_2\text{Ti}_2\text{O}_7$ ( $\text{Ln} = \text{La}, \text{Nd}$ ) films on $\text{SrTiO}_3$ substrates. <i>Journal of Crystal Growth</i> , <b>2009</b> , 311, 4134-4141	1.6	26

- 160 Optimisation of the Solid Oxide Fuel Cell (SOFC) cathode material  $\text{Ca}_3\text{Co}_4\text{O}_9$ . *Journal of Power Sources*, **2011**, 196, 7328-7332 8.9 26
- 159 Synthesis, crystal structure and characterization of new 12H hexagonal perovskite-related oxides  $\text{Ba}_6\text{M}_2\text{Na}_2\text{X}_2\text{O}_{17}$  (M=Ru, Nb, Ta, Sb; X=V, Cr, Mn, P, As). *Journal of Solid State Chemistry*, **2003**, 176, 137-150 3.3 26
- 158  $\text{Bi}_1.7\text{V}_8\text{O}_{16}$ : The First Bi-Hollandite-Type Compound. *Journal of Solid State Chemistry*, **1994**, 109, 127-133.3 26
- 157 New  $\text{BaCoO}_3$ -Polytypes by Rational Substitution of  $\text{O}^{2-}$  for  $\text{F}^-$ . *Chemistry of Materials*, **2007**, 19, 2924-2936 25
- 156 New Mixed Valence Compounds in the  $\text{PbVO}_3$  System: Synthesis and Crystal Structure of Hollandite-Related  $\text{Pb}_{1.32}\text{V}_{8.35}\text{O}_{16.7}$  and R-Type Hexagonal Ferrite  $\text{Pb}_6\text{VO}_{11}$ . *Journal of Solid State Chemistry*, **1996**, 125, 91-101 3.3 25
- 155 Crystal Structure and Characterization of  $\text{Ba}_2\text{V}_3\text{O}_9$ : A Vanadyl(IV) Vanadate Containing Rutile-like Chains of  $\text{VO}_6$  Octahedra. *Journal of Solid State Chemistry*, **1996**, 126, 328-335 3.3 25
- 154 Novel tailormade  $\text{Bi}_4\text{MO}_4(\text{PO}_4)_2$  structural type (M = Mg, Zn). *Inorganic Chemistry*, **2012**, 51, 4438-47 5.1 23
- 153 Magnetization Steps Promoted by Structural Modulation in  $\text{BaCoX}_2\text{O}_7$  (X = As, P). *Journal of Physical Chemistry C*, **2013**, 117, 18190-18198 3.8 23
- 152  $\text{Bi}^{3+}/\text{M}^{2+}$  oxyphosphate: a continuous series of polycationic species from the 1D single chain to the 2D planes. Part 2: Crystal structure of three original structural types showing a combination of new ribbonlike polycations. *Inorganic Chemistry*, **2006**, 45, 6612-21 5.1 23
- 151 New  $[\text{PbBi}_2\text{O}_4][\text{Bi}_2\text{O}_2]\text{Cl}_2$  and  $[\text{Pb}(n)\text{Bi}(10-n)\text{O}_{13}][\text{Bi}_2\text{O}_2](n)\text{Cl}_{(4+n)}$  series by association of sizable subunits: relationship with Arppe's compound  $\text{Bi}_2\text{O}_3\text{Cl}_{10}$  and luminescence properties. *Inorganic Chemistry*, **2013**, 52, 8427-35 5.1 22
- 150 From the mixed valent  $6\text{H-Ba}_3\text{Ru}_{5.5+2\text{Na}}\text{O}_9$  to the  $6\text{H-Ba}_3(\text{Ru}_{1.69}\text{Co}_{0.31})(\text{Na}_{0.95}\text{Ru}_{0.05})\text{O}_{8.69}$  oxycarbonate compound. *Solid State Sciences*, **2003**, 5, 951-963 3.4 22
- 149 In situ surface treatment of nanocrystalline  $\text{MFe}_2\text{O}_4$  (M = Co, Mg, Mn, Ni) spinel ferrites using linseed oil. *Applied Surface Science*, **2013**, 287, 490-498 6.7 21
- 148 Characterization of the new  $\text{Bi}_{\sim 6.2}\text{Cu}_{\sim 6.2}\text{O}_8(\text{PO}_4)_5$  oxyphosphate; a disordered compound containing 2- and 3-O(Bi, Cu) $_4$  tetrahedral wide polycationic ribbons. *Journal of Solid State Chemistry*, **2003**, 172, 327-338 3.3 21
- 147  $\text{BaCoO}_{2.22}$ : the most oxygen-deficient certified cubic perovskite. *Dalton Transactions*, **2015**, 44, 10728-37.3 20
- 146 Revised Bismuth Chloroselenite System: Evidence of a Noncentrosymmetric Structure with a Giant Unit Cell. *Crystal Growth and Design*, **2014**, 14, 3026-3034 3.5 20
- 145 Experimental and theoretical studies of tetramethoxy-p-benzoquinone: infrared spectra, structural and lithium insertion properties. *RSC Advances*, **2013**, 3, 19081 3.7 20
- 144 Anion-vacancy-induced magneto-crystalline anisotropy in fluorine-doped hexagonal cobaltites. *Journal of the American Chemical Society*, **2010**, 132, 4865-75 16.4 20
- 143 HREM: a Useful Tool to Formulate New Members of the Wide  $\text{Bi}^{3+}/\text{M}^{2+}$  Oxide Phosphate Series. *Chemistry of Materials*, **2004**, 16, 2628-2638 9.6 20

142	Reduction of Ln <sub>2</sub> Ti <sub>2</sub> O <sub>7</sub> Layered Perovskites: A Survey of the Anionic Lattice, Electronic Features, and Potentials. <i>Chemistry of Materials</i> , <b>2017</b> , 29, 1047-1057	9.6	19
141	Oxocentered Cu(II) lead selenite honeycomb lattices hosting Cu(I)Cl <sub>2</sub> groups obtained by chemical vapor transport reactions. <i>Chemical Communications</i> , <b>2015</b> , 51, 9563-6	5.8	19
140	Double (n=2) and triple (n=3) [M <sub>4</sub> Bi <sub>2</sub> nO <sub>2n</sub> ] <sup>x+</sup> polycationic ribbons in the new Bi <sub>3</sub> Cd <sub>3</sub> ~3.72M~1.28O <sub>5</sub> (PO <sub>4</sub> ) <sub>3</sub> oxyphosphate (M=Co, Cu, Zn). <i>Journal of Solid State Chemistry</i> , <b>2003</b> , 176, 221-233	3.3	19
139	Slow spin dynamics between ferromagnetic chains in a pure-inorganic framework. <i>Inorganic Chemistry</i> , <b>2013</b> , 52, 13742-50	5.1	18
138	Microstructure and Nanoscale Piezoelectric/Ferroelectric Properties in La <sub>2</sub> Ti <sub>2</sub> O <sub>7</sub> Thin Films Grown on (110)-Oriented Doped Nb:SrTiO <sub>3</sub> Substrates. <i>Advanced Engineering Materials</i> , <b>2011</b> , 13, 961-969	3.5	18
137	Bi <sup>3+</sup> /M <sup>2+</sup> oxyphosphate: a continuous series of polycationic species from the 1D single chain to the 2D planes. Part 1: From HREM images to crystal-structure deduction. <i>Inorganic Chemistry</i> , <b>2006</b> , 45, 6604-6611	5.1	18
136	Reversible topochemical exsolution of iron in BaFe(2+) <sub>2</sub> (PO <sub>4</sub> ) <sub>2</sub> . <i>Angewandte Chemie - International Edition</i> , <b>2014</b> , 53, 13365-70	16.4	17
135	Spin-Flop Transition and Magnetocaloric Effect through Disconnected Magnetic Blocks in Co <sup>III</sup> /Co <sup>IV</sup> Oxybromides. <i>Chemistry of Materials</i> , <b>2010</b> , 22, 3807-3816	9.6	17
134	Potentiality of Ba <sub>2</sub> Co <sub>9</sub> O <sub>14</sub> as cathode material for IT-SOFC on various electrolytes. <i>Solid State Ionics</i> , <b>2011</b> , 184, 31-34	3.3	17
133	CO pressure as a key factor for the palladium-catalyzed methoxycarbonylation of benzyl chloride under mild conditions. <i>Applied Catalysis A: General</i> , <b>2001</b> , 217, 91-99	5.1	17
132	Molecular approach to prepare mixed MoW alumina supported hydrotreatment catalysts using H <sub>4</sub> Si <sub>10</sub> Mo <sub>12</sub> W <sub>12</sub> O <sub>40</sub> heteropolyacids. <i>Catalysis Science and Technology</i> , <b>2018</b> , 8, 5557-5572	5.5	17
131	Inorganic polar blocks into controlled acentric assemblies. <i>Inorganic Chemistry</i> , <b>2012</b> , 51, 9557-62	5.1	16
130	Building Units and Intergrowths: Toward the Design of an Extended Family of Acentric Bi-Based Materials with Second Harmonic Generacy. <i>Chemistry of Materials</i> , <b>2009</b> , 21, 4019-4029	9.6	16
129	Crystal structures of new silver ion conductors Ag <sub>7</sub> Fe <sub>3</sub> (X <sub>2</sub> O <sub>7</sub> ) <sub>4</sub> (X = P, As). <i>New Journal of Chemistry</i> , <b>2009</b> , 33, 998	3.6	16
128	Synthesis and structural characterization of a new nanoporous-like Keggin heteropolyanion salt: K <sub>3</sub> (H <sub>2</sub> O) <sub>4</sub> [H <sub>2</sub> Si <sub>10</sub> V <sub>11</sub> O <sub>40</sub> ](H <sub>2</sub> O) <sub>8+x</sub> . <i>Inorganic Chemistry</i> , <b>2007</b> , 46, 7371-7	5.1	16
127	Structural Evolution from 0D Units to 3D Frameworks in Pb Oxyhalides: Unexpected Strongly Corrugated Layers in Pb <sub>7</sub> O <sub>6</sub> Br <sub>2</sub> . <i>Inorganic Chemistry</i> , <b>2015</b> , 54, 11550-6	5.1	15
126	Multidimensional open-frameworks: combinations of one-dimensional channels and two-dimensional layers in novel BI/M oxo-chlorides. <i>Inorganic Chemistry</i> , <b>2014</b> , 53, 528-36	5.1	15
125	Structure, dimensionality and magnetism of new cobalt oxyhalides. <i>Solid State Sciences</i> , <b>2008</b> , 10, 471-475	5.4	15

- 124 Structural study and conductivity properties of  $\text{Ca}_{1-x}\text{Na}_x\text{Ti}_4(\text{PO}_4)_6$  solid solution. *Solid State Ionics*, **1994**, 72, 293-299 3.3 15
- 123 Puzzling polymorphism of layered  $\text{Ba}(\text{CoPO}_4)_2$ . *Inorganic Chemistry*, **2013**, 52, 8732-7 5.1 14
- 122  $[\text{BaCoO}_3]_n[\text{BaCo}_8\text{O}_{11}]$  Modular Intergrowths: Singularity of the  $n = 2$  Term. *Chemistry of Materials*, **2011**, 23, 5191-5199 9.6 14
- 121 Ru-Pyrochlores: Compositional Tuning for Electrochemical Stability as Cathode Materials for IT-SOFCs. *Chemistry of Materials*, **2008**, 20, 7425-7433 9.6 14
- 120 3D-magnetic ordering of  $\text{Co}^{4+}$  dimers in a new  $\text{Co}^{3+,4+}$  oxychloride: Neutron diffraction analysis and DFT calculations. *Chemical Physics Letters*, **2006**, 432, 88-93 2.5 14
- 119  $\text{Bi}_{\sim 3.785}\text{Cd}_{\sim 3.575}\text{Cu}_{\sim 1.5}(\text{PO}_4)_3.5\text{O}_{5.5}$ , a new arrangement of double () and triple ()  $[\text{M}_4\text{Bi}_2\text{n}\text{O}_2\text{n}]_{x+}$  polycationic ribbons in the bismuth-transition metal oxy-phosphate series. *Journal of Solid State Chemistry*, **2004**, 177, 4149-4162 3.3 14
- 118 Pathways for synthesis of new selenium-containing oxo-compounds: Chemical vapor transport reactions, hydrothermal techniques and evaporation method. *Journal of Crystal Growth*, **2017**, 457, 307-313 1.6 13
- 117 Bonding Scheme, Hydride Character, and Magnetic Paths of  $(\text{HPO}_3)_2$  versus  $(\text{SeO}_3)_2$  Building Units in Solids. *Journal of Physical Chemistry C*, **2016**, 120, 1650-1656 3.8 13
- 116 Investigation of microstructure in ferroelectric lead-free  $\text{La}_2\text{Ti}_2\text{O}_7$  thin film grown on (001)- $\text{SrTiO}_3$  substrate. *CrystEngComm*, **2012**, 14, 6524 3.3 13
- 115 Overview of Electrons and Orbitals in a Nearly One-Dimensional  $\text{Co}^{3+}/\text{Co}^{4+}$  System. *Chemistry of Materials*, **2008**, 20, 1741-1749 9.6 13
- 114 Crystal structure of the mixed  $\text{Mn}^{4+}/\text{Mn}^{5+}$  2H-perovskite-type  $\text{Ba}_4\text{Mn}_2\text{NaO}_9$  oxide. *Solid State Sciences*, **2004**, 6, 931-938 3.4 13
- 113 Dimers of oxocentred  $[\text{OCu}_4]^{6+}$  tetrahedra in two novel copper selenite chlorides,  $\text{K}[\text{Cu}_3\text{O}](\text{SeO}_3)_2\text{Cl}$  and  $\text{Na}_2[\text{Cu}_7\text{O}_2](\text{SeO}_3)_4\text{Cl}_4$ , and related minerals and inorganic compounds. *Mineralogical Magazine*, **2016**, 80, 227-238 1.7 13
- 112 Revised Bi/M layered oxo-sulfate (M = Co, Cu): a structural and magnetic study. *Inorganic Chemistry*, **2014**, 53, 6969-78 5.1 12
- 111 Magnetic Structure of Ground and Field Induced Ordered States of Low-Dimensional  $\text{ECoV}_2\text{O}_6$ . *Journal of Physical Chemistry C*, **2014**, 118, 13981-13987 3.8 12
- 110 pH controlled pathway and systematic hydrothermal phase diagram for elaboration of synthetic lead nickel selenites. *Inorganic Chemistry*, **2015**, 54, 2425-34 5.1 12
- 109 Two-dimensional antiferromagnetism in the  $[\text{Mn}_{(3+x)}\text{O}_7][\text{Bi}_4\text{O}_{(4.5-y)}]$  compound with a maple-leaf lattice. *Angewandte Chemie - International Edition*, **2012**, 51, 9393-7 16.4 12
- 108 Synthesis, crystal structure and thermal decomposition of Cu(II), Co(II), Mn(II) complexes with hetero-ligands containing cysteic acid, 4,4'-dimethyl-2,2'-bipyridine and azide. *Comptes Rendus Chimie*, **2011**, 14, 462-470 2.7 12
- 107 Magnetic structure and analysis of the exchange interactions in  $\text{BiMO}(\text{PO}_4)$  (M = Co, Ni). *Journal of Physics Condensed Matter*, **2008**, 20, 415211 1.8 12

106	Electrosynthesis and crystal structure of the new 15R hexagonal perovskite Ba <sub>5</sub> MnNa <sub>2</sub> V <sub>2</sub> O <sub>13</sub> . <i>Journal of Solid State Chemistry</i> , <b>2004</b> , 177, 1416-1424	3.3	12
105	Potassium-controlled synthesis of heterotopic macrocycles based on isothiosemicarbazide. <i>Inorganica Chimica Acta</i> , <b>2002</b> , 328, 123-133	2.7	12
104	Lead Oxychloride Borates Obtained under Extreme Conditions. <i>Inorganic Chemistry</i> , <b>2016</b> , 55, 9077-84	5.1	11
103	Labile degree of disorder in bismuth-oxophosphate compounds: illustration through three new structural types. <i>Inorganic Chemistry</i> , <b>2014</b> , 53, 861-71	5.1	11
102	Triple Coll, III, IV charge ordering and spin states in modular cobaltites: a systematization through experimental and virtual compounds. <i>Journal of Materials Chemistry C</i> , <b>2014</b> , 2, 9457-9466	7.1	11
101	A Genuine Two-Dimensional Ising Ferromagnet with Magnetically Driven Re-entrant Transition. <i>Angewandte Chemie</i> , <b>2012</b> , 124, 11915-11919	3.6	11
100	Optimization of the combustion synthesis towards efficient LaMnO <sub>3+y</sub> catalysts in methane oxidation. <i>Applied Catalysis B: Environmental</i> , <b>2011</b> ,	21.8	11
99	Investigation of the Vanadyl Bond Ordering and Analysis of the Spin Exchange Interactions in Pb <sub>2</sub> V <sub>3</sub> O <sub>9</sub> and Pb <sub>2</sub> As <sub>2</sub> V <sub>3</sub> O <sub>9</sub> . <i>Chemistry of Materials</i> , <b>2008</b> , 20, 6929-6938	9.6	11
98	Crystal structure of ErAlGeO <sub>5</sub> and evidence of a peculiar double coordination sphere of Al(III) and Ge(IV) cations. <i>Solid State Sciences</i> , <b>2006</b> , 8, 155-161	3.4	11
97	Mineral-Inspired Crystal Growth and Physical Properties of Na <sub>2</sub> Cu(SO <sub>4</sub> ) <sub>2</sub> and Review of Na <sub>2</sub> M(SO <sub>4</sub> ) <sub>2</sub> (H <sub>2</sub> O) <sub>x</sub> (x = 0-8) Compounds. <i>Crystal Growth and Design</i> , <b>2019</b> , 19, 1233-1244	3.5	11
96	[NaCl][Cu(HSeO <sub>3</sub> ) <sub>2</sub> ], NaCl-intercalated Cu(HSeO <sub>3</sub> ) <sub>2</sub> : synthesis, crystal structure and comparison with related compounds. <i>Zeitschrift Fur Kristallographie - Crystalline Materials</i> , <b>2015</b> , 230, 573-577	1	10
95	Copper(II) coordination chain complex with the 2,5-bis(2-pyridyl)-1,3,4-thiadiazole ligand and an asymmetric $\mu$ -1,1-azido double-bridged: Synthesis, crystal structure and magnetic properties. <i>Journal of Molecular Structure</i> , <b>2016</b> , 1123, 400-406	3.4	10
94	Exploration of Vanadate Selenites Solid Phase Space, Crystal Structures, and Polymorphism. <i>Crystal Growth and Design</i> , <b>2016</b> , 16, 3113-3123	3.5	10
93	Ba <sub>8</sub> Co <sub>2</sub> Mn <sub>6</sub> ClO <sub>22</sub> , a quasi-1D hexagonal perovskite polytype containing new 8H-blocks. <i>Chemical Communications</i> , <b>2010</b> , 46, 5271-3	5.8	10
92	Effect of Iron Substitution on the Structural, Electric, and Magnetic Properties in R-Type PbFexV <sub>6-x</sub> O <sub>11</sub> , a Frustrated System. <i>Journal of Solid State Chemistry</i> , <b>1997</b> , 130, 223-233	3.3	10
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90	Electrosynthesis, structural transitions and characterization of the new 10H-Ba <sub>5</sub> Ru <sub>3</sub> Na <sub>2</sub> O <sub>14</sub> . <i>Solid State Sciences</i> , <b>2003</b> , 5, 1105-1116	3.4	10
89	(Nb <sub>2</sub> W <sub>4</sub> O <sub>19</sub> ), TMA <sub>2</sub> , Na <sub>4</sub> (OH <sub>2</sub> ) <sub>14</sub> (SO <sub>4</sub> ): a new layered structure with Lindqvist heteropolyanions, XAS characterization of the HPAs. <i>Solid State Sciences</i> , <b>2005</b> , 7, 1533-1541	3.4	10

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87	Structural and magnetic transitions in PbV <sub>6</sub> O <sub>11</sub> . <i>Physical Review B</i> , <b>2001</b> , 64,	3.3	10
86	Magnetic frustration in the high-pressure MnMnTeO (MnTeO-II) double perovskite. <i>Chemical Communications</i> , <b>2019</b> , 55, 14470-14473	5.8	10
85	Niobium-Containing Lindqvist Isopolyanions [Nb <sub>x</sub> W <sub>6-x</sub> O <sub>19</sub> ] <sup>(2+x)-</sup> Used as Precursors for Hydrodesulfurization Catalysts with Isomerization Properties. <i>European Journal of Inorganic Chemistry</i> , <b>2015</b> , 2015, 2067-2075	2.3	9
84	Sr <sub>4</sub> Ru <sub>6</sub> ClO <sub>18</sub> , a new Ru <sup>4+/5+</sup> oxy-chloride, solved by precession electron diffraction: Electric and magnetic behavior. <i>Journal of Solid State Chemistry</i> , <b>2014</b> , 212, 99-106	3.3	9
83	Novel bismuth oxophosphate halides [Bi <sub>8</sub> O <sub>8</sub> ][BiO <sub>2</sub> ](PO <sub>4</sub> ) <sub>2</sub> X (X=Cl, Br) based on oxocentered 2D blocks and their relationships to the Aurivillius phases. <i>Journal of Solid State Chemistry</i> , <b>2013</b> , 199, 56-61	3.3	9
82	Mixed metallic Ba(Co,Fe) <sub>x</sub> (O <sub>3-x</sub> ) (X = F, Cl) hexagonal perovskites: drastic effect of Fe-incorporation on structural and electronic features. <i>Inorganic Chemistry</i> , <b>2012</b> , 51, 7598-608	5.1	9
81	Bi <sub>2</sub> O <sub>3</sub> -CuO-B <sub>2</sub> O <sub>5</sub> system: Two novel compounds built from the intergrowths oxocentered polycationic 1D-ribbons. <i>Journal of Solid State Chemistry</i> , <b>2013</b> , 203, 266-272	3.3	9
80	Mixed metallic Ba(Co,Mn) <sub>x</sub> O <sub>3-x</sub> (X=F, Cl) hexagonal perovskites. <i>Journal of Solid State Chemistry</i> , <b>2013</b> , 198, 210-217	3.3	9
79	Evidence of crystalline/glassy intermediates in bismuth phosphates. <i>New Journal of Chemistry</i> , <b>2009</b> , 33, 19-22	3.6	9
78	Synthesis, Crystal Structure, Infrared Characterization, and Electrical Properties of the New Bi <sub>9</sub> (V <sub>1-x</sub> P <sub>x</sub> ) <sub>2</sub> ClO <sub>18</sub> Series (0 ≤ x ≤ 1). <i>Journal of Solid State Chemistry</i> , <b>1998</b> , 136, 34-45	3.3	9
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76	Structural and <sup>31</sup> P NMR investigation of Bi(MM') <sub>2</sub> PO <sub>6</sub> statistic solid solutions: Deconvolution of lattice constraints and cationic influences. <i>Journal of Solid State Chemistry</i> , <b>2006</b> , 179, 2111-2119	3.3	9
75	Structural characterisation of [Cu <sub>2</sub> (bptd)(H <sub>2</sub> O) <sub>4</sub> ]Cl <sub>4</sub> and [Ni <sub>2</sub> (bptd) <sub>2</sub> (H <sub>2</sub> O) <sub>4</sub> ]Cl <sub>4</sub> ·BH <sub>2</sub> O; evidence of null intramolecular exchanges by EPR and magnetic measurements. <i>Journal of Physics and Chemistry of Solids</i> , <b>2004</b> , 65, 701-705	3.9	9
74	Bonding Scheme and Optical Properties in BiM O (PO <sub>4</sub> ) <sub>2</sub> (M=Cd, Mg, Zn); Experimental and Theoretical Analysis. <i>Chemistry - A European Journal</i> , <b>2017</b> , 23, 15694-15703	4.8	8
73	Influence of the synthesis route on the formation of 12R/10H-polytypes and their magnetic properties within the Ba(Ce,Mn)O <sub>3</sub> family. <i>New Journal of Chemistry</i> , <b>2015</b> , 39, 829-835	3.6	8
72	Reversible Exsolution of Nanometric Fe <sub>2</sub> O <sub>3</sub> Particles in BaFe <sub>2-x</sub> (PO <sub>4</sub> ) <sub>2</sub> (0 ≤ x ≤ 3): The Logic of Vacancy Ordering in Novel Metal-Depleted Two-Dimensional Lattices. <i>Crystal Growth and Design</i> , <b>2015</b> , 15, 4237-4247	3.5	8
71	Selective Metal Exsolution in BaFe <sub>2-y</sub> M <sub>y</sub> (PO <sub>4</sub> ) <sub>2</sub> (M = Co(2+), Ni(2+)) Solid Solutions. <i>Inorganic Chemistry</i> , <b>2015</b> , 54, 8733-43	5.1	8



70	Crystal structures and sodium/silver distributions within the ionic conductors $\text{Na}_5\text{Ag}_2\text{Fe}_3(\text{As}_2\text{O}_7)_4$ and $\text{Na}_2\text{Ag}_5\text{Fe}_3(\text{P}_2\text{O}_7)_4$ . <i>New Journal of Chemistry</i> , <b>2010</b> , 34, 287-293	3.6	8
69	Site Preference of Fe and V in $\text{PbFe}_x\text{V}_{6-x}\text{O}_{11}$ by Neutron Diffraction and Mössbauer Spectroscopy: Low Temperature Investigation for $x=1.75$ . <i>Journal of Solid State Chemistry</i> , <b>1999</b> , 147, 609-617	3.3	8
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60	Bidimensional Cationic Ordering and Thermal Dependence in $\text{EPb}_x\text{V}_2\text{O}_5$ Bronzes. <i>Journal of Solid State Chemistry</i> , <b>1999</b> , 145, 186-196	3.3	7
59	Bismuth and vanadate activators in $\text{BiMVO}_5$ ( $\text{M}=\text{Ca}, \text{Mg}, \text{Cd}$ ) phases: Structural, electronic and optical specificities. <i>Journal of Alloys and Compounds</i> , <b>2017</b> , 709, 373-380	5.7	6
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56	Investigation of new alkali bismuth oxosulfates and oxophosphates with original topologies of oxo-centered units. <i>Inorganic Chemistry</i> , <b>2014</b> , 53, 12058-65	5.1	6
55	Topochemical Reduction of $\text{YMnO}$ into a Composite Structure. <i>Inorganic Chemistry</i> , <b>2017</b> , 56, 8547-8553	5.1	6
54	Phase homology in new layered mixed Li, M ( $\text{M}=\text{Mg}, \text{Cu}, \text{Cd}, \text{Pb}, \text{Bi}$ ) bismuth oxophosphates and oxoarsenates. <i>Journal of Solid State Chemistry</i> , <b>2013</b> , 199, 123-128	3.3	6
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50	Structure and magnetic properties of Ba <sub>5</sub> Ce <sub>1.25</sub> Mn <sub>3.75</sub> O <sub>15</sub> , a new 10H-polytype in the Ba <sub>2</sub> TeMnO system. <i>Journal of Solid State Chemistry</i> , <b>2013</b> , 198, 186-191	3.3	5
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48	= 1/2 Chain in BiVOF: Spin Dimers versus Photoanodic Properties. <i>Journal of the American Chemical Society</i> , <b>2021</b> , 143, 6942-6951	16.4	4
47	Common Building Motifs in Ba <sub>2</sub> Fe <sub>3</sub> (PO <sub>4</sub> ) <sub>4</sub> ·2H <sub>2</sub> O, BaFe <sub>3</sub> (PO <sub>4</sub> ) <sub>3</sub> , and Na <sub>3</sub> Fe <sub>3</sub> (PO <sub>4</sub> ) <sub>4</sub> : Labile Fe(2+)/Fe(3+) Ordering and Charge-Dependent Magnetism. <i>Inorganic Chemistry</i> , <b>2016</b> , 55, 4354-61	5.1	4
46	The BaS(VOS) Oxysulfide: One-Dimensional Structure and Mixed Anion Chemical Bonding. <i>Inorganic Chemistry</i> , <b>2019</b> , 58, 1349-1357	5.1	4
45	Synthesis and crystal structure of ECuSe <sub>2</sub> O <sub>5</sub> , a new polymorph of copper diselenite. <i>Mendeleev Communications</i> , <b>2017</b> , 27, 61-63	1.9	3
44	Metamagnetic Transitions versus Magnetocrystalline Anisotropy in Two Cobalt Arsenates with 1D Co Chains. <i>Inorganic Chemistry</i> , <b>2019</b> , 58, 12609-12617	5.1	3
43	The hidden story in BaNiO to BaNiO transformation: adaptive structural series and NiO exsolution. <i>Chemical Communications</i> , <b>2019</b> , 55, 3717-3720	5.8	3
42	Novel La <sub>3</sub> Fe(MoO <sub>4</sub> ) <sub>6</sub> phase: magnetic properties and ethanol reactivity. <i>Dalton Transactions</i> , <b>2015</b> , 44, 14444-52	4.3	3
41	Oxysulfide Ba(VOS)(S) Combining Disulfide Channels and Mixed-Anion Tetrahedra and Its Third-Harmonic-Generation Properties. <i>Inorganic Chemistry</i> , <b>2020</b> , 59, 5907-5917	5.1	3
40	Two-orbital three-electron stabilizing interaction for direct Co <sup>2+</sup> - As <sup>3+</sup> bonds involving square-planar CoO <sub>4</sub> in BaCoAs <sub>2</sub> O <sub>5</sub> . <i>Angewandte Chemie - International Edition</i> , <b>2014</b> , 53, 3111-4	16.4	3
39	Reversible Topochemical Exsolution of Iron in BaFe <sub>2+2</sub> (PO <sub>4</sub> ) <sub>2</sub> . <i>Angewandte Chemie</i> , <b>2014</b> , 126, 13583-13588	3.8	3
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37	Building 3D materials from adjustable 2D-units; towards the Design of new Bi-based compounds. <i>Materials Research Society Symposia Proceedings</i> , <b>2011</b> , 1309, 15		3
36	Chloro(6-p-cymene)[(1R)-(+)-3-(4-methoxybenzoyl)camphor(1H <sub>2</sub> O,O?)]ruthenium(II). <i>Acta Crystallographica Section E: Structure Reports Online</i> , <b>2006</b> , 62, m3160-m3162		3
35	Polymorphs, phase transitions and stability in BaM <sub>2</sub> (PO <sub>4</sub> ) <sub>2</sub> M = Mn, Fe, Co systems. <i>Inorganic Chemistry Frontiers</i> , <b>2020</b> , 7, 239-246	6.8	3

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33	Keggin (K <sub>5</sub> , H <sub>3</sub> O)[SiV <sub>3</sub> W <sub>9</sub> O <sub>40</sub> H] $\cdot$ 3H <sub>2</sub> O: Characterization and crystal structure. <i>Journal of Solid State Chemistry</i> , <b>2014</b> , 213, 9-16	3.3	2
32	Structural investigation of composite phases Ba <sub>1+x</sub> [(N <sub>x</sub> Mn <sub>1-x</sub> )O <sub>3</sub> ] with x approx. 2/7, 5/17 and 1/3; exotic Mn <sup>4.5+</sup> valence. <i>Zeitschrift Für Kristallographie</i> , <b>2010</b> , 225, 1-11		2
31	The Electrochemical and Thermal Performances of Ca <sub>3</sub> Co <sub>4</sub> O <sub>9</sub> as a Cathode Material for IT-SOFCs. <i>ECS Transactions</i> , <b>2009</b> , 25, 2625-2630	1	2
30	Pb <sub>2</sub> VIII(VO <sub>4</sub> )(V <sub>2</sub> O <sub>7</sub> ) <sub>0.5</sub> , a Novel Lead Vanadium III Vanadate Possessing Trivalent Vanadium Rutile-Like Chains: Relationship with Related Compounds. <i>Journal of Solid State Chemistry</i> , <b>2002</b> , 163, 519-526	3.3	2
29	2-[5-(2-Pyridyl)-1,2,4-triazol-3-yl]phenol 7,7,8,8-tetracyanoquinodimethane, PTP $\equiv$ CNQ, synthesis, structure and physical properties. <i>Journal of Molecular Structure</i> , <b>2002</b> , 607, 31-41	3.4	2
28	Synthesis, structure and magnetic behavior of iron arsenites with hierarchical magnetic units. <i>Inorganic Chemistry Frontiers</i> , <b>2020</b> , 7, 3987-3999	6.8	2
27	Synthesis and structural variety of first Mn and Bi selenites and selenite chlorides. <i>Zeitschrift Fur Kristallographie - Crystalline Materials</i> , <b>2019</b> , 234, 141-153	1	2
26	The effect of the Mo/W ratio on the catalytic properties of alumina supported hydrotreating catalysts prepared from mixed SiMo <sub>6</sub> W <sub>6</sub> and SiMo <sub>9</sub> W <sub>3</sub> heteropolyacids. <i>Catalysis Today</i> , <b>2021</b> , 377, 100-113	5.3	2
25	Multiferroic BaCo <sub>X</sub> 2 O 7 (X = P, As) Compounds with Incommensurate Structural Waves but Collinear Spin Ingredients. <i>Advanced Quantum Technologies</i> , <b>2021</b> , 4, 2000064	4.3	2
24	A fumarole in a one-pot: synthesis, crystal structure and properties of Zn- and Mg-analogs of itelmenite and a synthetic analog of glikinite. <i>Physics and Chemistry of Minerals</i> , <b>2021</b> , 48, 1	1.6	2
23	MnMnNbO: high-pressure triple perovskite with 1 : 2 B-site order and modulated spins. <i>Chemical Communications</i> , <b>2021</b> , 57, 8441-8444	5.8	2
22	Complex magnetism in NiTeO-type CoTeO and high-pressure polymorphs of MnCoTeO solid solutions. <i>Chemical Communications</i> , <b>2021</b> , 57, 2511-2514	5.8	2
21	Mixed-Valence Iron Dumortierite Fe(AsO)(OH) and Its Intricate Topotactic Exsolution at Mild Temperatures. <i>Inorganic Chemistry</i> , <b>2018</b> , 57, 15093-15104	5.1	2
20	Original positively charged nanoflakes by liquid exfoliation of layered oxybromide cobaltites. <i>CrystEngComm</i> , <b>2017</b> , 19, 304-312	3.3	1
19	Identification and optical features of the PbLnO series (Ln = La, Gd, Sm, Nd); genuine 2D-van der Waals oxides. <i>Chemical Communications</i> , <b>2019</b> , 55, 2944-2947	5.8	1
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17	Development of High Pressure Single Crystal X-Ray Diffraction Study at ESRF ID 30 Beamline. <i>AIP Conference Proceedings</i> , <b>2004</b> ,	0	1

16	From (= 1) Spin Hexamer to Spin Tetradecamer by CuO Interstitials in ACuO(CuO)(SO) (A = alkali). <i>Inorganic Chemistry</i> , <b>2021</b> , 60, 18185-18191	5.1	1
15	Cycloidal Magnetic Order Promoted by Labile Mixed Anionic Paths in M(SeO)F (M = Mn, Ni). <i>Inorganic Chemistry</i> , <b>2021</b> , 60, 12001-12008	5.1	1
14	Hybrid electrons in the trimerized GaVO. <i>Materials Horizons</i> , <b>2021</b> , 8, 2325-2329	14.4	1
13	Anhydrous alkali copper sulfates a promising playground for new Cu <sup>2+</sup> oxide complexes: new Rb-analogues of fumarolic minerals. <i>Mineralogical Magazine</i> , 1-29	1.7	1
12	Open-framework transition metal fluorophosphates with one-dimensional antiferromagnetic chains. <i>Journal of Solid State Chemistry</i> , <b>2021</b> , 304, 122526	3.3	1
11	Direct Bi <sup>3+</sup> Bi <sup>3+</sup> contacts mediated by lone pairs in the HP-BiNiO(PO <sub>4</sub> ) polymorph. <i>CrystEngComm</i> , <b>2021</b> , 23, 5124-5130	3.3	1
10	Giant coercivity and spin clusters in high pressure polymorphs of Mn <sub>2</sub> LiReO <sub>6</sub> .. <i>Journal of Materials Chemistry C</i> , <b>2022</b> , 10, 4336-4341	7.1	1
9	Two-Orbital Three-Electron Stabilizing Interaction for Direct Co <sup>2+</sup> -As <sup>3+</sup> Bonds involving Square-Planar CoO <sub>4</sub> in BaCoAs <sub>2</sub> O <sub>5</sub> . <i>Angewandte Chemie</i> , <b>2014</b> , 126, 3175-3178	3.6	0
8	CRYSTAL STRUCTURE OF BiMOPO <sub>4</sub> , M = Co, Ni. LONE PAIR LOCALIZATION. <i>Phosphorus Research Bulletin</i> , <b>1999</b> , 10, 155-160	0.3	0
7	Fragile magnetic ordering between robust 2D-ferrimagnets in the AFe <sub>3</sub> (SeO <sub>3</sub> ) <sub>2</sub> F <sub>6</sub> (A = K, Rb, Cs) series. <i>Journal of Materials Chemistry C</i> , <b>2022</b> , 10, 2139-2148	7.1	0
6	Spin structures and band gap reduction of high-pressure triple perovskite Mn <sub>3</sub> MnTa <sub>2</sub> O <sub>9</sub> . <i>Journal of Materials Chemistry C</i> , <b>2021</b> , 9, 14916-14920	7.1	0
5	Magnetic Structures of MnTaO and Interpretation as an Hexagonal A-site Manganite. <i>Inorganic Chemistry</i> , <b>2020</b> , 59, 13128-13135	5.1	0
4	Unusual mixed-valence Cu <sup>II</sup> /Cu <sup>I</sup> coordination polymer based on 2,5-bis(pyridine-2-yl)-1,3,4-thiadiazole and thiocyanate: Synthesis, structural characterization and antimicrobial in vitro activity assessment. <i>Polyhedron</i> , <b>2021</b> , 209, 115494	2.7	0
3	Morphotropism in fumarolic mineral-related anhydrous sulfates: novel representatives in AM(SO) and AM(SO) series.. <i>Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials</i> , <b>2022</b> , 78, 153-161	1.8	0
2	Original Oxo-Centered Frameworks in Bi(VO)O and Bi(AsO)(OH)O by Supercritical Steam. <i>Inorganic Chemistry</i> , <b>2020</b> , 59, 9486-9490	5.1	
1	Compressibility of structural modulation waves in the chain compounds BaCoXO (X = As, P): a powder study.. <i>Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials</i> , <b>2022</b> , 78, 162-171	1.8	