

# Alexander Ad Plekhovich

## List of Publications by Year in descending order

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37  
papers

297  
citations

933447

10  
h-index

996975

15  
g-index

37  
all docs

37  
docs citations

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times ranked

287  
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#	ARTICLE	IF	CITATIONS
1	Glass-forming region and physical properties of the glasses in the $\text{TeO}_2\text{-MoO}_3\text{-Bi}_2\text{O}_3$ system. <i>Journal of Non-Crystalline Solids</i> , 2016, 452, 130-135.	3.1	27
2	Glass-forming region and optical properties of the $\text{TeO}_2\text{-ZnO-NiO}$ system. <i>Journal of Non-Crystalline Solids</i> , 2018, 479, 29-41.	3.1	27
3	Colloid chemical properties of binary sols as precursors for YAG optical ceramics. <i>Ceramics International</i> , 2016, 42, 17571-17580.	4.8	19
4	Preparation of chalcogenide glasses of $\text{As}_2\text{S}_3$ , $\text{GeS}_2$ , $\text{GeSe}_2$ systems from monoisotopic elements. <i>Journal of Non-Crystalline Solids</i> , 2013, 377, 12-15.	3.1	17
5	Fiber sensor on the basis of $\text{Ge}_{26}\text{As}_{17}\text{Se}_{25}\text{Te}_{32}$ glass for FEWS analysis. <i>Optical Materials</i> , 2018, 75, 525-532.	3.6	17
6	Thermal properties of high purity zinc-tellurite glasses for fiber-optics. <i>Thermochimica Acta</i> , 2019, 673, 192-197.	2.7	15
7	Preparation and investigation of high purity $\text{GeTeAgI}$ glasses for optical application. <i>Journal of Non-Crystalline Solids</i> , 2013, 377, 1-7.	3.1	14
8	Kinetics and formation mechanism of yttrium aluminum garnet from an amorphous phase prepared by the sol-gel method. <i>Ceramics International</i> , 2015, 41, 10616-10623.	4.8	14
9	Thermophysical characterization of $\text{TeO}_2\text{-WO}_3\text{-Bi}_2\text{O}_3$ glasses for optical applications. <i>Journal of Non-Crystalline Solids</i> , 2021, 553, 120465.	3.1	12
10	Preparation and investigation of $\text{Ga}_x\text{Ge}_{25}\text{As}_{15}\text{Se}_{60-x}$ ( $x=1\text{-}5$ ) glasses. <i>Optical Materials</i> , 2017, 67, 38-43.	3.6	11
11	Preparation of core-clad arsenic rich $\text{As-Ge-Se}$ glass fiber. <i>Journal of Non-Crystalline Solids</i> , 2016, 448, 11-15.	3.1	10
12	Preparation and investigation of $\text{GeS}_2\text{-SbI}$ glasses for infrared fiber optics. <i>Optical Materials</i> , 2016, 52, 87-91.	3.6	9
13	Effect of the composition of starting yttrium aluminum hydroxide sols on the properties of yttrium aluminum garnet powders. <i>Inorganic Materials</i> , 2014, 50, 1030-1034.	0.8	7
14	Preparation of glasses in the $\text{GeS}_2\text{-Sb}_2\text{Se}_3\text{-I}$ system via volatile iodides. <i>Journal of Non-Crystalline Solids</i> , 2014, 405, 100-103.	3.1	7
15	Preparation and investigation of glasses in the $\text{GeS}_2\text{-GeI}_4$ system. <i>Optical Materials</i> , 2015, 42, 340-344.	3.6	7
16	Preparation and investigation of $[\text{GeSe}_4]_{100-x}\text{I}_x$ glasses as promising materials for infrared fiber sensors. <i>Optical Materials</i> , 2016, 60, 438-442.	3.6	7
17	Effect of iodine on properties of $[\text{GeS}_{1.5}]_{100-x}\text{I}_x$ ( $x=0\text{-}10$ ) glasses. <i>Journal of Non-Crystalline Solids</i> , 2018, 480, 8-12.	3.1	7
18	Thermophysical properties and crystal structure of high-purity monoisotopic $^{80}\text{Se}$ . <i>Doklady Chemistry</i> , 2016, 466, 11-14.	0.9	6

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19	Thermal decomposition study of GeSi <sub>2</sub> and Ge <sub>2</sub> S <sub>3</sub> I <sub>2</sub> glassy alloys. Journal of Non-Crystalline Solids, 2015, 411, 40-44.	3.1	5
20	New method for preparation of specially pure glasses in the Ge-S-I system by melting the products of thermal decomposition of Ge <sub>2</sub> S <sub>3</sub> I <sub>2</sub> . Journal of Non-Crystalline Solids, 2015, 429, 178-182.	3.1	5
21	Comparative Study of Gas-Dynamic Processes in Inductively Coupled Argon-Hydrogen Plasma Containing Boron Trichloride and Boron Trifluoride. High Energy Chemistry, 2019, 53, 155-161.	0.9	5
22	Standard thermodynamic functions of GeS :Bi (1-x) glasses. Journal of Non-Crystalline Solids, 2019, 509, 74-79.	3.1	5
23	Effect of Gas Dynamic Conditions in Plasma Reactor on Efficiency of Boron and Silicon Synthesis in Inductively Coupled Argon-Hydrogen Plasma. High Energy Chemistry, 2019, 53, 482-489.	0.9	5
24	Kinetic effects of substitution Er <sup>3+</sup> for Y <sup>3+</sup> in (Y <sub>1-x</sub> Er <sub>x</sub> ) <sub>3</sub> Al <sub>5</sub> O <sub>12</sub> garnet. Journal of the European Ceramic Society, 2021, 41, 5324-5330.	5.7	5
25	Crystallization kinetics of (TeO <sub>2</sub> ) <sub>1-x</sub> (MoO <sub>3</sub> ) <sub>x</sub> glasses studied by differential scanning calorimetry. Inorganic Materials, 2015, 51, 1288-1295.	0.8	4
26	Glass Transition Characteristics and Thermodynamic Functions of (1-x)(0.75TeO <sub>2</sub> -0.25WO <sub>3</sub> ) + xLa <sub>2</sub> O <sub>3</sub> Glasses. Inorganic Materials, 2018, 54, 706-712.	0.8	4
27	Calorimetric and volumetric functions of As <sub>x</sub> Se <sub>1-x</sub> (x=0.3-0.5) glasses and their model representation. Journal of Thermal Analysis and Calorimetry, 2020, 139, 1443-1452.	3.6	4
28	Modeling Thermal Gas Dynamic Processes of the Production of Silicon from Its Halides. Theoretical Foundations of Chemical Engineering, 2020, 54, 631-640.	0.7	4
29	A mathematical model for analysis of sequentially coupled crystallization-melting differential scanning calorimetry peaks and the use of the model for assessing the crystallization resistance of tellurite glasses. Inorganic Materials, 2016, 52, 604-610.	0.8	3
30	Preparation and investigation of Ga <sub>5</sub> [GeS] <sub>8</sub> Si <sub>10</sub> glasses. Journal of Non-Crystalline Solids, 2017, 457, 60-64.	3.1	3
31	Crystallization Resistance of Optically Active GeS <sub>2</sub> -Bi <sub>2</sub> O <sub>3</sub> Glasses. Inorganic Materials, 2019, 55, 1039-1045.	0.8	3
32	Chemical and physical transformations in Ge-S-I glass preparation. Inorganic Materials, 2012, 48, 428-432.	0.8	2
33	Analysis of Mullite Formation in the Core Glass of a Chromium-Doped Aluminosilicate Fiber. Inorganic Materials, 2018, 54, 940-948.	0.8	2
34	Simultaneous Thermal Analysis of Reactions Underlying Self-Propagating High-Temperature Synthesis of Scandium Oxide Powders. Inorganic Materials, 2019, 55, 149-154.	0.8	2
35	Thermodynamic Analysis of the Crystallization Resistance of the Ge-S-Bi Glasses. Russian Journal of Inorganic Chemistry, 2021, 66, 1153-1160.	1.3	2
36	Simulation of Gas-Dynamic and Thermal Processes of Reduction of Molybdenum Fluoride and Synthesis of Its Carbide in Inductively Coupled Radiofrequency Plasma. High Energy Chemistry, 2020, 54, 469-476.	0.9	1

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37	Effect of the Isotopic Composition of Fe on the Kinetics of Its $\hat{\alpha} \rightarrow \hat{\alpha}'$ Phase Transition. Inorganic Materials, 2022, 58, 252-258.	0.8	0