Andrey S Tverjanovich

List of Publications by Year
in descending order

78 papers	978 citations	516215 16 h-index	500791 28 g-index
78 all docs	78 docs citations	78 times ranked	886 citing authors

#	Article	IF	Citations
1	Increasing the Plasticity of Chalcogenide Glasses in the System Ag₂Seâ€“Sb₂Se₃â€“GeSe₂. Chemistry of Materials, 2022, 34, 2743-2751.	3.2	4
2	Superionic nanolayered structure based on amorphous Ag2Se. Journal of Physics and Chemistry of Solids, 2021, 148, 109731.	1.9	1
3	Bulk Glassy GeTe₂: A Missing Member of the Tetrahedral GeX₂ Family and a Precursor for the Next Generation of Phase-Change Materials. Chemistry of Materials, 2021, 33, 1031-1045.	3.2	17
4	Laser initiation of modified complex cobalt (III) perchlorate. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2021, 647, 1254-1260.	0.6	2
5	Unraveling the Atomic Structure of Bulk Binary Gaâ€“Te Glasses with Surprising Nanotectonic Features for Phase-Change Memory Applications. ACS Applied Materials & Interfaces, 2021, 13, 37363-37379.	4.0	12
6	Atypical phase-change alloy Ga₂Te₃: atomic structure, incipient nanotectonic nuclei, and multilevel writing. Journal of Materials Chemistry C, 2021, 9, 17019-17032.	2.7	12
7	Pressure-Driven Chemical Disorder in Glassy As₂S₃ up to 14.7 GPa, Postdensification Effects, and Applications in Materials Design. Journal of Physical Chemistry B, 2020, 124, 430-442.	1.2	16
8	Glassy GaS: transparent and unusually rigid thin films for visible to mid-IR memory applications. Physical Chemistry Chemical Physics, 2020, 22, 25560-25573.	1.3	15
9	Features of Chemical Interactions in Silver Chalcogenides Responsible for Their High Plasticity. Russian Journal of General Chemistry, 2020, 90, 2203-2204.	0.3	2
10	Influence of the Mechanism of the Initial Stages of the Ligand Decomposition on the Initiating Ability of Cobalt(III) Ammine Tetrazolate Complexes. Russian Journal of General Chemistry, 2020, 90, 640-647.	0.3	1
11	Intrinsic secondâ€order nonlinearity in chalcogenide glasses containing HgI₂. Journal of the American Ceramic Society, 2020, 103, 3070-3075.	1.9	3
12	High-Precision Studies of the Compressibility and Relaxation of g-As2S3 Glasses at High Hydrostatic Pressures up to 8.6 GPa. Journal of Experimental and Theoretical Physics, 2020, 130, 571-578.	0.2	3
13	The effect of the concentration of high-absorbing inclusions on the laser initiation threshold of energetic materials: model and experiment. Journal of Energetic Materials, 2019, 37, 420-432.	1.0	2
14	Effect of Graphene Additions on the NCP Initiation Threshold in Spectrum-Selective Excitation. Russian Journal of Applied Chemistry, 2019, 92, 248-253.	0.1	1
15	Bent HgI₂ Molecules in the Melt and Sulfide Glasses: Implications for Nonlinear Optics. Chemistry of Materials, 2019, 31, 4103-4112.	3.2	13
16	Interaction of Laser Radiation with Explosives, Applications and Perspectives. Springer Series in Chemical Physics, 2019, , 493-511.	0.2	2
17	The Influence of the V2O5 Â· GeO2 Glass Phase on the Properties of AgI Nanolayers. Russian Journal of Physical Chemistry B, 2018, 12, 617-619.	0.2	1
18	Fabrication of stoichiometric oriented Ag2Se thin film by laser ablation. Thin Solid Films, 2018, 666, 172-176.	0.8	14

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19	Structure of Seâ€“Te glasses by Raman spectroscopy and <scp>DFT</scp> modeling. Journal of the American Ceramic Society, 2018, 101, 5188-5197.	1.9	31
20	Laser Initiation of Photo- and Thermal Processes on a Pentaammine (5-Nytrotetrazolato-N2) Cobalt(III) Perchlorate Example. Glass Physics and Chemistry, 2018, 44, 120-122.	0.2	5
21	Determination of As<scp>SI</scp>â€Sb<scp>SI</scp> glasses shortâ€range structure via Raman spectroscopy, <scp>XPS</scp> and <scp>XRD</scp>. International Journal of Applied Glass Science, 2018, 9, 85-89.	1.0	13
22	Interaction of CuCl₂ with poly(ethylene glycol) under microwave radiation. Materials Research Express, 2017, 4, 015006.	0.8	6
23	Physico-chemical and optical properties of Er³⁺-doped and Er³⁺/Yb³⁺-co-doped Ge₂₅Ga_{9.5}Sb_{0.5}S₆₅ chalcogenide glass. Pure and Applied Chemistry, 2017, 89, 429-436.	0.9	7
24	The effect of carbon nanoparticles on the thermal and photolytic properties of the (5-nitrotetrazolato-N2) pentaammin-cobalt(III) perchlorate complex. Glass Physics and Chemistry, 2017, 43, 111-113.	0.2	3
25	Microwave assisted polyol synthesis of CuGaSe2 nanoparticles for solar cell application. Functional Materials Letters, 2017, 10, 1750050.	0.7	3
26	Decomposition of pentaammineaquacobalt(III) perchlorate under laser radiation action. Russian Journal of General Chemistry, 2017, 87, 1451-1455.	0.3	4
27	One-stage pulsed laser deposition of conductive zinc oxysulfide layers. Applied Surface Science, 2017, 425, 722-727.	3.1	9
28	On the mechanism of cobalt(III) aminates pyrolysis. Russian Journal of General Chemistry, 2017, 87, 2600-2604.	0.3	6
29	LASER-INDUCED DECOMPOSITION OF [CO(NH3)5 (CN5 O2)](CLO4)2. International Journal of Energetic Materials and Chemical Propulsion, 2016, 15, 113-122.	0.2	2
30	Chalcogenide glass for AgI-based nanolayered films. Glass Physics and Chemistry, 2016, 42, 530-534.	0.2	2
31	The investigation of dye aging dynamics in writing inks using Raman spectroscopy. Dyes and Pigments, 2016, 131, 239-245.	2.0	22
32	The investigation of aging process of writing inks printed on paper using Raman spectroscopy. , 2016, , .		0
33	Decomposition of cobalt(III) nitrotetrazolato amminates under the action of laser light. Russian Journal of Applied Chemistry, 2015, 88, 226-231.	0.1	10
34	Analysis of electrical parameters of the glasses of the system Bix(As2S3)100âˆ’x. Materials Science in Semiconductor Processing, 2015, 38, 324-328.	1.9	8
35	Chalcogenide Thin Film Substrate for Protein Biochip Application. Hindawi Journal of Chemistry, 2014, 2014, 1-5.	1.6	1
36	Mechanism of a microwave-assisted polyol synthesis of nanosize CuInSe2 particles and their optical and photoelectric properties. Russian Journal of Applied Chemistry, 2014, 87, 671-675.	0.1	3

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37	Vitreous films of Ga6Ge17S43 composition as a biochip substrate. Glass Physics and Chemistry, 2014, 40, 467-469.	0.2	2
38	As39S6 films as protein-selective two-dimensional arrays for biochips. Glass Physics and Chemistry, 2014, 40, 470-471.	0.2	1
39	Photo-assisted electrodeposition of polypyrrole back contact to CdS/CdTe solar cell structures. Thin Solid Films, 2013, 535, 198-201.	0.8	17
40	Low-Crosstalk 3 Ã— 3 Optical Cross-Connect Using Fiber Bragg Gratings. Fiber and Integrated Optics, 2012, 31, 229-236.	1.7	6
41	Production of nanodispersed materials and thin films by laser ablation techniques in liquid and in vacuum. Russian Chemical Reviews, 2012, 81, 1091-1116.	2.5	4
42	Raman spectroscopy of glasses in the Asâ€“Te system. Journal of Solid State Chemistry, 2012, 190, 271-276.	1.4	44
43	Photoinduced changes of the rate of dissolution of bilayer films of chalcogenide glasses. Glass Physics and Chemistry, 2012, 38, 185-189.	0.2	2
44	Thermal expansion coefficient and relaxation parameters of glasses in the system GaX2-GeX2-Sb2X3 (X =) Tj ETQq0 0 0 rgBT /Overlock 1	0.2	0
45	Supercontinuum generation in chalcogenide-silica step-index fibers. Optics Express, 2011, 19, 21003.	1.7	126
46	Bandgap guidance in hybrid chalcogenideâ€“silica photonic crystal fibers. Optics Letters, 2011, 36, 2432.	1.7	96
47	Synthesis of nanocrystalline powders of yttrium aluminum garnet doped by neodymium. Nanotechnologies in Russia, 2011, 6, 504-509.	0.7	8
48	High-Vacuum Evaporation of n-CuIn3Se5 Photoabsorber Films for Hybrid PV Structures. Journal of Electronic Materials, 2011, 40, 2374-2381.	1.0	7
49	Bandgap guidance in chalcogenidesilica photonic crystal fibers. , 2011, , .		0
50	Composition investigation of lithium niobate crystals and its influence on the optical damage resistance. Russian Journal of General Chemistry, 2010, 80, 1543-1549.	0.3	2
51	Physicochemical and optical properties of glasses in the Ga4Ge21Se50-Sb2Se3 system. Glass Physics and Chemistry, 2010, 36, 309-312.	0.2	1
52	The impedance spectroscopy of <mml:math altimg="si1.gif" display="inline" overflow="scroll" xmlns:xocs="http://www.elsevier.com/xml/xocs/dtd" xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://www.elsevier.com/xml/ja/dtd" xmlns:ja="http://www.elsevier.com/xml/ja/dtd" xmlns:mml="http://www.w3.org/1998/Math/MathML" xmlns:tb="http://www.elsevier.com/xml/common/table/dtd" xmlns:sb="http://www.elsevier.com/xml/common/struct-bib/dtd" xmlns:ce="http://ww. Energy Procedia,	1.8	10
53	Polycrystalline CuIn3Se5 thin film photoabsorber deposited by the pulsed laser deposition technique. Proceedings of the Estonian Academy of Sciences, 2009, 58, 24.	0.9	5
54	Shallow defect density determination in CuIn3Se5 thin film photoabsorber by impedance spectroscopy. Thin Solid Films, 2009, 517, 2286-2290.	0.8	5

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55	Investigation of lithium niobate composition by optical spectroscopy methods. Russian Chemical Bulletin, 2009, 58, 2228-2232.	0.4	16
56	Physicochemical and optical properties of glasses in the Ga4Ge21S50-Sb2S3 system. Glass Physics and Chemistry, 2009, 35, 360-363.	0.2	3
57	Structural investigation of glasses in the x(0.16GaCh2 Â· 0.84GeCh2) Â· (1 âˆ’ x)(SbCh1.5) (Ch = S, Se) system. Glass Physics and Chemistry, 2009, 35, 475-478.	0.2	5
58	DC and AC conductivities of (As2S3)100âˆ’x(AsSe0.5Te0.5I)x chalcogenide glasses. Physica B: Condensed Matter, 2008, 403, 2578-2583.	1.3	17
59	Photobleaching of Ga2S3-GeS2films prepared with pulsed laser deposition. Laser Physics Letters, 2007, 4, 341-344.	0.6	4
60	Specific optical and photoelectric properties of thin CuIn3Se5 films synthesized by laser deposition. Semiconductors, 2007, 41, 1394-1397.	0.2	1
61	CuInSe2 thin films deposited by UV laser ablation. Solar Energy Materials and Solar Cells, 2006, 90, 3624-3632.	3.0	28
62	Photoinduced bleaching in Ga-Ge-S(Se) vitreous films. Glass Physics and Chemistry, 2006, 32, 677-680.	0.2	2
63	Photoinduced transformations in Ga-Ge-S : Er films prepared by laser deposition. Glass Physics and Chemistry, 2005, 31, 173-176.	0.2	4
64	Rare-Earth Doped Chalcogenide Glass. Semiconductors and Semimetals, 2004, , 169-207.	0.4	12
65	Formation of complex structural units and structure of some chalco-halide glasses. Journal of Non-Crystalline Solids, 2004, 333, 85-89.	1.5	27
66	On the Possible Existence of Vitreous Solid Electrolytes with a Molten Cationic Sublattice. Glass Physics and Chemistry, 2003, 29, 137-139.	0.2	0
67	Temperature Dependence of the Viscosity of Chalcogenide Glass-Forming Melts. Glass Physics and Chemistry, 2003, 29, 532-536.	0.2	28
68	Up-conversion luminescence efficiency in Er-doped chalcogenide glasses. Journal of Non-Crystalline Solids, 2003, 326-327, 311-315.	1.5	16
69	Deposition of Er 3+ doped chalcogenide glass films by excimer laser ablation. Journal of Non-Crystalline Solids, 2003, 326-327, 316-319.	1.5	19
70	Calculation of viscosity of chalcogenide glasses near glass transition temperature from heat capacity or thermal expansion data. Journal of Non-Crystalline Solids, 2002, 298, 226-231.	1.5	18
71	<title>Glasses of the Ga<formula><inf><roman>2</roman></inf></formula>S<formula><inf><roman>3</roman></inf></formula>-GeS<formula><inf><roma system doped with rare-earth ions (Nd<formula>^{<roman>3+</roman>}</formula>,Er<formula>^{<roman>3+</roman>}</formula>) as active optical materials</title>. , 2001, 4429, 80.		12
72	Up-conversion fluorescence in Er-doped chalcogenide glasses based on GeS2â€“Ga2S3 system. Journal of Non-Crystalline Solids, 2001, 286, 89-92.	1.5	38

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73	Thermal expansion of glasses in the As2Se3â€"AsI3 system. Journal of Non-Crystalline Solids, 1999, 243, 277-280.	1.5	8
74	Structure of As2Te3 glass, influence thermal processing. Journal of Non-Crystalline Solids, 1998, 223, 86-90.	1.5	17
75	Heat of structural transformation at the semiconductor-metal transition in As2Te3 liquid. Journal of Non-Crystalline Solids, 1996, 197, 235-237.	1.5	23
76	Raman spectra of gallium sulfide based glasses. Journal of Non-Crystalline Solids, 1996, 208, 49-55.	1.5	80
77	A glass-forming system with compound-forming tendency: As4S6î—¸P4S10. Journal of Non-Crystalline Solids, 1991, 130, 236-242.	1.5	8
78	PVD of N-CuIn3Se5 Photoabsorber Films. Key Engineering Materials, 0, 495, 339-342.	0.4	0