

# Elena Kharitonova

## List of Publications by Year in descending order

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80  
papers

750  
citations

566801

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h-index

642321

23  
g-index

81  
all docs

81  
docs citations

81  
times ranked

691  
citing authors

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | Green nanocomposite gels based on binary network of sodium alginate and percolating halloysite clay nanotubes for 3D printing. Carbohydrate Polymers, 2022, 282, 119106.   | 5.1 | 17        |
| 2  | A New Look at the Chemical Recycling of Polypropylene: Thermal Oxidative Destruction in Aqueous Oxygen-Enriched Medium. Polymers, 2022, 14, 744.   | 2.0 | 3         |
| 3  | Influence of the structure of iron carbonyl precursor on the properties of iron oxide nanoparticles obtained from it. Journal of Nanoparticle Research, 2022, 24, .  | 0.8 | 0         |
| 4  | Mechanism of Conductivity in the Rare Earth Layered $\text{Ln}_2\text{MoO}_6$ ( $\text{Ln} = \text{La}, \text{Pr}$ ). Journal of Applied Physics, 2022, 126, 9623-9633.  | 1.5 | 7         |
| 5  | Relationship between the Omnipophobic Properties and the Swelling Degree of SLIPS Coatings Based on Polymer Gel Thin Films. Doklady Physical Chemistry, 2021, 497, 28-33.  | 0.2 | 2         |
| 6  | Green approach for fabrication of bacterial cellulose-chitosan composites in the solutions of carbonic acid under high pressure $\text{CO}_2$ . Carbohydrate Polymers, 2021, 258, 117614.  | 5.1 | 10        |
| 7  | Morphology study of metal oxide nanoparticles and aerogels produced via thermal decomposition of metal carbonyls in supercritical carbon dioxide. Journal of Nanoparticle Research, 2021, 23, 1.   | 0.8 | 1         |
| 8  | Structure and Properties of $\text{Ln}_2\text{MoO}_6$ Oxymolybdates ( $\text{Ln} = \text{La}, \text{Pr}, \text{Nd}$ ) Doped with Magnesium. Crystals, 2021, 11, 611.   | 1.0 | 3         |
| 9  | How does processing in supercritical carbon dioxide influence the Nafion film properties?. Colloid and Polymer Science, 2021, 299, 1863-1875.  | 1.0 | 1         |
| 10 | $\text{La}_2\text{MoO}_6$ Oxymolybdates Doped with Sodium: Crystal Growth, Features of the Structure, and Properties. Crystal Growth and Design, 2021, 21, 7043-7052.  | 1.4 | 3         |
| 11 | Structure and Physical Properties of Mg-Containing Oxymolybdates $\text{La}_2\text{MoO}_6$ . Crystallography Reports, 2020, 65, 697-703.   | 0.1 | 7         |
| 12 | Fluorite-like $\text{Li}_x\text{Ln}_{5-x}\text{Mo}_3\text{O}_{16.5-x}$ ( $\text{Ln} = \text{La}, \text{Pr}, \text{Nd}$ ) compounds isostructural with $\text{Nd}_5\text{Mo}_3\text{O}_{16}$ . Journal of the American Ceramic Society, 2020, 103, 6414-6423. | 1.9 | 7         |
| 13 | Synthesis, structure and properties of layered $\text{Pr}_2\text{MoO}_6$ -based oxymolybdates doped with Mg. Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials, 2020, 76, 492-501.                                     | 0.5 | 9         |
| 14 | Oxygen diffusion in Mg-doped Sm and Gd zirconates with pyrochlore structure. Ionics, 2020, 26, 4621-4633.  | 1.2 | 19        |
| 15 | Structural organization of bacterial cellulose: The origin of anisotropy and layered structures. Carbohydrate Polymers, 2020, 237, 116140.   | 5.1 | 33        |
| 16 | Revealing defects hampering the formation of epoxy networks with extremely high thermal properties: Theory and experiments. Polymer Testing, 2020, 90, 106645.   | 2.3 | 3         |
| 17 | Thermal decomposition of manganese carbonyl in supercritical $\text{CO}_2$ as a simple and effective approach to obtain manganese oxide aerogels. Journal of Sol-Gel Science and Technology, 2019, 92, 116-123.  | 1.1 | 4         |
| 18 | Evolution of Oxygen Ion and Proton Conductivity in Ca-Doped $\text{Ln}_2\text{Zr}_2\text{O}_7$ ( $\text{Ln} = \text{Sm}, \text{Gd}$ ), Located Near Pyrochlore-Fluorite Phase Boundary. Materials, 2019, 12, 2452.   | 1.3 | 24        |

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|----|---|-----|-----------|
| 19 | Effect of Sodium and Fluorine Co-Doping on the Properties of Fluorite-Like Rare-Earth Molybdates of $\text{Nd}_5\text{Mo}_3\text{O}_{16}$ Type. <i>European Journal of Inorganic Chemistry</i> , 2019, 2019, 1250-1256.                             | 1.0 | 7         |
| 20 | Curing cycloaliphatic epoxy resin with 4-methylhexahydrophthalic anhydride: Catalyzed vs. uncatalyzed reaction. <i>Polymer</i> , 2019, 178, 121590.   | 1.8 | 19        |
| 21 | Electrochemically active dispersed tungsten oxides obtained from tungsten hexacarbonyl in supercritical carbon dioxide. <i>Journal of Materials Science</i> , 2019, 54, 9426-9441.  | 1.7 | 4         |
| 22 | Cycloaliphatic epoxy resin cured with anhydride in the absence of catalyst. <i>Colloid and Polymer Science</i> , 2019, 297, 409-416.  | 1.0 | 18        |
| 23 | Synthesis and Electrical Properties of a Fluorite-Like $\text{Nd}_5\text{Mo}_3\text{O}_{16}$ Compound with Partial Substitution of Molybdenum by Tungsten, Niobium, or Vanadium. <i>Crystallography Reports</i> , 2018, 63, 127-131.                | 0.1 | 4         |
| 24 | Proton and oxygen ion conductivity in the pyrochlore/fluorite family of $\text{Ln}_2\text{CaxScMO}_7$ ( $\text{Ln} = \text{La}$ ). <i>Tj ETQq0 0 0 rgBT / Overlock 10 T</i>   | 1.6 | 28        |
| 25 | Synthesis of manganese oxide electrocatalysts in supercritical carbon dioxide. <i>Journal of Materials Science</i> , 2018, 53, 9449-9462.   | 1.7 | 11        |
| 26 | Thermal and Optical Properties of Polyimide Films with Dispersed SWCNTs for Laser Applications. <i>Physica Status Solidi (B): Basic Research</i> , 2018, 255, 1700283.  | 0.7 | 3         |
| 27 | Modification of Nafion with silica nanoparticles in supercritical carbon dioxide for electrochemical applications. <i>Journal of Membrane Science</i> , 2018, 564, 106-114.   | 4.1 | 19        |
| 28 | Structure of $\text{Nd}_5\text{Mo}_3\text{O}_{16} + \hat{\Gamma}$ Single Crystals Doped with Tungsten. <i>Crystallography Reports</i> , 2018, 63, 339-343.  | 0.1 | 6         |
| 29 | Accurate X-ray diffraction studies of $\text{KTiOPO}_4$ single crystals doped with niobium. <i>Crystallography Reports</i> , 2017, 62, 66-77.   | 0.1 | 4         |
| 30 | Low molecular weight poly(3-hydroxybutyrate) microparticles synthesized by piezoelectric spray drying for the sustained release of paclitaxel. <i>Nanotechnologies in Russia</i> , 2017, 12, 218-225.   | 0.7 | 4         |
| 31 | Synthesis and electrophysical properties of some rare-earth molybdates with fluorite-like structure of the $\text{Nd}_5\text{Mo}_3\text{O}_{16}$ type. <i>Crystallography Reports</i> , 2017, 62, 469-473.  | 0.1 | 7         |
| 32 | Synthesis and Unusual Properties of Tetragonal Pb-Containing Oxymolybdates Based on $\text{La}_2\text{Mo}_6\text{O}_{26}$ . <i>European Journal of Inorganic Chemistry</i> , 2017, 2017, 5582-5587.   | 1.0 | 12        |
| 33 | Phase Relations and Physical Properties of Layered Pb-Containing $\text{Nd}_2\text{Mo}_6\text{O}_{26}$ Compounds. <i>European Journal of Inorganic Chemistry</i> , 2016, 2016, 1022-1029.   | 1.0 | 14        |
| 34 | Synthesis, properties, and structure of potassium titanyl phosphate single crystals doped with chromium. <i>Crystallography Reports</i> , 2015, 60, 805-813.  | 0.1 | 2         |
| 35 | Structure of fluorite-like compound based on $\text{Nd}_5\text{Mo}_3\text{O}_{16}$ with lead partly substituting for neodymium. <i>Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials</i> , 2015, 71, 186-193. | 0.5 | 15        |
| 36 | Culturing of Mouse Mesenchymal Stem Cells on Poly-3-Hydroxybutyrate Scaffolds. <i>Bulletin of Experimental Biology and Medicine</i> , 2015, 159, 567-571.   | 0.3 | 11        |

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|----|---|-----|-----------|
| 37 | Oxygen-conducting compounds with La <sub>2</sub> Mo <sub>2</sub> O <sub>9</sub> structure in the ternary system La <sub>2</sub> Mo <sub>2</sub> O <sub>9</sub> -Sm <sub>2</sub> W <sub>2</sub> O <sub>9</sub> -Sm <sub>2</sub> Mo <sub>2</sub> O <sub>9</sub> + : Synthesis and properties. Crystallography Reports, 2014, 59, 574-579. | 0.1 | 1         |
| 38 | X-ray diffraction study of oxygen-conducting compounds Ln <sub>2</sub> Mo <sub>2</sub> O <sub>9</sub> (Ln= La, Pr). Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials, 2014, 70, 669-675.   | 0.5 | 3         |
| 39 | Single-crystal structure of vanadium-doped Nd <sub>5</sub> Mo <sub>3</sub> O <sub>16</sub> . Crystallography Reports, 2014, 59, 141-145.  | 0.1 | 8         |
| 40 | Single-crystal structure of vanadium-doped La <sub>2</sub> Mo <sub>2</sub> O <sub>9</sub> . Crystallography Reports, 2013, 58, 829-834.   | 0.1 | 6         |
| 41 | Structure of polytetrafluoroethylene powders obtained by photochemical polymerization of gaseous monomer. Inorganic Materials: Applied Research, 2013, 4, 131-137.  | 0.1 | 3         |
| 42 | Cell attachment on poly(3-hydroxybutyrate)-poly(ethylene glycol) copolymer produced by Azotobacter chroococcum 7B. BMC Biochemistry, 2013, 14, 12.  | 4.4 | 49        |
| 43 | Novel composite Zr/PBI-O-PhT membranes for HT-PEFC applications. Beilstein Journal of Nanotechnology, 2013, 4, 481-492.   | 1.5 | 31        |
| 44 | The Terpolymer Produced by Azotobacter Chroococcum 7B: Effect of Surface Properties on Cell Attachment. PLoS ONE, 2013, 8, e57200.  | 1.1 | 32        |
| 45 | Crystal structure of the oxygen conducting compound Nd <sub>5</sub> Mo <sub>3</sub> O <sub>16</sub> . Zeitschrift Fur Kristallographie - Crystalline Materials, 2012, 227, 869-875.   | 0.4 | 26        |
| 46 | Phase transitions in ferroelectric polymer films. Bulletin of the Russian Academy of Sciences: Physics, 2012, 76, 747-748.  | 0.1 | 0         |
| 47 | Properties of fractions of ultradisperse polytetrafluoroethylene soluble in supercritical carbon dioxide. Polymer Science - Series A, 2012, 54, 443-450.  | 0.4 | 4         |
| 48 | Polymorphism and properties of Bi <sub>2</sub> W <sub>1-x</sub> Mo <sub>x</sub> O <sub>6</sub> aurivillius phases. Inorganic Materials, 2011, 47, 183-191.  | 0.2 | 7         |
| 49 | Phase transition and electrical properties of gallium- and indium-doped Bi <sub>10</sub> Ti <sub>3</sub> W <sub>3</sub> O <sub>30</sub> . Inorganic Materials, 2011, 47, 513-520.   | 0.2 | 1         |
| 50 | Structure and properties of antimony-doped lanthanum molybdate La <sub>2</sub> Mo <sub>2</sub> O <sub>9</sub> . Crystallography Reports, 2011, 56, 435-442.   | 0.1 | 6         |
| 51 | Synthesis and phase transitions of oxide-ion conducting compound La <sub>2</sub> Mo <sub>2</sub> O <sub>9</sub> doped with alkaline metals. Crystallography Reports, 2011, 56, 315-320.   | 0.1 | 3         |
| 52 | Synthesis and properties of oxide ion conductor Pr <sub>2</sub> Mo <sub>2</sub> O <sub>9</sub> with La <sub>2</sub> Mo <sub>2</sub> O <sub>9</sub> structure. Crystallography Reports, 2011, 56, 1066-1069.   | 0.1 | 7         |
| 53 | Specific features of phase transitions and the conduction of La <sub>2</sub> Mo <sub>2</sub> O <sub>9</sub> oxide-ion conducting compound doped with vanadium. Crystallography Reports, 2010, 55, 276-282.  | 0.1 | 21        |
| 54 | Synthesis, properties, and structure of potassium titanyl phosphate single crystals doped with hafnium. Crystallography Reports, 2010, 55, 404-411.   | 0.1 | 6         |

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|----|--|-----|-----------|
| 55 | 10.1007/s11445-008-2018-y. , 2010, 53, 285.  |     | 0         |
| 56 | Phase transitions and electrical conductivity of Bi-doped La <sub>2</sub> Mo <sub>2</sub> O <sub>9</sub> oxide ion conductors. Physica Status Solidi (A) Applications and Materials Science, 2009, 206, 2564-2568.                           | 0.8 | 26        |
| 57 | Complex Effect of Partial Substitution of La <sup>3+</sup> by Ca <sup>2+</sup> on the Stability of Fast Oxide-ion Conductor La <sub>2</sub> Mo <sub>2</sub> O <sub>9</sub> . European Journal of Inorganic Chemistry, 2008, 2008, 1813-1821. | 1.0 | 31        |
| 58 | Synthesis and properties of zirconium-doped RbTiOPO <sub>4</sub> single crystals. Crystallography Reports, 2008, 53, 285-290.  | 0.1 | 7         |
| 59 | Phase transition peculiarities in LAMOX single crystals. Journal of Physics Condensed Matter, 2008, 20, 195210.  | 0.7 | 11        |
| 60 | Complex Study of Single-Walled Nanotubes Synthesized from C:BN Mixtures. Fullerenes Nanotubes and Carbon Nanostructures, 2008, 16, 368-373.  | 1.0 | 2         |
| 61 | Conductivity and phase transitions in a potassium-magnesium molybdate. Mendeleev Communications, 2007, 17, 95-96.  | 0.6 | 2         |
| 62 | Synthesis and electrical properties of Bi <sub>2</sub> V <sub>1-x</sub> Ge <sub>x</sub> O <sub>5</sub> + y solid solutions. Inorganic Materials, 2007, 43, 55-59.  | 0.2 | 12        |
| 63 | Synthesis and electrical properties of mixed-layer Aurivillius phases. Inorganic Materials, 2007, 43, 1340-1344.   | 0.2 | 15        |
| 64 | Phase transitions in double molybdates K <sub>2</sub> M <sub>2</sub> (MoO <sub>4</sub> ) <sub>3</sub> with M = Mg or Co. Russian Journal of Inorganic Chemistry, 2007, 52, 1643-1647.  | 0.3 | 2         |
| 65 | Synthesis and electrical properties of Aurivillius phases in the Bi <sub>2</sub> MoO <sub>6</sub> -Bi <sub>2</sub> VO <sub>5.5</sub> system. Crystallography Reports, 2007, 52, 316-319.   | 0.1 | 5         |
| 66 | Oxide-ion-conducting phases in the Bi <sub>2</sub> MoO <sub>6</sub> -Bi <sub>2</sub> VO <sub>5.5</sub> system. Inorganic Materials, 2006, 42, 1255-1259.   | 0.2 | 2         |
| 67 | Single crystal growth and physical properties of RbTiOPO <sub>4</sub> doped with niobium. Journal of Crystal Growth, 2005, 275, e647-e650.   | 0.7 | 2         |
| 68 | Synthesis, physical properties, and atomic structure of niobium-doped RbTiOPO <sub>4</sub> crystals. Crystallography Reports, 2005, 50, 137-141.   | 0.1 | 2         |
| 69 | Oxygen-conducting crystals of La <sub>2</sub> Mo <sub>2</sub> O <sub>9</sub> : Growth and main properties. Crystallography Reports, 2005, 50, 874-876.   | 0.1 | 16        |
| 70 | Electrical Conductivity of Bi <sub>2</sub> WO <sub>6</sub> Crystals Doped with Ca <sup>2+</sup> , Pb <sup>2+</sup> , Sr <sup>2+</sup> , and Ba <sup>2+</sup> . Inorganic Materials, 2005, 41, 757-759.                                       | 0.2 | 8         |
| 71 | Superionic Conductors in the Bi <sub>2</sub> WO <sub>6</sub> -Bi <sub>2</sub> VO <sub>5.5</sub> System. Inorganic Materials, 2005, 41, 760-765.  | 0.2 | 7         |
| 72 | Phase transition in single crystal Cs <sub>2</sub> Nb <sub>4</sub> O <sub>11</sub> . Journal of Chemical Physics, 2005, 122, 144503.   | 1.2 | 9         |

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|----|--|-----|-----------|
| 73 | Growth and properties of Zr-doped KTiOPO <sub>4</sub> crystals. Inorganic Materials, 2004, 40, 1321-1323.  | 0.2 | 21        |
| 74 | Title is missing!. Inorganic Materials, 2003, 39, 599-604.   | 0.2 | 0         |
| 75 | Title is missing!. Inorganic Materials, 2003, 39, 127-132.   | 0.2 | 0         |
| 76 | Title is missing!. Inorganic Materials, 2002, 38, 819-824.   | 0.2 | 7         |
| 77 | Growth and Electrical Properties of Cs <sub>2</sub> Nb <sub>4</sub> O <sub>11</sub> Crystals. Inorganic Materials, 2001, 37, 508-509.  | 0.2 | 0         |
| 78 | Growth, structure, and properties of ferroelectric "ferroelastic" superionic K <sub>3</sub> Nb <sub>3</sub> B <sub>2</sub> O <sub>12</sub> and K <sub>3</sub> <sup>x</sup> NaxNb <sub>3</sub> B <sub>2</sub> O <sub>12</sub> crystals. Crystallography Reports, 2000, 45, 816-820. | 0.1 | 6         |
| 79 | Celgard/ PIM #1 proton conducting composite membrane with reduced vanadium permeability. Journal of Applied Polymer Science, 0, , 51985.   | 1.3 | 2         |
| 80 | Chitosan oxidative scission in self-neutralizing biocompatible solution of peroxycarbonic acid under high pressure <sc> CO <sub>2</sub> </sc>. Journal of Applied Polymer Science, 0, , .  | 1.3 | 0         |