

# Aivaras Kareiva

## List of Publications by Citations

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264  
papers

3,970  
citations

31  
h-index

48  
g-index

281  
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4,488  
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| #   | Paper   | IF  | Citations |
|-----|---|-----|-----------|
| 264 | Low temperature synthesis of nanocrystalline Y <sub>3</sub> Al <sub>5</sub> O <sub>12</sub> (YAG) and Ce-doped Y <sub>3</sub> Al <sub>5</sub> O <sub>12</sub> via different sol-gel methods. <i>Journal of Materials Chemistry</i> , <b>1999</b> , 9, 3069-3079 |     | 261       |
| 263 | Synthesis and optical properties of Ce <sup>3+</sup> -doped Y <sub>3</sub> Mg <sub>2</sub> AlSi <sub>2</sub> O <sub>12</sub> phosphors. <i>Journal of Luminescence</i> , <b>2009</b> , 129, 1356-1361   | 3.8 | 105       |
| 262 | Synthesis and optical properties of Li <sub>3</sub> Ba <sub>2</sub> La <sub>3</sub> (MoO <sub>4</sub> ) <sub>8</sub> :Eu <sup>3+</sup> powders and ceramics for pcLEDs. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 22126                         |     | 91        |
| 261 | Effect of processing conditions on the crystallinity and structure of carbonated calcium hydroxyapatite (CHAp). <i>CrystEngComm</i> , <b>2014</b> , 16, 3950  | 3.3 | 88        |
| 260 | Calcium hydroxyapatite, Ca <sub>10</sub> (PO <sub>4</sub> ) <sub>6</sub> (OH) <sub>2</sub> ceramics prepared by aqueous sol-gel processing. <i>Materials Research Bulletin</i> , <b>2006</b> , 41, 1754-1762  | 5.1 | 87        |
| 259 | Processing and characterization of sol-gel fabricated mixed metal aluminates. <i>Ceramics International</i> , <b>2005</b> , 31, 1123-1130   | 5.1 | 67        |
| 258 | On the synthesis and characterization of iron-containing garnets (Y <sub>3</sub> Fe <sub>5</sub> O <sub>12</sub> , YIG and Fe <sub>3</sub> Al <sub>5</sub> O <sub>12</sub> , IAG). <i>Chemical Physics</i> , <b>2006</b> , 323, 204-210                         | 2.3 | 60        |
| 257 | Carboxylate-Substituted Alumoxanes as Processable Precursors to Transition Metal-Aluminum and Lanthanide-Aluminum Mixed-Metal Oxides: Atomic Scale Mixing via a New Transmetalation Reaction. <i>Chemistry of Materials</i> , <b>1996</b> , 8, 2331-2340        | 9.6 | 60        |
| 256 | Y <sub>3</sub> Mg <sub>2</sub> AlSi <sub>2</sub> O <sub>12</sub> : phosphors prospective for warm-white light emitting diodes. <i>Optical Materials</i> , <b>2010</b> , 32, 1261-1265   | 3.3 | 57        |
| 255 | Synthesis of garnet structure compounds using aqueous sol-gel processing. <i>Optical Materials</i> , <b>2004</b> , 26, 123-128  | 3.3 | 57        |
| 254 | Luminescent properties of rare earth (Er, Yb) doped yttrium aluminium garnet thin films and bulk samples synthesised by an aqueous sol-gel technique. <i>Journal of the European Ceramic Society</i> , <b>2010</b> , 30, 1707-1715                              | 6   | 56        |
| 253 | Photoluminescence in sol-gel-derived YAG:Ce phosphors. <i>Journal of Crystal Growth</i> , <b>2007</b> , 304, 361-368  | 1.6 | 55        |
| 252 | Dependence of the 5D <sub>0</sub> -7F <sub>4</sub> transitions of Eu <sup>3+</sup> on the local environment in phosphates and garnets. <i>Journal of Luminescence</i> , <b>2014</b> , 147, 290-294  | 3.8 | 54        |
| 251 | Spectroscopic evaluation and characterization of different historical writing inks. <i>Vibrational Spectroscopy</i> , <b>2005</b> , 37, 61-67   | 2.1 | 52        |
| 250 | Synthesis and characterization of layered double hydroxides with different cations (Mg, Co, Ni, Al), decomposition and reformation of mixed metal oxides to layered structures. <i>Open Chemistry</i> , <b>2011</b> , 9, 275-282                                | 1.6 | 48        |
| 249 | Kinetically controlled synthesis of metastable YAlO <sub>3</sub> through molecular level design. <i>Journal of Materials Chemistry</i> , <b>2004</b> , 14, 3259   |     | 46        |
| 248 | Sol-gel synthesized far-red chromium-doped garnet phosphors for phosphor-conversion light-emitting diodes that meet the photomorphogenetic needs of plants. <i>Applied Optics</i> , <b>2014</b> , 53, 907-917   | 1.7 | 45        |

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| 247 | A comparative study of co-precipitation and sol-gel synthetic approaches to fabricate cerium-substituted MgAl layered double hydroxides with luminescence properties. <i>Applied Clay Science</i> , <b>2017</b> , 143, 175-183      | 5.2 | 44 |
| 246 | Evidence of the formation of mixed-metal garnets via sol-gel synthesis. <i>Optical Materials</i> , <b>2003</b> , 22, 241-250  | 3.5 | 44 |
| 245 | Sol-gel synthesis of superconducting YBa <sub>2</sub> Cu <sub>4</sub> O <sub>8</sub> using acetate and tartrate precursors. <i>Journal of Materials Chemistry</i> , <b>1994</b> , 4, 1267-1270                                      |     | 44 |
| 244 | Synthesis and optical properties of yellow emitting garnet phosphors for pcLEDs. <i>Journal of Luminescence</i> , <b>2013</b> , 136, 17-25  | 3.8 | 43 |
| 243 | Yttrium-doped aluminates: A chimie douce route to Y <sub>3</sub> Al <sub>5</sub> O <sub>12</sub> (YAG) and Y <sub>4</sub> Al <sub>2</sub> O <sub>9</sub> (YAM). <i>Advanced Materials</i> , <b>1997</b> , 9, 68-71                  | 2.4 | 41 |
| 242 | Sol-gel synthesis and characterization of barium titanate powders. <i>Journal of Materials Science</i> , <b>1999</b> , 34, 4853-4857  | 4.3 | 40 |
| 241 | Synthesis and optical properties of green emitting garnet phosphors for phosphor-converted light emitting diodes. <i>Optical Materials</i> , <b>2012</b> , 34, 1195-1201  | 3.3 | 39 |
| 240 | Aqueous sol-gel synthesis route for the preparation of YAG: Evaluation of sol-gel process by mathematical regression model. <i>Journal of Sol-Gel Science and Technology</i> , <b>2007</b> , 41, 193-201                            | 2.3 | 39 |
| 239 | Sol-gel (combustion) synthesis and characterization of different alkaline earth metal (Ca, Sr, Ba) stannates. <i>Journal of Sol-Gel Science and Technology</i> , <b>2012</b> , 64, 643-652  | 2.3 | 38 |
| 238 | Characterization of sol-gel process in the YBaCuO acetate/tartrate system using IR spectroscopy. <i>Vibrational Spectroscopy</i> , <b>2002</b> , 28, 263-275  | 2.1 | 38 |
| 237 | Synthesis of nanocrystalline gadolinium doped ceria via sol-gel combustion and sol-gel synthesis routes. <i>Ceramics International</i> , <b>2016</b> , 42, 3972-3988  | 5.1 | 37 |
| 236 | Historical hematite pigment: Synthesis by an aqueous sol-gel method, characterization and application for the colouration of ceramic glazes. <i>Ceramics International</i> , <b>2015</b> , 41, 4504-4513                            | 5.1 | 34 |
| 235 | Magnetic nanosized rare earth iron garnets R <sub>3</sub> Fe <sub>5</sub> O <sub>12</sub> : Sol-gel fabrication, characterization and reinspection. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2017</b> , 422, 425-433 | 2.8 | 33 |
| 234 | Synthesis and photoluminescence properties of Sm <sup>3+</sup> -doped LaMgB <sub>5</sub> O <sub>10</sub> and GdMgB <sub>5</sub> O <sub>10</sub> . <i>Journal of Luminescence</i> , <b>2011</b> , 131, 1525-1529                     | 3.8 | 32 |
| 233 | Sol-gel preparation and characterization of gadolinium aluminate. <i>Materials Chemistry and Physics</i> , <b>2007</b> , 102, 105-110   | 4.4 | 31 |
| 232 | Sol-Gel Preparation and Characterization of Codoped Yttrium Aluminium Garnet Powders. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , <b>2005</b> , 631, 2987-2993  | 1.3 | 31 |
| 231 | Sol-gel derived porous and hydrophilic calcium hydroxyapatite coating on modified titanium substrate. <i>Surface and Coatings Technology</i> , <b>2016</b> , 307, 935-940   | 4.4 | 30 |
| 230 | On the correlation between the composition of Pr <sup>3+</sup> -doped garnet type materials and their photoluminescence properties. <i>Journal of Luminescence</i> , <b>2011</b> , 131, 2754-2761                                   | 3.8 | 30 |

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|-----|---|-----|----|
| 229 | Synthesis and optical properties of green to orange tunable garnet phosphors for pcLEDs. <i>Optical Materials</i> , <b>2011</b> , 33, 992-995   | 3.3 | 30 |
| 228 | Photoluminescence of Pr <sup>3+</sup> -doped calcium and strontium stannates. <i>Journal of Luminescence</i> , <b>2016</b> , 172, 323-330   | 3.8 | 28 |
| 227 | Characterization of sol-gel processing of calcium phosphate thin films on silicon substrate by FTIR spectroscopy. <i>Vibrational Spectroscopy</i> , <b>2016</b> , 85, 16-21   | 2.1 | 28 |
| 226 | Influence of Complexing Agents on Properties of YBa <sub>2</sub> Cu <sub>4</sub> O <sub>8</sub> Superconductors Prepared by the Sol-Gel Method. <i>Journal of Solid State Chemistry</i> , <b>1996</b> , 121, 356-361  | 3.3 | 27 |
| 225 | Sol-gel synthesis of calcium phosphate-based biomaterials: A review of environmentally benign, simple, and effective synthesis routes. <i>Journal of Sol-Gel Science and Technology</i> , <b>2020</b> , 94, 551-572   | 2.3 | 26 |
| 224 | Luminescence properties of Sm <sup>3+</sup> -doped alkaline earth ortho-stannates. <i>Optical Materials</i> , <b>2014</b> , 36, 1146-1152   | 3.3 | 26 |
| 223 | Efficient cerium-based sol-gel derived phosphors in different garnet matrices for light-emitting diodes. <i>Journal of Alloys and Compounds</i> , <b>2011</b> , 509, 6247-6251  | 5.7 | 26 |
| 222 | Synthesis and Sm <sup>2+</sup> /Sm <sup>3+</sup> doping effects on photoluminescence properties of Sr <sub>4</sub> Al <sub>14</sub> O <sub>25</sub> . <i>Journal of Luminescence</i> , <b>2011</b> , 131, 2255-2262   | 3.8 | 26 |
| 221 | Synthesis and Structure of Europium Aluminium Garnet (EAG). <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , <b>2007</b> , 633, 990-993  | 1.3 | 26 |
| 220 | Sol-gel synthesis, characterization and application of selected sub-microsized lanthanide (Ce, Pr, Nd, Tb) ferrites. <i>Dyes and Pigments</i> , <b>2015</b> , 118, 176-182  | 4.6 | 25 |
| 219 | Sol-gel synthesis and investigation of un-doped and Ce-doped strontium aluminates. <i>Ceramics International</i> , <b>2012</b> , 38, 5915-5924  | 5.1 | 25 |
| 218 | CHARACTERIZATION OF CERIUM-DOPED YTTRIUM ALUMINIUM GARNET NANOPOWDERS SYNTHESIZED VIA SOL-GEL PROCESS. <i>Chemical Engineering Communications</i> , <b>2008</b> , 195, 758-769  | 2.2 | 25 |
| 217 | Spectroscopic analysis of blue cobalt smalt pigment. <i>Vibrational Spectroscopy</i> , <b>2010</b> , 52, 158-162  | 2.1 | 24 |
| 216 | On the modelling of solid state reactions. Synthesis of YAG. <i>Journal of Mathematical Chemistry</i> , <b>2005</b> , 37, 365-376   | 2.1 | 24 |
| 215 | Synthesis and characterization of iron-doped/substituted calcium hydroxyapatite from seashells <i>Macoma balthica</i> (L.). <i>Advanced Powder Technology</i> , <b>2015</b> , 26, 1287-1293   | 4.6 | 23 |
| 214 | Sol-gel synthesis and characterization of sub-microsized lanthanide (Ho, Tm, Yb, Lu) aluminium garnets. <i>Optical Materials</i> , <b>2011</b> , 33, 1179-1184  | 3.3 | 23 |
| 213 | Chemical solution deposition of pure and Gd-doped ceria thin films: Structural, morphological and optical properties. <i>Ceramics International</i> , <b>2017</b> , 43, 4280-4287   | 5.1 | 22 |
| 212 | Sol-gel derived Tb <sub>3</sub> Fe <sub>5</sub> O <sub>12</sub> and Y <sub>3</sub> Fe <sub>5</sub> O <sub>12</sub> garnets: Synthesis, phase purity, micro-structure and improved design of morphology. <i>Journal of Alloys and Compounds</i> , <b>2015</b> , 647, 189-197 | 5.7 | 22 |

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| 211 | Controllable synthesis of tricalcium phosphate (TCP) polymorphs by wet precipitation: Effect of washing procedure. <i>Ceramics International</i> , <b>2019</b> , 45, 12423-12428   | 5.1 | 21 |
| 210 | Solid-State NMR Study of Hydroxyapatite Containing Amorphous Phosphate Phase and Nanostructured Hydroxyapatite: Cut-Off Averaging of CP-MAS Kinetics and Size Profiles of Spin Clusters. <i>Journal of Physical Chemistry C</i> , <b>2014</b> , 118, 28914-28921 | 3.8 | 21 |
| 209 | On the characterization of BiMO <sub>2</sub> NO <sub>3</sub> (M=Pb, Ca, Sr, Ba) materials related with the Sillb X1 structure. <i>Journal of Solid State Chemistry</i> , <b>2004</b> , 177, 3610-3615  | 3.3 | 21 |
| 208 | Low-temperature synthesis and characterization of yttrium-gallium garnet Y <sub>3</sub> Ga <sub>5</sub> O <sub>12</sub> (YGG). <i>Materials Research Bulletin</i> , <b>2005</b> , 40, 439-446  | 5.1 | 21 |
| 207 | On the synthesis of yttria-stabilized zirconia: a comparative study. <i>Journal of Sol-Gel Science and Technology</i> , <b>2015</b> , 76, 309-319  | 2.3 | 20 |
| 206 | Sol-gel and sonochemically derived transition metal (Co, Ni, Cu, and Zn) chromites as pigments: A comparative study. <i>Ceramics International</i> , <b>2016</b> , 42, 9402-9412   | 5.1 | 20 |
| 205 | Preparation of Mg/Al layered double hydroxide (LDH) with structurally embedded molybdate ions and application as a catalyst for the synthesis of 2-adamantylidene(phenyl)amine Schiff base. <i>Polyhedron</i> , <b>2014</b> , 68, 340-345                        | 2.7 | 20 |
| 204 | Synthesis and characterization of sol-gel derived calcium hydroxyapatite thin films spin-coated on silicon substrate. <i>Ceramics International</i> , <b>2015</b> , 41, 7421-7428  | 5.1 | 20 |
| 203 | The study of preparation and photoelectrical properties of chemical bath deposited Zn, Sb and Ni-doped CuInS <sub>2</sub> films for hydrogen production. <i>Solar Energy</i> , <b>2012</b> , 86, 2584-2591   | 6.8 | 20 |
| 202 | On the sol-gel preparation of different tungstates and molybdates. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2011</b> , 105, 3-11  | 4.1 | 19 |
| 201 | Sonication accelerated formation of Mg-Al-phosphate layered double hydroxide via sol-gel prepared mixed metal oxides. <i>Scientific Reports</i> , <b>2019</b> , 9, 10419   | 4.9 | 18 |
| 200 | Calcium hydroxyapatite/whitlockite obtained from dairy products: Simple, environmentally benign and green preparation technology. <i>Ceramics International</i> , <b>2014</b> , 40, 12717-12722  | 5.1 | 18 |
| 199 | Sol-gel preparation and characterization of manganese-substituted superconducting YBa <sub>2</sub> (Cu <sub>1-x</sub> Mnx) <sub>4</sub> O <sub>8</sub> compounds. <i>Journal of the European Ceramic Society</i> , <b>2001</b> , 21, 399-408                     | 6   | 18 |
| 198 | Wet chemical determination of the oxygen content in YBa <sub>2</sub> Cu <sub>4</sub> O <sub>z</sub> samples synthesized by various methods. <i>Superconductor Science and Technology</i> , <b>1995</b> , 8, 673-675  | 3.1 | 18 |
| 197 | Sol-gel synthesis and characterization of superconducting (Y <sub>1-x</sub> Eux)Ba <sub>2</sub> (Cu <sub>1-y</sub> 57Fey) <sub>4</sub> O <sub>8</sub> samples. <i>Journal of Alloys and Compounds</i> , <b>1995</b> , 225, 586-590                               | 5.7 | 18 |
| 196 | Characterization of Sol-Gel Derived Calcium Hydroxyapatite Coatings Fabricated on Patterned Rough Stainless Steel Surface. <i>Coatings</i> , <b>2019</b> , 9, 334  | 2.9 | 17 |
| 195 | Methyl-modified hybrid organic-inorganic coatings for the conservation of copper. <i>Journal of Cultural Heritage</i> , <b>2014</b> , 15, 242-249  | 2.9 | 17 |
| 194 | Sol-gel synthesis and characterization of hybrid inorganic-organic Tb(III)-terephthalate containing layered double hydroxides. <i>Optical Materials</i> , <b>2018</b> , 80, 186-196  | 3.3 | 16 |

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| 193 | Concentration influence on temperature-dependent luminescence properties of samarium substituted strontium tetraborate. <i>Journal of Luminescence</i> , <b>2012</b> , 132, 141-146   | 3.8 | 16 |
| 192 | SnO <sub>2</sub> thin films from an aqueous citrate peroxo Sn(IV) precursor. <i>Journal of Sol-Gel Science and Technology</i> , <b>2012</b> , 62, 57-64   | 2.3 | 16 |
| 191 | Low-temperature synthesis of lutetium gallium garnet (LGG) using sol-gel technique. <i>Materials Letters</i> , <b>2008</b> , 62, 1655-1658  | 3.3 | 16 |
| 190 | Zinc and chromium co-doped calcium hydroxyapatite: Sol-gel synthesis, characterization, behaviour in simulated body fluid and phase transformations. <i>Journal of Solid State Chemistry</i> , <b>2020</b> , 284, 121202                | 3.3 | 15 |
| 189 | Low temperature synthesis and characterization of strontium stannate-titanate ceramics. <i>Materials Chemistry and Physics</i> , <b>2011</b> , 130, 1246-1250   | 4.4 | 15 |
| 188 | Sol-gel preparation and electrical behaviour of Ln: YAG (Ln = Ce, Nd, Ho, Er). <i>Journal of the Serbian Chemical Society</i> , <b>2003</b> , 68, 677-684   | 0.9 | 15 |
| 187 | Study of different chemical methods to prepare ceramic high-temperature superconductors. <i>Superconductor Science and Technology</i> , <b>1998</b> , 11, 82-87   | 3.1 | 15 |
| 186 | Sol-gel synthesis and superconducting properties of HgBa <sub>2</sub> CaCu <sub>2</sub> O <sub>6+x</sub> . <i>Physica C: Superconductivity and Its Applications</i> , <b>1995</b> , 251, 115-125  | 1.3 | 15 |
| 185 | Impact of Gadolinium on the Structure and Magnetic Properties of Nanocrystalline Powders of Iron Oxides Produced by the Extraction-Pyrolytic Method. <i>Materials</i> , <b>2020</b> , 13,   | 3.5 | 15 |
| 184 | Luminescence and vacuum ultraviolet excitation spectroscopy of samarium doped SrB <sub>4</sub> O <sub>7</sub> . <i>Journal of Alloys and Compounds</i> , <b>2020</b> , 826, 154205  | 5.7 | 14 |
| 183 | Tailoring bifunctional hybrid organic-inorganic nanoadsorbents by the choice of functional layer composition probed by adsorption of Cu ions. <i>Beilstein Journal of Nanotechnology</i> , <b>2017</b> , 8, 334-347                     | 3   | 14 |
| 182 | Fabrication of a composite of nanocrystalline carbonated hydroxyapatite (cHAP) with polylactic acid (PLA) and its surface topographical structuring with direct laser writing (DLW). <i>RSC Advances</i> , <b>2016</b> , 6, 72733-72743 | 3.7 | 14 |
| 181 | Sol-gel synthesis of calcium hydroxyapatite thin films on quartz substrate using dip-coating and spin-coating techniques. <i>Journal of Sol-Gel Science and Technology</i> , <b>2014</b> , 71, 437-446                                  | 2.3 | 14 |
| 180 | Sol-gel preparation of selected lanthanide aluminium garnets. <i>Journal of Sol-Gel Science and Technology</i> , <b>2010</b> , 55, 213-219  | 2.3 | 14 |
| 179 | Syntheses and Characterisation of Gd <sub>3</sub> Al <sub>5</sub> O <sub>12</sub> and La <sub>3</sub> Al <sub>5</sub> O <sub>12</sub> Garnets. <i>Collection of Czechoslovak Chemical Communications</i> , <b>2007</b> , 72, 321-333    |     | 14 |
| 178 | Iron substitution effects in YBa <sub>2</sub> Cu <sub>4</sub> O <sub>8</sub> synthesized by the sol-gel technique. <i>Superconductor Science and Technology</i> , <b>1995</b> , 8, 79-84  | 3.1 | 14 |
| 177 | Eu-Doped YNdAlO garnet: synthesis and structural investigation. <i>Physical Chemistry Chemical Physics</i> , <b>2017</b> , 19, 3729-3737  | 3.6 | 13 |
| 176 | Nanoscale ferroelectricity in pseudo-cubic sol-gel derived barium titanate - bismuth ferrite (BaTiO <sub>3</sub> /BiFeO <sub>3</sub> ) solid solutions. <i>Journal of Alloys and Compounds</i> , <b>2020</b> , 830, 154632              | 5.7 | 13 |

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| 175 | Optical absorption and Raman studies of neutron-irradiated Gd <sub>3</sub> Ga <sub>5</sub> O <sub>12</sub> single crystals. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2018</b> , 435, 306-312  | 1.2 | 13 |
| 174 | Europium-enabled luminescent single crystal and bulk YAG and YGG for optical imaging. <i>Optical Materials</i> , <b>2016</b> , 60, 467-473   | 3.3 | 13 |
| 173 | A novel wet polymeric precipitation synthesis method for monophasic $\beta$ -TCP. <i>Advanced Powder Technology</i> , <b>2017</b> , 28, 2325-2331  | 4.6 | 13 |
| 172 | On the limiting radius of garnet structure compounds Y <sub>3</sub> Al <sub>5</sub> M <sub>x</sub> O <sub>12</sub> (M' = Cr, Co, Mn, Ni, Cu) and Y <sub>3</sub> Fe <sub>5</sub> CoxO <sub>12</sub> (0 ≤ x ≤ 7.5) synthesized by sol-gel method. <i>Materials Chemistry and Physics</i> , <b>2012</b> , 135, 479-485  | 4.4 | 13 |
| 171 | Sol-gel chemistry approach in the preparation of precursors for the substituted superconducting oxides. <i>Journal of Non-Crystalline Solids</i> , <b>2002</b> , 311, 250-258  | 3.9 | 13 |
| 170 | Oxygen content and superconducting properties of Hg-based superconductors synthesized by sol-gel method. <i>Journal of Physics and Chemistry of Solids</i> , <b>2000</b> , 61, 789-797   | 3.9 | 13 |
| 169 | A novel synthesis route to the mercury-containing superconductor HgBa <sub>2</sub> CaCu <sub>2</sub> O <sub>6</sub> + $\delta$ partly based on the sol-gel technique. <i>Journal of Materials Chemistry</i> , <b>1995</b> , 5, 885-887   |     | 13 |
| 168 | Sol-gel combustion synthesis of high-quality chromium-doped mixed-metal garnets Y <sub>3</sub> Ga <sub>5</sub> O <sub>12</sub> and Gd <sub>3</sub> Sc <sub>2</sub> Ga <sub>3</sub> O <sub>12</sub> . <i>Journal of Alloys and Compounds</i> , <b>2018</b> , 739, 504-509   | 5.7 | 12 |
| 167 | Luminescence properties of Ln <sup>3+</sup> doped (Ce <sup>3+</sup> , Eu <sup>3+</sup> , Tb <sup>3+</sup> or Er <sup>3+</sup> ) Mixed Metals Y <sub>3</sub> (Al,In) <sub>5</sub> O <sub>12</sub> and Y <sub>3</sub> Al <sub>4.75</sub> Cr <sub>0.25</sub> O <sub>12</sub> garnets synthesized by Sol-Gel method. <i>Materials Chemistry and Physics</i> , <b>2016</b> , 170, 229-238 | 4.4 | 12 |
| 166 | Study of Eu <sup>3+</sup> and Tm <sup>3+</sup> substitution effects in sol-gel fabricated calcium hydroxyapatite. <i>Journal of Sol-Gel Science and Technology</i> , <b>2017</b> , 81, 261-267   | 2.3 | 12 |
| 165 | Synthesis and characterization of spherical amorphous alumo-silicate nanoparticles using RF thermal plasma method. <i>Journal of Non-Crystalline Solids</i> , <b>2013</b> , 359, 9-14  | 3.9 | 12 |
| 164 | Dielectric and Conductive Properties of Hydrotalcite. <i>Ferroelectrics</i> , <b>2011</b> , 417, 136-142   | 0.6 | 12 |
| 163 | Superconductivity in HgBa <sub>2</sub> Ca <sub>2</sub> Cu <sub>3</sub> O <sub>8</sub> + $\delta$ synthesized by different methods. <i>Materials Research Bulletin</i> , <b>1995</b> , 30, 1207-1216  | 5.1 | 12 |
| 162 | Formation peculiarities of iron (III) acetate: potential precursor for iron metal-organic frameworks (MOFs). <i>Lithuanian Journal of Physics</i> , <b>2016</b> , 56,  | 1.1 | 12 |
| 161 | Sol-gel synthesis, phase composition, morphological and structural characterization of Ca <sub>10</sub> (PO <sub>4</sub> ) <sub>6</sub> (OH) <sub>2</sub> : XRD, FTIR, SEM, 3D SEM and solid-state NMR studies. <i>Journal of Molecular Structure</i> , <b>2016</b> , 1119, 1-11   | 3.4 | 12 |
| 160 | Thermally Induced Crystallization and Phase Evolution of Amorphous Calcium Phosphate Substituted with Divalent Cations Having Different Sizes. <i>Crystal Growth and Design</i> , <b>2021</b> , 21, 1242-1248  | 3.5 | 12 |
| 159 | Application of sol-gel method for the conservation of copper alloys. <i>Microchemical Journal</i> , <b>2016</b> , 124, 623-628   | 4.8 | 11 |
| 158 | Transition metal substitution effects in sol-gel derived Mg <sub>3</sub> -xM <sub>x</sub> /Al <sub>1</sub> (M = Mn, Co, Ni, Cu, Zn) layered double hydroxides. <i>Materials Chemistry and Physics</i> , <b>2019</b> , 237, 121863  | 4.4 | 11 |

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| 157 | Dielectric and Impedance Spectroscopy of BaSnO <sub>3</sub> and Ba <sub>2</sub> SnO <sub>4</sub> . <i>Ferroelectrics</i> , <b>2014</b> , 464, 49-58  | 0.6 | 11 |
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